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# **APPENDIX H**

## **FISHERIES TECHNICAL DATA AND FIGURES**

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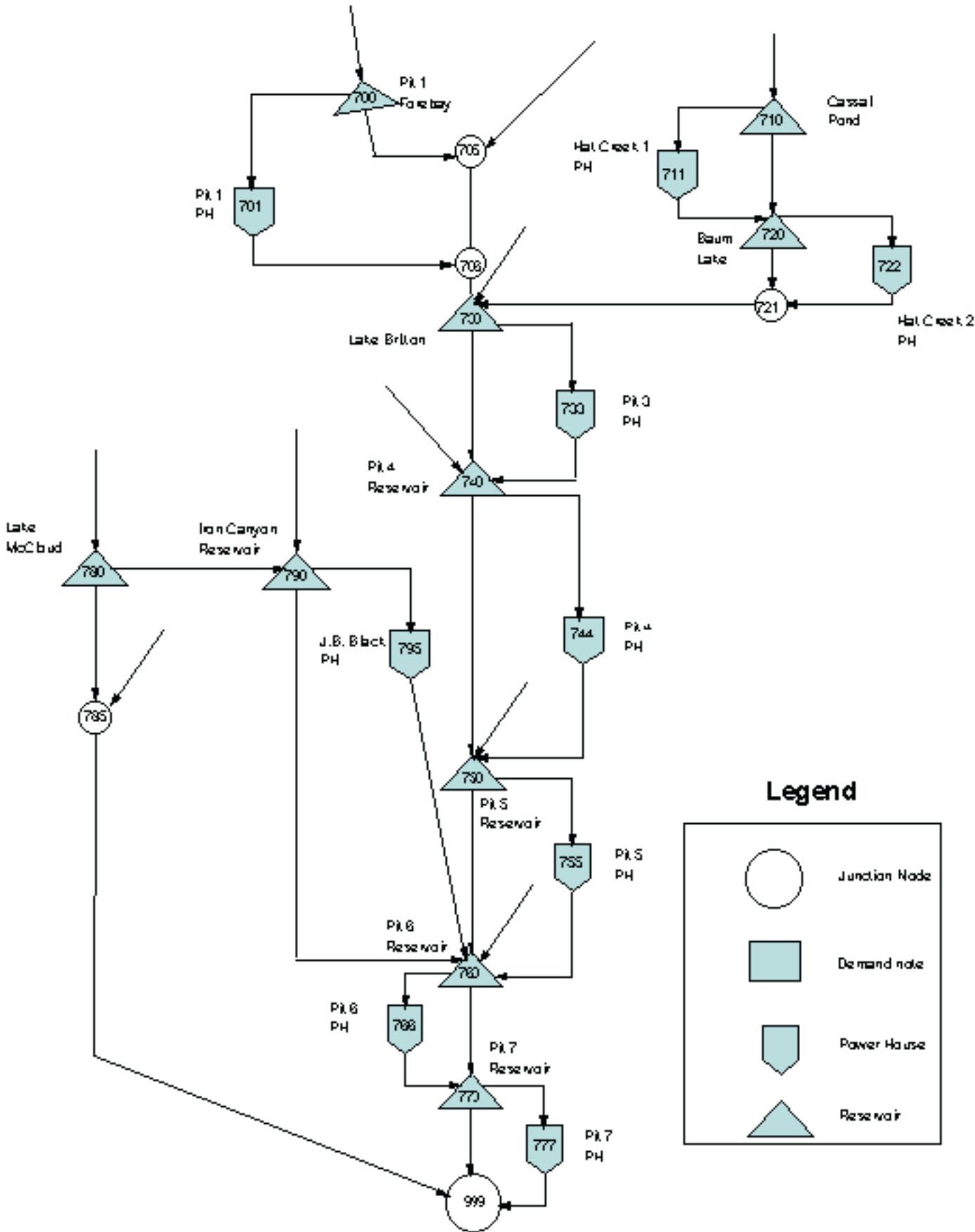
# **SHASTA REGIONAL BUNDLE**

**FISHERIES TECHNICAL DATA AND FIGURES**

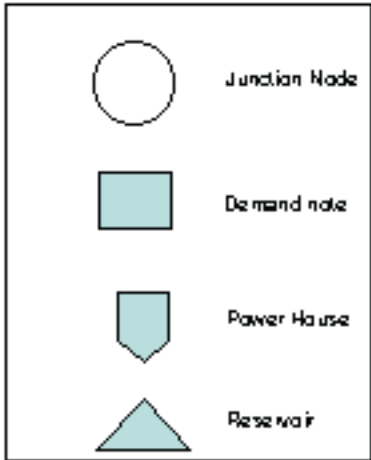
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# Shasta Watershed--Oasis Schematic



## Legend



Shasta: Appendix Table-1 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Shasta: Pit River  
 Location: Code 730-740  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |
|------------|-----------------|--------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|
|            |                 | Oct                      |     |    |     | Nov |     |    |     | Dec |     |    |     | Jan |     |    |     | Feb |     |    |     | Mar |     |    |     |
|            |                 | NP                       | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  |
| 1975       | Wet             | ND                       | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | 100 | 100 | ND | 133 | 100 | 100 | ND | 100 | 100 | 92  | ND | 100 |
| 1976       | Critical        | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1977       | Critical        | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1978       | bove Norm       | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 108 | 96  | ND | 108 |
| 1979       | elow Norm       | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 62  | ND | 100 |
| 1980       | bove Norm       | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1981       | Dry             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1982       | Wet             | 100                      | 100 | ND | 133 | 100 | 92  | ND | 100 | 100 | 100 | ND | 100 | 100 | 122 | ND | 100 | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 |
| 1983       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 96  | ND | 100 | 100 | 100 | ND | 100 |
| 1984       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 89  | ND | 100 | 100 | 108 | ND | 100 | 100 | 100 | ND | 100 | 100 | 90  | ND | 100 |
| 1985       | Dry             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 108 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1986       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 98  | ND | 100 | 100 | 100 | ND | 100 |
| 1987       | Dry             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 79  | ND | 105 |
| 1988       | Critical        | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1989       | Dry             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 97  | ND | 100 |
| 1990       | Critical        | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1991       | Critical        | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1992       | Critical        | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1993       | bove Norm       | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 98  | ND | 100 |
| 1994       | Critical        | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1995       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 95  | ND | 100 | 96  | 95  | ND | 100 | 101 | 101 | ND | 100 |
| 1996       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 |
| 1997       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 100 | 100 | 98  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1998       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 94  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1999       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 112 | 83  | 83  | ND | 83  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |
|------------|-----------------|------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|
|            |                 | Apr                    |     |    |     | May |     |    |     | Jun |     |    |     | Jul |     |    |     | Aug |     |    |     | Sep |     |    |     |
|            |                 | NP                     | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  |
| 1975       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1976       | Critical        | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1977       | Critical        | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1978       | bove Norm       | 94                     | 88  | ND | 94  | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1979       | elow Norm       | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1980       | bove Norm       | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1981       | Dry             | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1982       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1983       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1984       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1985       | Dry             | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1986       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1987       | Dry             | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1988       | Critical        | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1989       | Dry             | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1990       | Critical        | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1991       | Critical        | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1992       | Critical        | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1993       | bove Norm       | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1994       | Critical        | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1995       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1996       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1997       | Wet             | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1998       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1999       | Wet             | ND                     | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Shasta: Appendix Table-3 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Shasta: Pit River  
 Location: Code 740-750  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |
|------------|-----------------|--------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|
|            |                 | Oct                      |     |    |     | Nov |     |    |     | Dec |     |    |     | Jan |     |    |     | Feb |     |    |     | Mar |     |    |     |
|            |                 | NP                       | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  |
| 1975       | Wet             | ND                       | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 88  | ND | 100 |
| 1976       | Critical        | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1977       | Critical        | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1978       | bove Norm       | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1979       | elow Norm       | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1980       | bove Norm       | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1981       | Dry             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1982       | Wet             | 100                      | 100 | ND | 133 | 100 | 87  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 |
| 1983       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 102 | 100 | 95  | ND | 100 | 100 | 100 | ND | 100 |
| 1984       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 71  | ND | 100 | 100 | 114 | ND | 100 | 100 | 100 | ND | 133 | 100 | 80  | ND | 100 |
| 1985       | Dry             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1986       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 98  | ND | 100 | 100 | 100 | ND | 100 |
| 1987       | Dry             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1988       | Critical        | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1989       | Dry             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 96  | ND | 100 |
| 1990       | Critical        | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1991       | Critical        | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1992       | Critical        | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1993       | bove Norm       | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 98  | ND | 100 |
| 1994       | Critical        | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1995       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 93  | ND | 100 | 93  | 91  | ND | 100 | 101 | 101 | ND | 100 |
| 1996       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 |
| 1997       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 98  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 |
| 1998       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 91  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1999       | Wet             | 100                      | 100 | ND | 133 | 100 | 100 | ND | 133 | 48  | 48  | ND | 48  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |
|------------|-----------------|------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|
|            |                 | Apr                    |     |    |     | May |     |    |     | Jun |     |    |     | Jul |     |    |     | Aug |     |    |     | Sep |     |    |     |
|            |                 | NP                     | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  |
| 1975       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1976       | Critical        | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1977       | Critical        | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1978       | bove Norm       | 79                     | 72  | ND | 97  | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1979       | elow Norm       | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1980       | bove Norm       | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1981       | Dry             | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1982       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1983       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1984       | Wet             | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1985       | Dry             | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1986       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1987       | Dry             | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1988       | Critical        | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1989       | Dry             | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1990       | Critical        | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1991       | Critical        | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1992       | Critical        | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1993       | bove Norm       | 100                    | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1994       | Critical        | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1995       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1996       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1997       | Wet             | 100                    | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1998       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 | 100 | 100 | ND | 133 |
| 1999       | Wet             | ND                     | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Shasta: Appendix Table-5 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Shasta: Pit River  
 Location: Code 750-760  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |
|------------|-----------------|--------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|
|            |                 | Oct                      |     |    |     | Nov |     |    |     | Dec |     |    |     | Jan |     |    |     | Feb |     |    |     | Mar |     |    |     |
|            |                 | NP                       | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  |
| 1975       | Wet             | ND                       | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 90  | ND | 100 |
| 1976       | Critical        | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1977       | Critical        | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1978       | bove Norm       | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 120 | 100 | 100 | ND | 208 | 130 | 86  | ND | 179 |
| 1979       | elow Norm       | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1980       | bove Norm       | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1981       | Dry             | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1982       | Wet             | 100                      | 100 | ND | 208 | 100 | 89  | ND | 100 | 100 | 100 | ND | 100 | 100 | 121 | ND | 208 | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 |
| 1983       | Wet             | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 100 | 100 | 95  | ND | 100 | 100 | 100 | ND | 100 |
| 1984       | Wet             | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 81  | ND | 100 | 100 | 111 | ND | 100 | 100 | 100 | ND | 132 | 100 | 85  | ND | 100 |
| 1985       | Dry             | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1986       | Wet             | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 98  | ND | 100 | 100 | 100 | ND | 100 |
| 1987       | Dry             | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1988       | Critical        | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1989       | Dry             | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 96  | ND | 100 |
| 1990       | Critical        | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1991       | Critical        | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1992       | Critical        | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1993       | bove Norm       | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 98  | ND | 100 |
| 1994       | Critical        | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1995       | Wet             | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 94  | ND | 100 | 95  | 93  | ND | 100 | 101 | 101 | ND | 100 |
| 1996       | Wet             | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 |
| 1997       | Wet             | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 132 | 100 | 98  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 208 |
| 1998       | Wet             | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 92  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1999       | Wet             | 100                      | 100 | ND | 208 | 100 | 100 | ND | 208 | 63  | 63  | ND | 63  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |
|------------|-----------------|------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|
|            |                 | Apr                    |     |    |     | May |     |    |     | Jun |     |    |     | Jul |     |    |     | Aug |     |    |     | Sep |     |    |     |
|            |                 | NP                     | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  |
| 1975       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1976       | Critical        | 100                    | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1977       | Critical        | 100                    | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1978       | bove Norm       | 88                     | 78  | ND | 88  | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1979       | elow Norm       | 100                    | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1980       | bove Norm       | 100                    | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1981       | Dry             | 100                    | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1982       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1983       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1984       | Wet             | 100                    | 100 | ND | 110 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1985       | Dry             | 100                    | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1986       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1987       | Dry             | 100                    | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1988       | Critical        | 100                    | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1989       | Dry             | 100                    | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1990       | Critical        | 100                    | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1991       | Critical        | 100                    | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1992       | Critical        | 100                    | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1993       | bove Norm       | 100                    | 100 | ND | 100 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1994       | Critical        | 100                    | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1995       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1996       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 185 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1997       | Wet             | 100                    | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1998       | Wet             | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 | 100 | 100 | ND | 208 |
| 1999       | Wet             | ND                     | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement





Shasta: Appendix Table-7 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Shasta: Pit River  
 Location: Code 760-770  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline <sup>A</sup> |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |
|------------|-----------------|-------------------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|
|            |                 | Oct                                 |     |    |     | Nov |     |    |     | Dec |     |    |     | Jan |     |    |     | Feb |     |    |     | Mar |     |    |     |
|            |                 | NP                                  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  |
| 1975       | Wet             | ND                                  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | 100 | 90  | ND | 98  |
| 1976       | Critical        | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1977       | Critical        | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1978       | bove Norm       | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | 100 | 93  | ND | 99  | 100 | 100 | ND | 100 | 105 | 99  | ND | 105 |
| 1979       | elow Norm       | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1980       | bove Norm       | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | 100 | 96  | ND | 99  | 100 | 100 | ND | 99  | 100 | 101 | ND | 97  |
| 1981       | Dry             | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1982       | Wet             | ZBF                                 | ZBF | ND | ZBF | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | ZBF | ZBF | ND | ZBF | 100 | 95  | ND | 99  | 100 | 100 | ND | 100 |
| 1983       | Wet             | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | 100 | 94  | ND | 94  | 100 | 96  | ND | 100 | 100 | 100 | ND | 100 |
| 1984       | Wet             | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | 100 | 91  | ND | 100 | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1985       | Dry             | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1986       | Wet             | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | 100 | 98  | ND | 100 | 100 | 100 | ND | 100 |
| 1987       | Dry             | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1988       | Critical        | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1989       | Dry             | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | 100 | 95  | ND | 100 |
| 1990       | Critical        | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1991       | Critical        | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1992       | Critical        | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1993       | bove Norm       | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | 100 | 97  | ND | 100 |
| 1994       | Critical        | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1995       | Wet             | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | 100 | 94  | ND | 100 | 100 | 87  | ND | 101 | 100 | 101 | ND | 99  |
| 1996       | Wet             | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | 100 | 96  | ND | 100 | 100 | 100 | ND | 100 |
| 1997       | Wet             | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | 100 | 95  | ND | 100 | 100 | 98  | ND | 100 | 100 | 100 | ND | 98  | ZBF | ZBF | ND | ZBF |
| 1998       | Wet             | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | 100 | 92  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1999       | Wet             | ZBF                                 | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |
|------------|-----------------|------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|
|            |                 | Apr                    |     |    |     | May |     |    |     | Jun |     |    |     | Jul |     |    |     | Aug |     |    |     | Sep |     |    |     |
|            |                 | NP                     | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  |
| 1975       | Wet             | 100                    | 101 | ND | 100 | 100 | OTP | ND | 100 | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1976       | Critical        | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1977       | Critical        | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1978       | bove Norm       | 59                     | 24  | ND | 59  | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1979       | elow Norm       | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1980       | bove Norm       | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1981       | Dry             | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1982       | Wet             | 100                    | 100 | ND | 100 | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1983       | Wet             | 100                    | 100 | ND | 100 | 100 | 206 | ND | 100 | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1984       | Wet             | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1985       | Dry             | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1986       | Wet             | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1987       | Dry             | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1988       | Critical        | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1989       | Dry             | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1990       | Critical        | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1991       | Critical        | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1992       | Critical        | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1993       | bove Norm       | 100                    | 100 | ND | 100 | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1994       | Critical        | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1995       | Wet             | 100                    | 100 | ND | 100 | 100 | 113 | ND | 100 | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1996       | Wet             | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1997       | Wet             | ZBF                    | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1998       | Wet             | 100                    | 100 | ND | 100 | 100 | 120 | ND | 100 | 100 | 112 | ND | 100 | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF | ZBF | ZBF | ND | ZBF |
| 1999       | Wet             | ND                     | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Shasta: Appendix Table-9 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Shasta: Pit River  
 Location: Code 770-999  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |
|------------|-----------------|--------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|
|            |                 | Oct                      |     |    |     | Nov |     |    |     | Dec |     |    |     | Jan |     |    |     | Feb |     |    |     | Mar |     |    |     |
|            |                 | NP                       | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  |
| 1975       | Wet             | ND                       | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | 100 | 108 | ND | 100 | 100 | 100 | ND | 100 | 100 | 96  | ND | 100 |
| 1976       | Critical        | 100                      | 97  | ND | 100 | 100 | 100 | ND | 100 | 100 | 99  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 102 | 97  | ND | 98  |
| 1977       | Critical        | 100                      | 99  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 99  | ND | 100 | 100 | 100 | ND | 100 | 116 | 116 | ND | 115 |
| 1978       | bove Norm       | 100                      | 100 | ND | 100 | 100 | 99  | ND | 100 | 100 | 101 | ND | 100 | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1979       | elow Norm       | 100                      | 99  | ND | 100 | 100 | 99  | ND | 100 | 100 | 99  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 99  | 102 | 101 | ND | 99  |
| 1980       | bove Norm       | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1981       | Dry             | 100                      | 100 | ND | 100 | 100 | 99  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 99  | 100 | 100 | ND | 100 | 103 | 96  | ND | 99  |
| 1982       | Wet             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 98  | ND | 100 | 100 | 105 | ND | 100 | 100 | 96  | ND | 100 | 100 | 100 | ND | 100 |
| 1983       | Wet             | 100                      | 99  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 99  | 100 | 100 | ND | 100 | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 |
| 1984       | Wet             | 100                      | 99  | ND | 100 | 100 | 100 | ND | 100 | 100 | 96  | ND | 100 | 100 | 105 | ND | 100 | 100 | 100 | ND | 100 | 100 | 95  | ND | 100 |
| 1985       | Dry             | 100                      | 99  | ND | 100 | 100 | 100 | ND | 100 | 100 | 99  | ND | 100 | 100 | 99  | ND | 100 | 100 | 100 | ND | 100 | 103 | 103 | ND | 98  |
| 1986       | Wet             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 99  | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 |
| 1987       | Dry             | 100                      | 99  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 99  | 101 | 98  | ND | 99  |
| 1988       | Critical        | 100                      | 100 | ND | 100 | 100 | 99  | ND | 100 | 100 | 101 | ND | 99  | 100 | 99  | ND | 98  | 100 | 100 | ND | 99  | 110 | 110 | ND | 109 |
| 1989       | Dry             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 99  | ND | 100 | 100 | 100 | ND | 100 | 100 | 97  | ND | 100 |
| 1990       | Critical        | 100                      | 100 | ND | 100 | 100 | 99  | ND | 100 | 100 | 99  | ND | 100 | 100 | 100 | ND | 99  | 100 | 100 | ND | 100 | 111 | 101 | ND | 109 |
| 1991       | Critical        | 100                      | 100 | ND | 100 | 100 | 99  | ND | 100 | 100 | 99  | ND | 100 | 100 | 99  | ND | 100 | 100 | 100 | ND | 100 | 115 | 109 | ND | 110 |
| 1992       | Critical        | 100                      | 100 | ND | 100 | 100 | 99  | ND | 100 | 100 | 100 | ND | 100 | 100 | 99  | ND | 100 | 100 | 100 | ND | 98  | 116 | 116 | ND | 113 |
| 1993       | bove Norm       | 100                      | 100 | ND | 100 | 100 | 99  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 99  | 100 | 100 | ND | 99  | 100 | 97  | ND | 100 |
| 1994       | Critical        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 120 | 120 | ND | 119 |
| 1995       | Wet             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1996       | Wet             | 100                      | 98  | ND | 100 | 100 | 99  | ND | 100 | 100 | 101 | ND | 100 | 100 | 99  | ND | 99  | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 |
| 1997       | Wet             | 100                      | 99  | ND | 100 | 100 | 102 | ND | 100 | 100 | 97  | ND | 100 | 100 | 99  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 99  |
| 1998       | Wet             | 100                      | 98  | ND | 100 | 100 | 102 | ND | 100 | 100 | 99  | ND | 100 | 100 | 96  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1999       | Wet             | 100                      | 99  | ND | 100 | 100 | 100 | ND | 100 | 107 | 107 | ND | 107 | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |
|------------|-----------------|------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|
|            |                 | Apr                    |     |    |     | May |     |    |     | Jun |     |    |     | Jul |     |    |     | Aug |     |    |     | Sep |     |    |     |
|            |                 | NP                     | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  |
| 1975       | Wet             | 100                    | 100 | ND | 100 | 100 | 107 | ND | 100 | 100 | 102 | ND | 100 | 101 | 104 | ND | 101 | 100 | 108 | ND | 100 | 100 | 101 | ND | 100 |
| 1976       | Critical        | 103                    | 103 | ND | 107 | 94  | 100 | ND | 94  | 100 | 93  | ND | 100 | 101 | 101 | ND | 100 | 99  | 110 | ND | 99  | 100 | 99  | ND | 101 |
| 1977       | Critical        | 90                     | 90  | ND | 92  | 94  | 92  | ND | 94  | 102 | 87  | ND | 100 | 98  | 101 | ND | 100 | 101 | 117 | ND | 100 | 100 | 98  | ND | 100 |
| 1978       | bove Norm       | 100                    | 99  | ND | 100 | 99  | 109 | ND | 99  | 100 | 84  | ND | 100 | 110 | 117 | ND | 110 | 92  | 102 | ND | 94  | 100 | 105 | ND | 97  |
| 1979       | elow Norm       | 103                    | 104 | ND | 103 | 94  | 94  | ND | 94  | 100 | 87  | ND | 100 | 102 | 109 | ND | 101 | 98  | 109 | ND | 99  | 100 | 96  | ND | 100 |
| 1980       | bove Norm       | 103                    | 109 | ND | 103 | 96  | 98  | ND | 94  | 100 | 86  | ND | 100 | 106 | 114 | ND | 112 | 94  | 95  | ND | 93  | 101 | 111 | ND | 97  |
| 1981       | Dry             | 108                    | 109 | ND | 112 | 91  | 100 | ND | 88  | 98  | 86  | ND | 98  | 100 | 100 | ND | 100 | 95  | 101 | ND | 100 | 106 | 114 | ND | 100 |
| 1982       | Wet             | 100                    | 100 | ND | 100 | 100 | 108 | ND | 100 | 100 | 94  | ND | 100 | 102 | 108 | ND | 102 | 95  | 103 | ND | 99  | 103 | 107 | ND | 100 |
| 1983       | Wet             | 100                    | 100 | ND | 100 | 100 | 106 | ND | 100 | 100 | 102 | ND | 100 | 100 | 101 | ND | 100 | 98  | 103 | ND | 98  | 102 | 110 | ND | 102 |
| 1984       | Wet             | 100                    | 100 | ND | 100 | 100 | 108 | ND | 100 | 100 | 87  | ND | 100 | 107 | 113 | ND | 102 | 96  | 110 | ND | 99  | 98  | 100 | ND | 99  |
| 1985       | Dry             | 98                     | 95  | ND | 104 | 98  | 102 | ND | 96  | 100 | 90  | ND | 100 | 106 | 106 | ND | 101 | 97  | 104 | ND | 99  | 98  | 103 | ND | 100 |
| 1986       | Wet             | 101                    | 103 | ND | 101 | 100 | 105 | ND | 99  | 100 | 87  | ND | 100 | 107 | 108 | ND | 103 | 96  | 106 | ND | 98  | 98  | 102 | ND | 99  |
| 1987       | Dry             | 114                    | 113 | ND | 116 | 88  | 93  | ND | 86  | 98  | 87  | ND | 98  | 94  | 96  | ND | 95  | 103 | 110 | ND | 106 | 104 | 108 | ND | 100 |
| 1988       | Critical        | 100                    | 100 | ND | 100 | 89  | 88  | ND | 89  | 100 | 89  | ND | 100 | 89  | 94  | ND | 94  | 113 | 125 | ND | 106 | 101 | 97  | ND | 101 |
| 1989       | Dry             | 101                    | 101 | ND | 100 | 99  | 107 | ND | 98  | 100 | 88  | ND | 101 | 95  | 95  | ND | 95  | 105 | 125 | ND | 106 | 102 | 97  | ND | 101 |
| 1990       | Critical        | 99                     | 110 | ND | 99  | 86  | 85  | ND | 86  | 103 | 90  | ND | 103 | 103 | 103 | ND | 100 | 97  | 105 | ND | 98  | 99  | 110 | ND | 100 |
| 1991       | Critical        | 101                    | 108 | ND | 101 | 84  | 82  | ND | 87  | 100 | 87  | ND | 100 | 100 | 101 | ND | 100 | 98  | 107 | ND | 100 | 102 | 108 | ND | 100 |
| 1992       | Critical        | 101                    | 101 | ND | 101 | 76  | 75  | ND | 75  | 100 | 85  | ND | 100 | 96  | 108 | ND | 101 | 105 | 110 | ND | 98  | 100 | 97  | ND | 100 |
| 1993       | bove Norm       | 100                    | 100 | ND | 100 | 100 | 108 | ND | 100 | 100 | 100 | ND | 100 | 106 | 107 | ND | 101 | 94  | 102 | ND | 99  | 101 | 103 | ND | 100 |
| 1994       | Critical        | 96                     | 96  | ND | 96  | 81  | 80  | ND | 81  | 100 | 87  | ND | 100 | 102 | 107 | ND | 100 | 99  | 114 | ND | 100 | 99  | 93  | ND | 100 |
| 1995       | Wet             | 100                    | 100 | ND | 100 | 100 | 104 | ND | 100 | 100 | 99  | ND | 100 | 100 | 101 | ND | 100 | 100 | 110 | ND | 101 | 100 | 103 | ND | 99  |
| 1996       | Wet             | 100                    | 100 | ND | 100 | 100 | 107 | ND | 100 | 100 | 88  | ND | 100 | 105 | 116 | ND | 103 | 96  | 107 | ND | 99  | 100 | 99  | ND | 99  |
| 1997       | Wet             | 102                    | 106 | ND | 102 | 97  | 104 | ND | 99  | 100 | 82  | ND | 100 | 110 | 116 | ND | 102 | 92  | 108 | ND | 99  | 100 | 100 | ND | 100 |
| 1998       | Wet             | 100                    | 100 | ND | 100 | 100 | 105 | ND | 100 | 100 | 102 | ND | 100 | 100 | 102 | ND | 100 | 97  | 102 | ND | 99  | 103 | 112 | ND | 102 |
| 1999       | Wet             | ND                     | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Shasta: Appendix Table-11 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Shasta: McCloud River below dam  
 Location: Code 785-999  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |
|------------|-----------------|--------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|
|            |                 | Oct                      |     |    |     | Nov |     |    |     | Dec |     |    |     | Jan |     |    |     | Feb |     |    |     | Mar |     |    |     |
|            |                 | NP                       | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  |
| 1975       | Wet             | ND                       | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | 100 | 100 | ND | 100 | 100 | 100 | ND | 310 | 100 | 100 | ND | 96  |
| 1976       | Critical        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 103 | 100 | 100 | ND | 105 |
| 1977       | Critical        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1978       | bove Norm       | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 164 | 100 | 95  | ND | 99  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1979       | elow Norm       | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 148 | 100 | 100 | ND | 313 |
| 1980       | bove Norm       | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 310 | 100 | 99  | ND | 97  | 100 | 100 | ND | 223 |
| 1981       | Dry             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 125 | 100 | 100 | ND | 310 | 100 | 100 | ND | 313 |
| 1982       | Wet             | 100                      | 100 | ND | 100 | 100 | 49  | ND | 100 | 100 | 81  | ND | 100 | 100 | 100 | ND | 188 | 100 | 98  | ND | 95  | 100 | 100 | ND | 100 |
| 1983       | Wet             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 313 | 100 | 88  | ND | 96  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1984       | Wet             | 100                      | 100 | ND | 100 | 100 | 50  | ND | 100 | 100 | 88  | ND | 100 | 100 | 82  | ND | 100 | 100 | 100 | ND | 175 | 100 | 100 | ND | 97  |
| 1985       | Dry             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 101 |
| 1986       | Wet             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 310 | 100 | 100 | ND | 99  | 100 | 100 | ND | 100 |
| 1987       | Dry             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 194 | 100 | 100 | ND | 291 |
| 1988       | Critical        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 181 | 100 | 100 | ND | 157 | 100 | 100 | ND | 151 | 100 | 100 | ND | 119 |
| 1989       | Dry             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 107 | 100 | 100 | ND | 100 |
| 1990       | Critical        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 138 | 100 | 100 | ND | 104 | 100 | 100 | ND | 174 |
| 1991       | Critical        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 151 |
| 1992       | Critical        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 310 | 100 | 100 | ND | 313 |
| 1993       | bove Norm       | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 221 | 100 | 100 | ND | 310 | 100 | 100 | ND | 99  |
| 1994       | Critical        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 111 | 100 | 100 | ND | 115 | 100 | 100 | ND | 145 |
| 1995       | Wet             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 96  | ND | 100 | 100 | 100 | ND | 310 | 100 | 100 | ND | 99  |
| 1996       | Wet             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 117 | 100 | 100 | ND | 132 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1997       | Wet             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 92  | ND | 100 | 100 | 98  | ND | 100 | 100 | 100 | ND | 194 | 100 | 100 | ND | 136 |
| 1998       | Wet             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 116 | 100 | 92  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1999       | Wet             | 100                      | 100 | ND | 100 | 100 | 100 | ND | 107 | 38  | 20  | ND | 43  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |
|------------|-----------------|------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|
|            |                 | Apr                    |     |    |     | May |     |    |     | Jun |     |    |     | Jul |     |    |     | Aug |     |    |     | Sep |     |    |     |
|            |                 | NP                     | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  |
| 1975       | Wet             | 100                    | 100 | ND | 100 | 100 | 69  | ND | 100 | 100 | 38  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1976       | Critical        | 100                    | 100 | ND | 112 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1977       | Critical        | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1978       | bove Norm       | 100                    | 100 | ND | 100 | 100 | 41  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1979       | elow Norm       | 100                    | 100 | ND | 184 | 100 | 100 | ND | 139 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1980       | bove Norm       | 100                    | 100 | ND | 205 | 100 | 76  | ND | 91  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1981       | Dry             | 100                    | 100 | ND | 164 | 51  | 51  | ND | 51  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1982       | Wet             | 100                    | 100 | ND | 100 | 100 | 59  | ND | 100 | 100 | 51  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1983       | Wet             | 100                    | 100 | ND | 100 | 100 | 74  | ND | 100 | 100 | 53  | ND | 100 | 100 | 65  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1984       | Wet             | 100                    | 100 | ND | 104 | 100 | 46  | ND | 100 | 100 | 93  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1985       | Dry             | 100                    | 100 | ND | 116 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1986       | Wet             | 100                    | 100 | ND | 134 | 74  | 48  | ND | 74  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1987       | Dry             | 100                    | 100 | ND | 115 | 58  | 58  | ND | 58  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1988       | Critical        | 100                    | 100 | ND | 109 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1989       | Dry             | 100                    | 100 | ND | 272 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1990       | Critical        | 100                    | 100 | ND | 100 | 100 | 100 | ND | 130 | 70  | 70  | ND | 74  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1991       | Critical        | 100                    | 100 | ND | 144 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1992       | Critical        | 100                    | 100 | ND | 176 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1993       | bove Norm       | 100                    | 100 | ND | 100 | 100 | 39  | ND | 100 | 100 | 15  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1994       | Critical        | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1995       | Wet             | 100                    | 100 | ND | 100 | 100 | 58  | ND | 100 | 100 | 37  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1996       | Wet             | 100                    | 100 | ND | 104 | 100 | 60  | ND | 100 | 100 | 97  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1997       | Wet             | 100                    | 100 | ND | 112 | 91  | 60  | ND | 66  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1998       | Wet             | 100                    | 100 | ND | 100 | 100 | 73  | ND | 100 | 100 | 61  | ND | 100 | 100 | 53  | ND | 100 | 100 | 90  | ND | 100 | 100 | 100 | ND | 100 |
| 1999       | Wet             | ND                     | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Shasta: Appendix Table-13 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Shasta: McCloud River at AH\_DL\_NA  
 Location: Iode 785-999  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |
|------------|------------|--------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|
|            |            | Oct                      |     |    |     | Nov |     |    |     | Dec |     |    |     | Jan |     |    |     | Feb |     |    |     | Mar |     |    |     |
|            |            | NP                       | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  |
| 1975       | Wet        | ND                       | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | 100 | 100 | ND | 100 | 100 | 100 | ND | 152 | 100 | 100 | ND | 98  |
| 1976       | Critical   | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 103 | 100 | 100 | ND | 104 |
| 1977       | Critical   | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1978       | above Norm | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 126 | 100 | 98  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1979       | below Norm | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 126 | 100 | 100 | ND | 144 |
| 1980       | above Norm | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 128 | 100 | 100 | ND | 100 | 100 | 100 | ND | 98  | 100 | 100 | ND | 129 |
| 1981       | Dry        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 116 | 100 | 100 | ND | 100 | 100 | 100 | ND | 152 | 100 | 100 | ND | 139 |
| 1982       | Wet        | 100                      | 100 | ND | 100 | 100 | 77  | ND | 100 | 100 | 91  | ND | 100 | 100 | 100 | ND | 136 | 100 | 99  | ND | 98  | 100 | 100 | ND | 100 |
| 1983       | Wet        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 138 | 100 | 95  | ND | 98  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1984       | Wet        | 100                      | 100 | ND | 100 | 100 | 66  | ND | 100 | 100 | 92  | ND | 100 | 100 | 91  | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 99  |
| 1985       | Dry        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1986       | Wet        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 146 | 100 | 100 | ND | 100 | 100 | 100 | ND | 99  | 100 | 100 | ND | 100 |
| 1987       | Dry        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 138 | 100 | 100 | ND | 132 |
| 1988       | Critical   | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 129 | 100 | 100 | ND | 129 | 100 | 100 | ND | 126 | 100 | 100 | ND | 112 |
| 1989       | Dry        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 105 | 100 | 100 | ND | 100 |
| 1990       | Critical   | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 121 | 100 | 100 | ND | 100 | 100 | 100 | ND | 103 | 100 | 100 | ND | 131 |
| 1991       | Critical   | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 125 |
| 1992       | Critical   | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 139 | 100 | 100 | ND | 143 |
| 1993       | above Norm | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 143 | 100 | 100 | ND | 138 | 100 | 100 | ND | 138 | 100 | 100 | ND | 99  |
| 1994       | Critical   | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 108 | 100 | 100 | ND | 108 | 100 | 100 | ND | 110 | 100 | 100 | ND | 123 |
| 1995       | Wet        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 98  | ND | 100 | 100 | 100 | ND | 133 | 100 | 100 | ND | 100 |
| 1996       | Wet        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 109 | 100 | 100 | ND | 119 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1997       | Wet        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 96  | ND | 100 | 100 | 99  | ND | 100 | 100 | 100 | ND | 129 | 100 | 100 | ND | 119 |
| 1998       | Wet        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 109 | 100 | 96  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1999       | Wet        | 100                      | 100 | ND | 100 | 100 | 100 | ND | 104 | 58  | 45  | ND | 61  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  |

| Water Year | Water Type | Percentage of Baseline |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |     |     |    |     |
|------------|------------|------------------------|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|
|            |            | Apr                    |     |    |     | May |     |    |     | Jun |     |    |     | Jul |     |    |     | Aug |     |    |     | Sep |     |    |     |
|            |            | NP                     | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM | ST  |
| 1975       | Wet        | 100                    | 100 | ND | 100 | 100 | 81  | ND | 100 | 100 | 50  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1976       | Critical   | 100                    | 100 | ND | 108 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1977       | Critical   | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1978       | above Norm | 100                    | 100 | ND | 100 | 100 | 57  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1979       | below Norm | 100                    | 100 | ND | 134 | 100 | 100 | ND | 119 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1980       | above Norm | 100                    | 100 | ND | 137 | 100 | 83  | ND | 94  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1981       | Dry        | 100                    | 100 | ND | 129 | 60  | 60  | ND | 60  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1982       | Wet        | 100                    | 100 | ND | 100 | 100 | 70  | ND | 100 | 100 | 58  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1983       | Wet        | 100                    | 100 | ND | 100 | 100 | 85  | ND | 100 | 100 | 68  | ND | 100 | 100 | 69  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1984       | Wet        | 100                    | 100 | ND | 102 | 100 | 53  | ND | 100 | 100 | 94  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1985       | Dry        | 100                    | 100 | ND | 110 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1986       | Wet        | 100                    | 100 | ND | 119 | 78  | 56  | ND | 78  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1987       | Dry        | 100                    | 100 | ND | 109 | 64  | 64  | ND | 64  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1988       | Critical   | 100                    | 100 | ND | 106 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1989       | Dry        | 100                    | 100 | ND | 146 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1990       | Critical   | 100                    | 100 | ND | 100 | 100 | 100 | ND | 116 | 79  | 79  | ND | 82  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1991       | Critical   | 100                    | 100 | ND | 122 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1992       | Critical   | 100                    | 100 | ND | 132 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1993       | above Norm | 100                    | 100 | ND | 100 | 100 | 52  | ND | 100 | 100 | 42  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1994       | Critical   | 100                    | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1995       | Wet        | 100                    | 100 | ND | 100 | 100 | 68  | ND | 100 | 100 | 47  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1996       | Wet        | 100                    | 100 | ND | 102 | 100 | 74  | ND | 100 | 100 | 98  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1997       | Wet        | 100                    | 100 | ND | 108 | 92  | 66  | ND | 72  | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1998       | Wet        | 100                    | 100 | ND | 100 | 100 | 85  | ND | 100 | 100 | 77  | ND | 100 | 100 | 63  | ND | 100 | 100 | 100 | ND | 100 | 100 | 100 | ND | 100 |
| 1999       | Wet        | ND                     | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  | ND  | ND  | ND | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement





Shasta: Appendix Table-15 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: Shasta: Lake Britton  
 Location: Node 730  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Type | Cumulative Storage (May-October) A |       |       |    |       | Percentage of Baseline |       |    |        | Significance Evaluation |     |    |     |
|------------|------------|------------------------------------|-------|-------|----|-------|------------------------|-------|----|--------|-------------------------|-----|----|-----|
|            |            | BL2000                             | NP    | PM    | WM | ST    | NP                     | PM    | WM | ST     | NP                      | PM  | WM | ST  |
| 1975       | Wet        | 221.7                              | 221.7 | 203.7 | 0  | 221.7 | 100.0%                 | 91.9% | ND | 100.0% | No                      | LTS | ND | No  |
| 1976       | Critical   | 223.8                              | 224.9 | 206.9 | 0  | 226.5 | >100%                  | 92.4% | ND | >100%  | No                      | LTS | ND | No  |
| 1977       | Critical   | 211.8                              | 211.8 | 189.6 | 0  | 211.8 | 100.0%                 | 89.5% | ND | 100.0% | No                      | LTS | ND | No  |
| 1978       | bove Norm  | 221.7                              | 220.2 | 198.2 | 0  | 221.7 | 99.3%                  | 89.4% | ND | 100.0% | LTS                     | LTS | ND | No  |
| 1979       | elow Norm  | 221.7                              | 221.7 | 198.2 | 0  | 220.7 | 100.0%                 | 89.4% | ND | 99.5%  | No                      | LTS | ND | LTS |
| 1980       | bove Norm  | 221.7                              | 222.8 | 209.4 | 0  | 221.7 | >100%                  | 94.5% | ND | 100.0% | No                      | LTS | ND | No  |
| 1981       | Dry        | 221.7                              | 222.6 | 204.6 | 0  | 221.7 | >100%                  | 92.3% | ND | 100.0% | No                      | LTS | ND | No  |
| 1982       | Wet        | 221.7                              | 221.7 | 203.7 | 0  | 221.7 | 100.0%                 | 91.9% | ND | 100.0% | No                      | LTS | ND | No  |
| 1983       | Wet        | 231.6                              | 231.6 | 219.6 | 0  | 231.6 | 100.0%                 | 94.8% | ND | 100.0% | No                      | LTS | ND | No  |
| 1984       | Wet        | 221.7                              | 221.7 | 203.7 | 0  | 221.7 | 100.0%                 | 91.9% | ND | 100.0% | No                      | LTS | ND | No  |
| 1985       | Dry        | 221.7                              | 221.7 | 203.7 | 0  | 221.7 | 100.0%                 | 91.9% | ND | 100.0% | No                      | LTS | ND | No  |
| 1986       | Wet        | 221.7                              | 221.7 | 203.7 | 0  | 221.7 | 100.0%                 | 91.9% | ND | 100.0% | No                      | LTS | ND | No  |
| 1987       | Dry        | 218.6                              | 224.6 | 203.5 | 0  | 221.7 | >100%                  | 93.1% | ND | >100%  | No                      | LTS | ND | No  |
| 1988       | Critical   | 211.8                              | 221.6 | 197.6 | 0  | 217.3 | >100%                  | 93.3% | ND | >100%  | No                      | LTS | ND | No  |
| 1989       | Dry        | 211.8                              | 213.9 | 190.1 | 0  | 216.8 | >100%                  | 89.8% | ND | >100%  | No                      | LTS | ND | No  |
| 1990       | Critical   | 221.7                              | 222.4 | 210.4 | 0  | 221.7 | >100%                  | 94.9% | ND | 100.0% | No                      | LTS | ND | No  |
| 1991       | Critical   | 221.7                              | 224.1 | 207.6 | 0  | 221.7 | >100%                  | 93.6% | ND | 100.0% | No                      | LTS | ND | No  |
| 1992       | Critical   | 211.8                              | 217.5 | 195.6 | 0  | 211.8 | >100%                  | 92.4% | ND | 100.0% | No                      | LTS | ND | No  |
| 1993       | bove Norm  | 221.7                              | 221.7 | 206.6 | 0  | 221.7 | 100.0%                 | 93.2% | ND | 100.0% | No                      | LTS | ND | No  |
| 1994       | Critical   | 221.7                              | 221.7 | 203.6 | 0  | 221.7 | 100.0%                 | 91.8% | ND | 100.0% | No                      | LTS | ND | No  |
| 1995       | Wet        | 227.7                              | 228.3 | 215.7 | 0  | 224.6 | >100%                  | 94.7% | ND | 98.6%  | No                      | LTS | ND | LTS |
| 1996       | Wet        | 223.3                              | 224.8 | 211.3 | 0  | 222.2 | >100%                  | 94.6% | ND | 99.5%  | No                      | LTS | ND | LTS |
| 1997       | Wet        | 221.9                              | 224.2 | 206.2 | 0  | 221.7 | >100%                  | 92.9% | ND | 99.9%  | No                      | LTS | ND | LTS |
| 1998       | Wet        | 221.7                              | 221.7 | 207.5 | 0  | 221.7 | 100.0%                 | 93.6% | ND | 100.0% | No                      | LTS | ND | No  |

Footnote:

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Shasta: Appendix Table-16 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: Shasta: Lake Britton  
 Location: Node 730  
 Watershed: Sacramento

| Water Year | Water Year Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|-----------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |                 | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |                 | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet             | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |
| 1976       | Critical        | 0                                                        | 0    | 9   | 0    | 14  | 0    | ND  | ND   | 9   | 0    |
| 1977       | Critical        | 9                                                        | 0    | 9   | 0    | 14  | 0    | ND  | ND   | 9   | 0    |
| 1978       | bove Norm       | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |
| 1979       | elow Norm       | 0                                                        | 0    | 9   | 0    | 14  | 0    | ND  | ND   | 9   | 0    |
| 1980       | bove Norm       | 0                                                        | 0    | 9   | 0    | 10  | 0    | ND  | ND   | 9   | 0    |
| 1981       | Dry             | 0                                                        | 0    | 4   | 0    | 4   | 0    | ND  | ND   | 0   | 0    |
| 1982       | Wet             | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |
| 1983       | Wet             | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |
| 1984       | Wet             | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 1   | 0    |
| 1985       | Dry             | 0                                                        | 0    | 9   | 0    | 13  | 0    | ND  | ND   | 9   | 0    |
| 1986       | Wet             | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |
| 1987       | Dry             | 0                                                        | 0    | 9   | 0    | 14  | 0    | ND  | ND   | 9   | 0    |
| 1988       | Critical        | 0                                                        | 0    | 9   | 0    | 14  | 0    | ND  | ND   | 9   | 0    |
| 1989       | Dry             | 0                                                        | 0    | 2   | 0    | 2   | 0    | ND  | ND   | 5   | 0    |
| 1990       | Critical        | 0                                                        | 0    | 9   | 0    | 14  | 0    | ND  | ND   | 9   | 0    |
| 1991       | Critical        | 0                                                        | 0    | 9   | 0    | 14  | 0    | ND  | ND   | 9   | 0    |
| 1992       | Critical        | 0                                                        | 0    | 9   | 0    | 14  | 0    | ND  | ND   | 9   | 0    |
| 1993       | bove Norm       | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |
| 1994       | Critical        | 0                                                        | 0    | 9   | 0    | 14  | 0    | ND  | ND   | 9   | 0    |
| 1995       | Wet             | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |
| 1996       | Wet             | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |
| 1997       | Wet             | 0                                                        | 0    | 5   | 0    | 9   | 0    | ND  | ND   | 3   | 0    |
| 1998       | Wet             | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |

Footnote:

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

Shasta : Appendix Table-17 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: Lake McCloud  
 Location: Node 780  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) <sup>A</sup> |       |       |    | Percentage of Baseline |        |       |    | Significance Evaluation |     |     |    |     |
|------------|-----------------|-----------------------------------------------|-------|-------|----|------------------------|--------|-------|----|-------------------------|-----|-----|----|-----|
|            |                 | Thousands of Acre-feet                        |       |       |    | NP                     | PM     | WM    | ST | NP                      | PM  | WM  | ST |     |
|            |                 | BL2000                                        | NP    | PM    | WM | ST                     |        |       |    |                         |     |     |    |     |
| 1975       | Wet             | 174.9                                         | 174.1 | 151.2 | 0  | 174.1                  | 99.5%  | 86.4% | ND | 99.5%                   | LTS | LTS | ND | LTS |
| 1976       | Critical        | 169.9                                         | 167.9 | 149.7 | 0  | 169.9                  | 98.8%  | 88.1% | ND | 100.0%                  | LTS | LTS | ND | No  |
| 1977       | Critical        | 141.2                                         | 140.4 | 139.6 | 0  | 141.6                  | 99.4%  | 98.9% | ND | 0.0%                    | LTS | LTS | ND | SIG |
| 1978       | bove Norm       | 167.7                                         | 155.9 | 152.7 | 0  | 155.8                  | 93.0%  | 91.1% | ND | 92.9%                   | LTS | LTS | ND | LTS |
| 1979       | elow Norm       | 150.7                                         | 150.7 | 141.7 | 0  | 149.3                  | 100.0% | 94.0% | ND | 99.1%                   | No  | LTS | ND | LTS |
| 1980       | bove Norm       | 166.6                                         | 162   | 157   | 0  | 155                    | 97.2%  | 94.2% | ND | 93.0%                   | LTS | LTS | ND | LTS |
| 1981       | Dry             | 162.9                                         | 162   | 158   | 0  | 160.2                  | 99.4%  | 97.0% | ND | 98.3%                   | LTS | LTS | ND | LTS |
| 1982       | Wet             | 178.2                                         | 175   | 160.8 | 0  | 175                    | 98.2%  | 90.2% | ND | 98.2%                   | LTS | LTS | ND | LTS |
| 1983       | Wet             | 193.2                                         | 193.2 | 173.4 | 0  | 193.2                  | 100.0% | 89.8% | ND | 100.0%                  | No  | LTS | ND | No  |
| 1984       | Wet             | 178.6                                         | 168.3 | 159.5 | 0  | 176.2                  | 94.2%  | 89.3% | ND | 98.7%                   | LTS | LTS | ND | LTS |
| 1985       | Dry             | 164.3                                         | 155.8 | 153.9 | 0  | 162.9                  | 94.8%  | 93.7% | ND | 99.1%                   | LTS | LTS | ND | LTS |
| 1986       | Wet             | 171.3                                         | 161.5 | 155.3 | 0  | 167.2                  | 94.3%  | 90.7% | ND | 97.6%                   | LTS | LTS | ND | LTS |
| 1987       | Dry             | 153.7                                         | 152.5 | 151.1 | 0  | 152                    | 99.2%  | 98.3% | ND | 98.9%                   | LTS | LTS | ND | LTS |
| 1988       | Critical        | 144.4                                         | 148.9 | 141.5 | 0  | 148.9                  | 0.0%   | 98.0% | ND | 0.0%                    | SIG | LTS | ND | SIG |
| 1989       | Dry             | 146.3                                         | 151.6 | 142.7 | 0  | 153                    | 0.0%   | 97.5% | ND | 0.0%                    | SIG | LTS | ND | SIG |
| 1990       | Critical        | 160.1                                         | 154.9 | 158.6 | 0  | 157.6                  | 96.8%  | 99.1% | ND | 98.4%                   | LTS | LTS | ND | LTS |
| 1991       | Critical        | 157.9                                         | 158.8 | 152   | 0  | 157.9                  | 0.0%   | 96.3% | ND | 100.0%                  | SIG | LTS | ND | No  |
| 1992       | Critical        | 141.4                                         | 143.8 | 137.7 | 0  | 140.5                  | 0.0%   | 97.4% | ND | 99.4%                   | SIG | LTS | ND | LTS |
| 1993       | bove Norm       | 168                                           | 158.9 | 150.4 | 0  | 165.8                  | 94.6%  | 89.5% | ND | 98.7%                   | LTS | LTS | ND | LTS |
| 1994       | Critical        | 154.8                                         | 153   | 141   | 0  | 154.8                  | 98.8%  | 91.1% | ND | 100.0%                  | LTS | LTS | ND | No  |
| 1995       | Wet             | 173.5                                         | 173.5 | 165.5 | 0  | 173.5                  | 100.0% | 95.4% | ND | 100.0%                  | No  | LTS | ND | No  |
| 1996       | Wet             | 174.8                                         | 167.3 | 164.5 | 0  | 170.3                  | 95.7%  | 94.1% | ND | 97.4%                   | LTS | LTS | ND | LTS |
| 1997       | Wet             | 172                                           | 158.8 | 156.1 | 0  | 168.7                  | 92.3%  | 90.8% | ND | 98.1%                   | LTS | LTS | ND | LTS |
| 1998       | Wet             | 193.7                                         | 193.7 | 173.4 | 0  | 193.7                  | 100.0% | 89.5% | ND | 100.0%                  | No  | LTS | ND | No  |

**Footnote:**

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Shasta : Appendix Table-18 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: Lake McCloud  
 Location: Node 780  
 Watershed: Sacramento

| Water Year | Water Year Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|-----------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |                 | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |                 | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet             | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |
| 1976       | Critical        | 26                                                       | 7    | 31  | 7    | 23  | 0    | ND  | ND   | 32  | 7    |
| 1977       | Critical        | 28                                                       | 6    | 37  | 0    | 28  | 15   | ND  | ND   | 37  | 0    |
| 1978       | bove Norm       | 0                                                        | -1   | 0   | -1   | -8  | 5    | ND  | ND   | 0   | -1   |
| 1979       | elow Norm       | 26                                                       | 2    | 26  | 2    | 11  | 15   | ND  | ND   | 29  | 4    |
| 1980       | bove Norm       | 5                                                        | 0    | 5   | 0    | -5  | 15   | ND  | ND   | 11  | 0    |
| 1981       | Dry             | 0                                                        | -1   | 6   | 7    | 0   | 15   | ND  | ND   | 10  | 7    |
| 1982       | Wet             | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |
| 1983       | Wet             | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |
| 1984       | Wet             | 0                                                        | 0    | 0   | 0    | -7  | 7    | ND  | ND   | 0   | 0    |
| 1985       | Dry             | 19                                                       | 7    | 13  | 7    | 12  | 15   | ND  | ND   | 1   | 7    |
| 1986       | Wet             | 0                                                        | 0    | 4   | 0    | -3  | 15   | ND  | ND   | 6   | 0    |
| 1987       | Dry             | 0                                                        | -2   | 7   | 7    | 0   | 15   | ND  | ND   | 1   | 7    |
| 1988       | Critical        | 21                                                       | 7    | 37  | 7    | 28  | 15   | ND  | ND   | 37  | 7    |
| 1989       | Dry             | -5                                                       | 5    | -5  | 5    | -13 | 15   | ND  | ND   | 2   | 1    |
| 1990       | Critical        | 16                                                       | 7    | 37  | 7    | 28  | 15   | ND  | ND   | 37  | 7    |
| 1991       | Critical        | -2                                                       | 7    | 37  | 7    | 28  | 15   | ND  | ND   | 37  | 7    |
| 1992       | Critical        | 0                                                        | 7    | 32  | 7    | 23  | 15   | ND  | ND   | 36  | 7    |
| 1993       | bove Norm       | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |
| 1994       | Critical        | 5                                                        | 7    | 37  | 7    | 28  | 15   | ND  | ND   | 37  | 7    |
| 1995       | Wet             | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |
| 1996       | Wet             | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |
| 1997       | Wet             | 9                                                        | -6   | 10  | -6   | 0   | 15   | ND  | ND   | 13  | -6   |
| 1998       | Wet             | 0                                                        | 0    | 0   | 0    | 0   | 0    | ND  | ND   | 0   | 0    |

**Footnote:**

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

Shasta: Appendix Table-19 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: Shasta: Pit 6 Reservoir  
 Location: Node 760  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Type | Cumulative Storage (May-October) A |      |      |    |      | Percentage of Baseline |       |    |        | Significance Evaluation |     |    |     |
|------------|------------|------------------------------------|------|------|----|------|------------------------|-------|----|--------|-------------------------|-----|----|-----|
|            |            | BL2000                             | NP   | PM   | WM | ST   | NP                     | PM    | WM | ST     | NP                      | PM  | WM | ST  |
| 1975       | Wet        | 83.3                               | 83.3 | 71.2 | 0  | 83.3 | 100.0%                 | 85.5% | ND | 100.0% | No                      | LTS | ND | No  |
| 1976       | Critical   | 83.3                               | 83.3 | 72.8 | 0  | 83.3 | 100.0%                 | 87.4% | ND | 100.0% | No                      | LTS | ND | No  |
| 1977       | Critical   | 79.4                               | 79.4 | 68.1 | 0  | 79.4 | 100.0%                 | 85.8% | ND | 100.0% | No                      | LTS | ND | No  |
| 1978       | bove Norm  | 83.3                               | 83.3 | 74.9 | 0  | 82.9 | 100.0%                 | 89.9% | ND | 99.5%  | No                      | LTS | ND | LTS |
| 1979       | elow Norm  | 83.2                               | 82.9 | 70.2 | 0  | 82.9 | 99.6%                  | 84.4% | ND | 99.6%  | LTS                     | LTS | ND | LTS |
| 1980       | bove Norm  | 83.3                               | 85.7 | 70.2 | 0  | 83.3 | >100%                  | 84.3% | ND | 100.0% | No                      | LTS | ND | No  |
| 1981       | Dry        | 83.3                               | 86.8 | 78.6 | 0  | 83.3 | >100%                  | 94.4% | ND | 100.0% | No                      | LTS | ND | No  |
| 1982       | Wet        | 83.3                               | 86.8 | 78.6 | 0  | 83.3 | >100%                  | 94.4% | ND | 100.0% | No                      | LTS | ND | No  |
| 1983       | Wet        | 86.8                               | 87.2 | 78.6 | 0  | 86.8 | >100%                  | 90.6% | ND | 100.0% | No                      | LTS | ND | No  |
| 1984       | Wet        | 83.3                               | 83.3 | 75.5 | 0  | 83.3 | 100.0%                 | 90.6% | ND | 100.0% | No                      | LTS | ND | No  |
| 1985       | Dry        | 83.3                               | 83.3 | 77   | 0  | 82.9 | 100.0%                 | 92.4% | ND | 99.5%  | No                      | LTS | ND | LTS |
| 1986       | Wet        | 83.3                               | 83.3 | 78.6 | 0  | 83.3 | 100.0%                 | 94.4% | ND | 100.0% | No                      | LTS | ND | No  |
| 1987       | Dry        | 79.4                               | 83.3 | 70.2 | 0  | 83.3 | >100%                  | 88.4% | ND | >100%  | No                      | LTS | ND | No  |
| 1988       | Critical   | 79.4                               | 82.9 | 70.2 | 0  | 79.4 | >100%                  | 88.4% | ND | 100.0% | No                      | LTS | ND | No  |
| 1989       | Dry        | 79.4                               | 80.1 | 70.2 | 0  | 79.4 | >100%                  | 88.4% | ND | 100.0% | No                      | LTS | ND | No  |
| 1990       | Critical   | 83.3                               | 83.3 | 72.5 | 0  | 83.3 | 100.0%                 | 87.0% | ND | 100.0% | No                      | LTS | ND | No  |
| 1991       | Critical   | 83.3                               | 83.3 | 75.7 | 0  | 83.3 | 100.0%                 | 90.9% | ND | 100.0% | No                      | LTS | ND | No  |
| 1992       | Critical   | 79.4                               | 79.4 | 61.8 | 0  | 79.4 | 100.0%                 | 77.8% | ND | 100.0% | No                      | SIG | ND | No  |
| 1993       | bove Norm  | 83.3                               | 83.3 | 70.2 | 0  | 83.3 | 100.0%                 | 84.3% | ND | 100.0% | No                      | LTS | ND | No  |
| 1994       | Critical   | 83.3                               | 83.3 | 70.2 | 0  | 83.3 | 100.0%                 | 84.3% | ND | 100.0% | No                      | LTS | ND | No  |
| 1995       | Wet        | 83.3                               | 83.3 | 70.2 | 0  | 83.3 | 100.0%                 | 84.3% | ND | 100.0% | No                      | LTS | ND | No  |
| 1996       | Wet        | 83.3                               | 83.3 | 70.2 | 0  | 83.3 | 100.0%                 | 84.3% | ND | 100.0% | No                      | LTS | ND | No  |
| 1997       | Wet        | 83.3                               | 83.3 | 70.2 | 0  | 83.3 | 100.0%                 | 84.3% | ND | 100.0% | No                      | LTS | ND | No  |
| 1998       | Wet        | 83.3                               | 87.2 | 78.6 | 0  | 87.2 | >100%                  | 94.4% | ND | >100%  | No                      | LTS | ND | No  |

Footnote:

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Shasta: Appendix Table-20 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: Shasta: Pit 6 Reservoir  
 Location: Node 760  
 Watershed: Sacramento

| Water Year | Water Year Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|-----------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |                 | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |                 | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1976       | Critical        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1977       | Critical        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1978       | bove Norm       | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1979       | elow Norm       | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1980       | bove Norm       | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1981       | Dry             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1982       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1983       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1984       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1985       | Dry             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1986       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1987       | Dry             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1988       | Critical        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1989       | Dry             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1990       | Critical        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1991       | Critical        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1992       | Critical        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1993       | bove Norm       | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1994       | Critical        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1995       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1996       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1997       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1998       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |

**Footnote:**

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

Shasta: Appendix Table-21 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: Shasta: Pit 7 Reservoir  
 Location: Node 770  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Type | Cumulative Storage (May-October) A |       |       |    |       | Percentage of Baseline |       |    |        | Significance Evaluation |     |    |     |
|------------|------------|------------------------------------|-------|-------|----|-------|------------------------|-------|----|--------|-------------------------|-----|----|-----|
|            |            | BL2000                             | NP    | PM    | WM | ST    | NP                     | PM    | WM | ST     | NP                      | PM  | WM | ST  |
| 1975       | Wet        | 193.2                              | 193.2 | 157.2 | 0  | 193.2 | 100.0%                 | 81.4% | ND | 100.0% | No                      | LTS | ND | No  |
| 1976       | Critical   | 193.2                              | 193.2 | 156.6 | 0  | 193.2 | 100.0%                 | 81.1% | ND | 100.0% | No                      | LTS | ND | No  |
| 1977       | Critical   | 188.6                              | 188.6 | 148.9 | 0  | 188.6 | 100.0%                 | 79.0% | ND | 100.0% | No                      | SIG | ND | No  |
| 1978       | bove Norm  | 193.2                              | 197.2 | 173.2 | 0  | 192.4 | >100%                  | 89.6% | ND | 99.6%  | No                      | LTS | ND | LTS |
| 1979       | elow Norm  | 192.6                              | 188.6 | 145.3 | 0  | 192.6 | 97.9%                  | 75.4% | ND | 100.0% | LTS                     | SIG | ND | No  |
| 1980       | bove Norm  | 193.2                              | 192.6 | 160.9 | 0  | 188.6 | 99.7%                  | 83.3% | ND | 97.6%  | LTS                     | LTS | ND | LTS |
| 1981       | Dry        | 193.2                              | 193.2 | 163.6 | 0  | 193.2 | 100.0%                 | 84.7% | ND | 100.0% | No                      | LTS | ND | No  |
| 1982       | Wet        | 193.2                              | 197.2 | 173.2 | 0  | 193.2 | >100%                  | 89.6% | ND | 100.0% | No                      | LTS | ND | No  |
| 1983       | Wet        | 193.2                              | 197.8 | 173.2 | 0  | 197.2 | >100%                  | 89.6% | ND | >100%  | No                      | LTS | ND | No  |
| 1984       | Wet        | 193.2                              | 193.2 | 157.2 | 0  | 193.2 | 100.0%                 | 81.4% | ND | 100.0% | No                      | LTS | ND | No  |
| 1985       | Dry        | 193.2                              | 193.2 | 157.2 | 0  | 193.2 | 100.0%                 | 81.4% | ND | 100.0% | No                      | LTS | ND | No  |
| 1986       | Wet        | 193.2                              | 193.2 | 157.2 | 0  | 193.2 | 100.0%                 | 81.4% | ND | 100.0% | No                      | LTS | ND | No  |
| 1987       | Dry        | 188.6                              | 197.2 | 169.7 | 0  | 193.2 | >100%                  | 90.0% | ND | >100%  | No                      | LTS | ND | No  |
| 1988       | Critical   | 188.6                              | 192.6 | 150.2 | 0  | 188.6 | >100%                  | 79.6% | ND | 100.0% | No                      | SIG | ND | No  |
| 1989       | Dry        | 188.6                              | 189.7 | 156.8 | 0  | 189.3 | >100%                  | 83.1% | ND | >100%  | No                      | LTS | ND | No  |
| 1990       | Critical   | 193.2                              | 193.2 | 157.2 | 0  | 193.2 | 100.0%                 | 81.4% | ND | 100.0% | No                      | LTS | ND | No  |
| 1991       | Critical   | 193.2                              | 193.2 | 157.2 | 0  | 193.2 | 100.0%                 | 81.4% | ND | 100.0% | No                      | LTS | ND | No  |
| 1992       | Critical   | 188.6                              | 188.6 | 140.6 | 0  | 188.6 | 100.0%                 | 74.5% | ND | 100.0% | No                      | SIG | ND | No  |
| 1993       | bove Norm  | 193.2                              | 197.2 | 173.2 | 0  | 192.6 | >100%                  | 89.6% | ND | 99.7%  | No                      | LTS | ND | LTS |
| 1994       | Critical   | 193.2                              | 193.2 | 156.7 | 0  | 193.2 | 100.0%                 | 81.1% | ND | 100.0% | No                      | LTS | ND | No  |
| 1995       | Wet        | 193.2                              | 193.2 | 157.2 | 0  | 193.2 | 100.0%                 | 81.4% | ND | 100.0% | No                      | LTS | ND | No  |
| 1996       | Wet        | 193.2                              | 193.2 | 157.2 | 0  | 193.3 | 100.0%                 | 81.4% | ND | >100%  | No                      | LTS | ND | No  |
| 1997       | Wet        | 193.2                              | 197.2 | 162.7 | 0  | 193.2 | >100%                  | 84.2% | ND | 100.0% | No                      | LTS | ND | No  |
| 1998       | Wet        | 193.2                              | 197.2 | 173.8 | 0  | 193.2 | >100%                  | 90.0% | ND | 100.0% | No                      | LTS | ND | No  |

Footnote:

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location



Shasta: Appendix Table-22 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: Shasta: Pit 7 Reservoir  
 Location: Node 770  
 Watershed: Sacramento

| Water Year | Water Year Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|-----------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |                 | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |                 | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1976       | Critical        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1977       | Critical        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1978       | bove Norm       | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1979       | elow Norm       | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1980       | bove Norm       | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1981       | Dry             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1982       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1983       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1984       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1985       | Dry             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1986       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1987       | Dry             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1988       | Critical        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1989       | Dry             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1990       | Critical        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1991       | Critical        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1992       | Critical        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1993       | bove Norm       | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1994       | Critical        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1995       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1996       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1997       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1998       | Wet             | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |

**Footnote:**

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

Shasta: Appendix Table-23 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: Shasta: Iron Canyon Reservoir  
 Location: Node 790  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Type | Cumulative Storage (May-October) A |      |      |    |      | Percentage of Baseline |       |    |        | Significance Evaluation |     |    |     |
|------------|------------|------------------------------------|------|------|----|------|------------------------|-------|----|--------|-------------------------|-----|----|-----|
|            |            | BL2000                             | NP   | PM   | WM | ST   | NP                     | PM    | WM | ST     | NP                      | PM  | WM | ST  |
| 1975       | Wet        | 61.3                               | 60.5 | 28.1 | 0  | 60.5 | 98.7%                  | 45.8% | ND | 98.7%  | LTS                     | SIG | ND | LTS |
| 1976       | Critical   | 88.8                               | 87   | 57   | 0  | 88.8 | 98.0%                  | 64.2% | ND | 100.0% | LTS                     | SIG | ND | No  |
| 1977       | Critical   | 77.7                               | 77.7 | 53.4 | 0  | 77.7 | 100.0%                 | 68.7% | ND | 100.0% | No                      | SIG | ND | No  |
| 1978       | bove Norm  | 74.7                               | 65.2 | 53.6 | 0  | 65.1 | 87.3%                  | 71.8% | ND | 87.1%  | LTS                     | SIG | ND | LTS |
| 1979       | elow Norm  | 80.9                               | 80.9 | 54.6 | 0  | 80.4 | 100.0%                 | 67.5% | ND | 99.4%  | No                      | SIG | ND | LTS |
| 1980       | bove Norm  | 84.7                               | 78.3 | 63.3 | 0  | 75.2 | 92.4%                  | 74.7% | ND | 88.8%  | LTS                     | SIG | ND | LTS |
| 1981       | Dry        | 91.9                               | 94.6 | 73.3 | 0  | 91.7 | >100%                  | 79.8% | ND | 99.8%  | No                      | SIG | ND | LTS |
| 1982       | Wet        | 74.7                               | 72.6 | 46.5 | 0  | 72.7 | 97.2%                  | 62.2% | ND | 97.3%  | LTS                     | SIG | ND | LTS |
| 1983       | Wet        | 60.5                               | 60.5 | 29.2 | 0  | 60.5 | 100.0%                 | 48.3% | ND | 100.0% | No                      | SIG | ND | No  |
| 1984       | Wet        | 70.3                               | 60.5 | 48.3 | 0  | 68   | 86.1%                  | 68.7% | ND | 96.7%  | LTS                     | SIG | ND | LTS |
| 1985       | Dry        | 88                                 | 80   | 63.1 | 0  | 86.8 | 90.9%                  | 71.7% | ND | 98.6%  | LTS                     | SIG | ND | LTS |
| 1986       | Wet        | 82.4                               | 73.7 | 60.1 | 0  | 79.1 | 89.4%                  | 72.9% | ND | 96.0%  | LTS                     | SIG | ND | LTS |
| 1987       | Dry        | 82.1                               | 83.2 | 55.2 | 0  | 82.6 | >100%                  | 67.2% | ND | >100%  | No                      | SIG | ND | No  |
| 1988       | Critical   | 77.5                               | 81.7 | 54.5 | 0  | 81.6 | >100%                  | 70.3% | ND | >100%  | No                      | SIG | ND | No  |
| 1989       | Dry        | 77.2                               | 82.2 | 55   | 0  | 81.7 | >100%                  | 71.2% | ND | >100%  | No                      | SIG | ND | No  |
| 1990       | Critical   | 88.6                               | 81.4 | 70.4 | 0  | 85.9 | 91.9%                  | 79.5% | ND | 97.0%  | LTS                     | SIG | ND | LTS |
| 1991       | Critical   | 91.9                               | 91.9 | 69.5 | 0  | 91.9 | 100.0%                 | 75.6% | ND | 100.0% | No                      | SIG | ND | No  |
| 1992       | Critical   | 79.2                               | 77.7 | 52.2 | 0  | 77.7 | 98.1%                  | 65.9% | ND | 98.1%  | LTS                     | SIG | ND | LTS |
| 1993       | bove Norm  | 74.7                               | 70.2 | 40.9 | 0  | 74.7 | 94.0%                  | 54.8% | ND | 100.0% | LTS                     | SIG | ND | No  |
| 1994       | Critical   | 89.9                               | 88.3 | 56.6 | 0  | 89.9 | 98.2%                  | 63.0% | ND | 100.0% | LTS                     | SIG | ND | No  |
| 1995       | Wet        | 70.9                               | 70.9 | 45.8 | 0  | 71   | 100.0%                 | 64.6% | ND | >100%  | No                      | SIG | ND | No  |
| 1996       | Wet        | 74.7                               | 70.5 | 50.3 | 0  | 73.4 | 94.4%                  | 67.3% | ND | 98.3%  | LTS                     | SIG | ND | LTS |
| 1997       | Wet        | 77.2                               | 66   | 53.4 | 0  | 76.1 | 85.5%                  | 69.2% | ND | 98.6%  | LTS                     | SIG | ND | LTS |
| 1998       | Wet        | 60.5                               | 60.5 | 27.9 | 0  | 60.5 | 100.0%                 | 46.1% | ND | 100.0% | No                      | SIG | ND | No  |

Footnote:

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

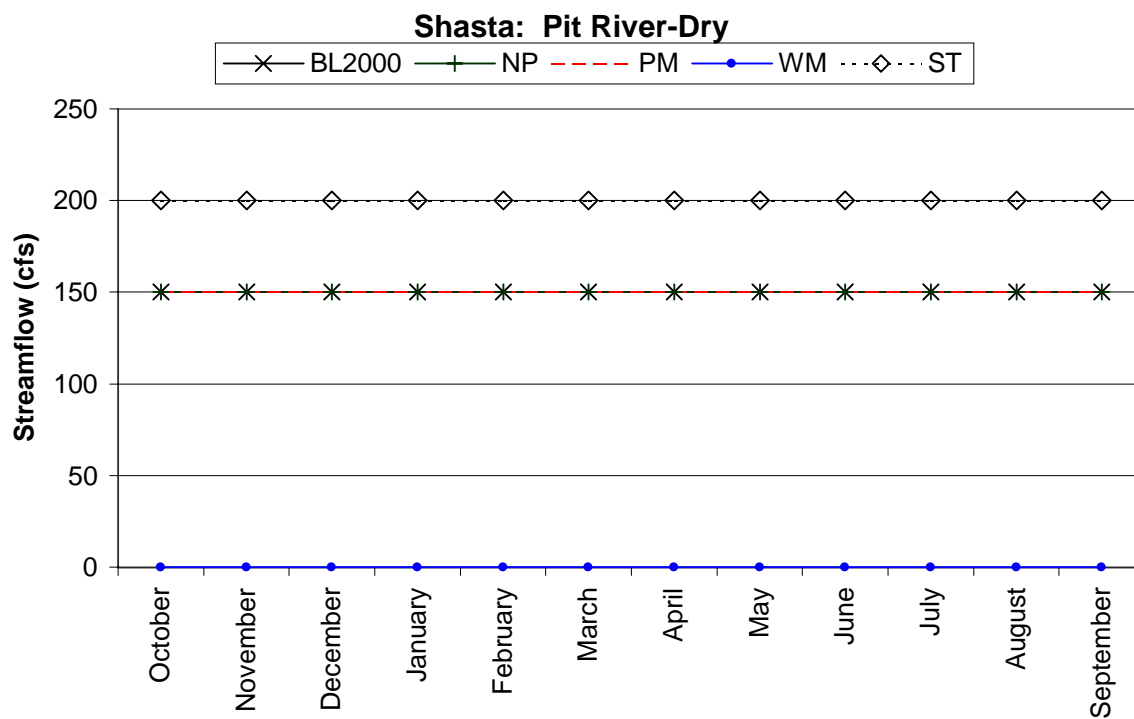
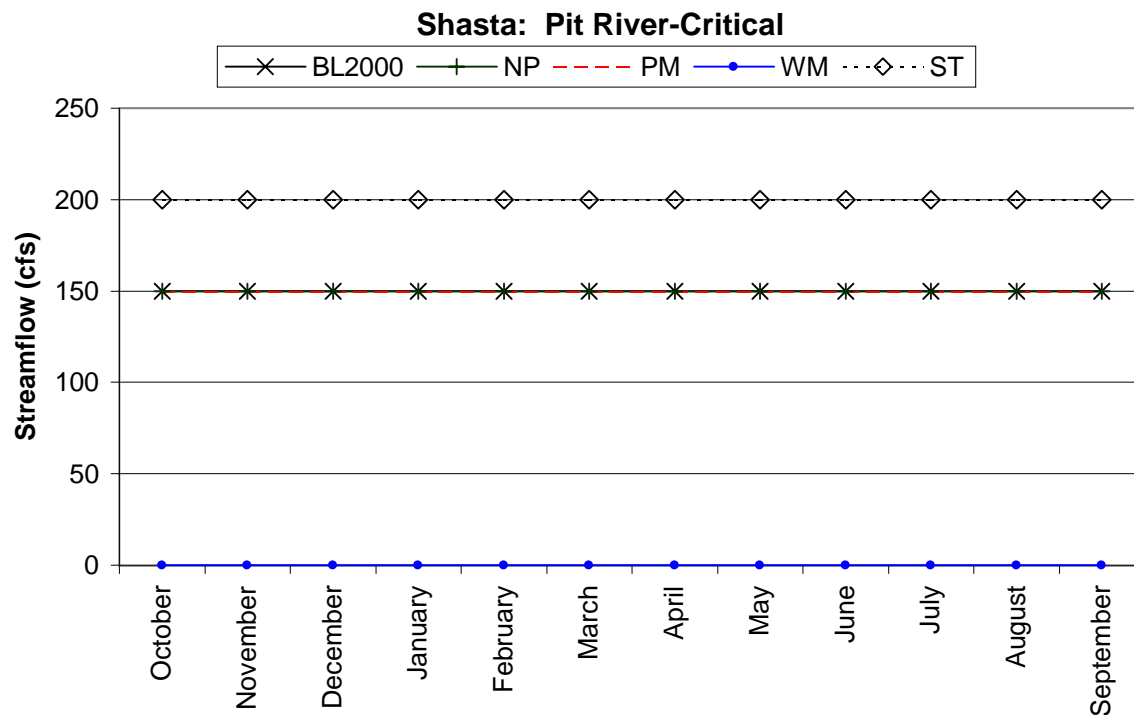
WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Shasta: Appendix Table-24 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

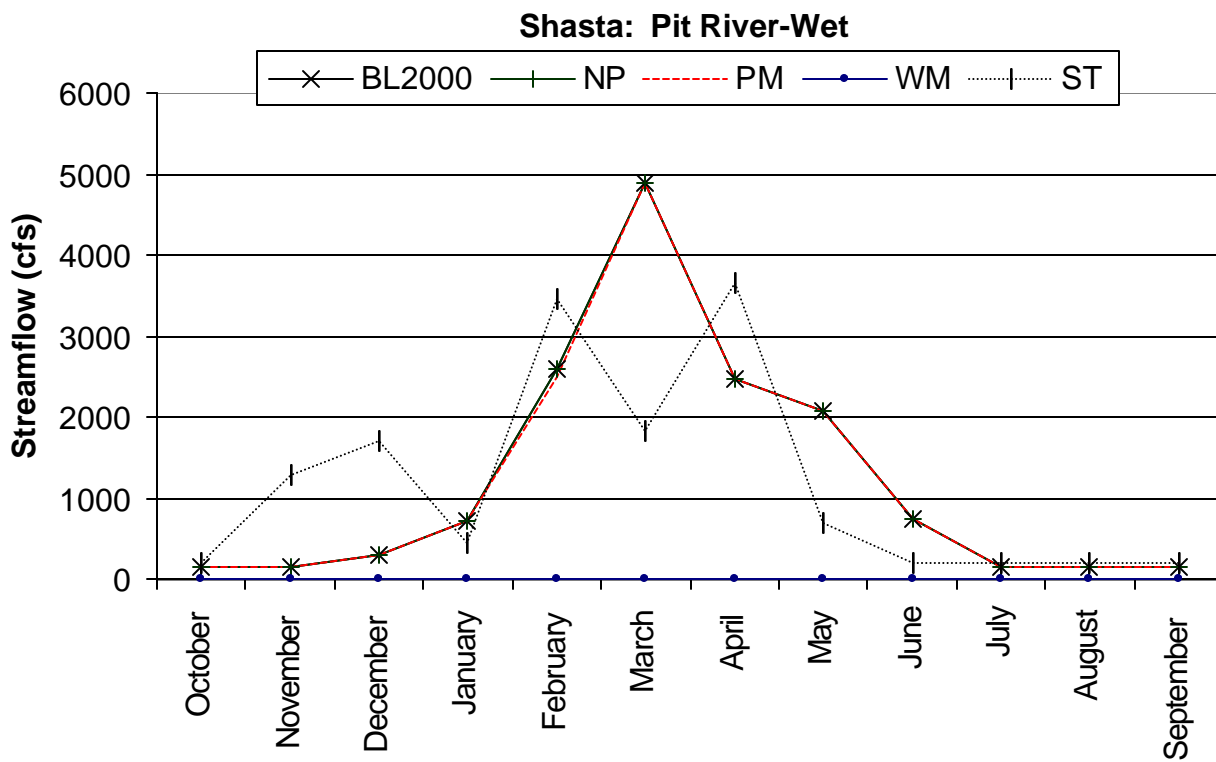
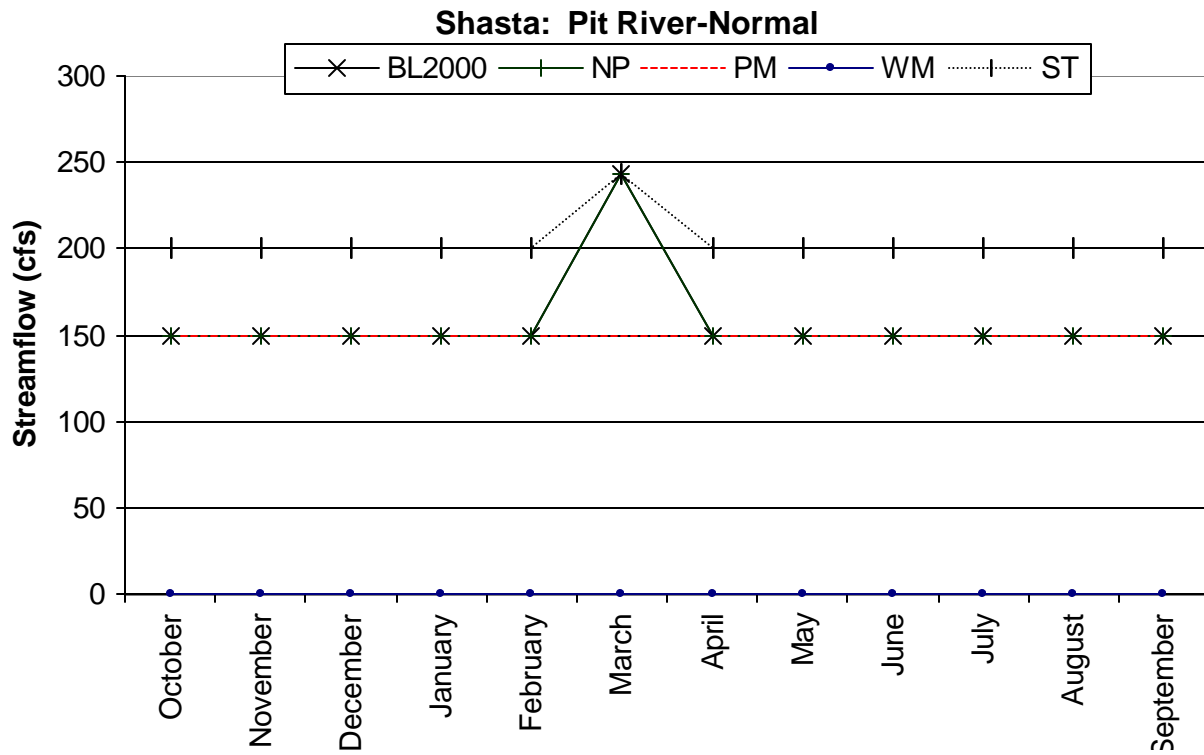
Site: Shasta: Iron Canyon Reservoir  
 Location: Node 790  
 Watershed: Sacramento

| Water Year | Water Type | BL2000 |      | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |  |  |
|------------|------------|--------|------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|--|--|
|            |            | May    | June | NP                                                       |      | PM  |      | WM  |      | ST  |      |  |  |
|            |            | May    | June | May                                                      | June | May | June | May | June | May | June |  |  |
| 1975       | Wet        | 55     | -39  | 55                                                       | -39  | 0   | 0    | ND  | ND   | 55  | -39  |  |  |
| 1976       | Critical   | 55     | 6    | 55                                                       | 6    | 0   | 64   | ND  | ND   | 55  | 6    |  |  |
| 1977       | Critical   | 27     | 9    | 55                                                       | 9    | 0   | 64   | ND  | ND   | 55  | 9    |  |  |
| 1978       | bove Norm  | 55     | -39  | 55                                                       | -39  | 0   | 64   | ND  | ND   | 55  | -39  |  |  |
| 1979       | elow Norm  | 55     | 7    | 55                                                       | 7    | -6  | 64   | ND  | ND   | 55  | 6    |  |  |
| 1980       | bove Norm  | 38     | -6   | 38                                                       | -6   | 0   | 64   | ND  | ND   | 40  | -6   |  |  |
| 1981       | Dry        | -7     | 9    | 55                                                       | 8    | -7  | 64   | ND  | ND   | 55  | 8    |  |  |
| 1982       | Wet        | 55     | -39  | 55                                                       | -39  | 0   | 45   | ND  | ND   | 55  | -39  |  |  |
| 1983       | Wet        | 55     | -39  | 55                                                       | -39  | 0   | 0    | ND  | ND   | 55  | -39  |  |  |
| 1984       | Wet        | 55     | -39  | 55                                                       | -39  | 0   | 64   | ND  | ND   | 55  | -39  |  |  |
| 1985       | Dry        | 48     | 1    | 32                                                       | 1    | 0   | 64   | ND  | ND   | 47  | 1    |  |  |
| 1986       | Wet        | 22     | -12  | 32                                                       | -12  | 0   | 64   | ND  | ND   | 32  | -12  |  |  |
| 1987       | Dry        | -9     | 9    | 55                                                       | 9    | -5  | 64   | ND  | ND   | 55  | 9    |  |  |
| 1988       | Critical   | 55     | 8    | 55                                                       | 8    | 0   | 64   | ND  | ND   | 55  | 8    |  |  |
| 1989       | Dry        | 29     | 8    | 29                                                       | 8    | -23 | 64   | ND  | ND   | 16  | 9    |  |  |
| 1990       | Critical   | 55     | 2    | 55                                                       | -4   | 0   | 64   | ND  | ND   | 55  | -4   |  |  |
| 1991       | Critical   | 29     | 9    | 55                                                       | 9    | 0   | 64   | ND  | ND   | 55  | 9    |  |  |
| 1992       | Critical   | 37     | 9    | 55                                                       | 9    | 0   | 64   | ND  | ND   | 55  | 9    |  |  |
| 1993       | bove Norm  | 55     | -39  | 55                                                       | -39  | 0   | 15   | ND  | ND   | 55  | -39  |  |  |
| 1994       | Critical   | 32     | 9    | 55                                                       | 9    | 0   | 64   | ND  | ND   | 55  | 9    |  |  |
| 1995       | Wet        | 55     | -39  | 55                                                       | -39  | 0   | 25   | ND  | ND   | 55  | -39  |  |  |
| 1996       | Wet        | 55     | -39  | 55                                                       | -39  | 0   | 64   | ND  | ND   | 55  | -39  |  |  |
| 1997       | Wet        | 19     | -28  | 24                                                       | -28  | -16 | 64   | ND  | ND   | 28  | -28  |  |  |
| 1998       | Wet        | 55     | -39  | 55                                                       | -39  | 0   | 0    | ND  | ND   | 55  | -39  |  |  |

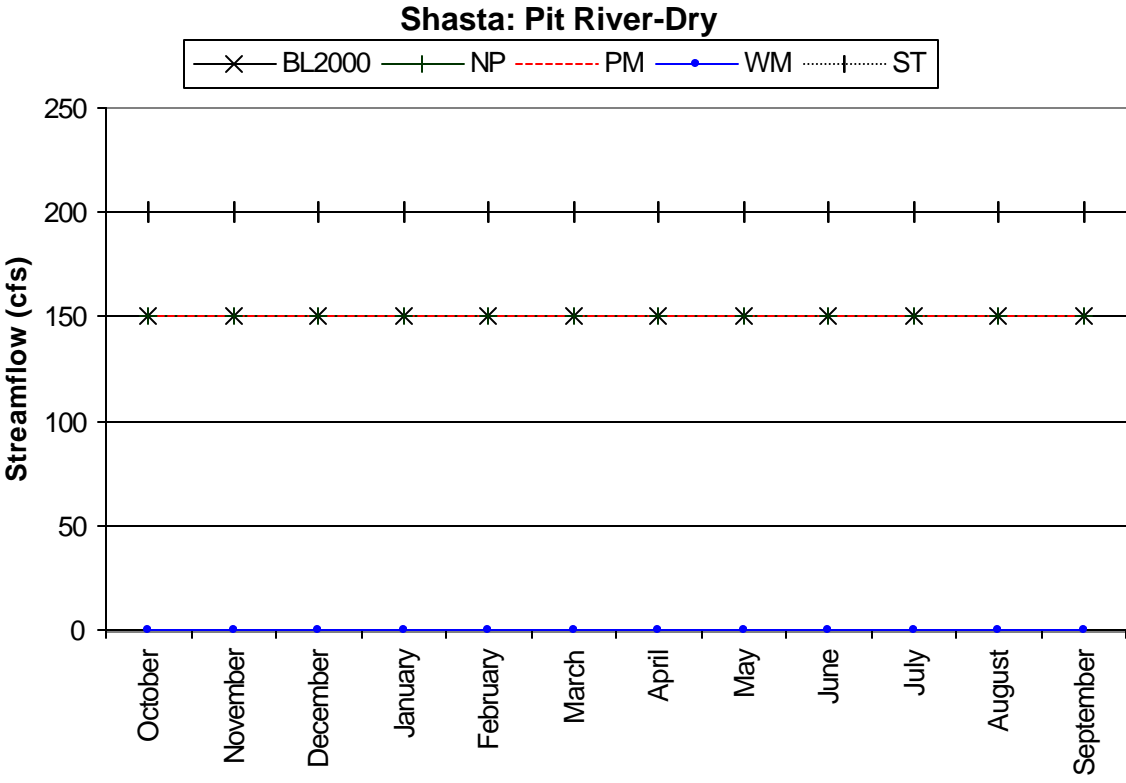
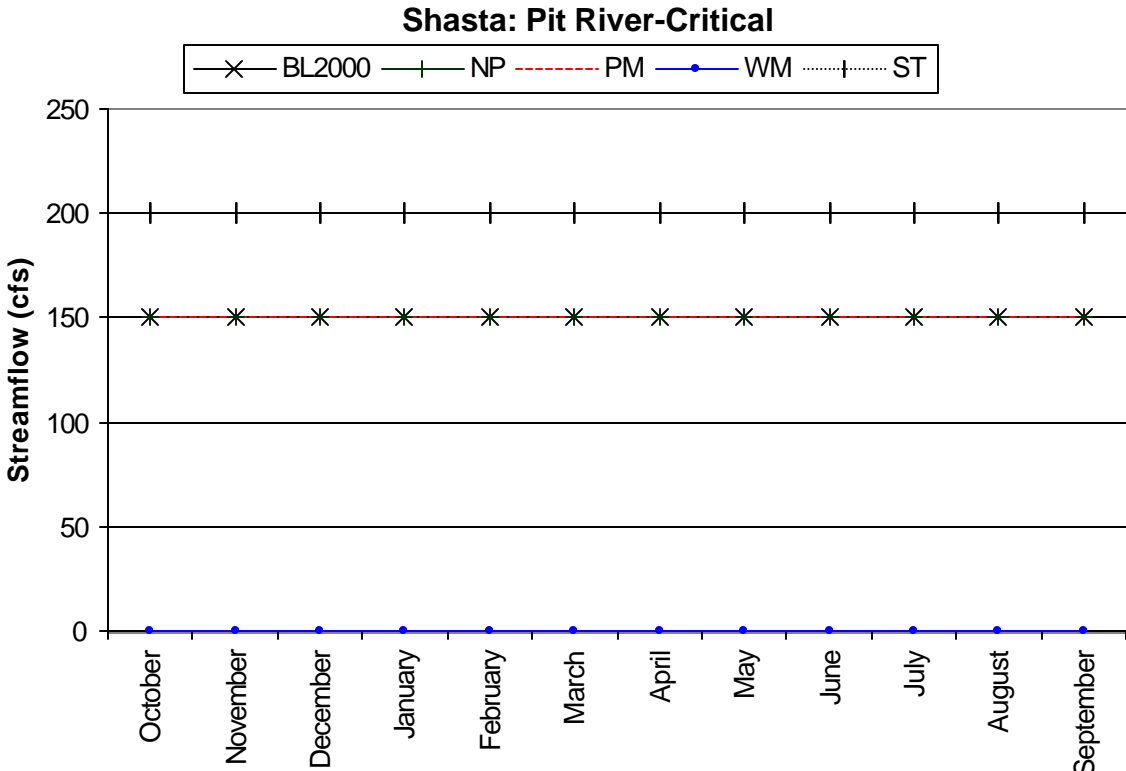
Footnote:  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data



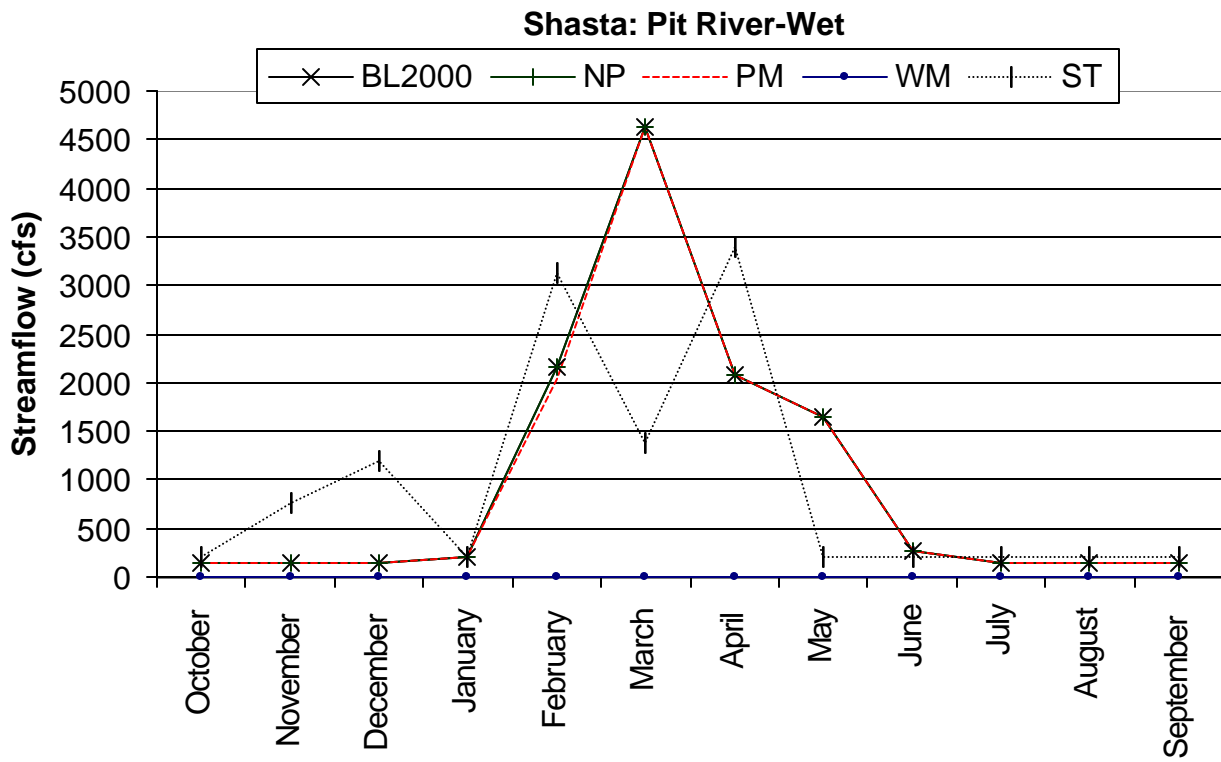
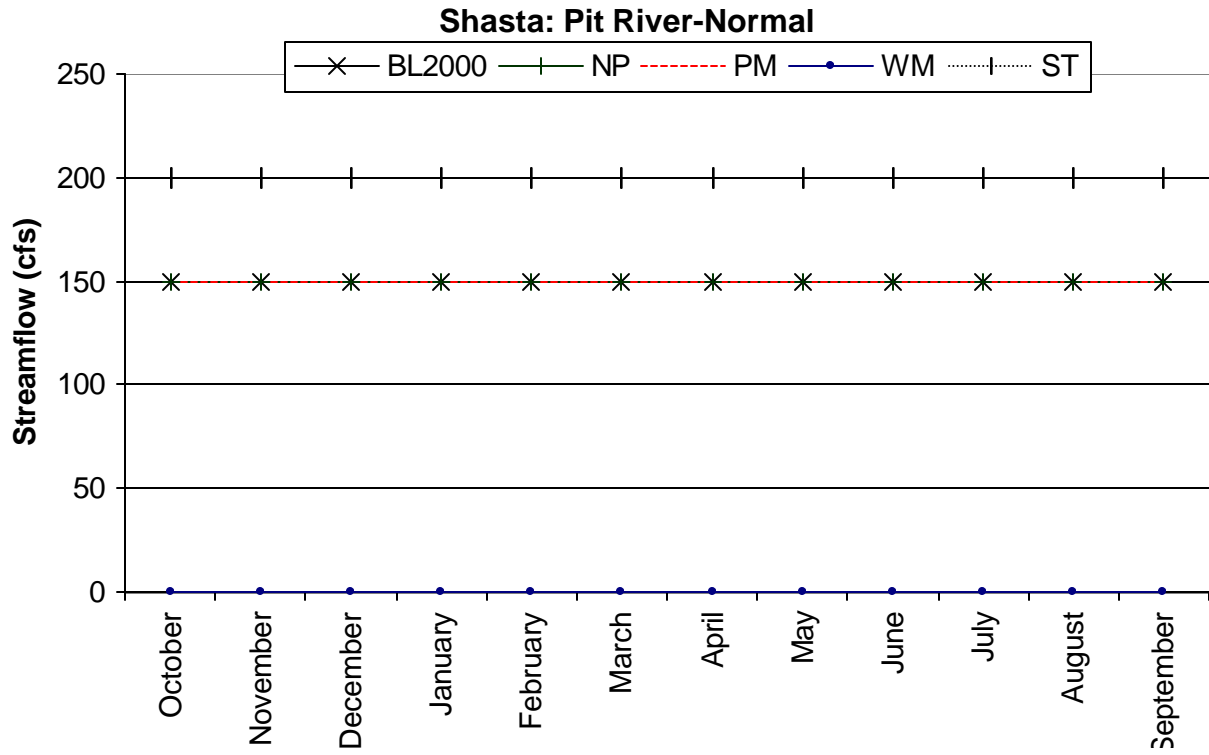
Shasta: Appendix Figure-1 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



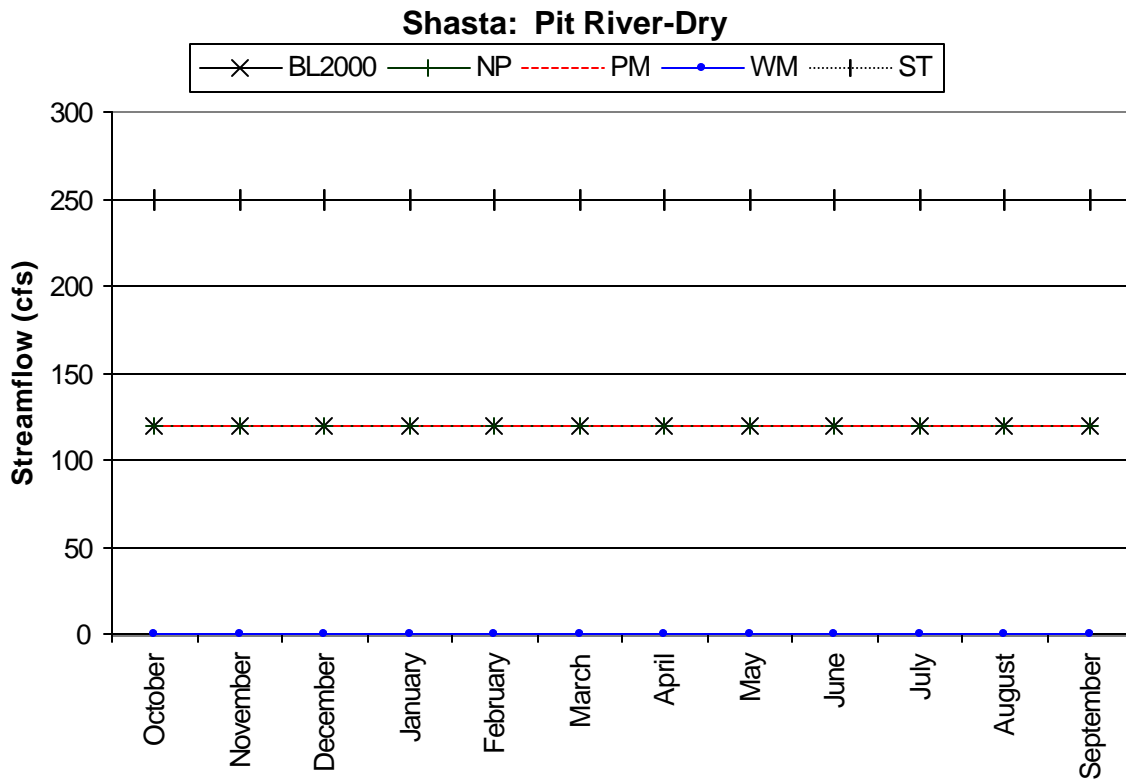
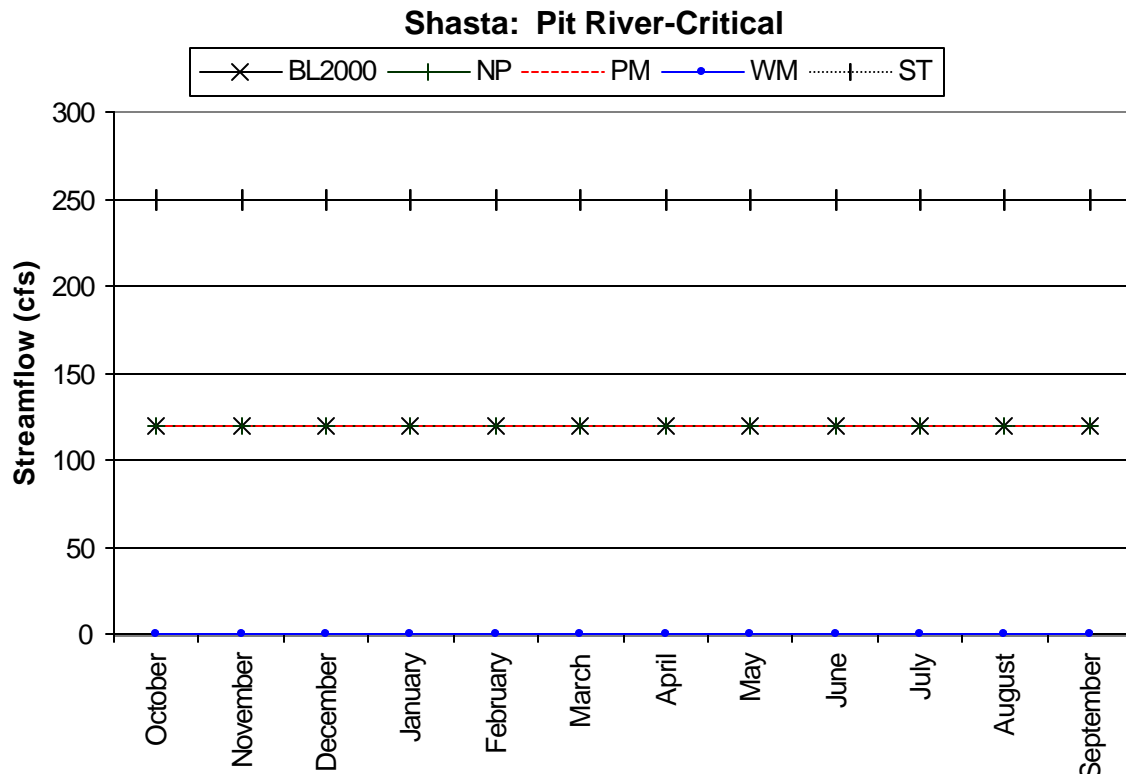
Shasta: Appendix Figure-2 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



Shasta: Appendix Figure-3 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

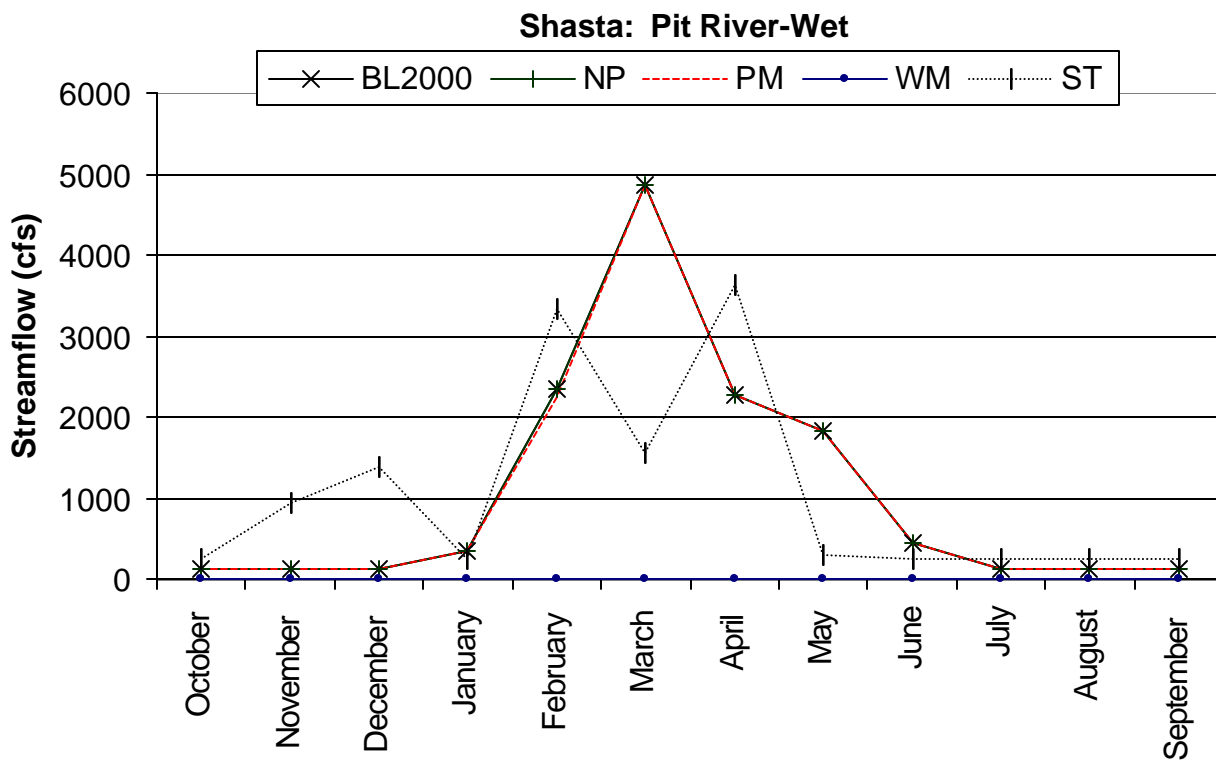
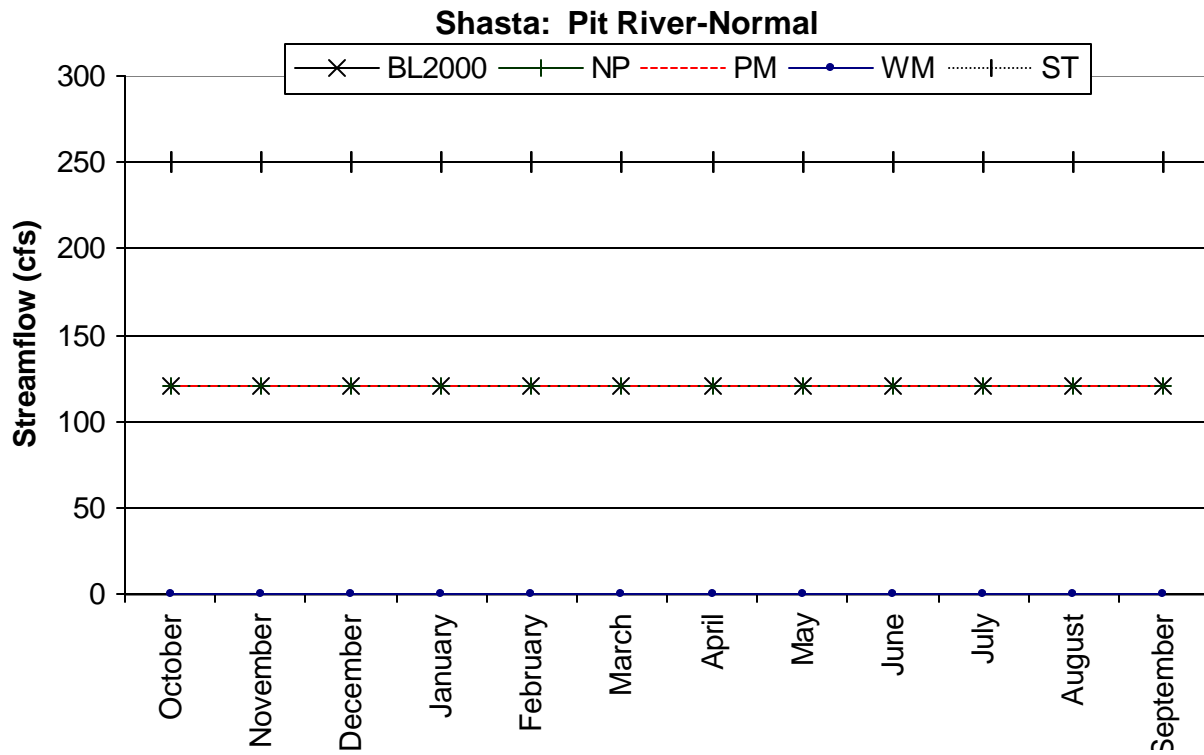


Shasta: Appendix Figure-4 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

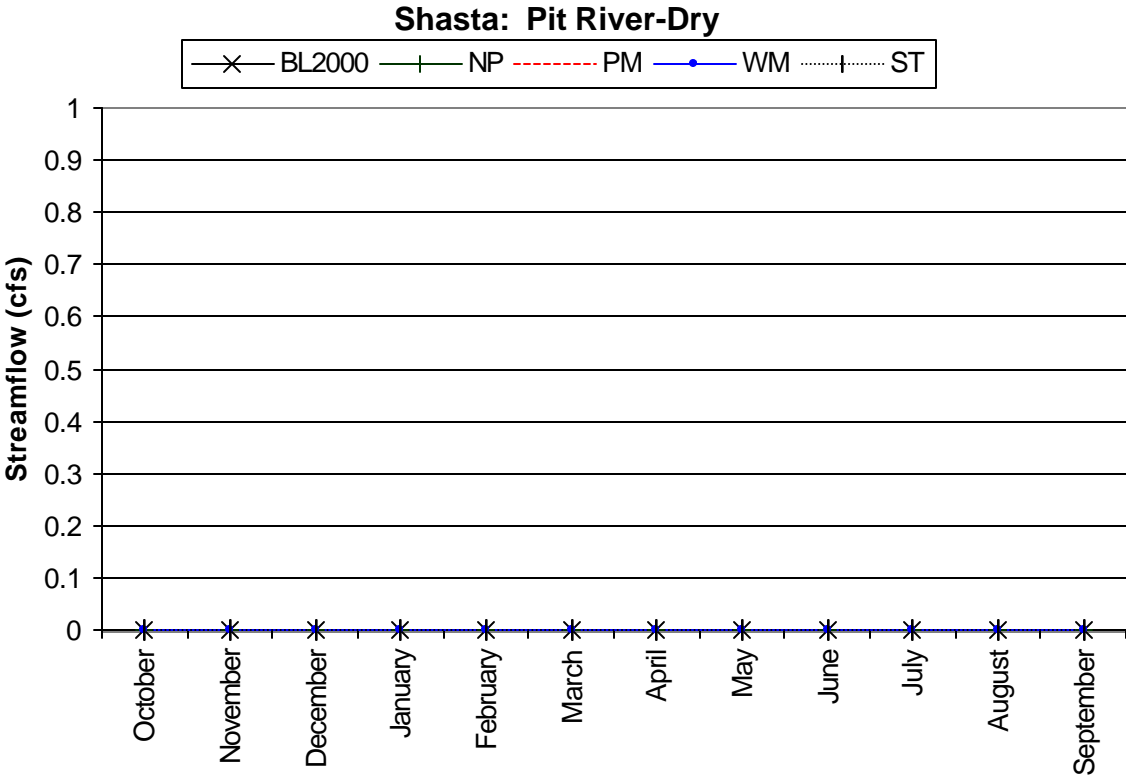
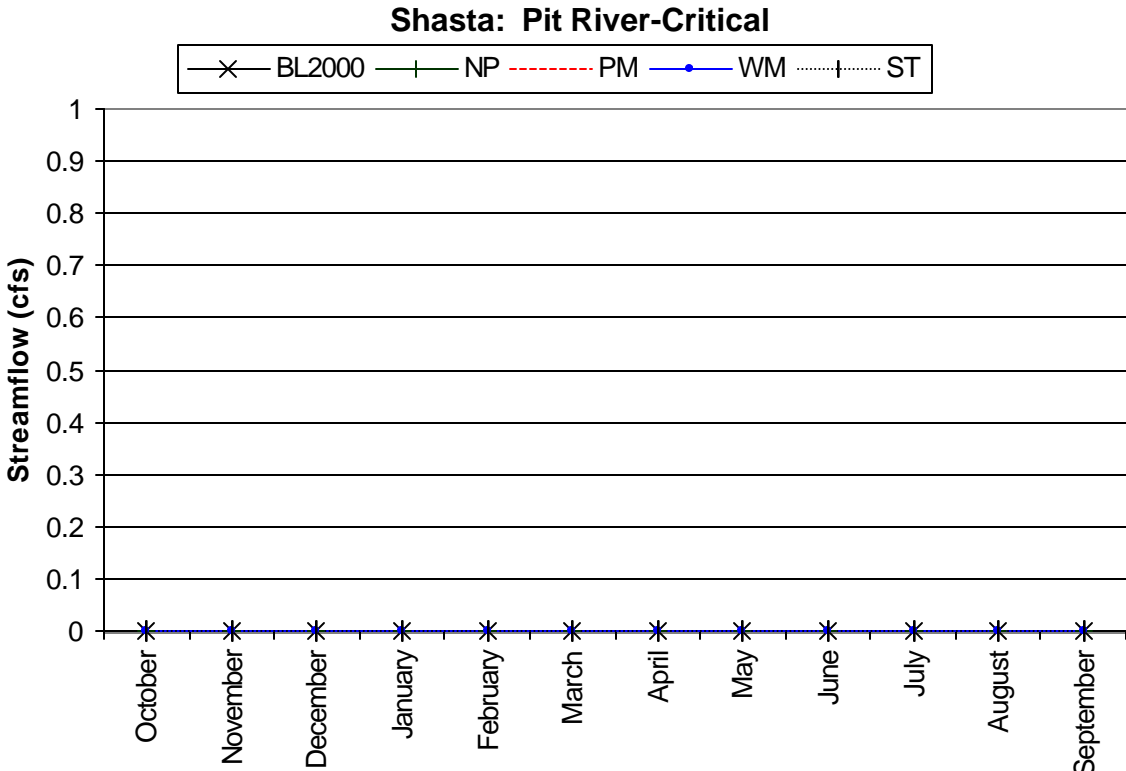


Shasta: Appendix Figure-5 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

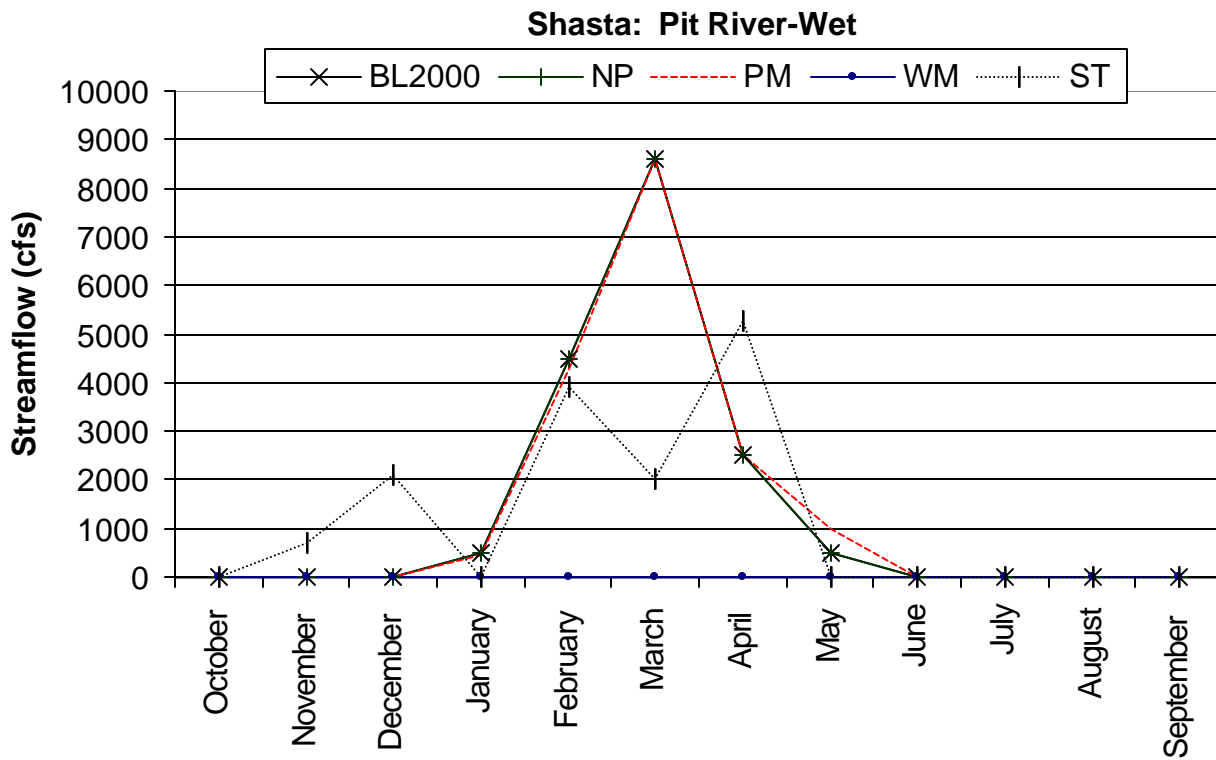
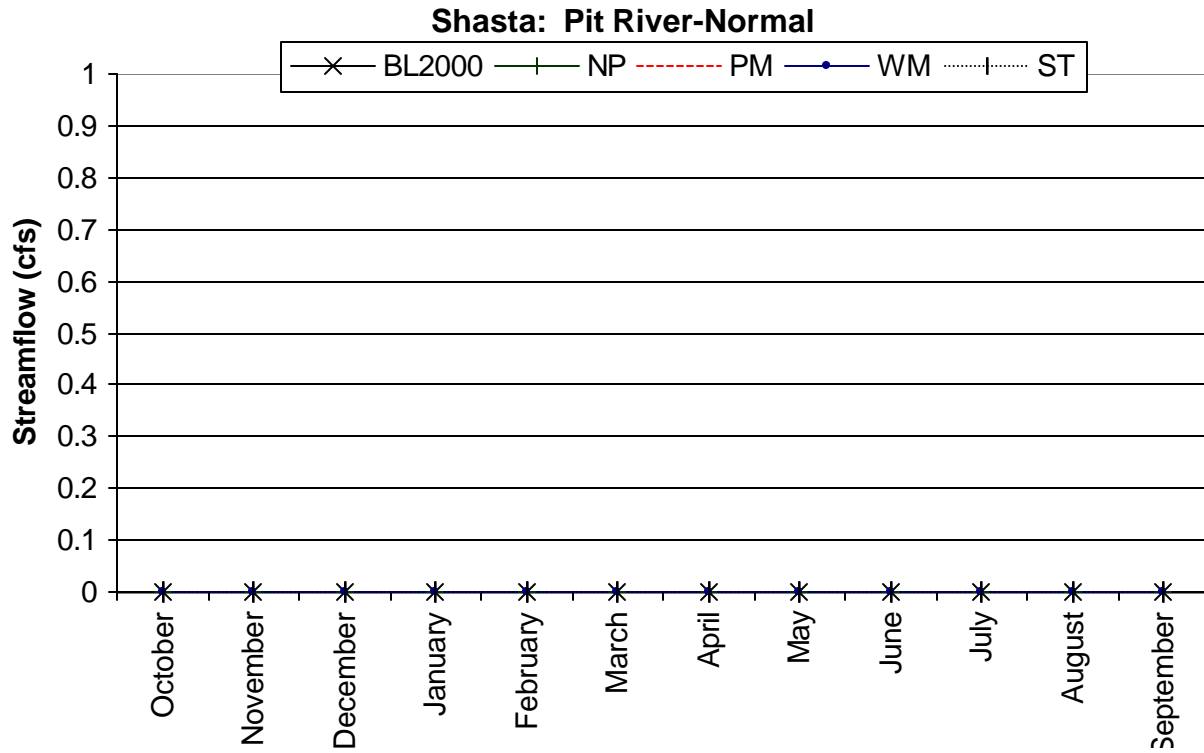




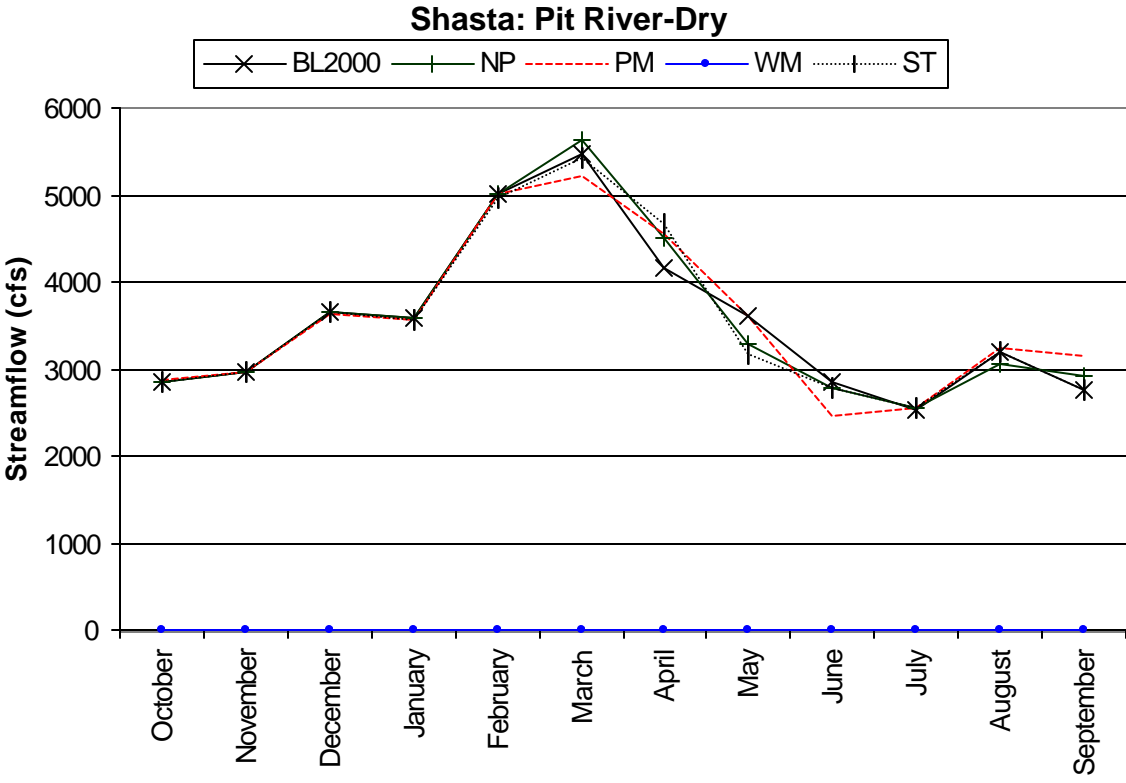
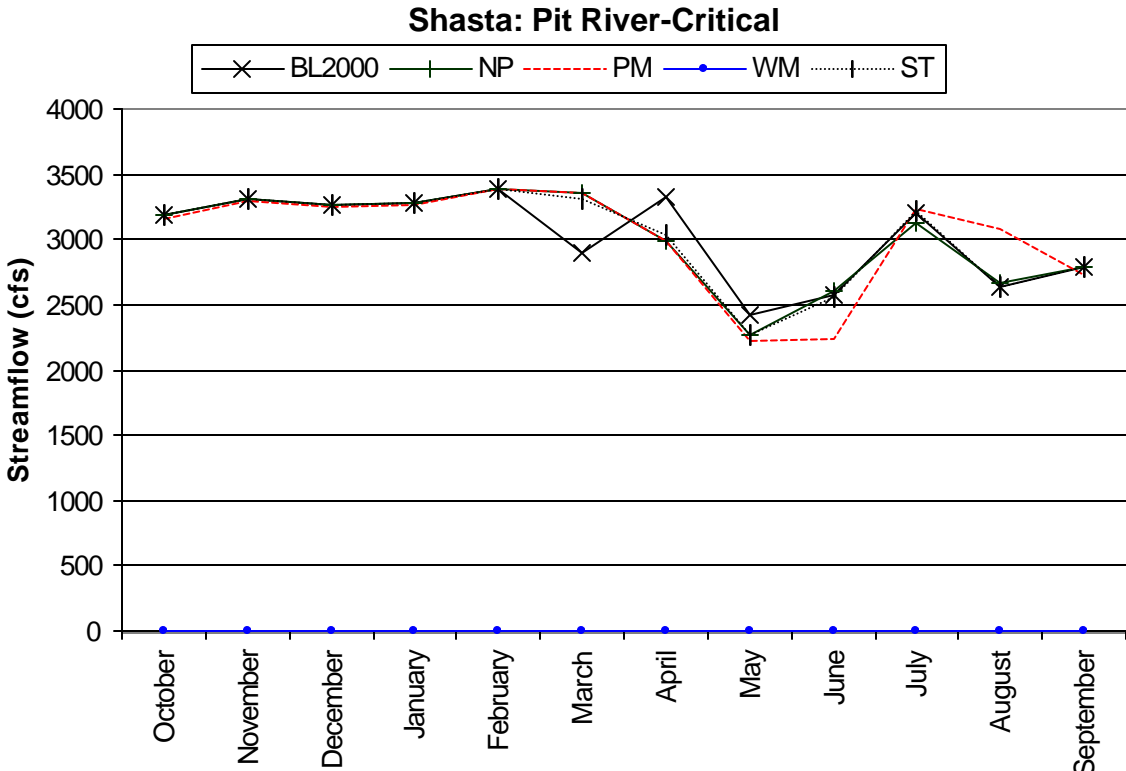
Shasta: Appendix Figure-6 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



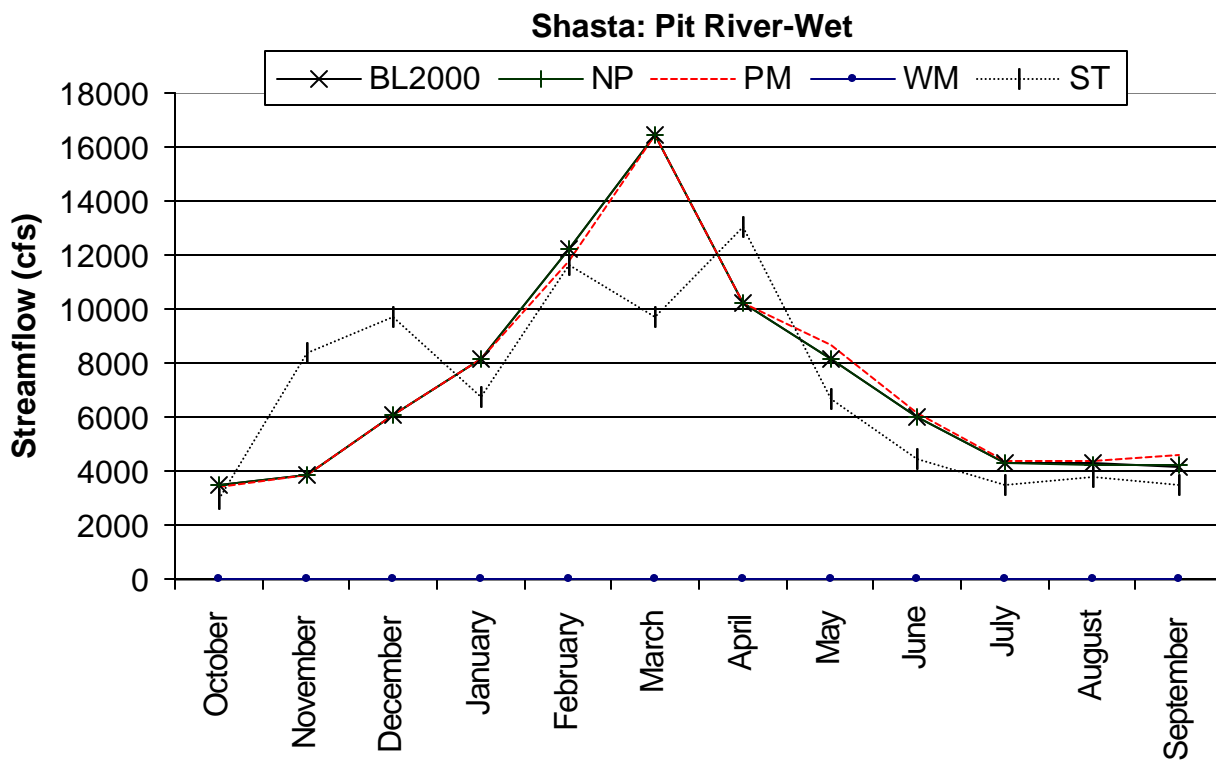
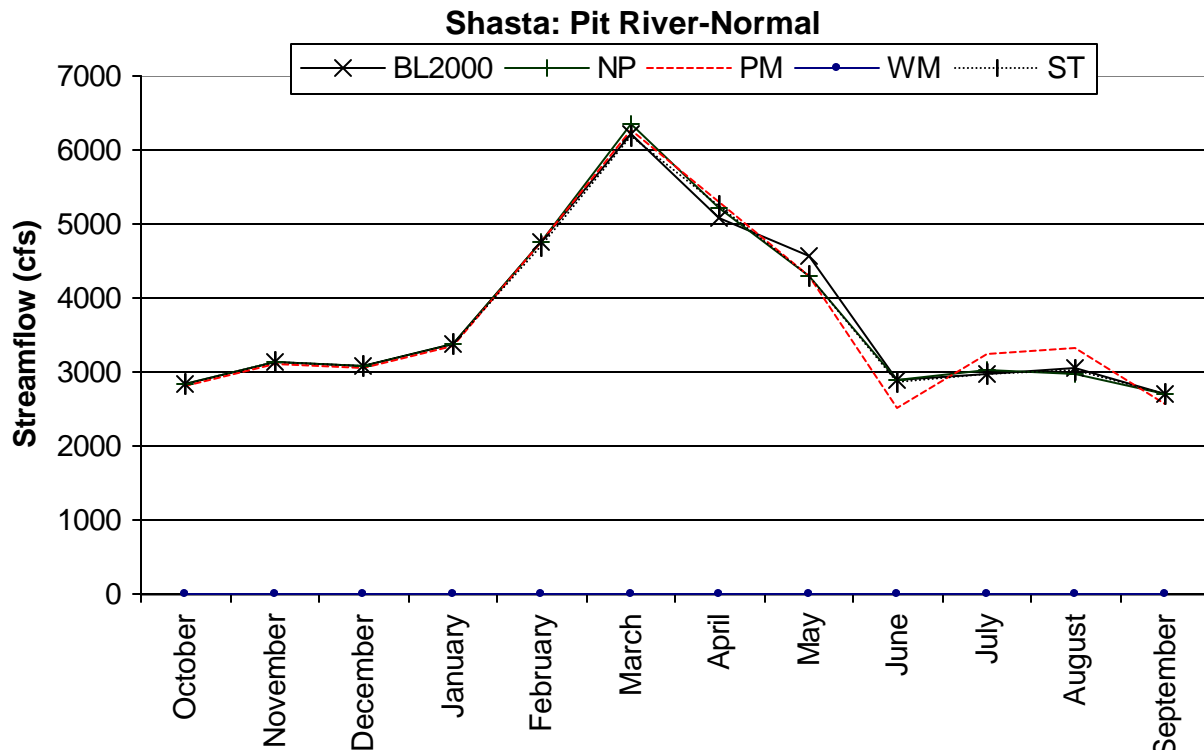
Shasta: Appendix Figure-7 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



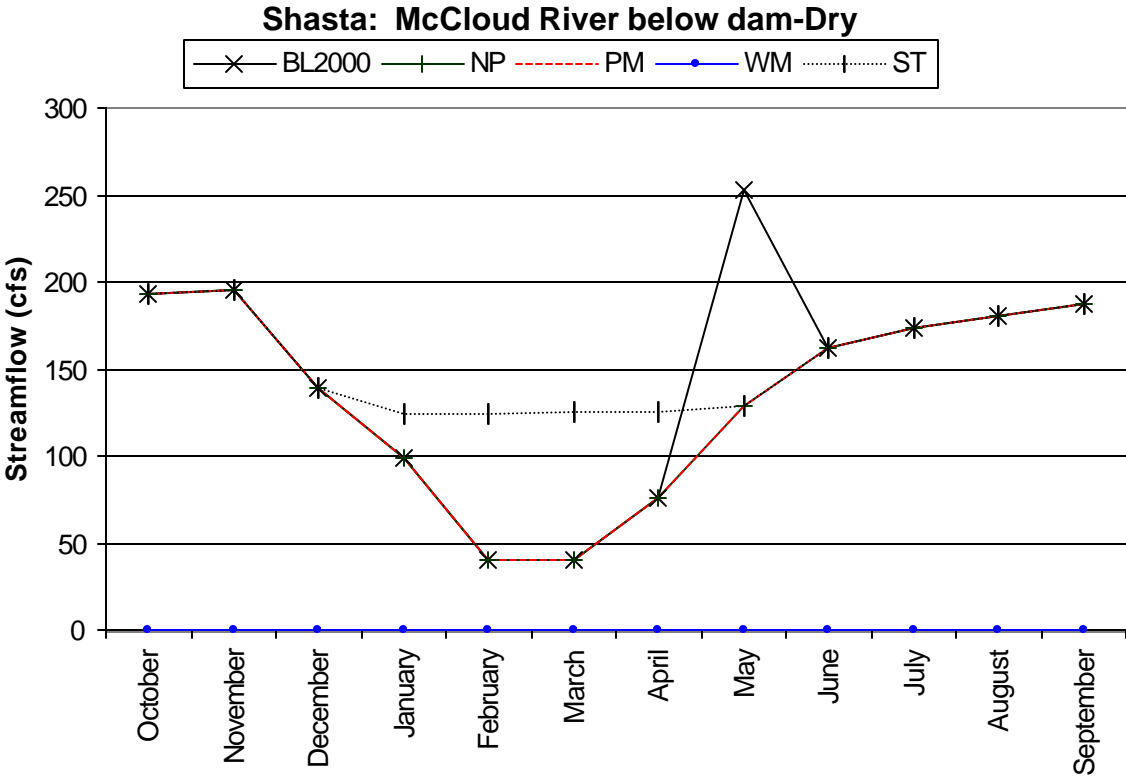
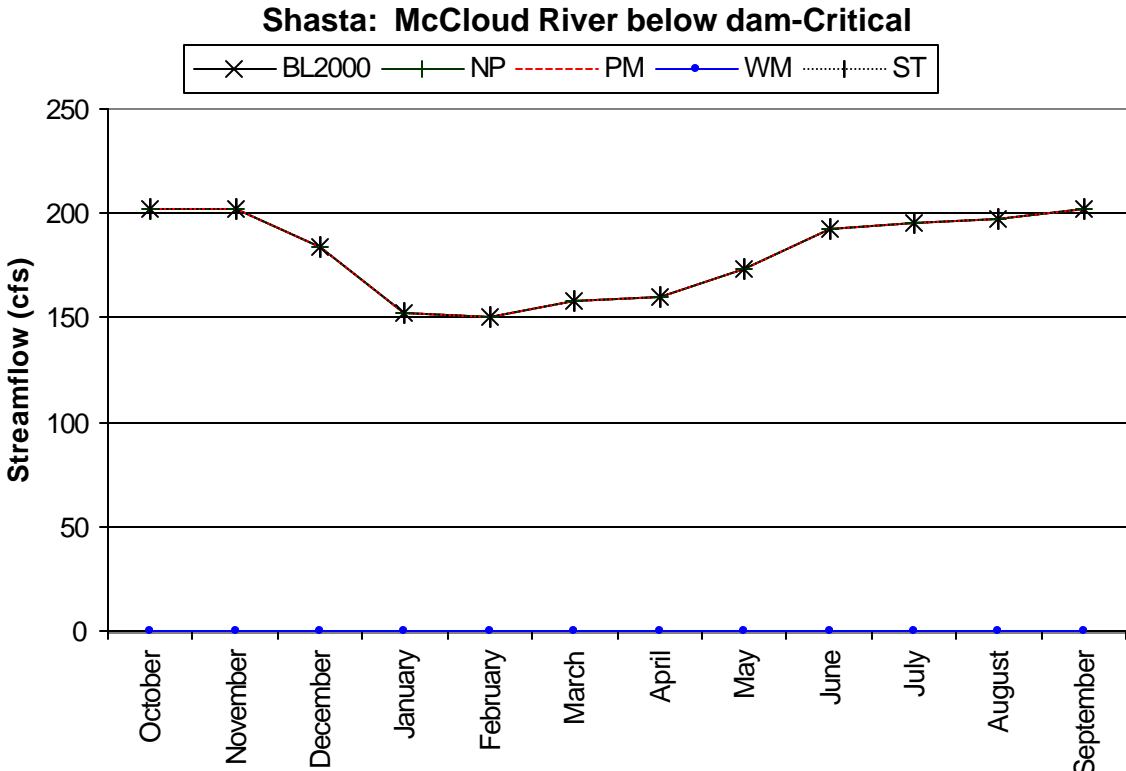
Shasta: Appendix Figure-8 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



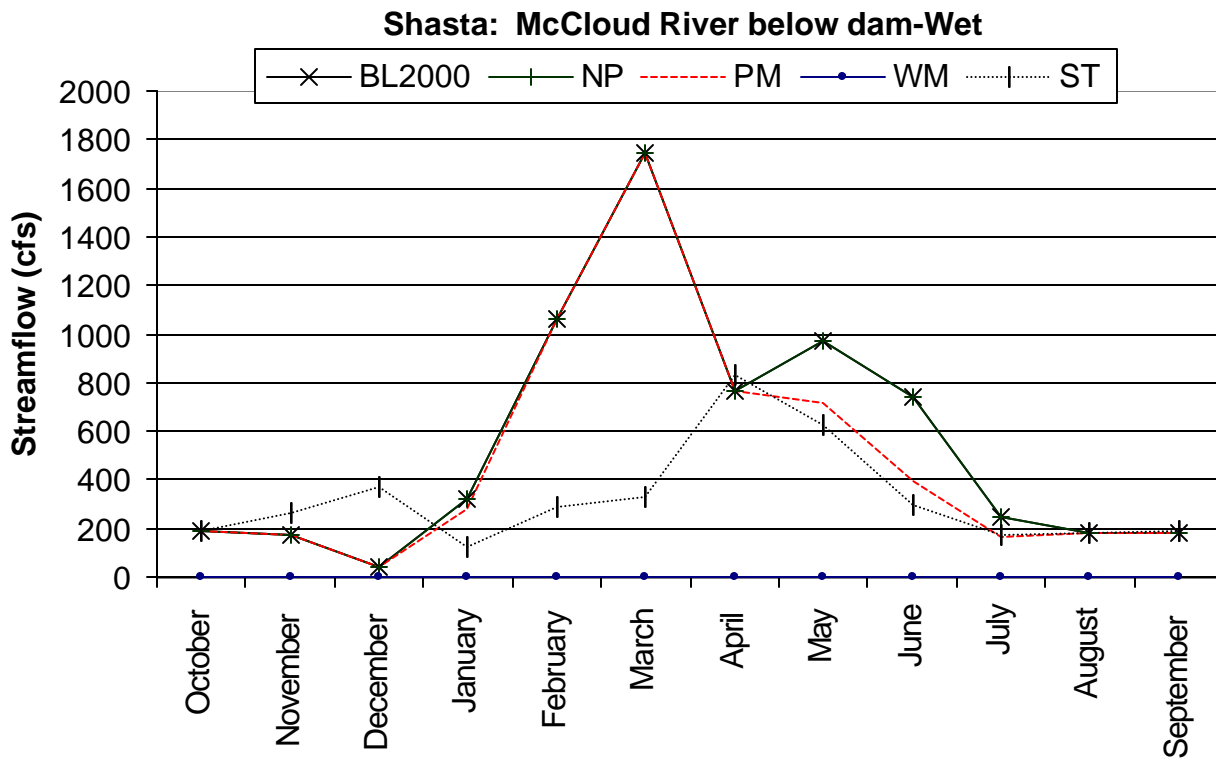
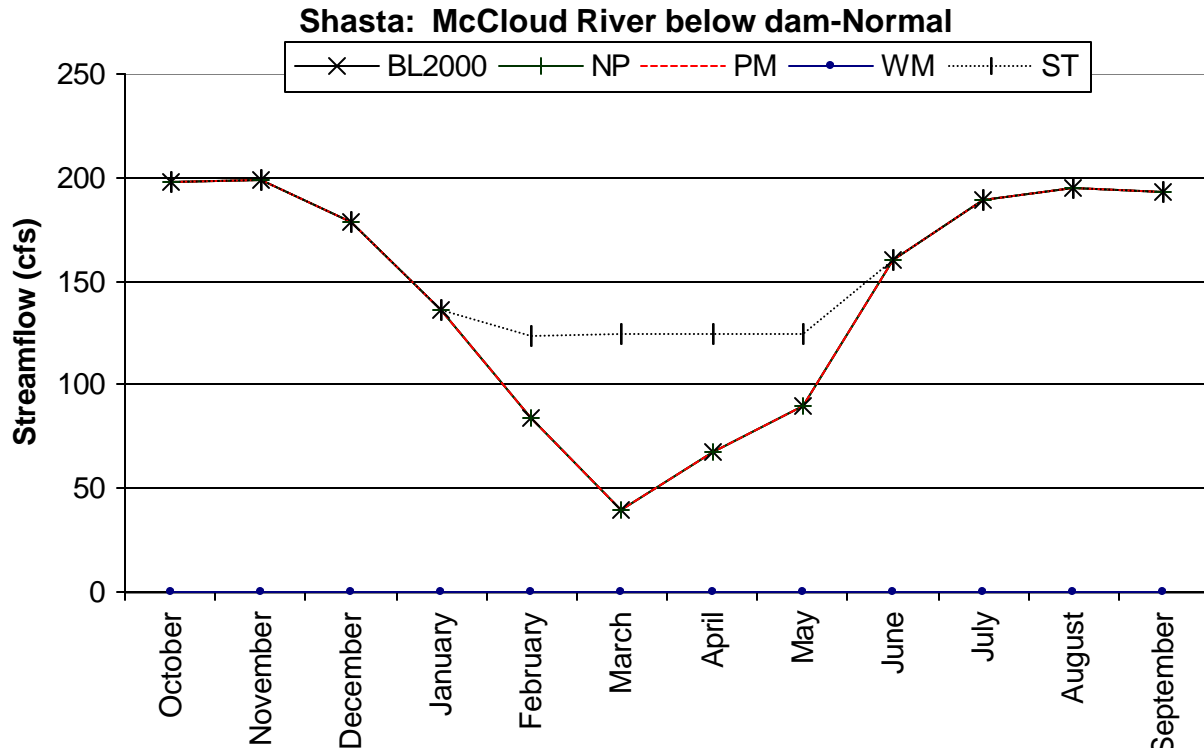
Shasta: Appendix Figure-9 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



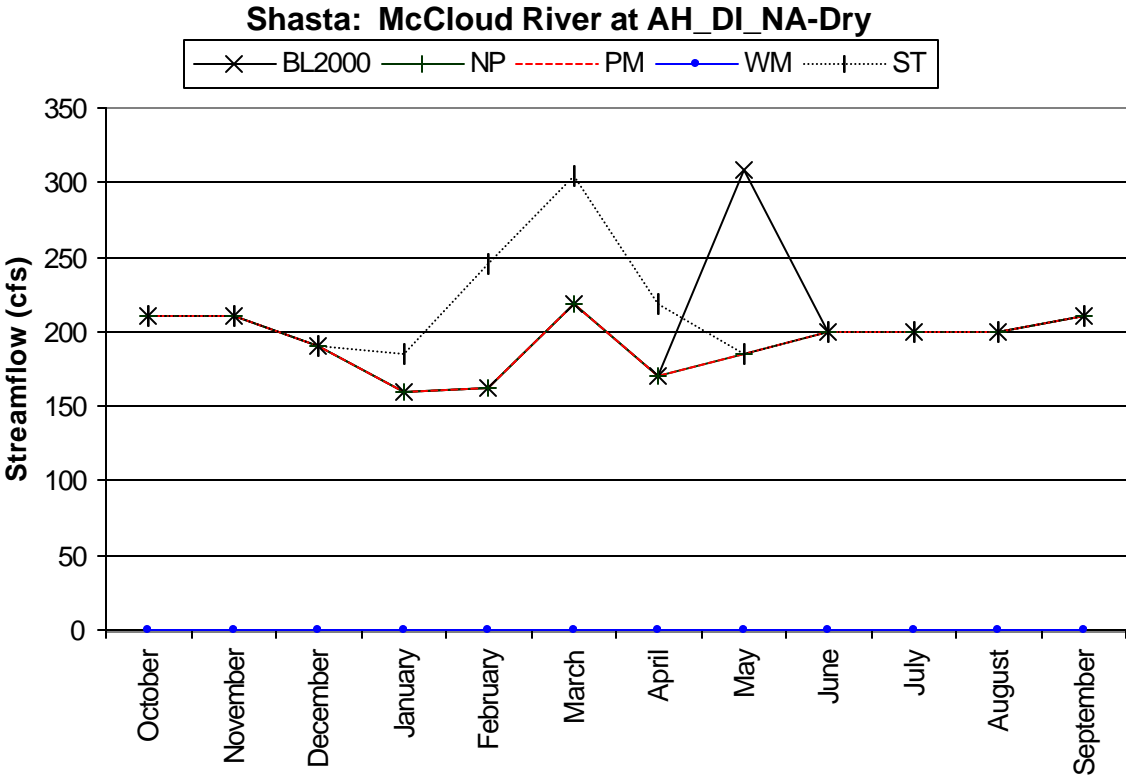
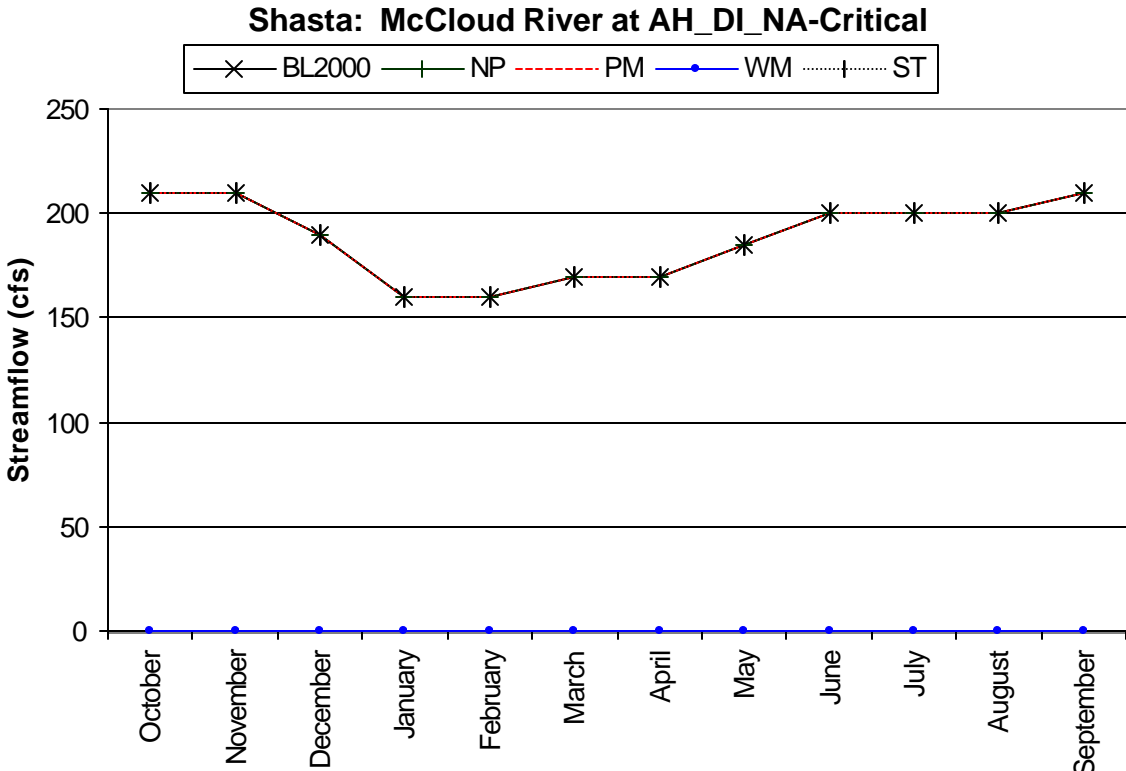
Shasta: Appendix Figure-10 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



Shasta: Appendix Figure-11 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

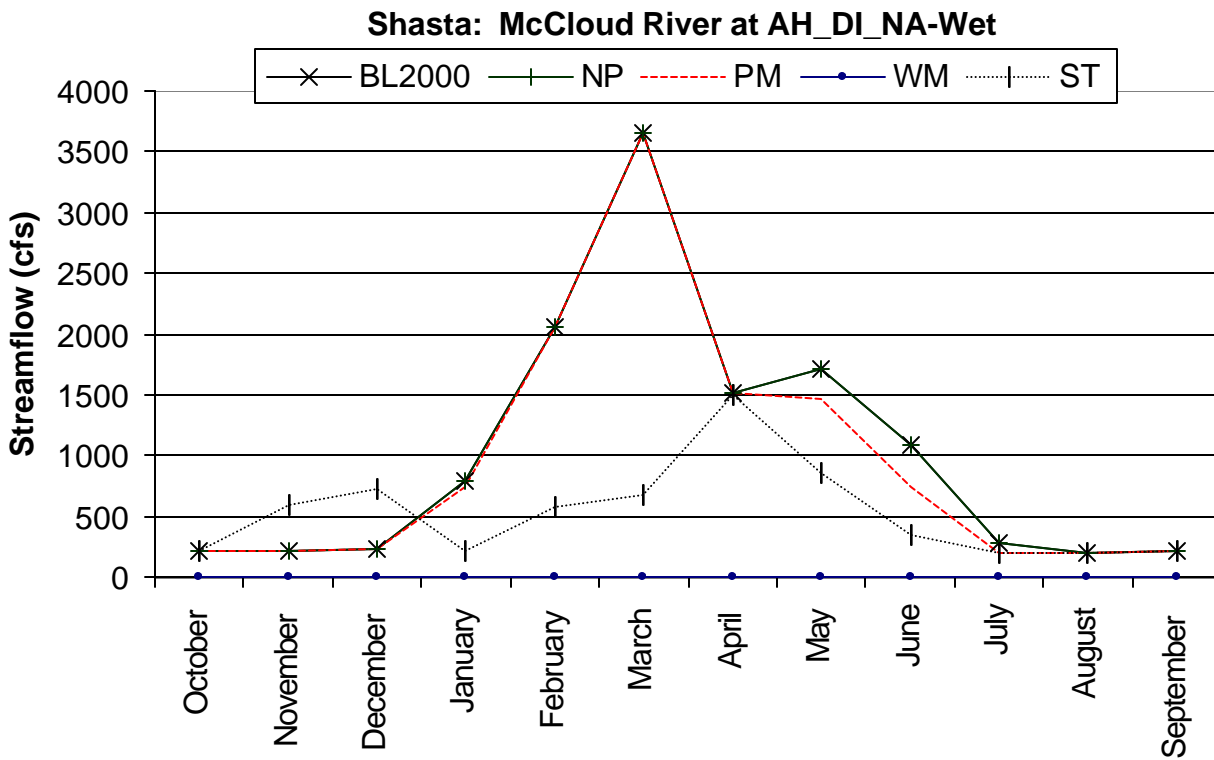
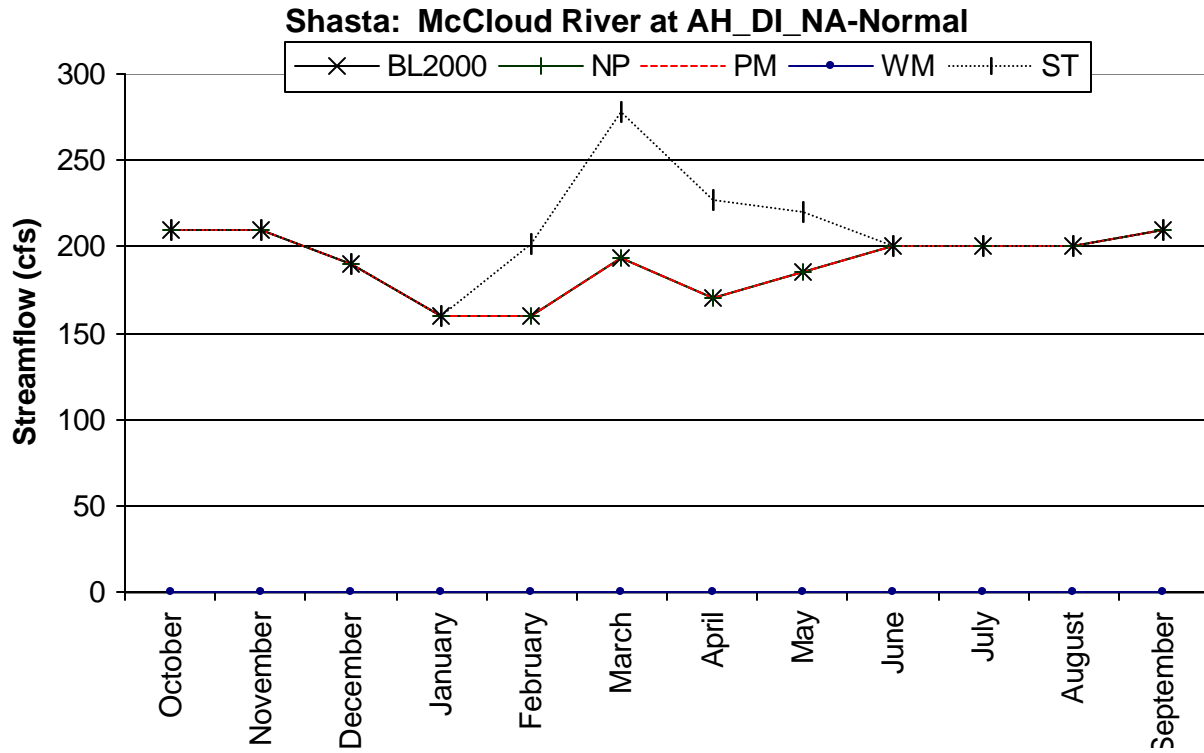


Shasta: Appendix Figure-12 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



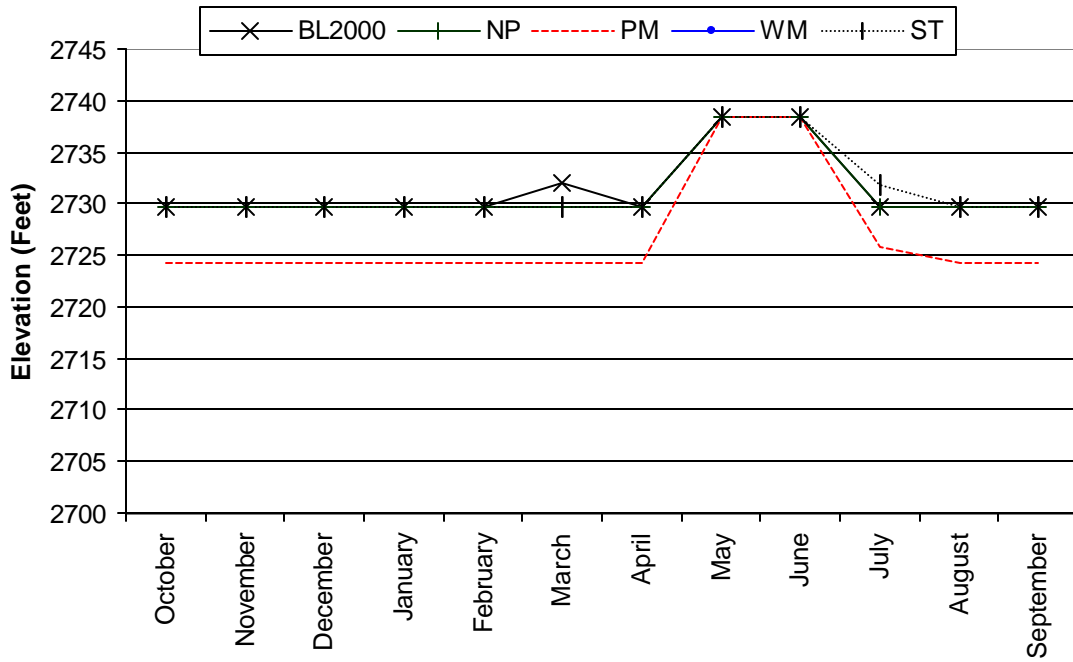
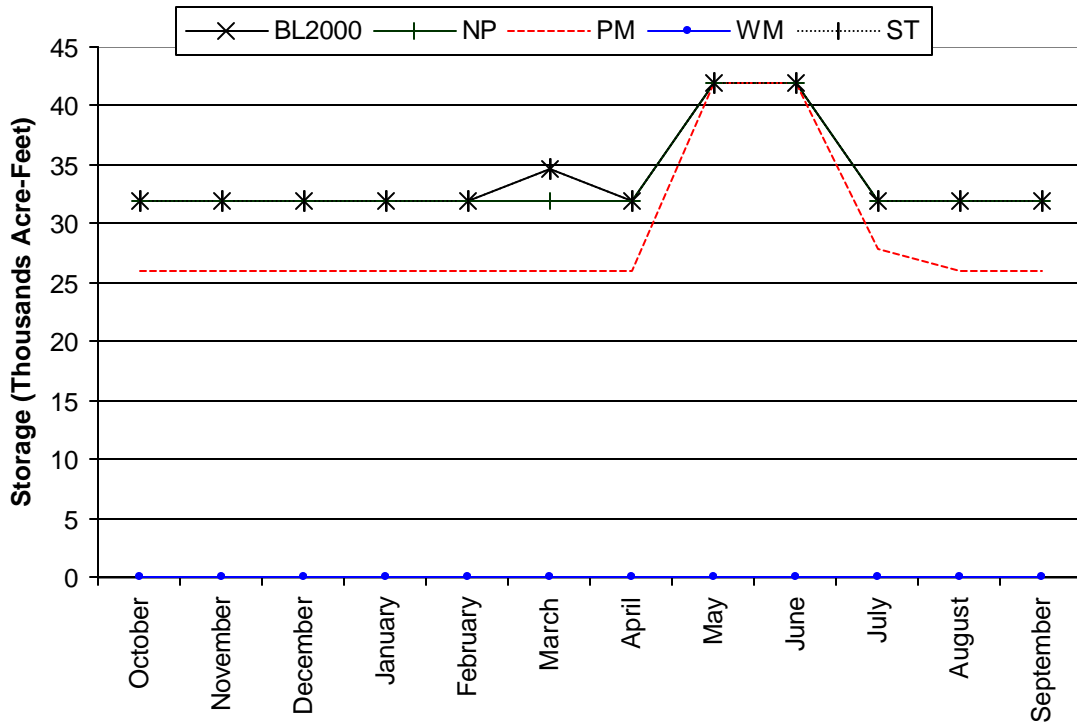
Shasta: Appendix Figure-13 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.





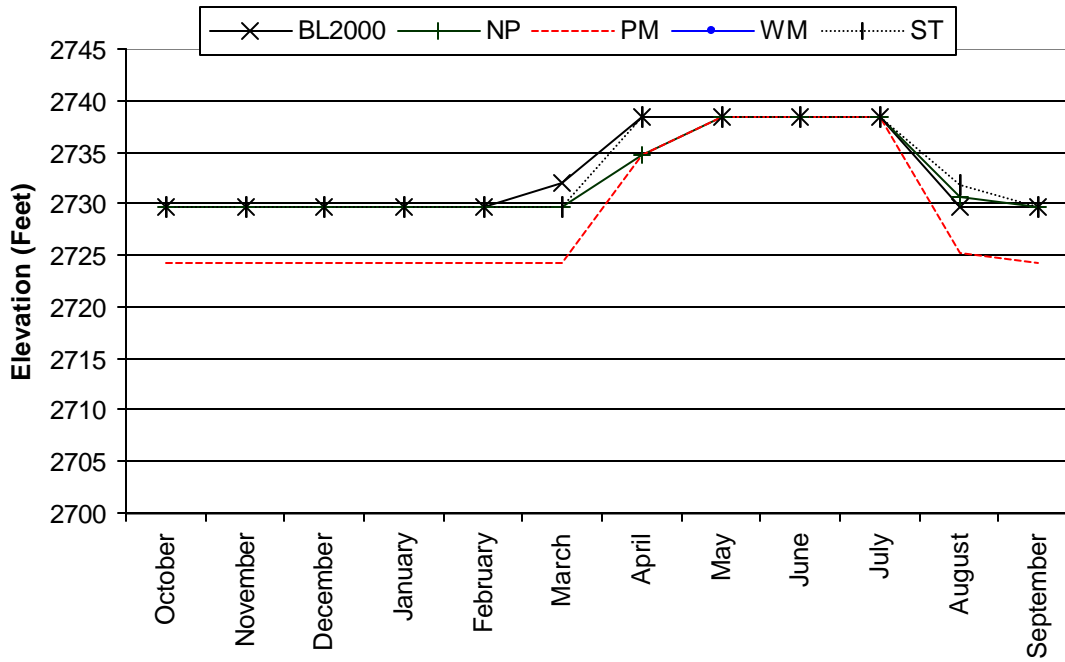
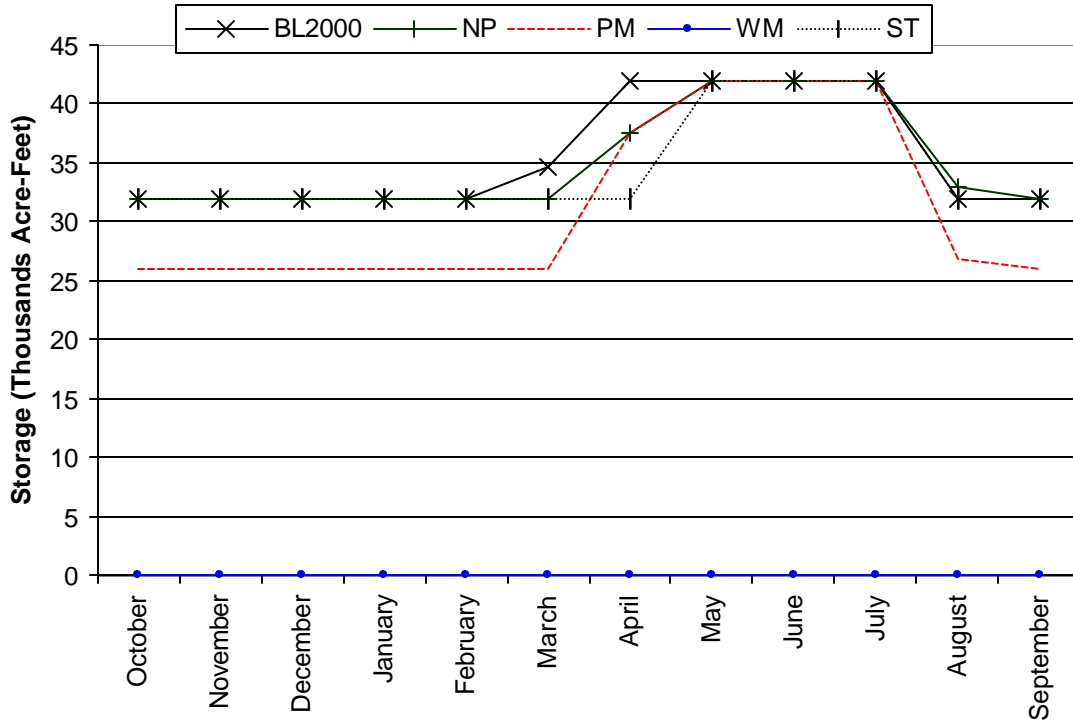
Shasta: Appendix Figure-14 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

### Shasta: Lake Britton

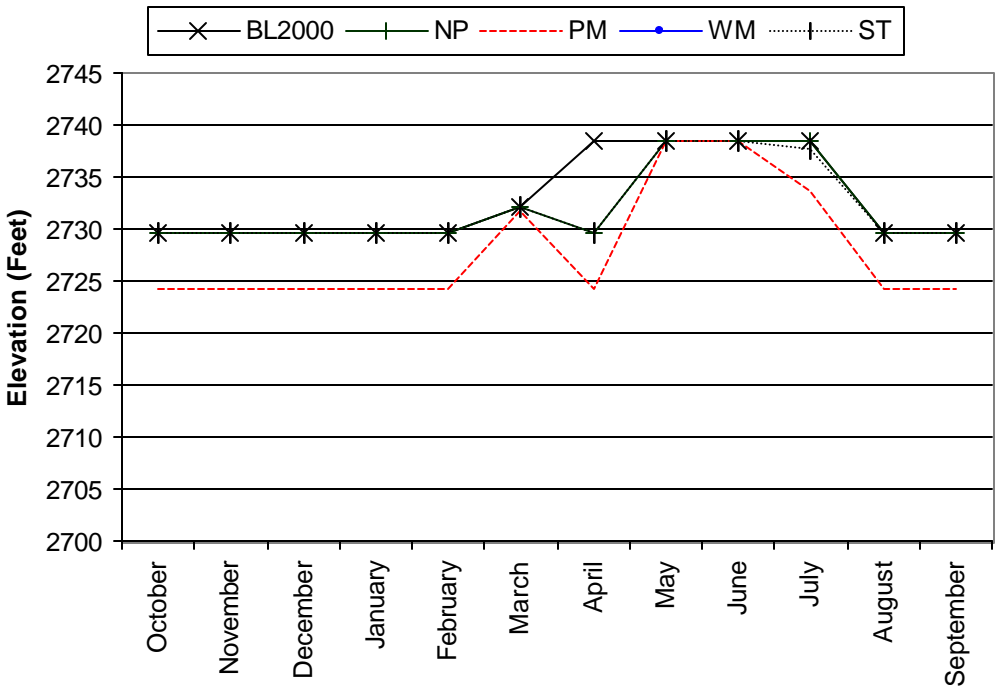
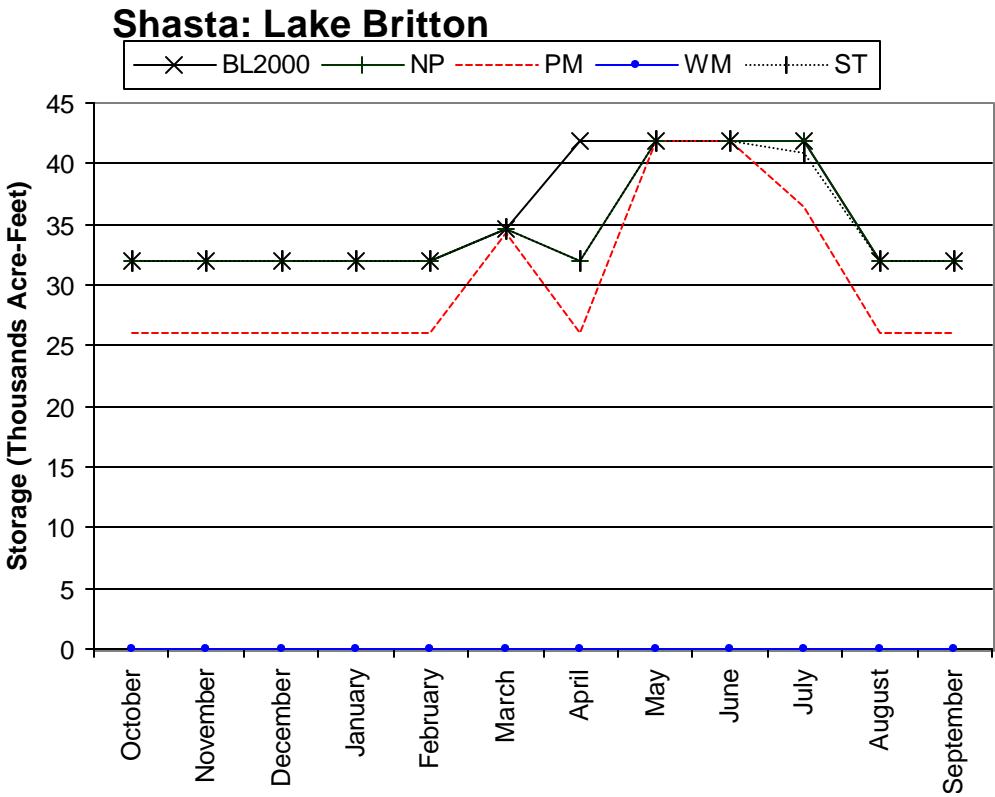


Shasta: Appendix Figure-15 Modeled storage and elevations in a critically dry year, 1977.

### Shasta: Lake Britton

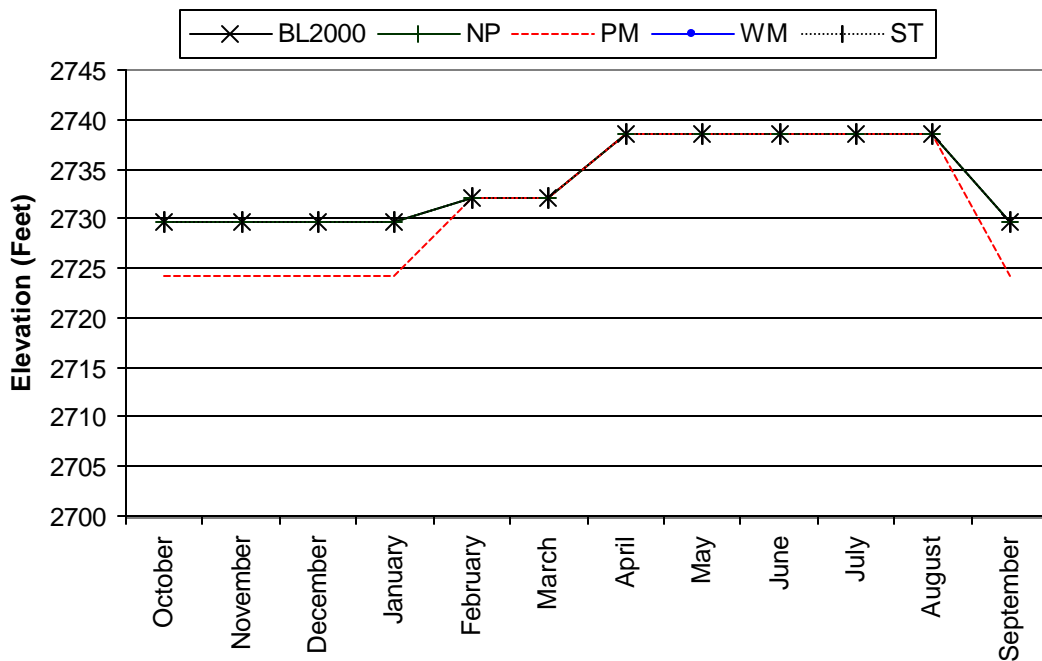
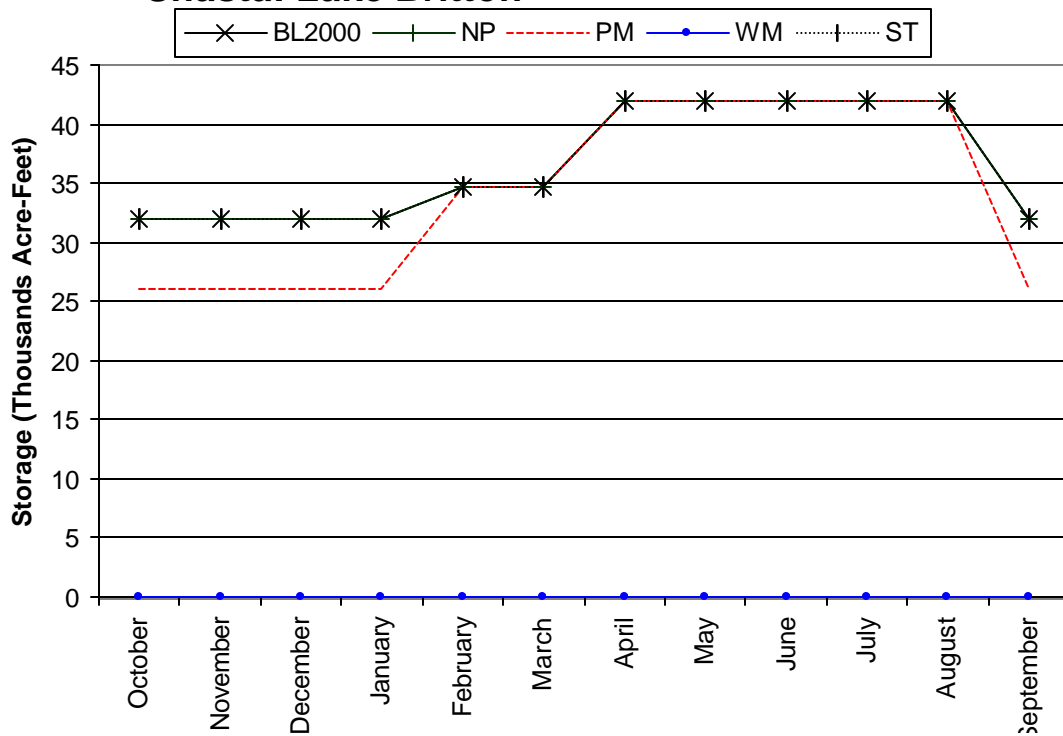


Shasta: Appendix Figure-16 Modeled storage and elevations in a dry year, 1981.

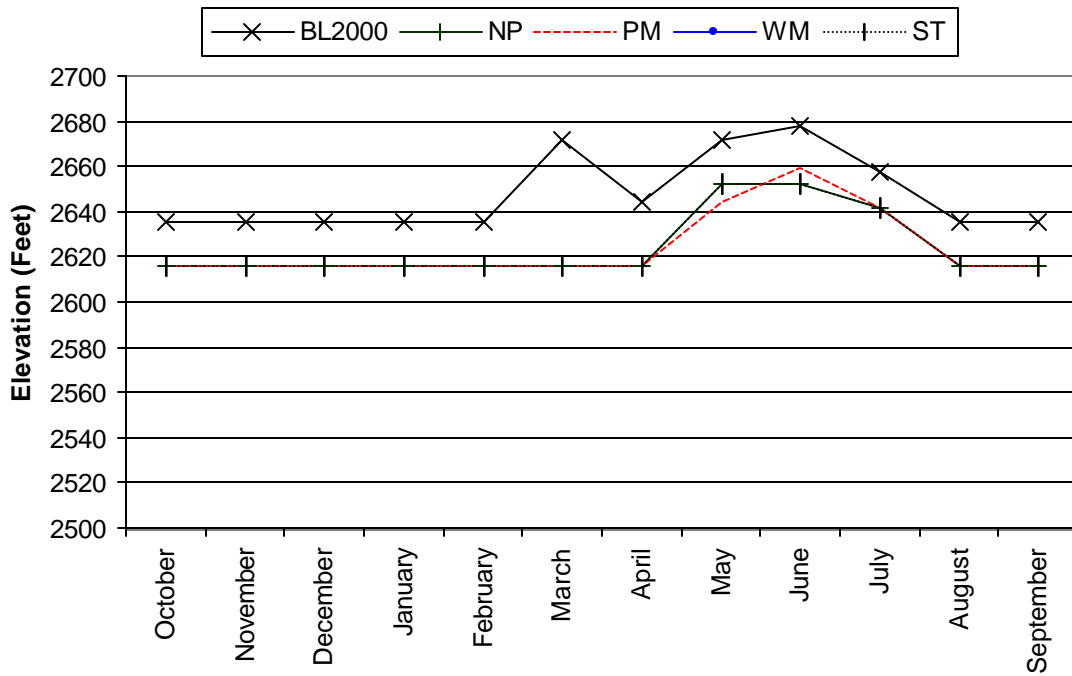
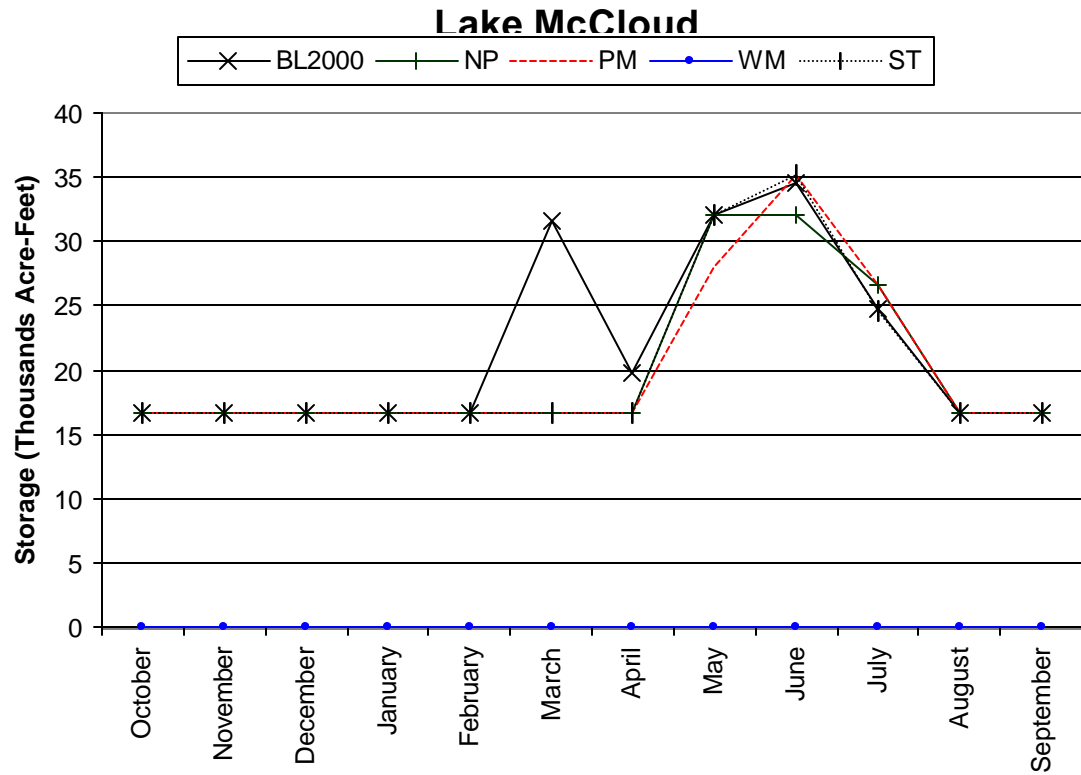


Shasta: Appendix Figure-17 Modeled storage and elevations in a normal water year, 1979.

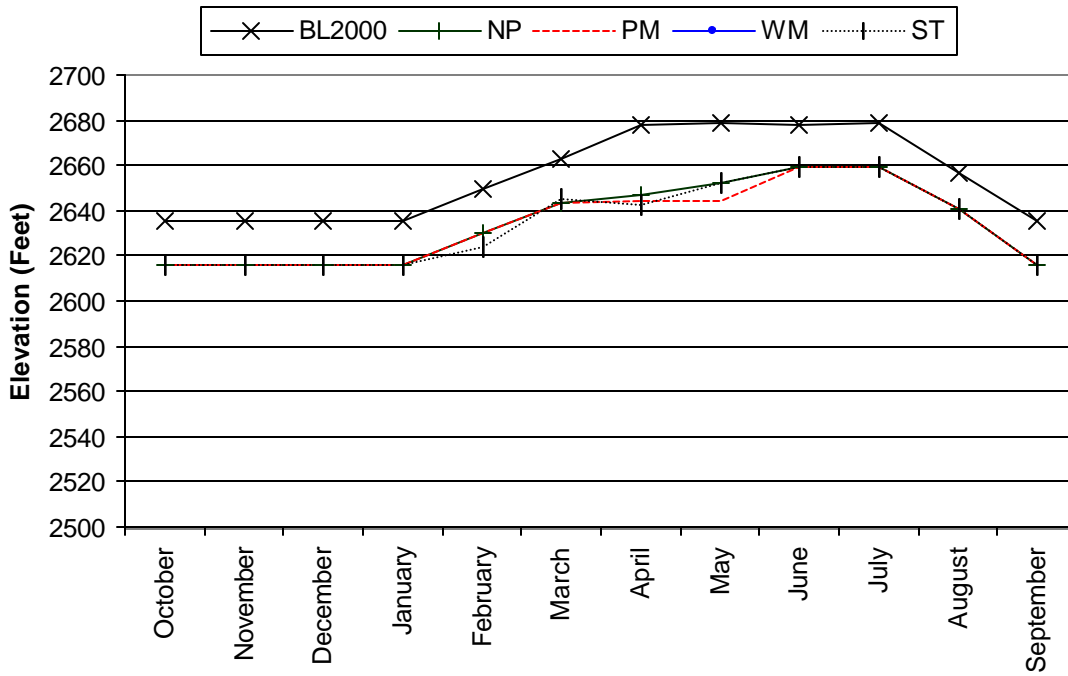
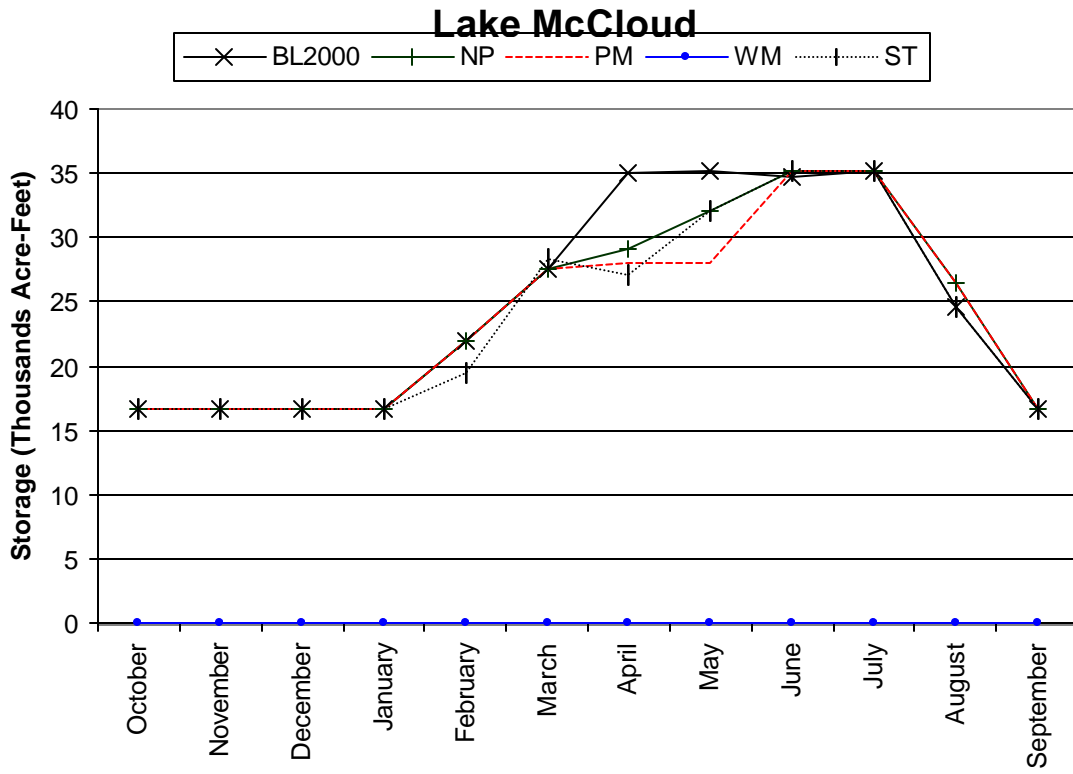
### Shasta: Lake Britton



Shasta: Appendix Figure-18 Modeled storage and elevations in a wet water year, 1983.

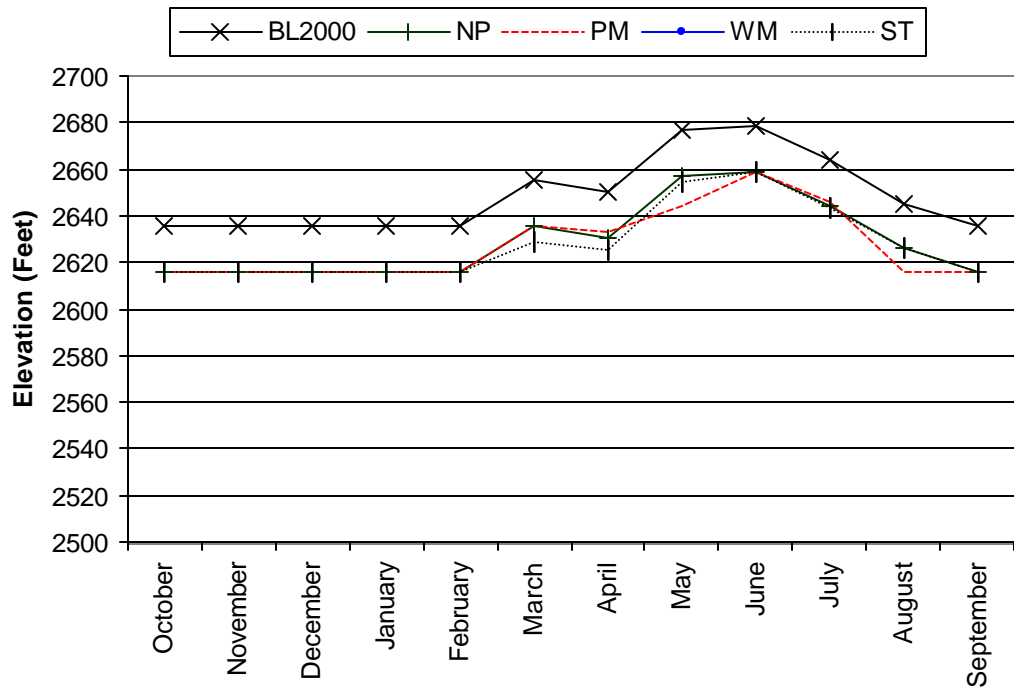
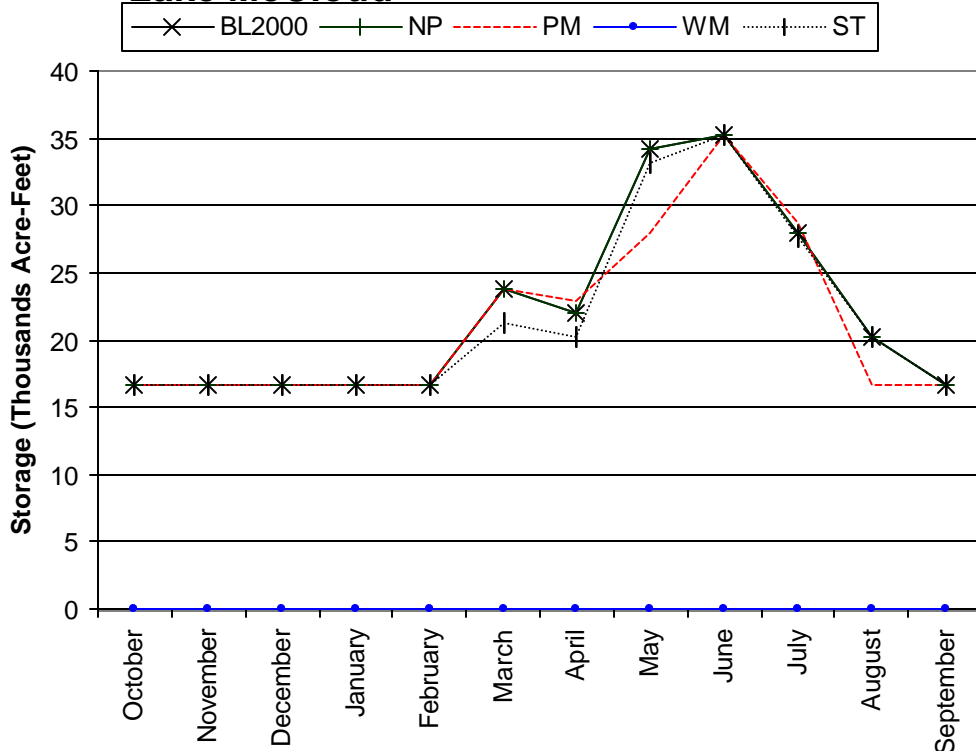


Shasta : Appendix Figure-19 Modeled storage and elevations in a critically dry year, 1977.



Shasta : Appendix Figure-20 Modeled storage and elevations in a dry year, 1981.

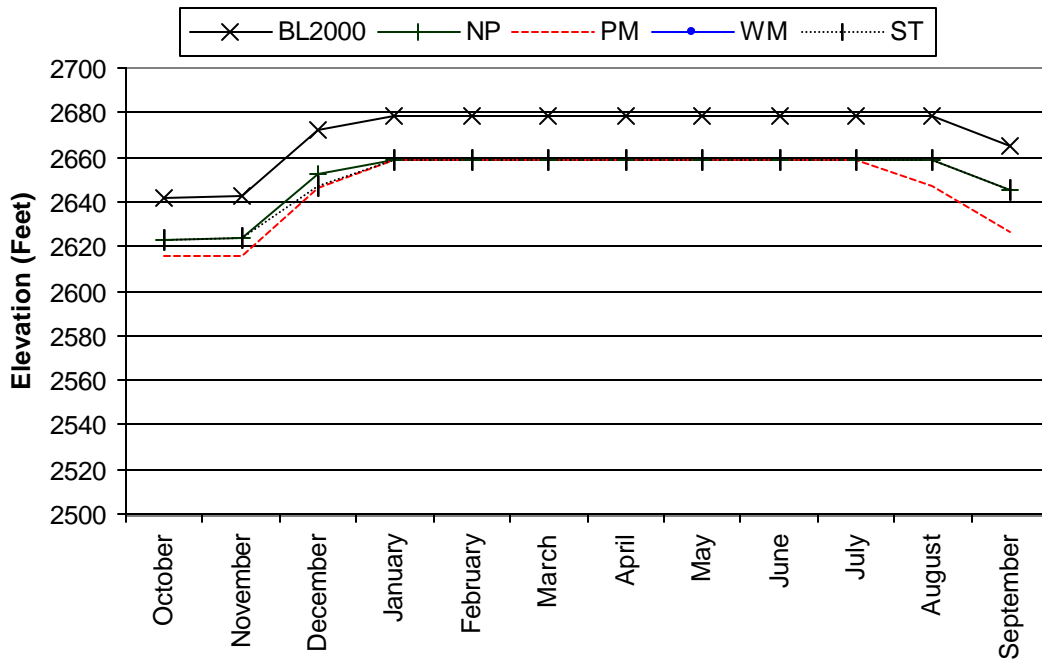
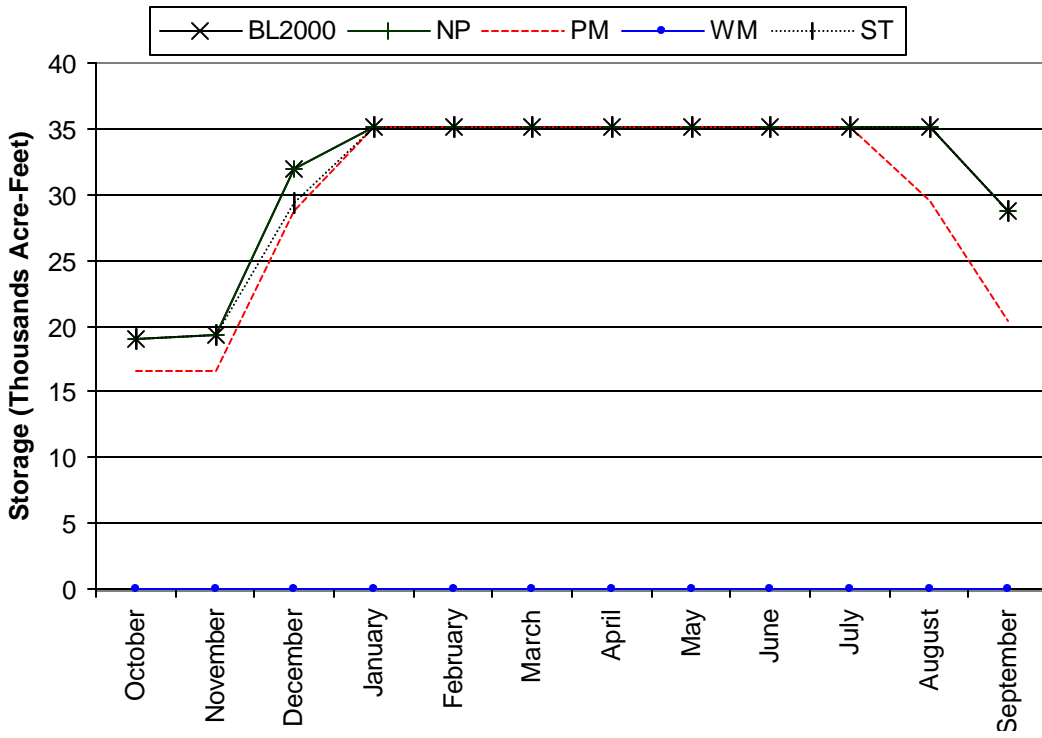
### Lake McCloud



Shasta : Appendix Figure-21 Modeled storage and elevations in a normal water year, 1979.

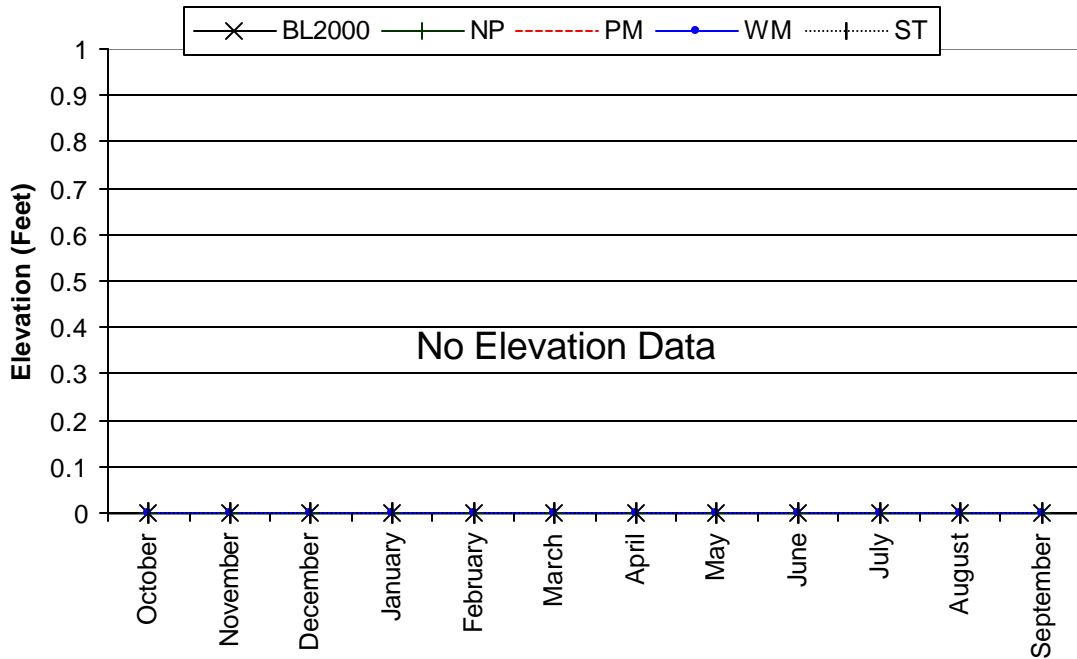
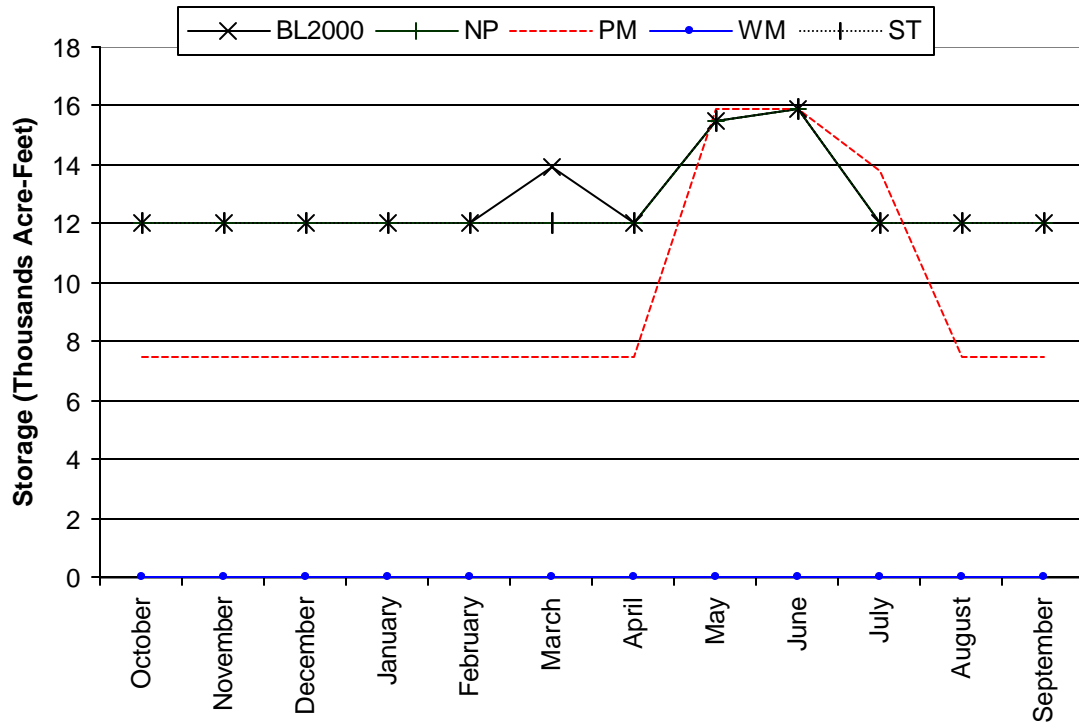


### Lake McCloud



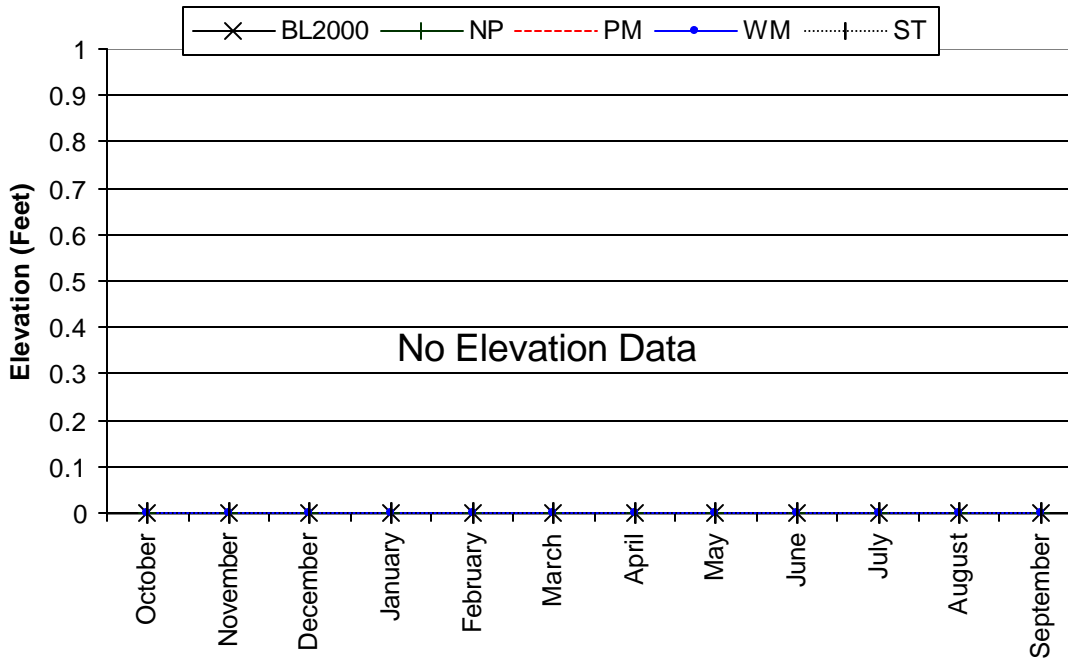
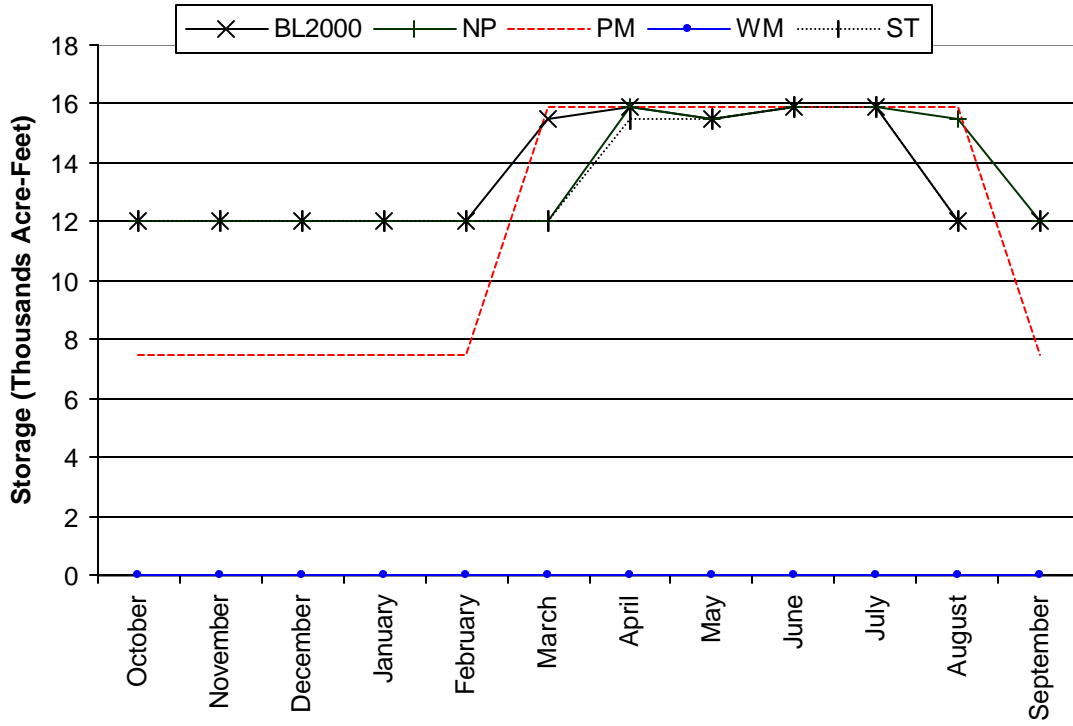
Shasta : Appendix Figure-22 Modeled storage and elevations in a wet water year, 1983.

### Shasta: Pit 6 Reservoir



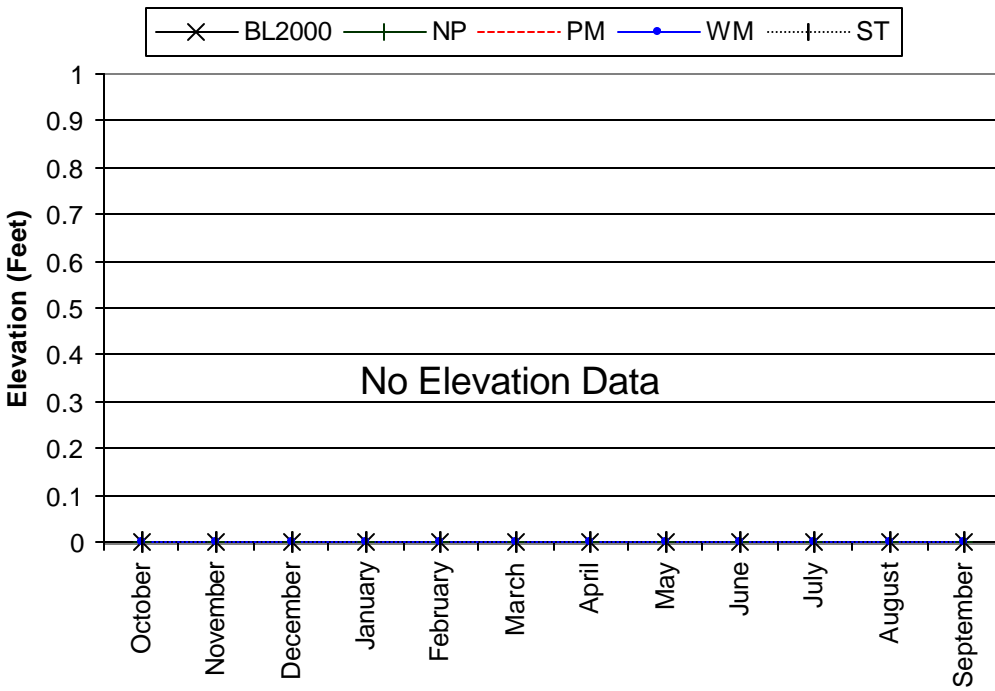
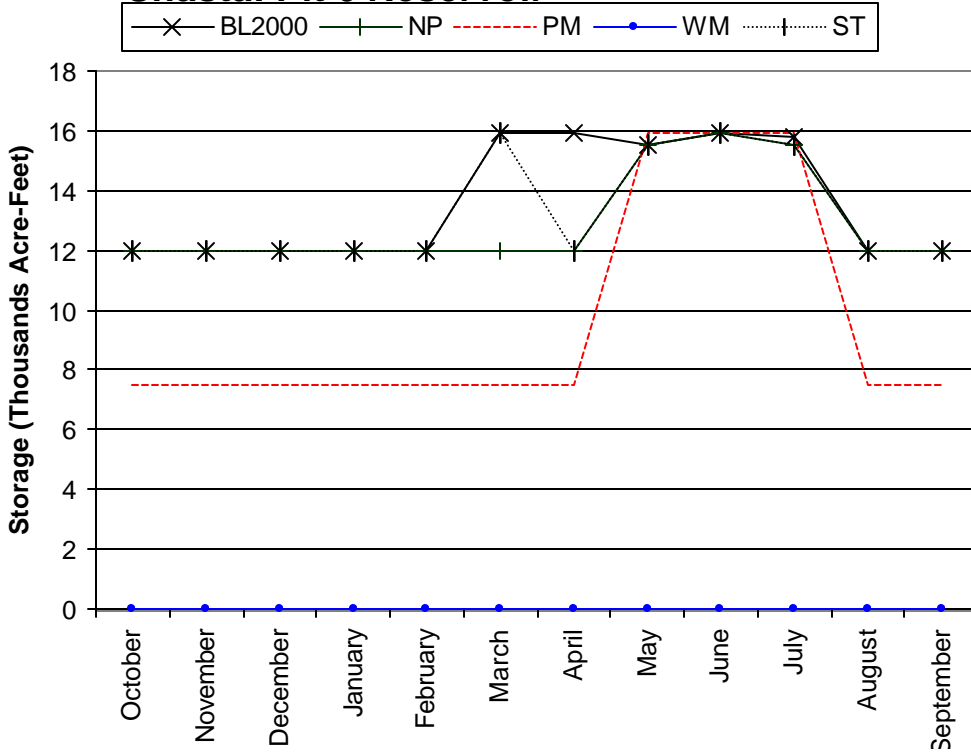
Shasta: Appendix Figure-23 Modeled storage and elevations in a critically dry year, 1977.

### Shasta: Pit 6 Reservoir



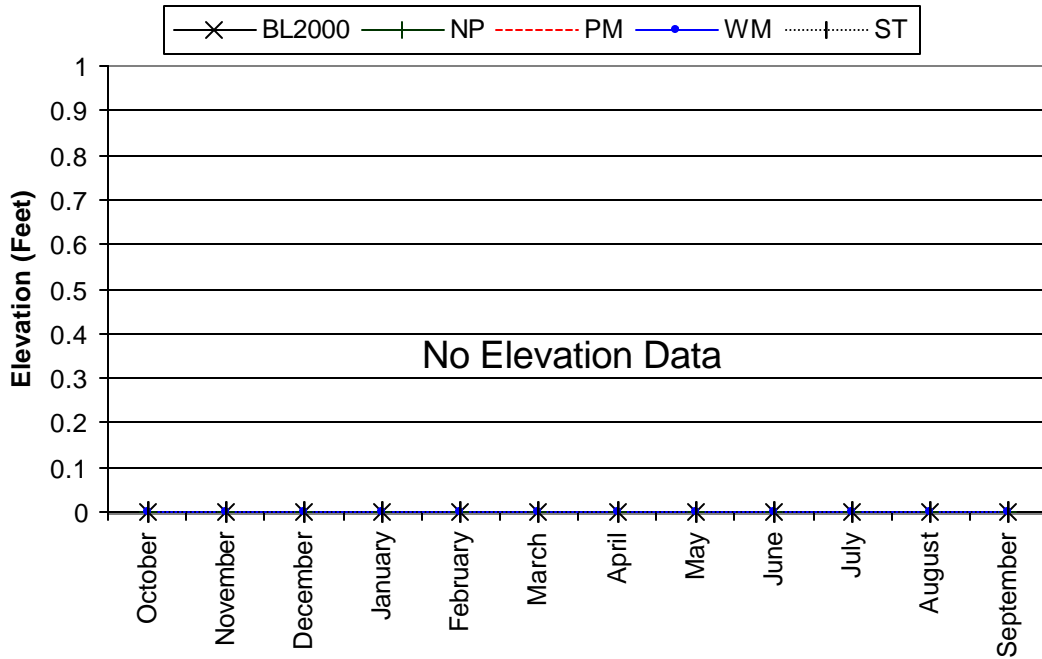
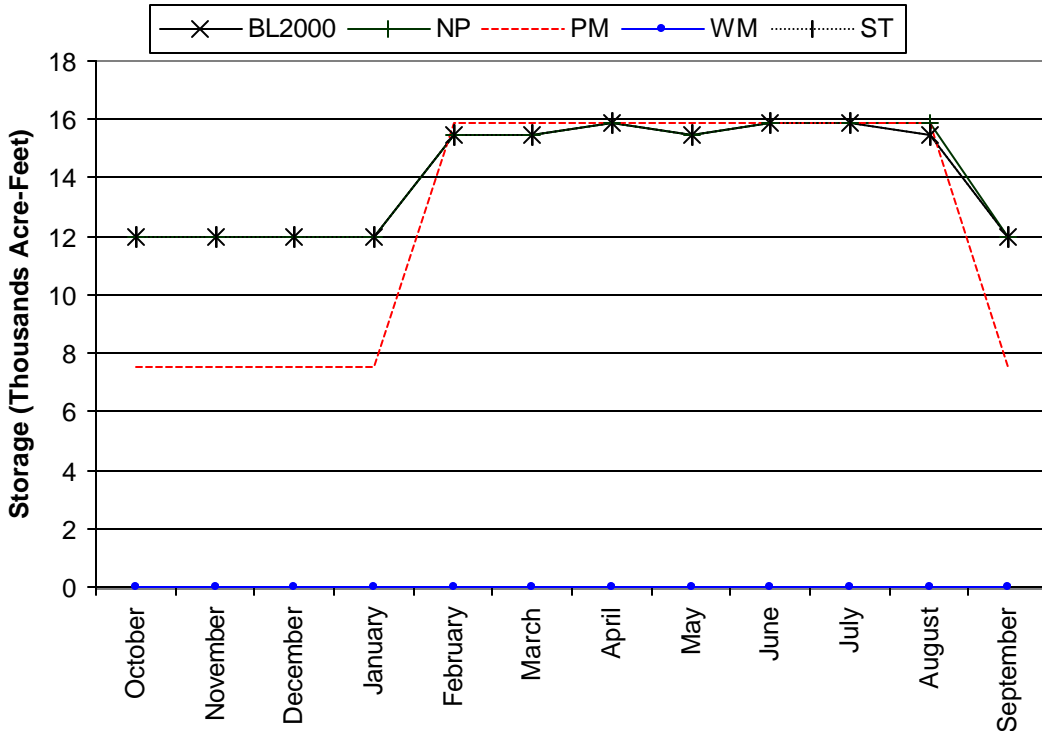
Shasta: Appendix Figure-24 Modeled storage and elevations in a dry year, 1981.

### Shasta: Pit 6 Reservoir



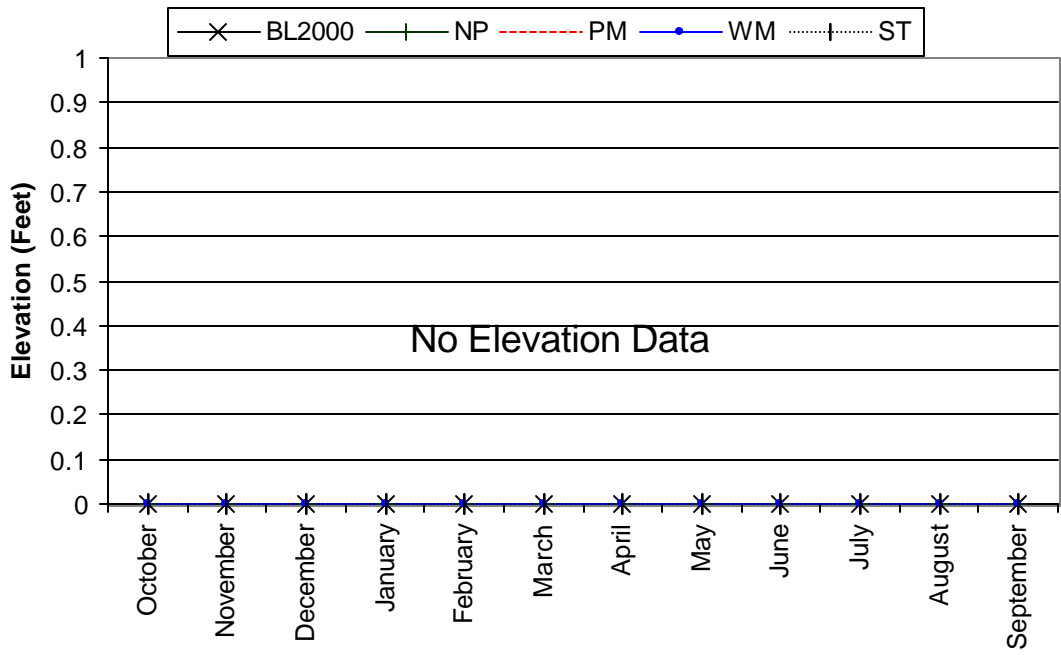
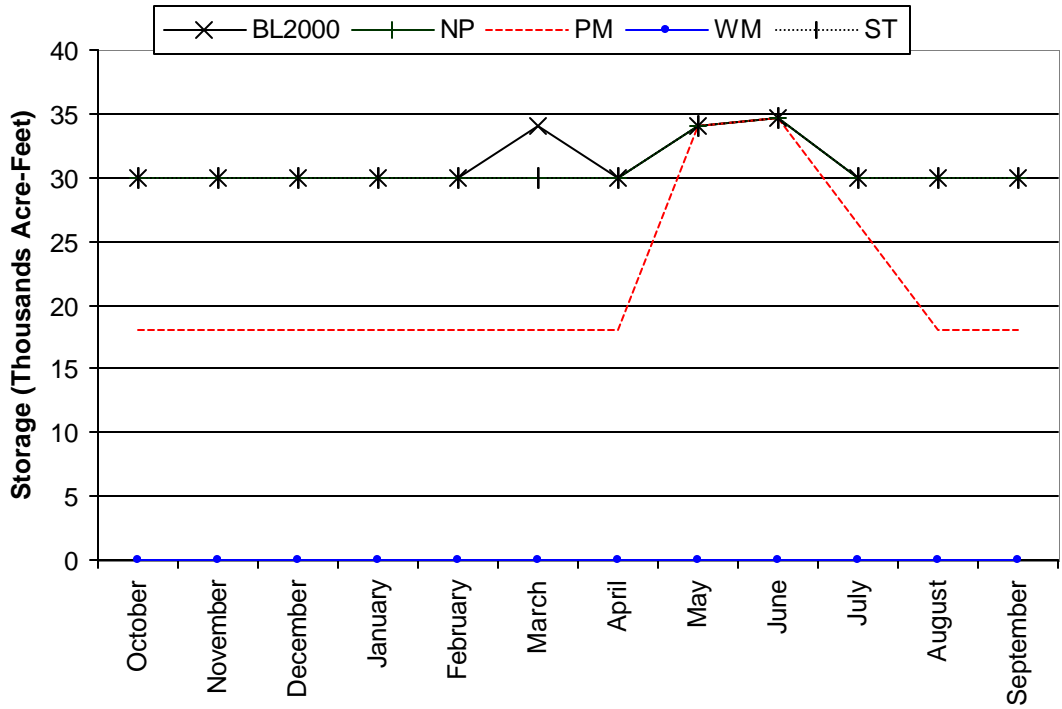
Shasta: Appendix Figure-25 Modeled storage and elevations in a normal water year, 1979.

### Shasta: Pit 6 Reservoir



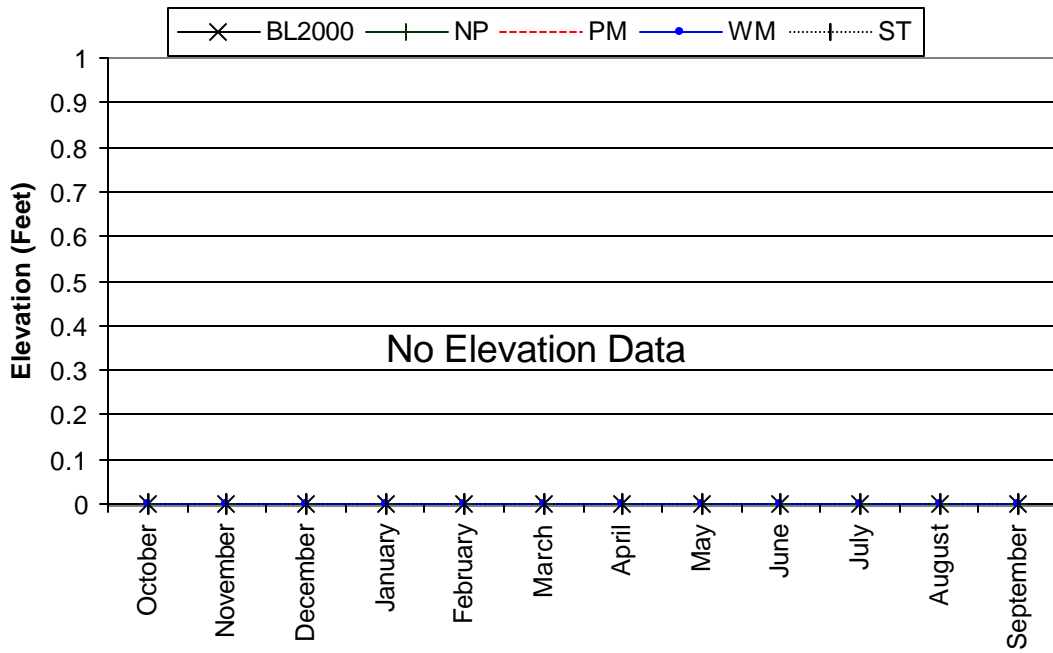
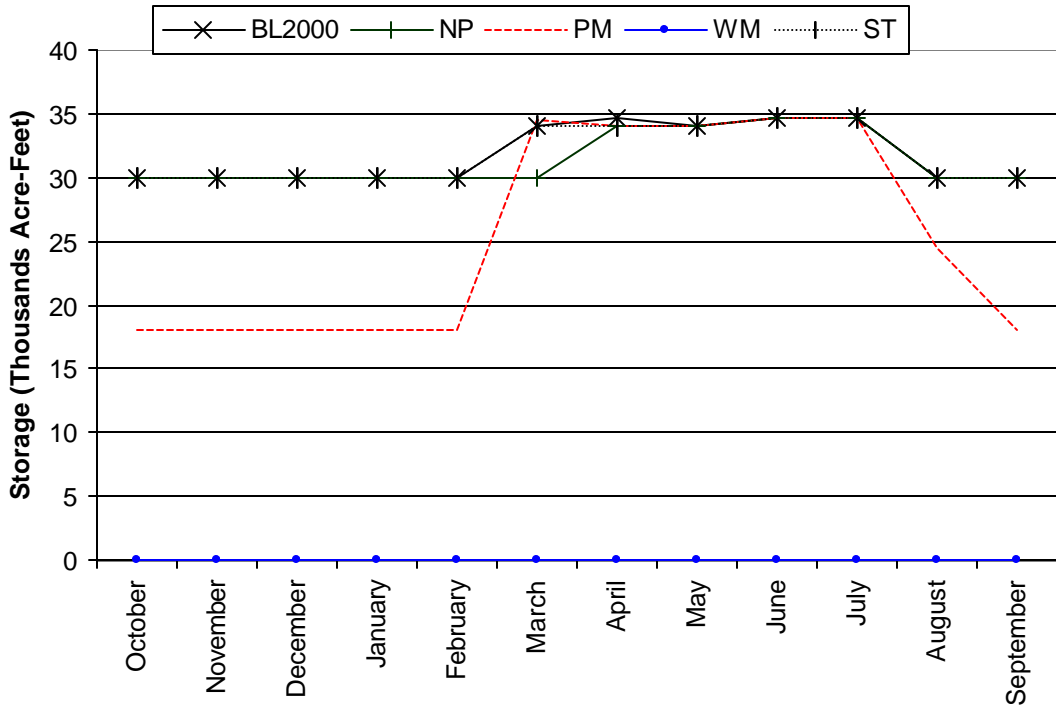
Shasta: Appendix Figure-26 Modeled storage and elevations in a wet water year, 1983.

### Shasta: Pit 7 Reservoir



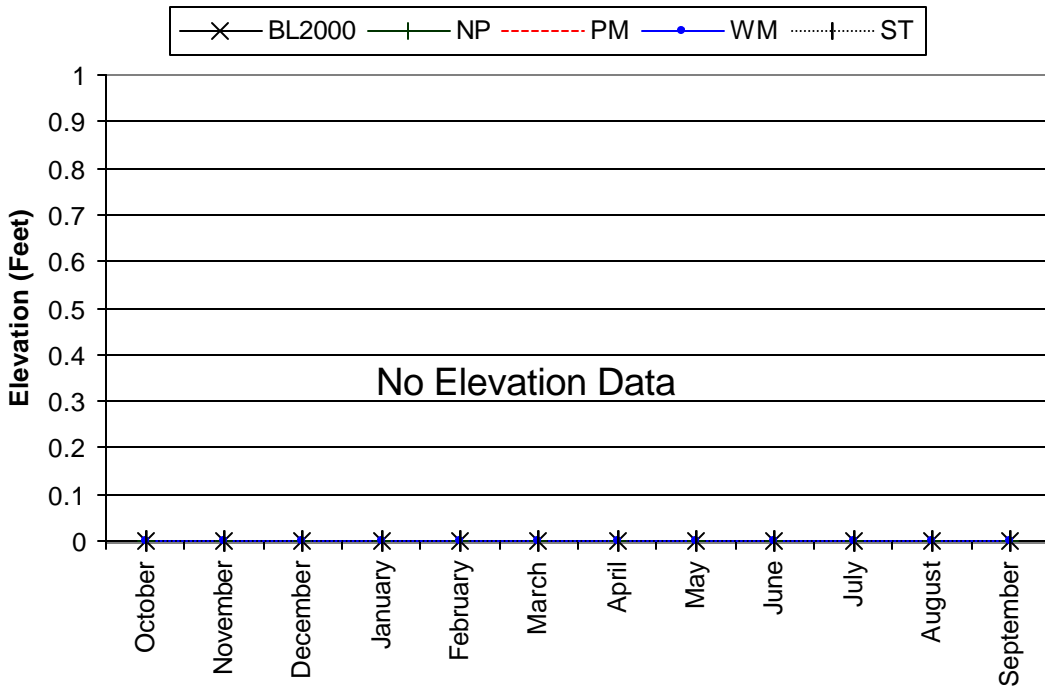
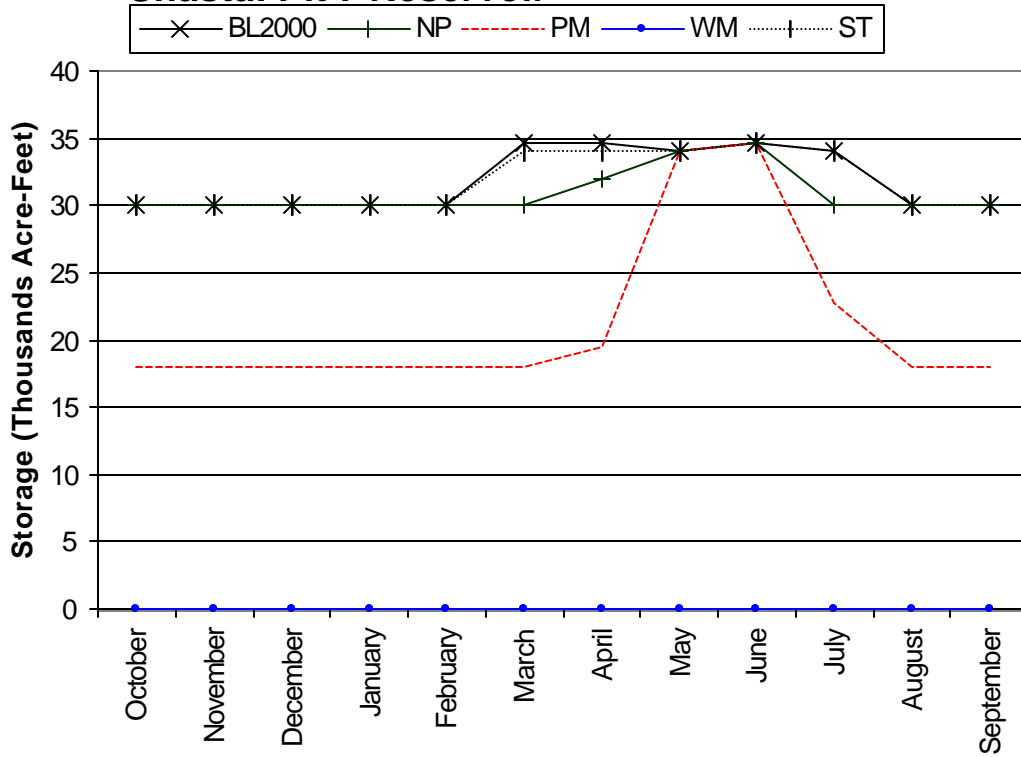
Shasta: Appendix Figure-27 Modeled storage and elevations in a critically dry year, 1977.

### Shasta: Pit 7 Reservoir



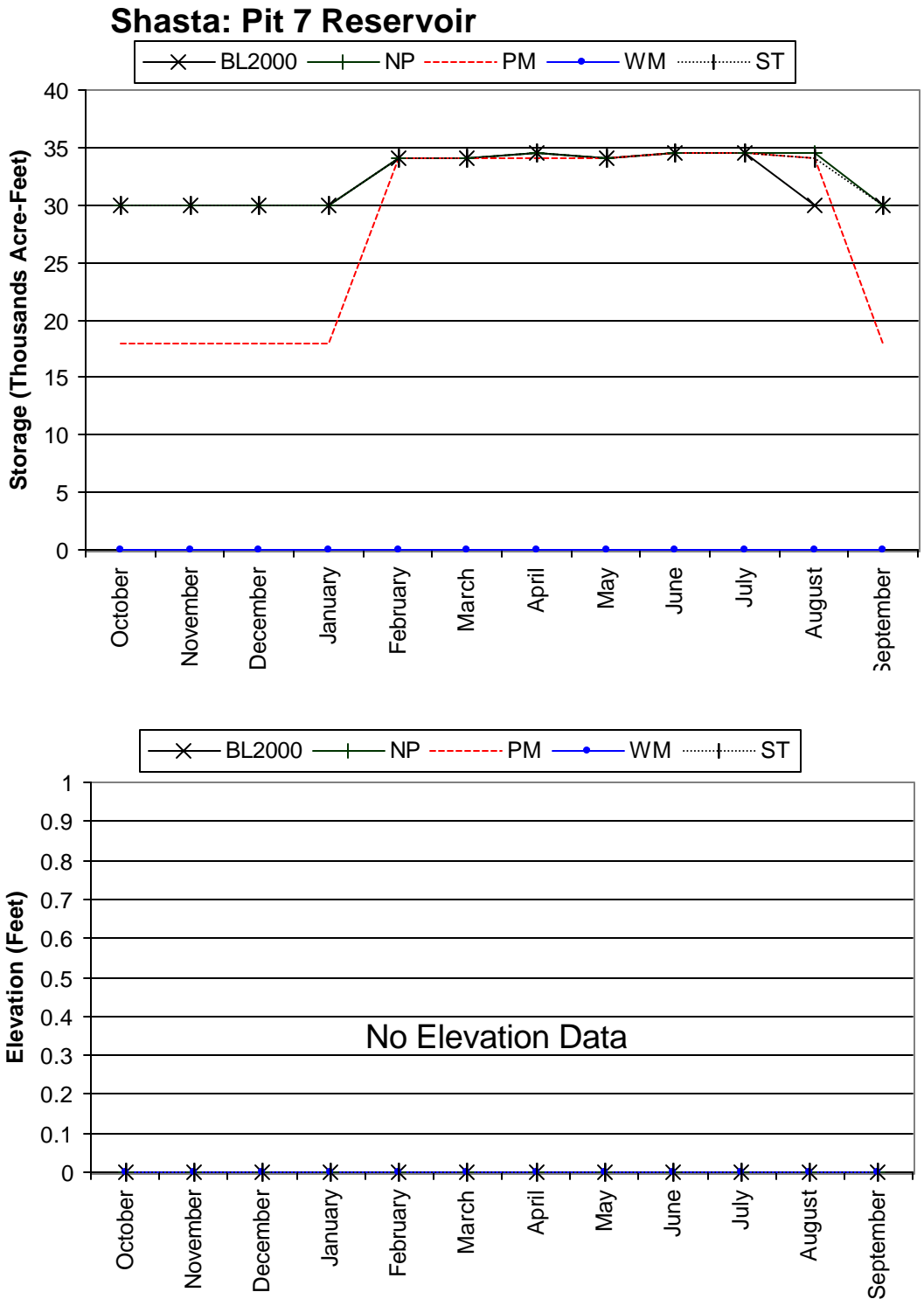
Shasta: Appendix Figure-28 Modeled storage and elevations in a dry year, 1981.

### Shasta: Pit 7 Reservoir



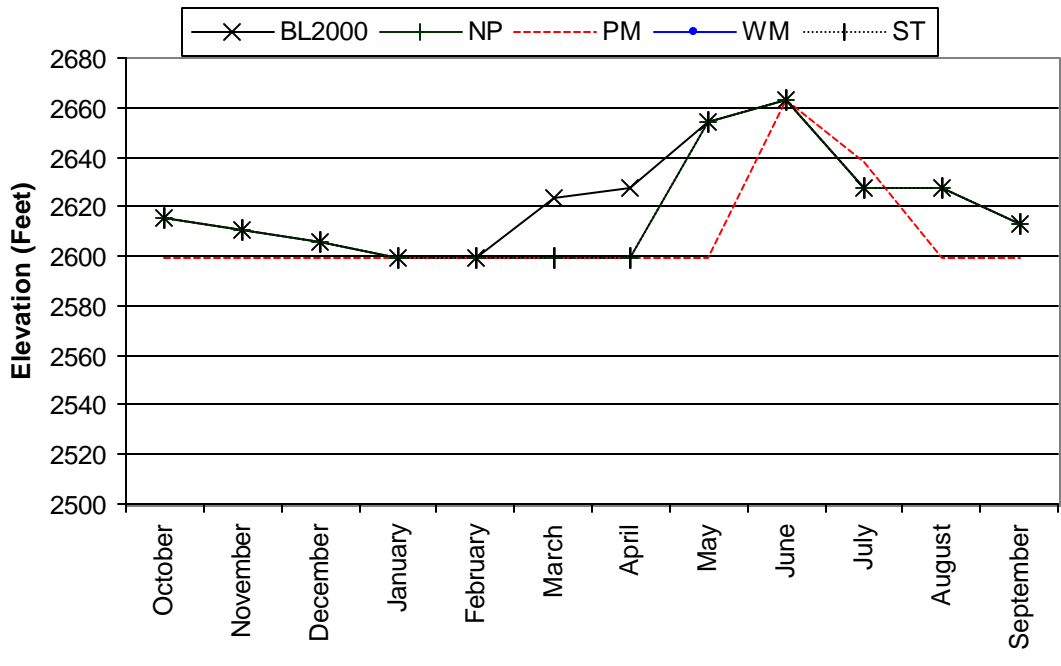
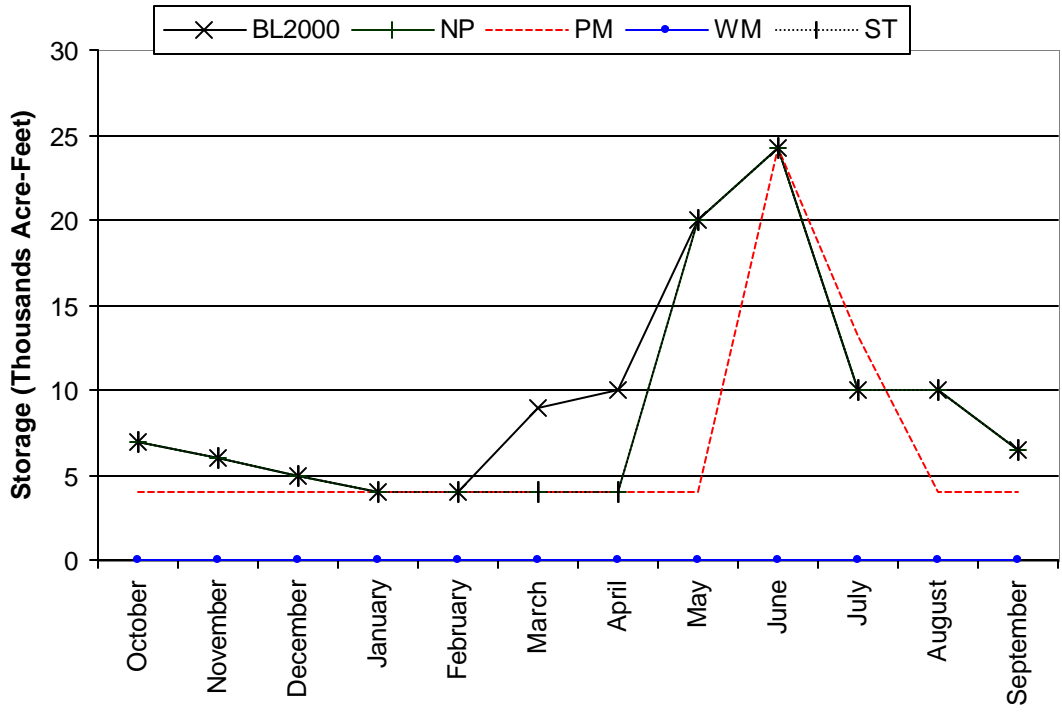
Shasta: Appendix Figure-29 Modeled storage and elevations in a normal water year, 1979.



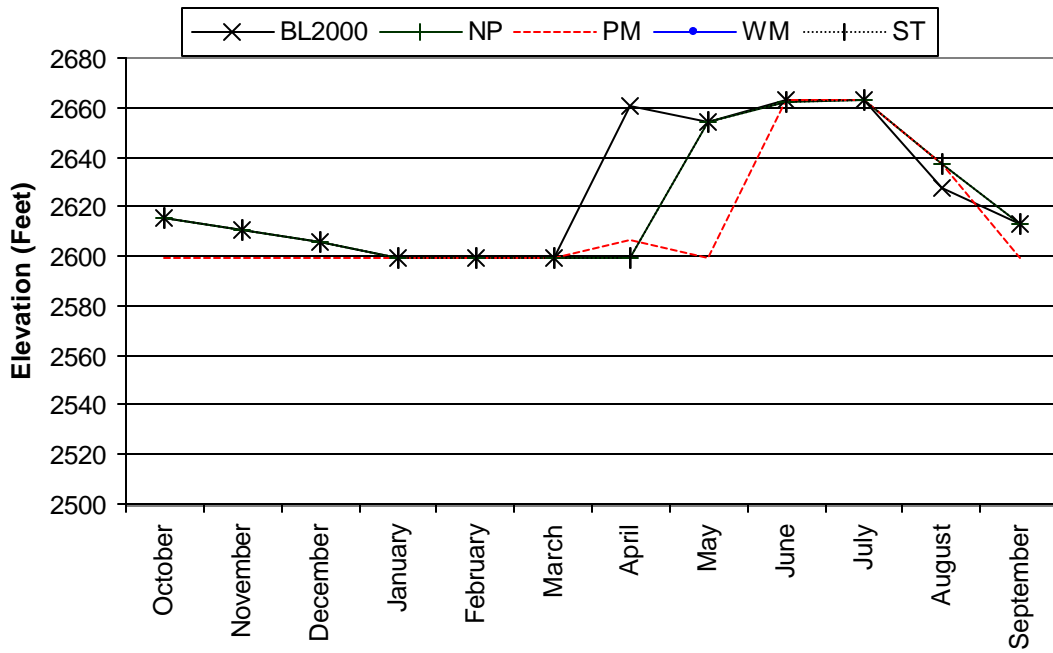
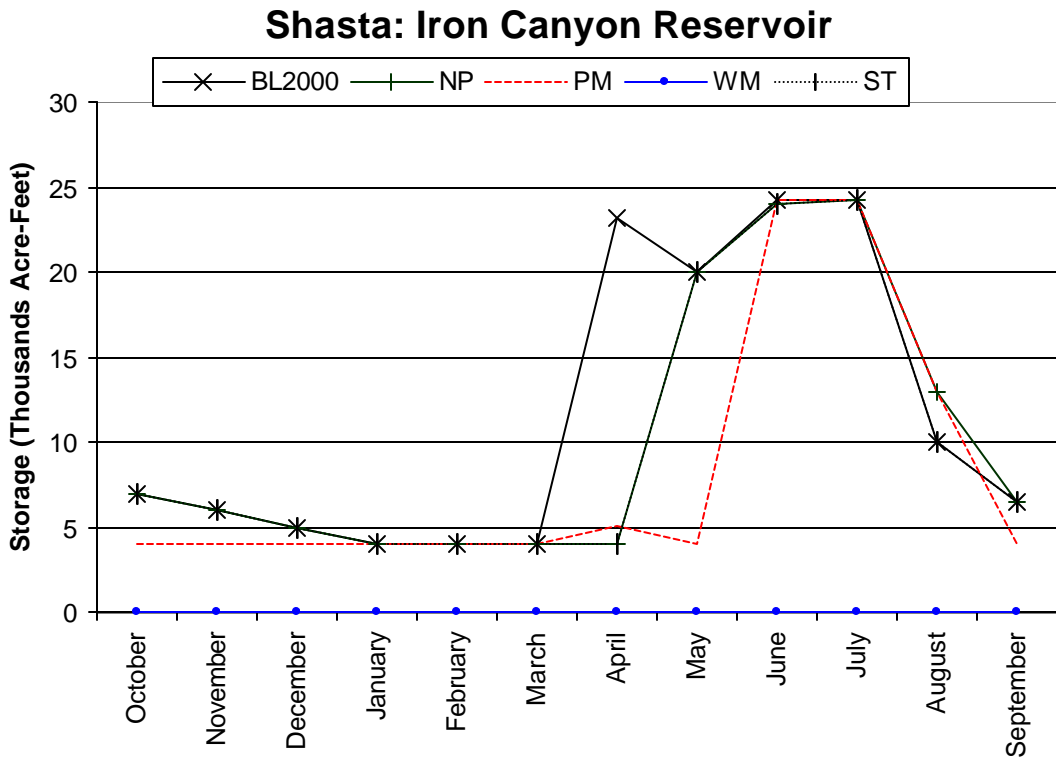


Shasta: Appendix Figure-30 Modeled storage and elevations in a wet water year, 1983.

### Shasta: Iron Canyon Reservoir

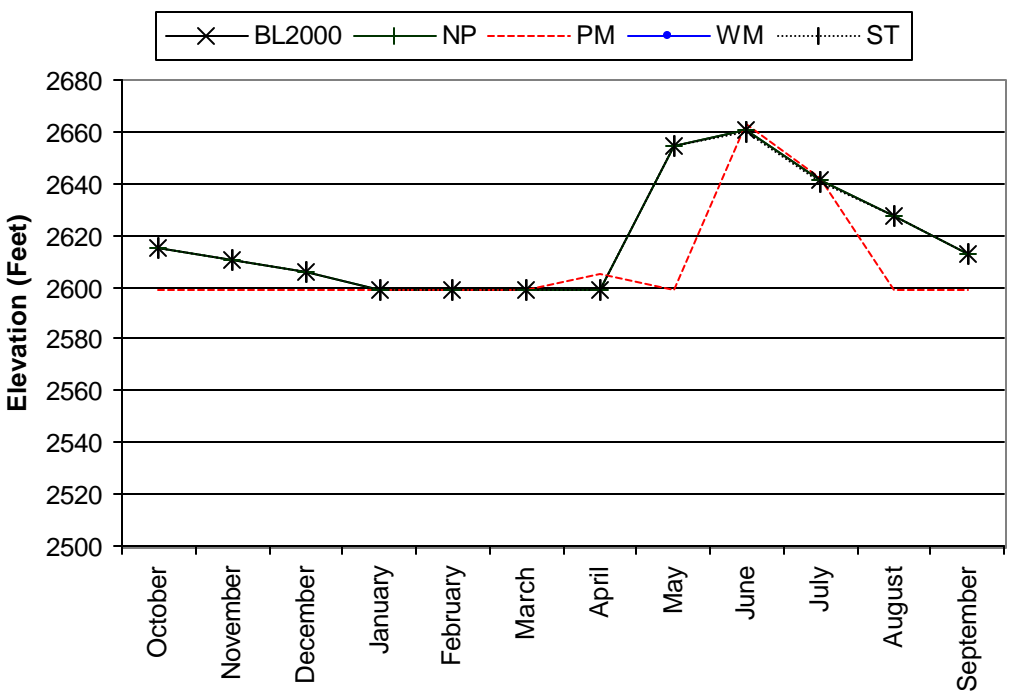
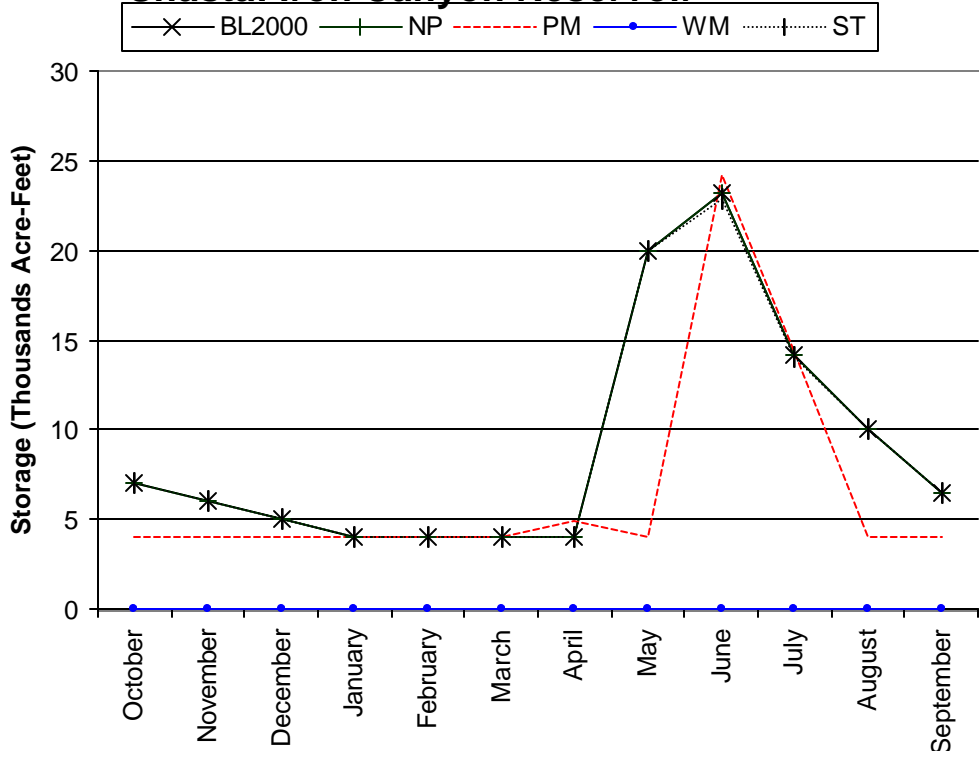


Shasta: Appendix Figure-31 Modeled storage and elevations in a critically dry year, 1977.



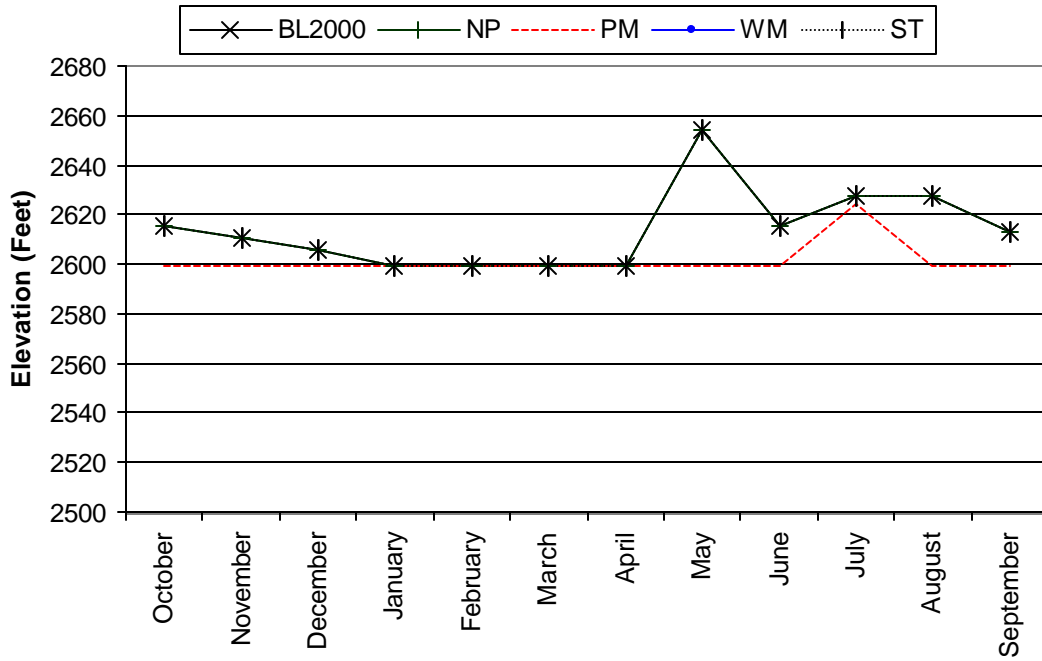
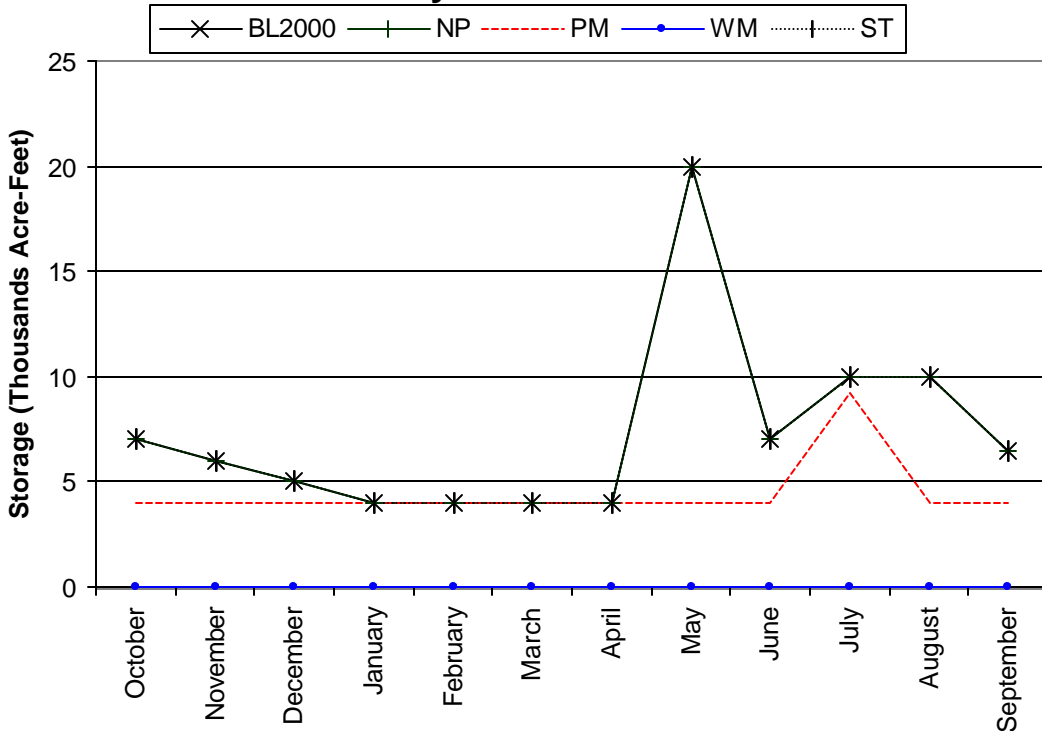
Shasta: Appendix Figure-32 Modeled storage and elevations in a dry year, 1981.

### Shasta: Iron Canyon Reservoir



Shasta: Appendix Figure-33 Modeled storage and elevations in a normal water year, 1979.

### Shasta: Iron Canyon Reservoir



Shasta: Appendix Figure-34 Modeled storage and elevations in a wet water year, 1983.

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# **DESABLA REGIONAL BUNDLE**

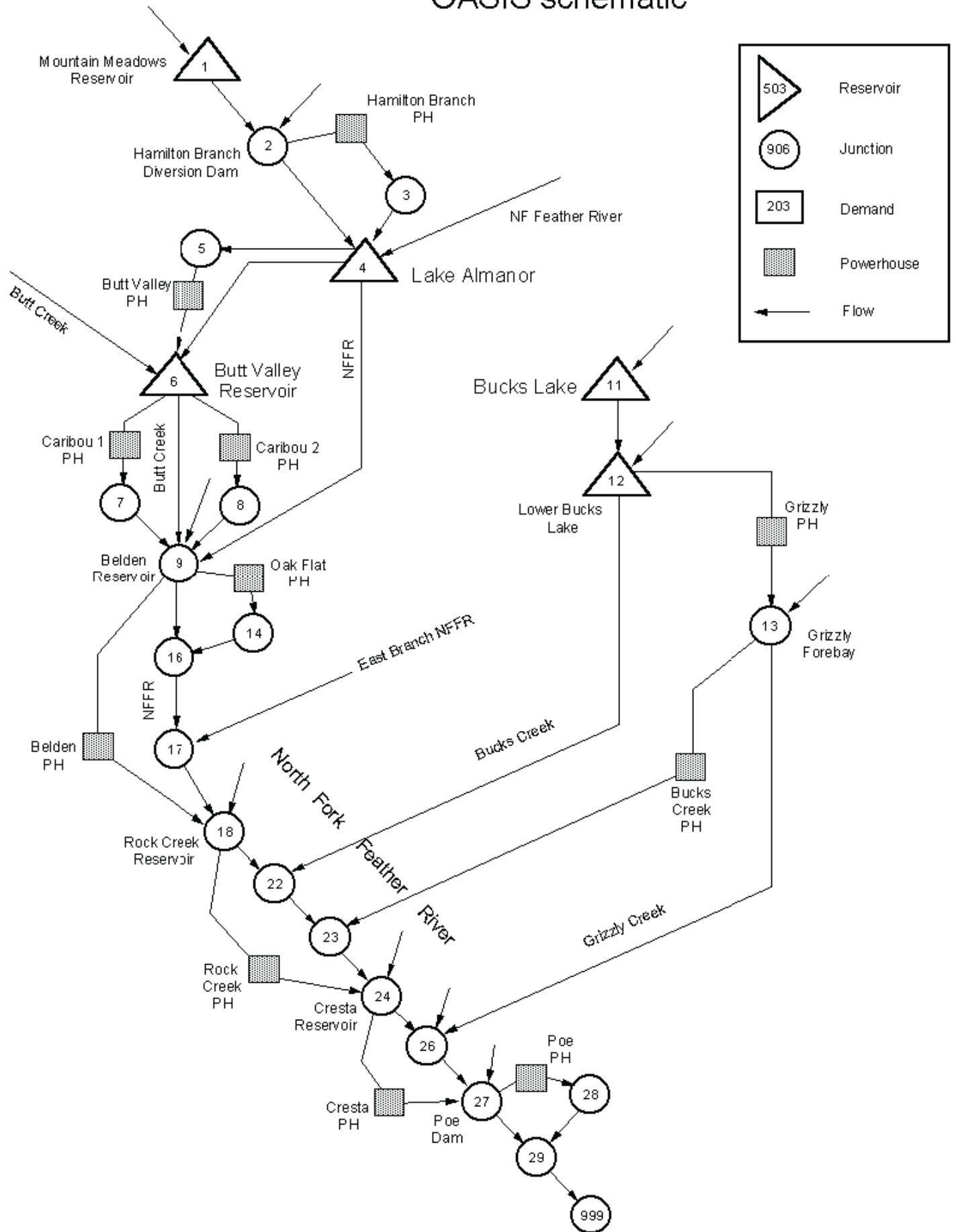
**FISHERIES TECHNICAL DATA AND FIGURES**

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# North Fork Feather River Projects

## OASIS schematic



DeSaba: Appendix Table-1 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: DeSaba: North Fork Feather River  
 Location: Node 4-9  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1976       | Critical   | 100                      | 810 | 100 | 214 | 20  | 31  | 20  | 43  | 68  | 71  | 68  | 72  | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1977       | Critical   | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1978       | bove Norm  | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1979       | elow Norm  | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 369 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1980       | bove Norm  | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1981       | Dry        | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 110 | 405 | 35  | 76  | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1982       | Wet        | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1983       | Wet        | 100                      | 971 | 100 | 214 | 344 | 527 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1984       | Wet        | 468                      | 675 | 100 | 837 | 365 | 365 | OTP | 365 | 100 | 100 | 340 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1985       | Dry        | 100                      | 100 | 100 | 214 | 431 | 459 | 100 | 214 | 65  | 48  | 90  | 48  | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1986       | Wet        | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1987       | Dry        | 100                      | 100 | 100 | 214 | 100 | 252 | 100 | 214 | 100 | 188 | 13  | 28  | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1988       | Critical   | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1989       | Dry        | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1990       | Critical   | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1991       | Critical   | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1992       | Critical   | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1993       | bove Norm  | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1994       | Critical   | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 578 | 974 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1995       | Wet        | 100                      | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 840 | 214 |
| 1996       | Wet        | 27                       | 134 | 27  | 57  | 100 | 68  | 12  | 99  | 100 | 100 | 100 | 475 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1997       | Wet        | 100                      | 100 | 100 | 214 | 100 | OTP | 100 | 214 | 45  | 45  | 142 | 96  | 100 | 100 | OTP | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1998       | Wet        | 100                      | 100 | 100 | 214 | 100 | 959 | 100 | 214 | 106 | 134 | 7   | 114 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 214 |
| 1999       | Wet        | 100                      | 677 | 100 | 214 | 69  | 121 | 14  | 102 | 113 | 113 | 298 | 214 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet        | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1976       | Critical   | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1977       | Critical   | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1978       | bove Norm  | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1979       | elow Norm  | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1980       | bove Norm  | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1981       | Dry        | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1982       | Wet        | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1983       | Wet        | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 595 | 100 | 357 | 100 | 466 | 100 | 214 |
| 1984       | Wet        | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1985       | Dry        | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1986       | Wet        | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1987       | Dry        | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1988       | Critical   | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1989       | Dry        | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1990       | Critical   | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1991       | Critical   | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1992       | Critical   | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1993       | bove Norm  | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1994       | Critical   | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1995       | Wet        | 100                    | 100 | 100 | 214 | 100 | 100 | 751 | 357 | 100 | 100 | OTP | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 470 | 100 | 214 |
| 1996       | Wet        | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1997       | Wet        | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 214 |
| 1998       | Wet        | 100                    | 100 | 100 | 214 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 100 | 100 | 357 | 100 | 203 | 100 | 357 | 100 | 528 | 100 | 214 |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes:

A. BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement (Alternative 3)



DeSabra: Appendix Table-2 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: DeSabra: North Fork Feather River  
 Location: Node 4-9  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |     |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|-----|----|----|-----|----|----|----|-----|----|-----|----|-----|----|----|----|-----|----|----|----|
|            |            | Oct                      |    |    |    | Nov |     |    |    | Dec |    |    |    | Jan |    |     |    | Feb |    |    |    | Mar |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM  | WM | ST | NP  | PM | WM | ST | NP  | PM | WM  | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | 1   | 1   | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm  | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm  | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm  | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | -   | -   | -  | -  | 1   | 1  | -  | 1  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm  | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | 1                        | -  | 1  | 1  | -   | 1   | 1  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | OTP | -  | -  | 1   | 1  | -  | -  | -   | -  | OTP | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | 1   | -   | 1  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 1 - 1 1 2 2 3 1 3 3 4 4 - - - - - - - - - -

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - - - - - - - - - - - - - - - - - - - - - - - - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |        |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|------|--------|------|
|                                        |                |              | NP                             | PM | WM | ST | NP                      | PM   | WM     | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 6                              | 5  | 8  | 6  | Less                    | Less | Potent | Less |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 0  | 0  | 0  | No                      | No   | No     | No   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 0                              | 0  | 0  | 0  | No                      | No   | No     | No   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 1                              | 0  | 1  | 1  | Less                    | No   | Less   | Less |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 3                              | 2  | 4  | 2  | Less                    | Less | Less   | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 0                              | 0  | 0  | 0  | No                      | No   | No     | No   |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 3                              | 2  | 4  | 2  | Less                    | Less | Less   | Less |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

DeSaba: Appendix Table-3 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: DeSaba: Bucks Creek  
 Location: Node 11-12  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 123 | 123 | 123 | 123 |
| 1976       | Critical   | 100                      | 100 | 93  | 100 | 100 | 100 | 91  | 100 | 115 | 100 | 65  | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1977       | Critical   | 3                        | 102 | 3   | 3   | 87  | 161 | 9   | 161 | ZBF | ZBF | ZBF | ZBF | 100 | 69  | 100 | 79  | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1978       | bove Norm  | ZBF                      | ZBF | ZBF | ZBF | 100 | 145 | 39  | 100 | 100 | 106 | 0   | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 0   | 0   | 100 | 100 | 35  | 35  | 100 |
| 1979       | elow Norm  | 100                      | 100 | 74  | 100 | 100 | 100 | 75  | 100 | 93  | 93  | 62  | 93  | ZBF | ZBF | ZBF | ZBF | 100 | 17  | 100 | 100 | 170 | 170 | 178 | 170 |
| 1980       | bove Norm  | 67                       | 67  | 66  | 67  | 100 | 100 | 74  | 100 | 100 | 100 | 74  | 100 | 100 | 0   | OTP | 100 | 100 | 37  | 73  | 100 | 100 | 126 | 126 | 100 |
| 1981       | Dry        | 100                      | 100 | 74  | 100 | 100 | 100 | 49  | 100 | 86  | 100 | 63  | 86  | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1982       | Wet        | 98                       | 98  | 88  | 98  | 64  | 23  | 83  | 64  | 100 | 62  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 61  | 61  | 100 | 100 | 88  | 88  | 100 |
| 1983       | Wet        | 100                      | 100 | 70  | 100 | 68  | 104 | 64  | 68  | 100 | 100 | 93  | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 0   | 88  | 100 | 100 | 38  | 84  | 100 |
| 1984       | Wet        | 100                      | 178 | 100 | 100 | 100 | 63  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1   | 1   | 100 |
| 1985       | Dry        | 73                       | 100 | 34  | 73  | 100 | 100 | 86  | 100 | 100 | 100 | 71  | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1986       | Wet        | 129                      | 123 | 92  | 160 | 36  | 37  | 36  | 36  | 88  | 100 | 97  | 87  | ZBF | ZBF | ZBF | ZBF | 100 | 27  | 128 | 100 | 100 | 87  | 87  | 100 |
| 1987       | Dry        | 100                      | 100 | 46  | 100 | 100 | 100 | 49  | 100 | 89  | 100 | 73  | 89  | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1988       | Critical   | 84                       | 138 | 79  | 118 | 66  | 78  | 66  | 68  | 108 | 121 | 108 | 121 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1989       | Dry        | 890                      | 890 | 22  | OTP | 210 | 210 | 0   | 204 | 175 | 175 | 0   | 163 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 0   | 0   | 100 |
| 1990       | Critical   | 80                       | 85  | 48  | 76  | 72  | 72  | 53  | 72  | 100 | 100 | 52  | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1991       | Critical   | 82                       | 109 | 1   | 82  | 59  | 89  | 42  | 59  | 100 | 148 | 53  | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1992       | Critical   | 72                       | 49  | 49  | 72  | 71  | 45  | 54  | 71  | 73  | 61  | 73  | 73  | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1993       | bove Norm  | 139                      | 155 | 0   | 139 | 360 | 496 | 13  | 360 | 158 | 141 | 0   | 158 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 18  | 68  | 97  | 97  |
| 1994       | Critical   | 100                      | 108 | 92  | 100 | 93  | 93  | 85  | 93  | 103 | 100 | 67  | 103 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1995       | Wet        | 122                      | 135 | 57  | 122 | 257 | 454 | 100 | 257 | 205 | 205 | 100 | 205 | ZBF | ZBF | ZBF | ZBF | 100 | 0   | 603 | 100 | 100 | 1   | 71  | 100 |
| 1996       | Wet        | 100                      | 100 | 74  | 100 | 100 | 117 | 80  | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 35  | 0   | 79  | 35  | 100 | 100 | 100 | 100 |
| 1997       | Wet        | 78                       | 78  | 58  | 78  | 46  | 46  | 46  | 46  | 191 | 52  | 246 | 191 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 16  | 16  | 101 |
| 1998       | Wet        | 51                       | 100 | 31  | 78  | 100 | 100 | 40  | 92  | 89  | 100 | 73  | 77  | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 123 | 49  | 396 | 123 |
| 1999       | Wet        | 66                       | 66  | 66  | 66  | 100 | 220 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |     |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet        | 85                     | 85  | 85  | 85  | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 154 | 100 | 100 | 100 | 100 | 173 | 84  | 100 | 100 | 100 |     |     |
| 1976       | Critical   | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | OTP | 100 | 100 | 136 | 136 | 100 | 100 | 100 | 100 | 149 | 100 | 157 | 157 | 628 | 157 |
| 1977       | Critical   | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 96  | 76  | 96  | 96  | 106 | 100 | 135 | 112 | ZBF | ZBF | ZBF | ZBF |     |
| 1978       | bove Norm  | 100                    | 95  | 101 | 100 | 100 | 100 | 167 | 100 | 100 | 45  | 45  | 100 | 100 | 181 | 100 | 100 | 100 | 107 | 157 | 77  | 107 | 100 | 100 | 100 | 100 |
| 1979       | elow Norm  | 96                     | 96  | 237 | 96  | 0   | 0   | 0   | 0   | 256 | 256 | 0   | 256 | 116 | 150 | 100 | 116 | 100 | 201 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1980       | bove Norm  | 100                    | 238 | 241 | 100 | 100 | 30  | 76  | 100 | 100 | 100 | 100 | 100 | 126 | 140 | 103 | 126 | 100 | 200 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 224 | 224 | 224 | 224 | 100 | 136 | 100 | 100 | 133 | 133 | 133 | 133 |     |
| 1982       | Wet        | 100                    | 101 | 101 | 100 | 100 | 228 | 228 | 100 | 100 | 101 | 101 | 100 | 139 | 139 | 100 | 139 | 108 | 201 | 100 | 108 | 100 | 100 | 100 | 100 |     |
| 1983       | Wet        | 100                    | 142 | 142 | 100 | 100 | 100 | 100 | 100 | 100 | 128 | 128 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1984       | Wet        | ZBF                    | ZBF | ZBF | ZBF | 20  | 890 | 890 | 20  | ZBF | ZBF | ZBF | ZBF | 215 | 215 | 154 | 215 | 100 | 184 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1985       | Dry        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 135 | 126 | 135 | 123 | 100 | 100 | 100 | 100 | 118 | 146 | 118 | 118 |     |
| 1986       | Wet        | 214                    | 379 | 379 | 100 | 76  | 155 | 155 | 100 | ZBF | ZBF | ZBF | ZBF | 121 | 138 | 121 | 121 | 100 | 201 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1987       | Dry        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 136 | 136 | 136 | 100 |     |
| 1988       | Critical   | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 49  | 49  | 75  | 49  | 74  | 74  | 74  | 74  | 203 | 203 | 621 | 203 |     |
| 1989       | Dry        | ZBF                    | ZBF | ZBF | ZBF | 97  | 0   | 0   | 97  | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 136 | 136 | 100 | 136 |     |
| 1990       | Critical   | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 139 | 139 | 215 | 139 | 100 | 110 | 201 | 100 | 132 | 132 | 134 | 132 |     |
| 1991       | Critical   | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 253 | 177 | 177 | 253 | 100 | 100 | 100 | 100 | 136 | 131 | 104 | 136 |     |
| 1992       | Critical   | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 48  | 53  | 83  | 48  | 66  | 84  | 66  | 66  | 136 | 136 | 315 | 136 |     |
| 1993       | bove Norm  | 100                    | 101 | 100 | 100 | 100 | 77  | 173 | 100 | 100 | 100 | 100 | 100 | 100 | 173 | 100 | 100 | 100 | 157 | 77  | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical   | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 112 | 100 | 50  | 50  | 80  | 50  | 137 | 137 | 137 | 137 |     |
| 1995       | Wet        | 100                    | 100 | 100 | 100 | 100 | 143 | 143 | 100 | 100 | 100 | 100 | 100 | 115 | 112 | 114 | 115 | 178 | 215 | 105 | 178 | 100 | 100 | 100 | 100 |     |
| 1996       | Wet        | 100                    | 100 | 100 | 100 | 100 | 90  | 229 | 100 | 100 | 100 | 100 | 100 | 142 | 193 | 105 | 142 | 101 | 206 | 100 | 101 | 100 | 100 | 100 | 100 | 100 |
| 1997       | Wet        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 223 | 223 | 162 | 223 | 100 | 169 | 100 | 100 | 113 | 113 | 109 | 113 |     |
| 1998       | Wet        | 162                    | 15  | 162 | 162 | 0   | 0   | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 164 | 206 | 100 | 164 | 100 | 100 | 100 | 100 | 100 |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: A. BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement (Alternative 3)

DeSaba: Appendix Table-4 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: DeSaba: Bucks Creek  
 Location: Node 11-12  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |     |     |     |     |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|--------------------------|-----|-----|-----|-----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Oct                      |     |     |     | Nov |    |    |    | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM | WM | ST | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |    |
| 1976       | Critical   | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |    |
| 1977       | Critical   | 1                        | -   | 1   | 1   | -   | -  | 1  | -  | ZBF | ZBF | ZBF | ZBF | -   | 1   | -   | 1   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm  | ZBF                      | ZBF | ZBF | ZBF | -   | -  | 1  | -  | -   | -   | 1   | -   | ZBF | ZBF | ZBF | ZBF | -   | 1   | 1   | -   | -   | 1   | 1   |    |
| 1979       | elow Norm  | -                        | -   | 1   | -   | -   | -  | 1  | -  | -   | -   | 1   | -   | ZBF | ZBF | ZBF | ZBF | -   | 1   | -   | -   | -   | -   | -   |    |
| 1980       | bove Norm  | 1                        | 1   | 1   | 1   | -   | -  | 1  | -  | -   | -   | 1   | -   | -   | 1   | OTP | -   | -   | 1   | 1   | -   | -   | -   | -   |    |
| 1981       | Dry        | -                        | -   | 1   | -   | -   | -  | 1  | -  | -   | -   | 1   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet        | -                        | -   | -   | -   | 1   | 1  | -  | 1  | -   | -   | -   | -   | -   | -   | -   | -   | -   | 1   | 1   | -   | -   | -   | -   |    |
| 1983       | Wet        | -                        | -   | 1   | -   | 1   | -  | 1  | 1  | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | -   | 1   | -   | -   | -   | 1   | -   |    |
| 1984       | Wet        | -                        | -   | -   | -   | -   | 1  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | 1   | 1   | -   |    |
| 1985       | Dry        | 1                        | -   | 1   | 1   | -   | -  | -  | -  | -   | -   | 1   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet        | -                        | -   | -   | -   | 1   | 1  | 1  | 1  | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | -   | 1   | -   | -   | -   | -   | -   |    |
| 1987       | Dry        | -                        | -   | 1   | -   | -   | -  | 1  | -  | -   | -   | 1   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical   | -                        | -   | 1   | -   | 1   | 1  | 1  | 1  | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Dry        | -                        | -   | 1   | OTP | -   | -  | 1  | -  | -   | -   | 1   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | -   | 1   | 1  |
| 1990       | Critical   | 1                        | -   | 1   | 1   | 1   | 1  | 1  | 1  | -   | -   | 1   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical   | -                        | -   | 1   | -   | 1   | -  | 1  | 1  | -   | -   | 1   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical   | 1                        | 1   | 1   | 1   | 1   | 1  | 1  | 1  | 1   | 1   | 1   | 1   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | bove Norm  | -                        | -   | 1   | -   | -   | -  | 1  | -  | -   | -   | 1   | -   | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | 1   | 1   |    |
| 1994       | Critical   | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -   | 1   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet        | -                        | -   | 1   | -   | -   | -  | -  | -  | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | -   | 1   | -   | -   | -   | 1   | -   |    |
| 1996       | Wet        | -                        | -   | 1   | -   | -   | -  | -  | -  | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | 1   | 1   | 1   | 1   | -   | -   | -   |    |
| 1997       | Wet        | 1                        | 1   | 1   | 1   | 1   | 1  | 1  | 1  | -   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | 1   | 1   |    |
| 1998       | Wet        | 1                        | -   | 1   | 1   | -   | -  | 1  | -  | -   | -   | 1   | 1   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | 1   |    |
| 1999       | Wet        | 1                        | 1   | 1   | 1   | -   | -  | -  | -  | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |    |

Total Number of Events: 8 4 18 8 8 7 16 8 1 3 14 2 - 2 - 1 1 8 4 1 - 8 6 -

| Water Year | Water Type | Habitat Reduction Events |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |    |    |    |     |     |     |     |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|----|----|----|-----|-----|-----|-----|
|            |            | Apr                      |     |     |     | May |     |     |     | Jun |     |     |     | Jul |    |    |    | Aug |    |    |    | Sep |     |     |     |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM  | WM  | ST  |
| 1975       | Wet        | -                        | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1976       | Critical   | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | OTP | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1977       | Critical   | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | 1  | -  | -  | -   | -  | -  | -  | ZBF | ZBF | ZBF | ZBF |
| 1978       | bove Norm  | -                        | -   | -   | -   | -   | -   | -   | -   | -   | 1   | 1   | -   | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -   | -   |     |
| 1979       | elow Norm  | -                        | -   | -   | -   | 1   | 1   | 1   | 1   | -   | -   | 1   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1980       | bove Norm  | -                        | -   | -   | -   | -   | 1   | 1   | 1   | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1981       | Dry        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1982       | Wet        | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1983       | Wet        | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1984       | Wet        | ZBF                      | ZBF | ZBF | ZBF | 1   | -   | -   | 1   | ZBF | ZBF | ZBF | ZBF | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1985       | Dry        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1986       | Wet        | -                        | -   | -   | -   | 1   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1987       | Dry        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1988       | Critical   | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1   | 1   |     |
| 1989       | Dry        | ZBF                      | ZBF | ZBF | ZBF | -   | 1   | 1   | -   | ZBF | ZBF | ZBF | ZBF | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1990       | Critical   | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1991       | Critical   | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1992       | Critical   | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 1   | 1  | -  | 1  | 1   | -  | 1  | 1  | -   | -   | -   |     |
| 1993       | bove Norm  | -                        | -   | -   | -   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -   | -   |     |
| 1994       | Critical   | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -  | -  | -  | 1   | 1  | -  | 1  | -   | -   | -   |     |
| 1995       | Wet        | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1996       | Wet        | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1997       | Wet        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1998       | Wet        | -                        | 1   | -   | -   | 1   | 1   | 1   | 1   | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |
| 1999       | Wet        | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |     |

Total Number of Events: - 1 - - 4 5 4 3 - 1 2 - 2 3 1 2 3 2 4 3 - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | PM | WM | ST | NP                      | PM     | WM     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 17                             | 14 | 48 | 18 | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 1                              | 18 | 10 | 2  | Less                    | Potent | Potent | Less   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 4                              | 15 | 12 | 3  | Less                    | Potent | Potent | Less   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 13                             | 10 | 25 | 13 | Potent                  | Less   | Potent | Potent |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 25                             | 23 | 45 | 24 | Potent                  | Potent | Potent | Potent |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 4                              | 6  | 4  | 3  | Less                    | Potent | Less   | Less   |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 16                             | 11 | 34 | 16 | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

DeSaba: Appendix Table-5 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: DeSaba: Grizzly Creek  
 Location: Node 13-26  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline <sup>A</sup> |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Oct                                 |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |            | NP                                  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | ND                                  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |
| 1976       | Critical   | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm  | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm  | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm  | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm  | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical   | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes:

A. BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement (Alternative 3)



DeSaba: Appendix Table-7 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: DeSaba: North Fork Feather River  
 Location: Node 16-17  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1976       | Critical   | 100                      | 100 | 100 | 250 | 40  | 100 | 40  | 100 | 91  | 100 | 84  | 100 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1977       | Critical   | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1978       | bove Norm  | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1979       | elow Norm  | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1980       | bove Norm  | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1981       | Dry        | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 592 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1982       | Wet        | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 86  | 108 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1983       | Wet        | 40                       | 100 | 40  | 100 | 40  | 100 | 40  | 100 | 99  | 100 | 76  | 115 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 395 | 250 |
| 1984       | Wet        | 52                       | 100 | 40  | 100 | 100 | 100 | 108 | 100 | 100 | 100 | 105 | 111 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1985       | Dry        | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 128 | 100 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1986       | Wet        | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1987       | Dry        | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 288 | 42  | 106 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1988       | Critical   | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1989       | Dry        | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1990       | Critical   | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1991       | Critical   | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1992       | Critical   | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1993       | bove Norm  | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1994       | Critical   | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 261 | 386 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1995       | Wet        | 100                      | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 8   | 135 | 98  |
| 1996       | Wet        | 100                      | 250 | 100 | 250 | 100 | 109 | 40  | 100 | 94  | 105 | 77  | 64  | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1997       | Wet        | 100                      | 100 | 100 | 250 | 100 | 250 | 100 | 250 | 208 | 240 | 100 | 268 | 100 | 100 | OTP | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1998       | Wet        | 100                      | 100 | 100 | 250 | 100 | 191 | 100 | 250 | 134 | 160 | 19  | 122 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 250 |
| 1999       | Wet        | 100                      | 250 | 100 | 250 | 42  | 106 | 42  | 106 | 250 | 250 | 250 | 309 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet        | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1976       | Critical   | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1977       | Critical   | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1978       | bove Norm  | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1979       | elow Norm  | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1980       | bove Norm  | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1981       | Dry        | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1982       | Wet        | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1983       | Wet        | 60                     | 24  | 168 | 60  | 56  | 30  | 100 | 43  | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 107 | 100 | 143 | 100 | 133 | 100 | 250 |
| 1984       | Wet        | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1985       | Dry        | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1986       | Wet        | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1987       | Dry        | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1988       | Critical   | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1989       | Dry        | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1990       | Critical   | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1991       | Critical   | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1992       | Critical   | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1993       | bove Norm  | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1994       | Critical   | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1995       | Wet        | 100                    | 9   | 100 | 106 | 100 | 20  | 133 | 99  | 100 | 100 | 714 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1996       | Wet        | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1997       | Wet        | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1998       | Wet        | 100                    | 100 | 100 | 250 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 250 |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes:

A. BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement (Alternative 3)

DeSabra: Appendix Table-8 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: DeSabra: North Fork Feather River  
 Location: Node 16-17  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|-----|----|-----|----|----|----|-----|----|----|----|
|            |            | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |     |    | Feb |    |    |    | Mar |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM  | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | 1   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | 1                        | -  | 1  | -  | 1   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | 1                        | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | 1   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | 1  | -  | -   | -  | 1  | 1  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | OTP | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | 1   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 2 - 2 - 3 - 4 - - 4 1 - - - - - - - - - 1 - -

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | 1                        | 1  | -  | 1  | 1   | 1  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | 1  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 1 2 - 1 1 2 - 1 - - - - - - - - - - - - - - - - - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |        |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|------|--------|------|
|                                        |                |              | NP                             | PM | WM | ST | NP                      | PM   | WM     | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 5                              | 0  | 10 | 1  | Less                    | No   | Potent | Less |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 1  | 0  | 0  | No                      | Less | No     | No   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 2                              | 5  | 0  | 2  | Less                    | Less | No     | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 2                              | 0  | 2  | 0  | Less                    | No   | Less   | No   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 7                              | 4  | 6  | 2  | Less                    | Less | Less   | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 2                              | 4  | 0  | 2  | Less                    | Less | No     | Less |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 5                              | 0  | 6  | 0  | Potent                  | No   | Potent | No   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

DeSaba: Appendix Table-9 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: DeSaba: North Fork Feather River  
 Location: Node 18-22  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |     |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1976       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1977       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1978       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 |     |     |
| 1979       | elow Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1980       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 104 | 102 | 100 | 100 | 141 | 104 | 100 | 100 | 100 | 100 |     |
| 1981       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1982       | Wet        | 100                      | 100 | 100 | 100 | 80  | 80  | 81  | 74  | 100 | 100 | 98  | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 165 | 102 | 171 | 81  | 171 | 171 |     |
| 1983       | Wet        | 100                      | 100 | 100 | 100 | 24  | 100 | 24  | 25  | 100 | 100 | 95  | 103 | 100 | 100 | 100 | 100 | 100 | 100 | 145 | 102 | 100 | 87  | 102 | 101 |     |
| 1984       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 13  | 111 | 100 |     |
| 1985       | Dry        | 100                      | 100 | 100 | 100 | 41  | 100 | 41  | 41  | 100 | 100 | 283 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1986       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 112 | 99  | 100 | 72  | 122 | 98  |
| 1987       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 94  | 94  | 94  | 97  |
| 1990       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1991       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 109 | 79  | 138 | 111 |
| 1994       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 103 | 100 |
| 1996       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 94  | 104 | 78  | 67  | 100 | 100 | 100 | 100 | 100 | 100 | 148 | 101 | 189 | 138 | 212 | 189 |     |
| 1997       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 106 | 100 | 107 | 99  | 87  | 120 | 99  | 100 | 100 | 100 | 100 | 100 | 39  | 100 | 100 |     |
| 1998       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 263 | 389 | 74  | 205 | 100 | 100 | 100 | 100 | 100 | 100 | 109 | 105 | 155 | 100 | 224 | 157 |     |
| 1999       | Wet        | 100                      | 100 | 100 | 100 | 51  | 105 | 30  | 100 | OTP | OTP | OTP | OTP | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |    |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |    |
| 1975       | Wet        | 105                    | 105 | 105 | 124 | 80  | 80  | 80  | 77  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 89                     | 81  | 93  | 87  | 91  | 66  | 94  | 92  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet        | 98                     | 77  | 104 | 98  | 97  | 87  | 100 | 96  | 100 | 114 | 100 | 100 | 100 | 125 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 142                    | 30  | 101 | 142 | 66  | 50  | 58  | 66  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm  | 108                    | 65  | 150 | 110 | 59  | 7   | 88  | 49  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                    | 90  | 100 | 101 | 100 | 83  | 103 | 100 | 100 | 113 | 210 | 94  | 100 | 139 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet        | 82                     | 55  | 95  | 76  | 85  | 59  | 90  | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 105                    | 40  | 183 | 110 | 67  | 36  | 74  | 61  | 100 | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND |

Footnotes:

A. BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement (Alternative 3)



DeSabra: Appendix Table-10 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: DeSabra: North Fork Feather River  
 Location: Node 18-22  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |     |     |     |     |    |     |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|-----|-----|-----|-----|----|-----|----|-----|----|----|----|-----|----|----|----|
|            |            | Oct                      |    |    |    | Nov |    |    |    | Dec |     |     |     | Jan |    |     |    | Feb |    |    |    | Mar |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM  | WM  | ST  | NP  | PM | WM  | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | 1   | 1  | -  | 1  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | -  | -  | -  | 1   | -  | 1  | 1  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | OTP | -  | -   | -  | -  | -  | 1   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | 1   | -  | 1  | 1  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | 1   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | 1   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | 1   | 1   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | 1   | -  | -  |    |
| 1998       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | 1   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | 1   | -  | 1  | -  | OTP | OTP | OTP | OTP | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - - - - 4 1 3 3 - - 2 1 - - - - - - - - 4 - -

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | 1  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm  | -                        | 1  | -  | -  | 1   | 1  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | 1  | -  | 1  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | -                        | 1  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - 5 - 1 4 6 3 4 - - - - - - - - - - - - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |      |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|------|--------|
|                                        |                |              | NP                             | PM | WM | ST | NP                      | PM     | WM   | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 4                              | 1  | 5  | 4  | Less                    | Less   | Less | Less   |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 4  | 0  | 0  | No                      | Less   | No   | No     |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 4                              | 15 | 3  | 5  | Less                    | Potent | Less | Less   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 0                              | 0  | 0  | 0  | No                      | No     | No   | No     |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 8                              | 12 | 6  | 8  | Less                    | Less   | Less | Less   |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 4                              | 11 | 3  | 5  | Less                    | Potent | Less | Potent |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 4                              | 1  | 3  | 3  | Less                    | Less   | Less | Less   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

DeSaba: Appendix Table-11 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: DeSaba: North Fork Feather River  
 Location: Node 23-24  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 102 | 102 | 102 | 102 | 171 | 171 | 171 | 156 |
| 1976       | Critical   | 100                      | 100 | 96  | 100 | 100 | 100 | 93  | 100 | 112 | 100 | 71  | 100 | 100 | 100 | 100 | 100 | 102 | 102 | 102 | 102 | 99  | 99  | 99  | 99  |
| 1977       | Critical   | 52                       | 101 | 52  | 52  | 93  | 133 | 51  | 133 | 100 | 124 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 102 | 102 | 102 |
| 1978       | bove Norm  | 100                      | 116 | 100 | 100 | 100 | 109 | 68  | 100 | 100 | 103 | 48  | 100 | 100 | 100 | 100 | 100 | 100 | 63  | 63  | 100 | 100 | 82  | 82  | 103 |
| 1979       | elow Norm  | 100                      | 100 | 84  | 100 | 100 | 100 | 80  | 100 | 94  | 94  | 70  | 94  | 100 | 100 | 152 | 100 | 100 | 57  | 100 | 100 | 135 | 135 | 139 | 135 |
| 1980       | bove Norm  | 80                       | 80  | 79  | 80  | 100 | 100 | 84  | 100 | 100 | 100 | 80  | 100 | 100 | 99  | 115 | 102 | 100 | 85  | 119 | 102 | 100 | 115 | 115 | 100 |
| 1981       | Dry        | 100                      | 100 | 84  | 100 | 100 | 100 | 60  | 100 | 89  | 100 | 72  | 89  | 100 | 100 | 100 | 100 | 102 | 102 | 102 | 102 | 100 | 100 | 178 | 100 |
| 1982       | Wet        | 99                       | 99  | 93  | 99  | 80  | 76  | 82  | 75  | 100 | 97  | 99  | 101 | 100 | 100 | 100 | 100 | 100 | 96  | 148 | 101 | 154 | 84  | 153 | 155 |
| 1983       | Wet        | 100                      | 100 | 84  | 100 | 61  | 102 | 56  | 61  | 100 | 100 | 96  | 102 | 100 | 100 | 136 | 100 | 100 | 92  | 136 | 101 | 100 | 85  | 102 | 101 |
| 1984       | Wet        | 100                      | 148 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 101 | 100 | 100 | 270 | 100 | 100 | 100 | 100 | 100 | 100 | 21  | 92  | 100 |
| 1985       | Dry        | 84                       | 100 | 59  | 84  | 78  | 100 | 72  | 78  | 100 | 100 | 98  | 100 | 100 | 100 | 100 | 103 | 103 | 103 | 103 | 98  | 98  | 98  | 98  |     |
| 1986       | Wet        | 109                      | 107 | 97  | 119 | 53  | 54  | 53  | 53  | 91  | 100 | 98  | 91  | 100 | 100 | 100 | 100 | 99  | 96  | 112 | 99  | 100 | 75  | 117 | 98  |
| 1987       | Dry        | 100                      | 100 | 67  | 100 | 100 | 100 | 60  | 100 | 91  | 100 | 78  | 91  | 100 | 100 | 100 | 100 | 102 | 102 | 102 | 102 | 99  | 99  | 102 | 99  |
| 1988       | Critical   | 93                       | 116 | 92  | 108 | 75  | 84  | 75  | 77  | 104 | 110 | 104 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 101 | 101 | 101 | 101 |
| 1989       | Dry        | 146                      | 146 | 95  | 157 | 133 | 133 | 69  | 131 | 138 | 138 | 50  | 132 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 95  | 91  | 91  | 98  |
| 1990       | Critical   | 88                       | 91  | 70  | 86  | 79  | 79  | 65  | 79  | 100 | 100 | 64  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 101 | 160 | 101 |
| 1991       | Critical   | 88                       | 106 | 37  | 88  | 69  | 92  | 57  | 69  | 100 | 131 | 70  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical   | 84                       | 70  | 70  | 84  | 80  | 62  | 68  | 80  | 81  | 73  | 81  | 81  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 155 | 100 |
| 1993       | bove Norm  | 118                      | 125 | 54  | 118 | 179 | 220 | 74  | 179 | 128 | 120 | 52  | 128 | 101 | 101 | 101 | 101 | 107 | 100 | 121 | 107 | 107 | 74  | 127 | 108 |
| 1994       | Critical   | 100                      | 105 | 95  | 100 | 95  | 95  | 89  | 95  | 102 | 100 | 76  | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 101 | 158 | 101 |
| 1995       | Wet        | 111                      | 117 | 79  | 111 | 158 | 230 | 100 | 158 | 142 | 142 | 100 | 142 | 100 | 100 | 100 | 102 | 100 | 91  | 146 | 100 | 100 | 88  | 101 | 100 |
| 1996       | Wet        | 100                      | 100 | 84  | 100 | 100 | 113 | 85  | 100 | 98  | 102 | 91  | 87  | 100 | 100 | 100 | 100 | 95  | 92  | 138 | 95  | 166 | 128 | 182 | 165 |
| 1997       | Wet        | 85                       | 85  | 71  | 85  | 61  | 61  | 61  | 61  | 108 | 103 | 106 | 110 | 99  | 88  | 118 | 99  | 100 | 100 | 100 | 100 | 100 | 46  | 64  | 100 |
| 1998       | Wet        | 69                       | 100 | 57  | 86  | 100 | 100 | 60  | 95  | 119 | 147 | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 120 | 104 | 149 | 99  | 216 | 150 |
| 1999       | Wet        | 76                       | 76  | 76  | 76  | 78  | 143 | 69  | 100 | 816 | 816 | 816 | 841 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |     |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet        | 101                    | 101 | 101 | 114 | 81  | 81  | 81  | 79  | 100 | 100 | 100 | 100 | 100 | 130 | 100 | 100 | 100 | 100 | 146 | 90  | 100 | 100 | 100 | 100 |     |
| 1976       | Critical   | 101                    | 101 | 101 | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 179 | 100 | 100 | 120 | 120 | 100 | 100 | 100 | 100 | 130 | 100 | 125 | 125 | 330 | 125 |
| 1977       | Critical   | 99                     | 99  | 99  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97  | 84  | 97  | 97  | 103 | 100 | 120 | 107 | 100 | 122 | 188 | 100 |     |
| 1978       | bove Norm  | 100                    | 98  | 100 | 100 | 100 | 100 | 122 | 100 | 100 | 85  | 85  | 100 | 100 | 142 | 100 | 100 | 105 | 138 | 85  | 105 | 100 | 100 | 100 | 100 |     |
| 1979       | elow Norm  | 98                     | 98  | 136 | 98  | 78  | 78  | 78  | 78  | 125 | 125 | 84  | 125 | 109 | 128 | 100 | 109 | 100 | 162 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1980       | bove Norm  | 100                    | 135 | 136 | 100 | 100 | 73  | 91  | 100 | 100 | 100 | 100 | 100 | 114 | 122 | 101 | 114 | 100 | 162 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1981       | Dry        | 100                    | 100 | 146 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 149 | 149 | 149 | 149 | 100 | 123 | 100 | 100 | 118 | 118 | 118 | 118 |     |
| 1982       | Wet        | 90                     | 82  | 94  | 88  | 92  | 73  | 98  | 93  | 100 | 100 | 100 | 100 | 120 | 120 | 100 | 120 | 105 | 162 | 100 | 105 | 100 | 100 | 100 | 100 |     |
| 1983       | Wet        | 98                     | 81  | 106 | 98  | 97  | 88  | 100 | 96  | 100 | 114 | 103 | 100 | 100 | 105 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1984       | Wet        | 131                    | 85  | 131 | 131 | 75  | 95  | 101 | 75  | 100 | 100 | 100 | 100 | 145 | 145 | 121 | 145 | 100 | 150 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1985       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 119 | 114 | 119 | 112 | 100 | 100 | 100 | 100 | 109 | 123 | 109 | 109 |     |
| 1986       | Wet        | 121                    | 151 | 151 | 100 | 89  | 126 | 126 | 100 | 100 | 100 | 100 | 100 | 112 | 122 | 112 | 112 | 100 | 162 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1987       | Dry        | 100                    | 100 | 119 | 100 | 100 | 100 | 100 | 100 | 100 | 173 | 216 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 120 | 120 | 120 | 100 |     |
| 1988       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 220 | 100 | 62  | 62  | 82  | 62  | 82  | 82  | 82  | 82  | 146 | 146 | 331 | 146 |     |
| 1989       | Dry        | 102                    | 100 | 100 | 102 | 98  | 58  | 58  | 98  | 131 | 161 | 100 | 136 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 120 | 120 | 100 | 120 |     |
| 1990       | Critical   | 100                    | 100 | 115 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 120 | 120 | 158 | 120 | 100 | 106 | 162 | 100 | 118 | 118 | 119 | 118 |     |
| 1991       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 149 | 124 | 124 | 149 | 100 | 100 | 100 | 100 | 120 | 117 | 102 | 120 |     |
| 1992       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 153 | 201 | 241 | 153 | 62  | 65  | 87  | 62  | 76  | 89  | 76  | 76  | 120 | 120 | 217 | 120 |     |
| 1993       | bove Norm  | 106                    | 71  | 142 | 108 | 71  | 32  | 100 | 64  | 100 | 100 | 100 | 100 | 100 | 137 | 100 | 100 | 100 | 137 | 85  | 100 | 100 | 100 | 100 | 100 |     |
| 1994       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 165 | 214 | 100 | 100 | 100 | 108 | 100 | 62  | 62  | 85  | 62  | 120 | 120 | 120 | 120 |     |
| 1995       | Wet        | 100                    | 90  | 100 | 101 | 100 | 87  | 105 | 100 | 100 | 109 | 177 | 95  | 110 | 123 | 109 | 110 | 141 | 162 | 100 | 141 | 100 | 100 | 100 | 100 |     |
| 1996       | Wet        | 84                     | 60  | 96  | 78  | 86  | 64  | 94  | 88  | 100 | 100 | 100 | 100 | 120 | 144 | 103 | 120 | 101 | 162 | 100 | 101 | 100 | 100 | 100 | 100 |     |
| 1997       | Wet        | 100                    | 124 | 108 | 100 | 100 | 180 | 197 | 100 | 100 | 100 | 100 | 100 | 149 | 149 | 124 | 149 | 100 | 141 | 100 | 100 | 108 | 108 | 105 | 108 |     |
| 1998       | Wet        | 110                    | 44  | 172 | 114 | 68  | 41  | 74  | 63  | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 137 | 162 | 100 | 137 | 100 | 100 | 100 | 100 |     |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |     |

Footnotes: A. BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM = WaterMax  
 ST = PG&E Co.'s Proposed Settlement (Alternative 3)

DeSabra: Appendix Table-12 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: DeSabra: North Fork Feather River  
 Location: Node 23-24  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | 1                        | -  | 1  | 1  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm  | -                        | -  | -  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | 1   | 1  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | 1   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm  | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | 1   | 1  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | -  | -  | -  | 1   | -  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  |    |
| 1985       | Dry        | -                        | -  | 1  | -  | 1   | -  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  |    |
| 1987       | Dry        | -                        | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | 1   | -  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | 1  | -  | 1   | 1  | 1  | 1  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | 1  | -  | 1   | -  | 1  | 1  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | 1  | 1  | -  | 1   | 1  | 1  | 1  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm  | -                        | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | 1  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | -  |    |
| 1998       | Wet        | 1                        | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | 1                        | 1  | 1  | 1  | 1   | -  | 1  | -  | 1   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 4 3 12 3 10 5 16 9 - 1 12 - - - - - - 2 1 - - 4 1 -

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm  | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm  | -                        | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | 1   | -  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | -  | 1  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | -  | 1  | -   | -  | -  | 1  | 1   | -  | -  |    |
| 1993       | bove Norm  | -                        | 1  | -  | -  | 1   | 1  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | -  | 1  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | 1  | -  | 1  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | -                        | 1  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - 3 - 1 4 7 3 5 - - - - 2 2 - 2 2 1 1 2 - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | PM | WM | ST | NP                      | PM     | WM     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 14                             | 9  | 40 | 12 | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 6  | 2  | 0  | No                      | Less   | Less   | No     |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 4                              | 14 | 4  | 6  | Less                    | Potent | Less   | Less   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 8                              | 6  | 13 | 7  | Less                    | Less   | Potent | Less   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 22                             | 21 | 32 | 22 | Potent                  | Potent | Potent | Potent |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 4                              | 10 | 3  | 6  | Less                    | Potent | Less   | Potent |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 14                             | 8  | 28 | 12 | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

DeSaba: Appendix Table-13 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: DeSaba: North Fork Feather River  
 Location: Node 24-26  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 150 | 150 | 150 | 140 |
| 1976       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1977       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1978       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 100 | 100 | 100 | 100 | 100 | 88  | 88  | 102 |
| 1979       | elow Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1980       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 112 | 102 | 100 | 88  | 115 | 102 | 100 | 100 | 965 | 100 |
| 1981       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1982       | Wet        | 100                      | 100 | 100 | 100 | 83  | 80  | 85  | 79  | 100 | 97  | 99  | 101 | 100 | 100 | 245 | 100 | 100 | 96  | 142 | 101 | 147 | 86  | 146 | 148 |
| 1983       | Wet        | 100                      | 100 | 100 | 100 | 18  | 103 | 18  | 20  | 100 | 100 | 96  | 102 | 100 | 100 | 100 | 100 | 100 | 92  | 132 | 101 | 100 | 86  | 101 | 101 |
| 1984       | Wet        | 100                      | 100 | 100 | 100 | 100 | 95  | 100 | 100 | 100 | 100 | 100 | 101 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 9   | 91  | 100 | 100 |
| 1985       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 83  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1986       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 96  | 112 | 99  | 100 | 79  | 115 | 98  |
| 1987       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 94  | 94  | 98  |
| 1990       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1991       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 106 | 78  | 122 | 107 |
| 1994       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 100 | 85  | 232 | 131 | 100 | 89  | 101 | 100 |
| 1996       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97  | 102 | 90  | 85  | 100 | 100 | 100 | 100 | 96  | 93  | 134 | 96  | 166 | 128 | 182 | 165 |
| 1997       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 109 | 103 | 107 | 111 | 99  | 89  | 117 | 99  | 100 | 15  | 100 | 100 | 100 | 13  | 59  | 100 |
| 1998       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 233 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 114 | 103 | 149 | 99  | 216 | 150 |
| 1999       | Wet        | 100                      | 100 | 100 | 100 | 100 | 349 | 100 | 100 | OTP | OTP | OTP | OTP | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | 101                    | 101 | 101 | 112 | 84  | 84  | 84  | 83  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm  | 140                    | 31  | 33  | 140 | 63  | 11  | 11  | 37  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm  | 100                    | 100 | 425 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 91                     | 84  | 94  | 89  | 92  | 76  | 98  | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet        | 98                     | 80  | 106 | 98  | 97  | 87  | 100 | 96  | 100 | 114 | 103 | 100 | 100 | 396 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm  | 106                    | 75  | 137 | 107 | 74  | 38  | 100 | 67  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                    | 91  | 100 | 101 | 100 | 88  | 105 | 100 | 100 | 109 | 175 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet        | 84                     | 60  | 96  | 78  | 87  | 67  | 95  | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 109                    | 49  | 165 | 113 | 71  | 46  | 77  | 66  | 100 | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: A. BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement (Alternative 3)

DeSabra: Appendix Table-14 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: DeSabra: North Fork Feather River  
 Location: Node 24-26  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |     |     |     |     |    |     |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|-----|-----|-----|-----|----|-----|----|-----|----|----|----|-----|----|----|----|
|            |            | Oct                      |    |    |    | Nov |    |    |    | Dec |     |     |     | Jan |    |     |    | Feb |    |    |    | Mar |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM  | WM  | ST  | NP  | PM | WM  | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | 1  | -  | 1  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | -  | -  | -  | 1   | -  | 1  | 1  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | OTP | -  | -   | -  | -  | -  | 1   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | 1   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | 1   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | 1  | -   | -  | -  |    |
| 1998       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -   | -  | -   | -  | -  | -  | 1   | 1  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | OTP | OTP | OTP | OTP | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - - - - 1 1 1 2 - - - - - - - - - 1 - - - 4 1 -

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm  | -                        | 1  | 1  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm  | -                        | 1  | -  | -  | 1   | 1  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | 1  | -  | 1  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | -                        | 1  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - 4 1 1 3 5 2 3 - - - - - - - - - - - - - - - - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |      |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|------|------|
|                                        |                |              | NP                             | PM | WM | ST | NP                      | PM     | WM   | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 1                              | 1  | 1  | 2  | Less                    | Less   | Less | Less |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 5  | 1  | 0  | No                      | Less   | Less | No   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 3                              | 13 | 4  | 4  | Less                    | Potent | Less | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 0                              | 0  | 0  | 0  | No                      | No     | No   | No   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 4                              | 10 | 4  | 6  | Less                    | Less   | Less | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 3                              | 9  | 3  | 4  | Less                    | Potent | Less | Less |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 1                              | 1  | 1  | 2  | Less                    | Less   | Less | Less |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

DeSaba: Appendix Table-15 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: DeSaba: North Fork Feather River  
 Location: Node 27-29  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 134 | 134 | 134 | 127 |
| 1976       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 77  | 100 | 77  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1977       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1978       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 100 | 100 | 100 | 100 | 100 | 91  | 91  | 101 |
| 1979       | elow Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1980       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 110 | 101 | 100 | 91  | 112 | 101 | 100 | 100 | OTP | 100 |
| 1981       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 296 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1982       | Wet        | 100                      | 100 | 100 | 100 | 85  | 83  | 87  | 82  | 100 | 97  | 99  | 101 | 100 | 100 | OTP | 100 | 100 | 97  | 136 | 101 | 139 | 88  | 137 | 139 |
| 1983       | Wet        | 100                      | 100 | 100 | 100 | 32  | 103 | 17  | 34  | 100 | 100 | 96  | 102 | 100 | 100 | 100 | 100 | 100 | 94  | 128 | 101 | 100 | 87  | 101 | 101 |
| 1984       | Wet        | 100                      | 100 | 100 | 100 | 100 | 94  | 100 | 100 | 100 | 100 | 100 | 101 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 23  | 92  | 100 | 100 |
| 1985       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 81  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1986       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 96  | 112 | 99  | 100 | 82  | 113 | 99  |
| 1987       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97  | 95  | 95  | 99  |
| 1990       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1991       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 82  | 119 | 106 |
| 1994       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 100 | 96  | 138 | 109 | 100 | 90  | 101 | 100 |
| 1996       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 98  | 101 | 93  | 89  | 100 | 100 | 100 | 100 | 96  | 94  | 129 | 97  | 155 | 124 | 169 | 155 |
| 1997       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 109 | 103 | 107 | 111 | 99  | 90  | 116 | 99  | 100 | 18  | 100 | 100 | 100 | 4   | 74  | 100 |
| 1998       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 111 | 100 | 100 | 110 | 102 | 142 | 99  | 200 | 143 |
| 1999       | Wet        | 100                      | 100 | 100 | 100 | 100 | 734 | 100 | 100 | OTP | OTP | OTP | OTP | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | 101                    | 101 | 101 | 108 | 87  | 87  | 87  | 85  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm  | 121                    | 64  | 65  | 121 | 76  | 11  | 26  | 59  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm  | 100                    | 100 | OTP | 100 | 100 | 100 | 679 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 92                     | 85  | 95  | 90  | 93  | 78  | 99  | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet        | 98                     | 81  | 105 | 98  | 97  | 88  | 100 | 96  | 100 | 113 | 102 | 100 | 100 | 977 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 423                    | 100 | 423 | 423 | 36  | 20  | 102 | 36  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 163                    | 15  | 238 | 163 | 20  | 20  | 53  | 20  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm  | 105                    | 79  | 131 | 106 | 78  | 47  | 100 | 72  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                    | 92  | 100 | 101 | 100 | 88  | 104 | 100 | 100 | 108 | 166 | 96  | 100 | 230 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet        | 85                     | 63  | 96  | 80  | 89  | 71  | 95  | 90  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 107                    | 59  | 153 | 110 | 75  | 53  | 80  | 71  | 100 | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: A. BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement (Alternative 3)



DeSaba: Appendix Table-17 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: DeSaba: North Fork Feather River  
 Location: Node 2-4  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 100                      | 100 | 100 | 100 | 100 | 86  | 99  | 99  | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 125 | 100 | 100 | 100 | 100 | 100 | 144 | 144 |    |
| 1985       | Dry        | 100                      | 100 | 100 | 100 | 111 | 111 | 116 | 111 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 91  | 100 |    |
| 1996       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 67  | 67  | 67  | 67  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 100 | 100 | 100 | 130 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 100                    | 45  | 45  | 100 | 100 | 98  | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1985       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | OTP                    | 100 | OTP | OTP | 16  | 5   | 5   | 5   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1987       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1988       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                    | 100 | 94  | 100 | 100 | 100 | 115 | 100 | 100 | 103 | 103 | 100 | 114 | 108 | 100 | 114 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes:

A. BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement (Alternative 3)



DeSabra: Appendix Table-18 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: DeSabra: North Fork Feather River  
 Location: Node 2-4  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - - - - - 1 1 1 1 - - - - - - - - - - - - - - - -

| Water Year | Water Type | Habitat Reduction Events |    |     |     |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|-----|-----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Apr                      |    |     |     | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |            | NP                       | PM | WM  | ST  | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm  | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm  | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm  | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | 1  | 1   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | OTP                      | -  | OTP | OTP | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm  | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - 1 1 - 1 1 1 1 - - - - - - - - - - - - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |      |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|------|------|------|
|                                        |                |              | NP                             | PM | WM | ST | NP                      | PM   | WM   | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 1                              | 1  | 1  | 1  | Less                    | Less | Less | Less |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 1                              | 2  | 2  | 1  | Less                    | Less | Less | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 1                              | 2  | 2  | 1  | Less                    | Less | Less | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 1                              | 2  | 2  | 1  | Less                    | Less | Less | Less |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

DeSaba: Appendix Table-19 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: DeSaba: Hamilton Branch  
 Location: Node 1-2  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |
| 1976       | Critical   | 100                      | 100 | 100 | 100 | 91  | 91  | 91  | 91  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 34                       | 34  | 206 | 34  | 105 | 105 | 49  | 105 | 216 | 216 | 100 | 216 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                      | 123 | 100 | 100 | 77  | 95  | 77  | 77  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 100                      | 100 | 100 | 100 | 100 | 89  | 99  | 99  | 100 | 100 | 97  | 100 | 100 | 100 | 108 | 100 | 100 | 100 | 100 | 100 | 127 | 127 | 100 |    |
| 1985       | Dry        | 100                      | 100 | 100 | 100 | 104 | 104 | 106 | 104 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 138 | 138 | 138 | 138 |    |
| 1986       | Wet        | 100                      | 100 | 100 | 100 | 94  | 94  | 98  | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 114 | 100 | 100 |    |
| 1987       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 12                       | 12  | 22  | 12  | 147 | 147 | 147 | 147 | 112 | 112 | 108 | 112 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 15                       | 76  | 100 | 15  | 153 | 115 | 100 | 153 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 20                       | 20  | 20  | 20  | 162 | 162 | 162 | 162 | 274 | 274 | 274 | 274 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 15                       | 26  | 15  | 26  | 104 | 100 | 104 | 100 | 167 | 164 | 167 | 164 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 91  | 100 |    |
| 1996       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet        | 100                      | 100 | 100 | 100 | 106 | 106 | 106 | 106 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                      | 100 | 100 | 100 | 117 | 117 | 117 | 117 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 139 | 139 | 139 | 139 |     |
| 1976       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1977       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1978       | bove Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1979       | elow Norm  | 273                    | 273 | 273 | 273 | 26  | 26  | 26  | 26  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 80  | 80  | 80  | 80  | OTP | OTP | OTP | OTP |
| 1980       | bove Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 91  | 71  | 91  | 91  | 237 | 237 | 237 | 237 |
| 1981       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1982       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1983       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 100 | 100 | 100 | 122 | 100 | 100 | 100 | 71  | 104 | 104 | 104 | 97  | 100 | 100 |
| 1984       | Wet        | 100                    | 69  | 69  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 67  | 67  | 67  | 67  | 482 | 482 | 408 | 482 |
| 1985       | Dry        | 56                     | 56  | 56  | 56  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 71  | 71  | 71  | 71  | OTP | OTP | OTP | OTP |
| 1986       | Wet        | 163                    | 100 | 171 | 171 | 66  | 61  | 61  | 61  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1987       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1988       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1989       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1990       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 45  | 45  | 45  | 45  | 116 | 116 | 116 | 116 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1991       | Critical   | OTP                    | OTP | OTP | OTP | 6   | 6   | 6   | 6   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1992       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1993       | bove Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 72  | 72  | 72  | 72  | OTP | OTP | OTP | OTP |
| 1994       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 71  | 100 | 100 | 100 | 131 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1995       | Wet        | 100                    | 100 | 95  | 100 | 100 | 100 | 116 | 100 | 100 | 103 | 103 | 100 | 110 | 105 | 100 | 110 | 72  | 72  | 100 | 72  | 100 | 100 | 100 |     |
| 1996       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 83  | 83  | 83  | 83  | 127 | 127 | 127 | 127 |
| 1997       | Wet        | 123                    | 123 | 122 | 123 | 83  | 83  | 84  | 83  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 70  | 70  | 70  | 70  | 162 | 162 | 162 | 162 |
| 1998       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: A. BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM = WaterMax  
 ST = PG&E Co.'s Proposed Settlement (Alternative 3)



DeSaba: Appendix Table-21 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: DeSaba: Bucks Creek  
 Location: Node 12-22  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 901 | 100 | 15  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 100 |    |
| 1979       | elow Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 4   | 100 | 100 | 100 | OTP | 100 | 100 | 0   | 57  | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 100                      | 100 | 100 | 100 | 53  | 1   | 77  | 53  | 100 | 52  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 15  | 15  | 100 | 100 | 3   | 3   |    |
| 1983       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1   | 66  | 100 | 100 | 19  | 80  |    |
| 1984       | Wet        | 100                      | 100 | 100 | 100 | 100 | 2   | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 36  | 125 | 100 | 100 | 74  | 74  |    |
| 1987       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 40  | 40  | 100 |    |
| 1990       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm  | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 0   | 62  |    |
| 1994       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 107 | 99  | 16  | 107 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 5   | 72  |     |    |
| 1996       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1   | 1   | 65  | 1   | 100 | 100 |     |    |
| 1997       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 235 | 29  | 316 | 235 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | 100 |    |
| 1977       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm  | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 100                    | 100 | 100 | 100 | 100 | OTP | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 132 | 132 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | 100 |    |
| 1989       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | 100 |    |
| 1993       | bove Norm  | 100                    | 100 | 100 | 100 | 100 | 72  | 189 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                    | 100 | 100 | 100 | 100 | 147 | 147 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet        | 100                    | 100 | 100 | 100 | 100 | 26  | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes:

A. BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement (Alternative 3)



DeSabra : Appendix Table-23 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

>100%

Site: Hamilton Branch: Mtn. Meadows Reservoir  
 Location: Node 1  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

SIG =Potentially Significant  
 LTS =Less than Significant

| Water Year | Water Type | Cumulative Storage (May-October) A<br>Thousands of Acre-feet |      |      |      |      | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|------------|--------------------------------------------------------------|------|------|------|------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |            | BL2000                                                       | NP   | PM   | WM   | ST   | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST  |
| 1975       | Wet        | 84.2                                                         | 82.8 | 82.8 | 82.8 | 82.8 | 98.3%                  | 98.3%  | 98.3%  | 98.3%  | LTS                     | LTS | LTS | LTS |
| 1976       | Critical   | 53.4                                                         | 54   | 54   | 52.4 | 54   | >100%                  | >100%  | 98.1%  | >100%  | No                      | No  | LTS | No  |
| 1977       | Critical   | 28.6                                                         | 28.6 | 28.6 | 28.6 | 28.6 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1978       | bove Norm  | 78.7                                                         | 78.7 | 78.7 | 78.7 | 78.7 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1979       | elow Norm  | 77.2                                                         | 78.3 | 78.3 | 78.3 | 78.3 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1980       | bove Norm  | 79.6                                                         | 78.5 | 81.2 | 78.5 | 78.5 | 98.6%                  | >100%  | 98.6%  | 98.6%  | LTS                     | No  | LTS | LTS |
| 1981       | Dry        | 68                                                           | 68   | 68   | 68   | 68   | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1982       | Wet        | 77.4                                                         | 77.4 | 77.4 | 77.4 | 77.4 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1983       | Wet        | 88.1                                                         | 88.1 | 71.2 | 86.9 | 86.9 | 100.0%                 | 80.8%  | 98.6%  | 98.6%  | No                      | LTS | LTS | LTS |
| 1984       | Wet        | 79.6                                                         | 82.2 | 82.2 | 82.6 | 82.2 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1985       | Dry        | 77.4                                                         | 78.8 | 78.8 | 78.8 | 78.8 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1986       | Wet        | 79.6                                                         | 79.6 | 79.6 | 79.6 | 79.6 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1987       | Dry        | 59.3                                                         | 60.1 | 60.1 | 60   | 60.1 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1988       | Critical   | 50.7                                                         | 52   | 51.1 | 50.7 | 52   | >100%                  | >100%  | 100.0% | >100%  | No                      | No  | No  | No  |
| 1989       | Dry        | 77                                                           | 77   | 77   | 77   | 77   | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1990       | Critical   | 59.1                                                         | 61.6 | 61.6 | 61.6 | 61.6 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1991       | Critical   | 77.7                                                         | 78.4 | 78.3 | 78.4 | 78.3 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1992       | Critical   | 51                                                           | 51   | 51   | 51   | 51   | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1993       | bove Norm  | 77.3                                                         | 78.9 | 78.9 | 78.9 | 78.9 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1994       | Critical   | 57.6                                                         | 57.6 | 57.6 | 59.2 | 57.6 | 100.0%                 | 100.0% | >100%  | 100.0% | No                      | No  | No  | No  |
| 1995       | Wet        | 82.1                                                         | 79.9 | 78.9 | 83.1 | 79.9 | 97.3%                  | 96.1%  | >100%  | 97.3%  | LTS                     | LTS | No  | LTS |
| 1996       | Wet        | 79.6                                                         | 81.5 | 81.5 | 81.5 | 81.5 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1997       | Wet        | 77.8                                                         | 81.6 | 81.6 | 81.6 | 81.6 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1998       | Wet        | 82.4                                                         | 82.4 | 82.4 | 82.4 | 82.4 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |

Footnote:

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

DeSabra : Appendix Table-24 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: Hamilton Branch: Mtn. Meadows Reservoir  
 Location: Node 1  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 3                                                        | 0    | 3   | 0    | 3   | 0    | 3   | 0    | 3   | 0    |
| 1976       | Critical   | 0                                                        | -1   | 0   | -1   | 0   | -1   | 0   | -1   | 0   | -1   |
| 1977       | Critical   | 0                                                        | -2   | 0   | -2   | 0   | -2   | 0   | -2   | 0   | -2   |
| 1978       | bove Norm  | 3                                                        | 0    | 3   | 0    | 3   | 0    | 3   | 0    | 3   | 0    |
| 1979       | elow Norm  | 1                                                        | 0    | 2   | 0    | 2   | 0    | 2   | 0    | 2   | 0    |
| 1980       | bove Norm  | 1                                                        | 0    | 1   | 0    | 1   | 0    | 1   | 0    | 1   | 0    |
| 1981       | Dry        | 1                                                        | -1   | 1   | -1   | 1   | -1   | 1   | -1   | 1   | -1   |
| 1982       | Wet        | 3                                                        | 0    | 3   | 0    | 3   | 0    | 3   | 0    | 3   | 0    |
| 1983       | Wet        | 3                                                        | 0    | 3   | 0    | 3   | 0    | 3   | 0    | 3   | 0    |
| 1984       | Wet        | 2                                                        | 0    | 2   | 0    | 2   | 0    | 2   | 0    | 2   | 0    |
| 1985       | Dry        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1986       | Wet        | 0                                                        | 0    | 1   | 0    | 1   | 0    | 1   | 0    | 1   | 0    |
| 1987       | Dry        | 0                                                        | -1   | 0   | -1   | 0   | -1   | 0   | -1   | 0   | -1   |
| 1988       | Critical   | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1989       | Dry        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1990       | Critical   | 0                                                        | -1   | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1991       | Critical   | 0                                                        | 0    | 1   | 0    | 1   | 0    | 1   | 0    | 1   | 0    |
| 1992       | Critical   | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1993       | bove Norm  | 3                                                        | 0    | 3   | 0    | 3   | 0    | 3   | 0    | 3   | 0    |
| 1994       | Critical   | 0                                                        | -1   | 0   | -1   | 0   | -1   | 0   | -1   | 0   | -1   |
| 1995       | Wet        | 3                                                        | 0    | 3   | 0    | 3   | 0    | 2   | 0    | 3   | 0    |
| 1996       | Wet        | 3                                                        | 0    | 3   | 0    | 3   | 0    | 3   | 0    | 3   | 0    |
| 1997       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1998       | Wet        | 3                                                        | 0    | 3   | 0    | 3   | 0    | 3   | 0    | 3   | 0    |

Footnote:  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

DeSaba: Appendix Table-25 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: NF Feather River: Lake Almanor  
 Location: Node 4  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A<br>Thousands of Acre-feet |        |        |        |        | Percentage of Baseline |       |       |       | Significance Evaluation |     |     |     |
|------------|-----------------|--------------------------------------------------------------|--------|--------|--------|--------|------------------------|-------|-------|-------|-------------------------|-----|-----|-----|
|            |                 | BL2000                                                       | NP     | PM     | WM     | ST     | NP                     | PM    | WM    | ST    | NP                      | PM  | WM  | ST  |
| 1975       | Wet             | 6269.7                                                       | 6038.1 | 5878.8 | 6343.6 | 6014.9 | 96.3%                  | 93.8% | >100% | 95.9% | LTS                     | LTS | No  | LTS |
| 1976       | Critical        | 5087                                                         | 4953.4 | 4112.3 | 4914.9 | 4901.9 | 97.4%                  | 80.8% | 96.6% | 96.4% | LTS                     | LTS | LTS | LTS |
| 1977       | Critical        | 4565.9                                                       | 4744.4 | 3572.4 | 4033.4 | 4689.5 | >100%                  | 78.2% | 88.3% | >100% | No                      | SIG | LTS | No  |
| 1978       | bove Norm       | 6004.4                                                       | 5799.4 | 5075.7 | 6126.7 | 5831.1 | 96.6%                  | 84.5% | >100% | 97.1% | LTS                     | LTS | No  | LTS |
| 1979       | elow Norm       | 5328.3                                                       | 5212.1 | 4281.2 | 5916.6 | 5184   | 97.8%                  | 80.3% | >100% | 97.3% | LTS                     | LTS | No  | LTS |
| 1980       | bove Norm       | 5993.4                                                       | 5832.6 | 5083.5 | 6038.4 | 5791.7 | 97.3%                  | 84.8% | >100% | 96.6% | LTS                     | LTS | No  | LTS |
| 1981       | Dry             | 5280.1                                                       | 5132.6 | 4164.3 | 5873   | 5036.2 | 97.2%                  | 78.9% | >100% | 95.4% | LTS                     | SIG | No  | LTS |
| 1982       | Wet             | 6364.3                                                       | 6106.5 | 5851   | 6350.8 | 6116.3 | 95.9%                  | 91.9% | 99.8% | 96.1% | LTS                     | LTS | LTS | LTS |
| 1983       | Wet             | 6446.7                                                       | 6428.3 | 6080.9 | 6635.4 | 6430.4 | 99.7%                  | 94.3% | >100% | 99.7% | LTS                     | LTS | No  | LTS |
| 1984       | Wet             | 6235.3                                                       | 5962.8 | 5763.2 | 6211.8 | 5952.7 | 95.6%                  | 92.4% | 99.6% | 95.5% | LTS                     | LTS | LTS | LTS |
| 1985       | Dry             | 5444.7                                                       | 5195.9 | 4407.2 | 5883.8 | 5108.9 | 95.4%                  | 80.9% | >100% | 93.8% | LTS                     | LTS | No  | LTS |
| 1986       | Wet             | 5957.8                                                       | 5884   | 5564.2 | 6103.4 | 5844.9 | 98.8%                  | 93.4% | >100% | 98.1% | LTS                     | LTS | No  | LTS |
| 1987       | Dry             | 5077.6                                                       | 4998.3 | 4029.8 | 5612.1 | 5008.2 | 98.4%                  | 79.4% | >100% | 98.6% | LTS                     | SIG | No  | LTS |
| 1988       | Critical        | 4768.5                                                       | 4848   | 3810.9 | 4882.7 | 4798.6 | >100%                  | 79.9% | >100% | >100% | No                      | SIG | No  | No  |
| 1989       | Dry             | 5449.8                                                       | 5416.8 | 4448.1 | 5853.8 | 5378.2 | 99.4%                  | 81.6% | >100% | 98.7% | LTS                     | LTS | No  | LTS |
| 1990       | Critical        | 4957.9                                                       | 4900.4 | 3909.3 | 5504.3 | 4868.2 | 98.8%                  | 78.8% | >100% | 98.2% | LTS                     | SIG | No  | LTS |
| 1991       | Critical        | 5120.5                                                       | 4975.7 | 4015.8 | 5763.8 | 4896.4 | 97.2%                  | 78.4% | >100% | 95.6% | LTS                     | SIG | No  | LTS |
| 1992       | Critical        | 4891.5                                                       | 4918   | 3824   | 5353.7 | 4879.1 | >100%                  | 78.2% | >100% | 99.7% | No                      | SIG | No  | LTS |
| 1993       | bove Norm       | 6063.6                                                       | 5968.9 | 5668.7 | 6230.7 | 5964   | 98.4%                  | 93.5% | >100% | 98.4% | LTS                     | LTS | No  | LTS |
| 1994       | Critical        | 4890.8                                                       | 4905.8 | 3859.3 | 5388.5 | 4853   | >100%                  | 78.9% | >100% | 99.2% | No                      | SIG | No  | LTS |
| 1995       | Wet             | 6360.8                                                       | 6262.7 | 5968.9 | 6528.4 | 6247.9 | 98.5%                  | 93.8% | >100% | 98.2% | LTS                     | LTS | No  | LTS |
| 1996       | Wet             | 6187.4                                                       | 5949.9 | 5707.6 | 6190.7 | 5963.4 | 96.2%                  | 92.2% | >100% | 96.4% | LTS                     | LTS | No  | LTS |
| 1997       | Wet             | 6006.3                                                       | 5788.4 | 5569.3 | 6044   | 5806.7 | 96.4%                  | 92.7% | >100% | 96.7% | LTS                     | LTS | No  | LTS |
| 1998       | Wet             | 6402.4                                                       | 6304.7 | 5988.9 | 6453   | 6306.9 | 98.5%                  | 93.5% | >100% | 98.5% | LTS                     | LTS | No  | LTS |

**Footnote:**

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location



DeSabra: Appendix Table-26 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: NF Feather River: Lake Almanor  
 Location: Node 4  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 3                                                        | 4    | 4   | 4    | 4   | 4    | 4   | 4    | 4   | 4    |
| 1976       | Critical   | 2                                                        | 1    | 2   | 0    | 2   | 0    | 2   | -2   | 2   | 1    |
| 1977       | Critical   | 1                                                        | 1    | 1   | 1    | 1   | 0    | 1   | -2   | 1   | 1    |
| 1978       | bove Norm  | 2                                                        | 2    | 3   | 2    | 4   | 2    | 4   | 3    | 3   | 2    |
| 1979       | elow Norm  | 3                                                        | 1    | 3   | 0    | 3   | 0    | 3   | 1    | 3   | 1    |
| 1980       | bove Norm  | 1                                                        | 2    | 2   | 2    | 3   | 2    | 1   | 2    | 3   | 1    |
| 1981       | Dry        | 2                                                        | 1    | 2   | 1    | 2   | 1    | 2   | 1    | 2   | 1    |
| 1982       | Wet        | 0                                                        | 3    | 0   | 3    | 3   | 3    | 0   | 3    | 0   | 3    |
| 1983       | Wet        | 2                                                        | 4    | 2   | 4    | 4   | 3    | 2   | 4    | 2   | 4    |
| 1984       | Wet        | -1                                                       | 2    | 0   | 2    | 1   | 2    | 0   | 2    | 0   | 2    |
| 1985       | Dry        | 2                                                        | 1    | 2   | 1    | 2   | 0    | 1   | 1    | 2   | 1    |
| 1986       | Wet        | -1                                                       | 1    | -1  | 2    | 2   | 1    | -1  | 2    | -1  | 2    |
| 1987       | Dry        | 2                                                        | 1    | 2   | -1   | 2   | -1   | 2   | -1   | 2   | 1    |
| 1988       | Critical   | 1                                                        | 1    | 1   | 1    | 1   | 1    | 1   | -2   | 1   | 1    |
| 1989       | Dry        | 2                                                        | 0    | 2   | 0    | 2   | 0    | 2   | 1    | 2   | 0    |
| 1990       | Critical   | 1                                                        | 1    | 1   | 1    | 2   | 1    | 1   | 1    | 1   | 1    |
| 1991       | Critical   | 2                                                        | 1    | 2   | 1    | 2   | 1    | 2   | 1    | 2   | 1    |
| 1992       | Critical   | 1                                                        | 1    | 1   | 0    | 2   | -1   | 1   | -2   | 1   | 1    |
| 1993       | bove Norm  | 4                                                        | 3    | 6   | 3    | 7   | 3    | 4   | 3    | 6   | 3    |
| 1994       | Critical   | 2                                                        | 1    | 2   | 1    | 2   | 1    | 2   | -1   | 2   | 1    |
| 1995       | Wet        | 4                                                        | 4    | 4   | 4    | 6   | 3    | 3   | 0    | 4   | 4    |
| 1996       | Wet        | 0                                                        | 2    | 1   | 2    | 4   | 2    | 1   | 2    | 2   | 2    |
| 1997       | Wet        | -1                                                       | 2    | -1  | 2    | 0   | 1    | -1  | 2    | -1  | 1    |
| 1998       | Wet        | 2                                                        | 4    | 4   | 4    | 6   | 4    | 3   | 4    | 4   | 4    |

Footnote:  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

DeSaba: Appendix Table-27 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: NF Feather River: Butt Valley Reservoir  
 Location: Node 6  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A<br>Thousands of Acre-feet |       |       |       |       | Percentage of Baseline |        |       |       | Significance Evaluation |     |     |     |
|------------|-----------------|--------------------------------------------------------------|-------|-------|-------|-------|------------------------|--------|-------|-------|-------------------------|-----|-----|-----|
|            |                 | BL2000                                                       | NP    | PM    | WM    | ST    | NP                     | PM     | WM    | ST    | NP                      | PM  | WM  | ST  |
| 1975       | Wet             | 260.8                                                        | 259.8 | 278.7 | 261.7 | 267.7 | 99.6%                  | >100%  | >100% | >100% | LTS                     | No  | No  | No  |
| 1976       | Critical        | 275.2                                                        | 267.3 | 266.7 | 254.4 | 258.6 | 97.1%                  | 96.9%  | 92.4% | 94.0% | LTS                     | LTS | LTS | LTS |
| 1977       | Critical        | 239.9                                                        | 244.9 | 247.1 | 241.2 | 248.1 | >100%                  | >100%  | >100% | >100% | No                      | No  | No  | No  |
| 1978       | bove Norm       | 253.9                                                        | 257.4 | 277.3 | 265.3 | 267.8 | >100%                  | >100%  | >100% | >100% | No                      | No  | No  | No  |
| 1979       | elow Norm       | 264.3                                                        | 256.3 | 259.9 | 260.4 | 259.8 | 97.0%                  | 98.3%  | 98.5% | 98.3% | LTS                     | LTS | LTS | LTS |
| 1980       | bove Norm       | 253.6                                                        | 266   | 277.8 | 262.7 | 268.1 | >100%                  | >100%  | >100% | >100% | No                      | No  | No  | No  |
| 1981       | Dry             | 270.5                                                        | 257.3 | 265.6 | 269.7 | 272.6 | 95.1%                  | 98.2%  | 99.7% | >100% | LTS                     | LTS | LTS | No  |
| 1982       | Wet             | 275.6                                                        | 276.9 | 272.9 | 287.8 | 280.1 | >100%                  | 99.0%  | >100% | >100% | No                      | LTS | No  | No  |
| 1983       | Wet             | 294.5                                                        | 284.6 | 294.5 | 260.8 | 281.1 | 96.6%                  | 100.0% | 88.6% | 95.4% | LTS                     | No  | LTS | LTS |
| 1984       | Wet             | 264.7                                                        | 265.4 | 275   | 274.1 | 264   | >100%                  | >100%  | >100% | 99.7% | No                      | No  | No  | LTS |
| 1985       | Dry             | 266.7                                                        | 273.2 | 276.3 | 266.2 | 269.6 | >100%                  | >100%  | 99.8% | >100% | No                      | No  | LTS | No  |
| 1986       | Wet             | 252.5                                                        | 262.5 | 247.6 | 252.6 | 262.2 | >100%                  | 98.1%  | >100% | >100% | No                      | LTS | No  | No  |
| 1987       | Dry             | 255.5                                                        | 255   | 251.9 | 254.6 | 257.1 | 99.8%                  | 98.6%  | 99.6% | >100% | LTS                     | LTS | LTS | No  |
| 1988       | Critical        | 259                                                          | 252.4 | 248.5 | 242.4 | 254.8 | 97.5%                  | 95.9%  | 93.6% | 98.4% | LTS                     | LTS | LTS | LTS |
| 1989       | Dry             | 255.7                                                        | 268.9 | 268.9 | 265.4 | 272.4 | >100%                  | >100%  | >100% | >100% | No                      | No  | No  | No  |
| 1990       | Critical        | 256.7                                                        | 258.8 | 257.2 | 260.8 | 250.7 | >100%                  | >100%  | >100% | 97.7% | No                      | No  | No  | LTS |
| 1991       | Critical        | 258.4                                                        | 267.7 | 262.9 | 265   | 261.3 | >100%                  | >100%  | >100% | >100% | No                      | No  | No  | No  |
| 1992       | Critical        | 243.3                                                        | 246.8 | 253.6 | 268   | 258.4 | >100%                  | >100%  | >100% | >100% | No                      | No  | No  | No  |
| 1993       | bove Norm       | 279.2                                                        | 287.5 | 280   | 272.8 | 287.7 | >100%                  | >100%  | 97.7% | >100% | No                      | No  | LTS | No  |
| 1994       | Critical        | 244.9                                                        | 249.5 | 260.7 | 260.8 | 244.2 | >100%                  | >100%  | >100% | 99.7% | No                      | No  | No  | LTS |
| 1995       | Wet             | 282.4                                                        | 268.4 | 287.8 | 276   | 249.5 | 95.0%                  | >100%  | 97.7% | 88.3% | LTS                     | No  | LTS | LTS |
| 1996       | Wet             | 252                                                          | 253.9 | 267.7 | 259.9 | 255.8 | >100%                  | >100%  | >100% | >100% | No                      | No  | No  | No  |
| 1997       | Wet             | 241.6                                                        | 259.6 | 247.7 | 250.5 | 255.7 | >100%                  | >100%  | >100% | >100% | No                      | No  | No  | No  |
| 1998       | Wet             | 266.8                                                        | 282.5 | 276.6 | 284.6 | 282.4 | >100%                  | >100%  | >100% | >100% | No                      | No  | No  | No  |

Footnote:

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

DeSabra: Appendix Table-28 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: NF Feather River: Butt Valley Reservoir  
 Location: Node 6  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | -3                                                       | 3    | 9   | 3    | 9   | 3    | 9   | 3    | 8   | 3    |
| 1976       | Critical   | -3                                                       | 3    | 1   | 3    | 1   | 3    | 1   | 3    | 2   | 1    |
| 1977       | Critical   | -1                                                       | 0    | -1  | 0    | -1  | 5    | -1  | -5   | 0   | 1    |
| 1978       | bove Norm  | 8                                                        | 3    | -3  | 3    | -3  | 3    | -3  | 3    | 1   | 3    |
| 1979       | elow Norm  | -3                                                       | 3    | 8   | 3    | 8   | 3    | 0   | 3    | 9   | 3    |
| 1980       | bove Norm  | -1                                                       | 3    | -3  | 3    | 8   | 3    | -3  | 3    | -3  | 3    |
| 1981       | Dry        | -3                                                       | 1    | 3   | 1    | 3   | 3    | 3   | 3    | 3   | 2    |
| 1982       | Wet        | 5                                                        | 3    | 10  | 3    | -2  | 3    | 10  | 3    | 3   | 3    |
| 1983       | Wet        | 0                                                        | 3    | 9   | 3    | -3  | 3    | 0   | 3    | 10  | 3    |
| 1984       | Wet        | 10                                                       | 3    | 5   | 3    | -2  | 0    | -3  | 3    | 4   | 3    |
| 1985       | Dry        | -3                                                       | 2    | -3  | 3    | -3  | 3    | 3   | 3    | -3  | 3    |
| 1986       | Wet        | -3                                                       | 3    | -3  | 1    | -2  | -2   | -2  | 1    | -3  | 2    |
| 1987       | Dry        | -3                                                       | 3    | 1   | 3    | 1   | 3    | 1   | 3    | 2   | 3    |
| 1988       | Critical   | -3                                                       | 1    | -1  | 1    | -1  | 1    | -1  | -2   | 0   | 2    |
| 1989       | Dry        | -3                                                       | 3    | -1  | 3    | -1  | 3    | -3  | 3    | -1  | 3    |
| 1990       | Critical   | -3                                                       | -2   | -1  | -2   | -1  | -1   | -1  | 3    | 0   | -1   |
| 1991       | Critical   | -3                                                       | 0    | 0   | 3    | 0   | 3    | 0   | 3    | 2   | 1    |
| 1992       | Critical   | -3                                                       | 2    | -3  | 1    | -3  | 3    | -3  | 3    | -2  | 2    |
| 1993       | bove Norm  | 3                                                        | 3    | -3  | 3    | 9   | 3    | 10  | 3    | 4   | 3    |
| 1994       | Critical   | -3                                                       | -2   | -1  | -2   | -1  | 3    | -1  | 3    | 0   | -1   |
| 1995       | Wet        | 2                                                        | 0    | 2   | 0    | 10  | 3    | 2   | 0    | -1  | 3    |
| 1996       | Wet        | 2                                                        | 1    | 8   | 1    | -3  | 1    | 10  | 1    | -3  | 2    |
| 1997       | Wet        | -3                                                       | -2   | -3  | -2   | 1   | -1   | -3  | -2   | -3  | -1   |
| 1998       | Wet        | -3                                                       | 3    | -2  | 3    | 2   | 3    | 5   | 3    | 0   | 3    |

**Footnote:**

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

DeSaba: Appendix Table-29 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: Bucks Lake  
 Location: Node 11  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A<br>Thousands of Acre-feet |       |       |       |       | Percentage of Baseline |       |       |        | Significance Evaluation |     |     |     |
|------------|-----------------|--------------------------------------------------------------|-------|-------|-------|-------|------------------------|-------|-------|--------|-------------------------|-----|-----|-----|
|            |                 | BL2000                                                       | NP    | PM    | WM    | ST    | NP                     | PM    | WM    | ST     | NP                      | PM  | WM  | ST  |
| 1975       | Wet             | 540.6                                                        | 540.6 | 490   | 547.3 | 540.6 | 100.0%                 | 90.6% | >100% | 100.0% | No                      | LTS | No  | No  |
| 1976       | Critical        | 371.6                                                        | 351.5 | 263.2 | 335.6 | 371.3 | 94.6%                  | 70.8% | 90.3% | 99.9%  | LTS                     | SIG | LTS | LTS |
| 1977       | Critical        | 297.7                                                        | 298.2 | 160.3 | 155   | 299.8 | >100%                  | 53.8% | 52.1% | >100%  | No                      | SIG | SIG | No  |
| 1978       | bove Norm       | 539.4                                                        | 536.2 | 480.7 | 549.5 | 536.2 | 99.4%                  | 89.1% | >100% | 99.4%  | LTS                     | LTS | No  | LTS |
| 1979       | elow Norm       | 519.1                                                        | 501.7 | 453.2 | 533.7 | 501.7 | 96.6%                  | 87.3% | >100% | 96.6%  | LTS                     | LTS | No  | LTS |
| 1980       | bove Norm       | 533.3                                                        | 524   | 484.7 | 535.4 | 524   | 98.3%                  | 90.9% | >100% | 98.3%  | LTS                     | LTS | No  | LTS |
| 1981       | Dry             | 503.8                                                        | 474.2 | 371.7 | 495.7 | 474.2 | 94.1%                  | 73.8% | 98.4% | 94.1%  | LTS                     | SIG | LTS | LTS |
| 1982       | Wet             | 562.7                                                        | 547.7 | 516.4 | 565.9 | 547.7 | 97.3%                  | 91.8% | >100% | 97.3%  | LTS                     | LTS | No  | LTS |
| 1983       | Wet             | 582                                                          | 582   | 578.7 | 587.7 | 582   | 100.0%                 | 99.4% | >100% | 100.0% | No                      | LTS | No  | No  |
| 1984       | Wet             | 528.8                                                        | 508.7 | 478   | 525.4 | 508.7 | 96.2%                  | 90.4% | 99.4% | 96.2%  | LTS                     | LTS | LTS | LTS |
| 1985       | Dry             | 437.7                                                        | 406.4 | 332   | 497.7 | 409.4 | 92.8%                  | 75.9% | >100% | 93.5%  | LTS                     | SIG | No  | LTS |
| 1986       | Wet             | 524.9                                                        | 517   | 476.3 | 523.1 | 517   | 98.5%                  | 90.7% | 99.7% | 98.5%  | LTS                     | LTS | LTS | LTS |
| 1987       | Dry             | 415.8                                                        | 410.4 | 292.1 | 447.6 | 414.9 | 98.7%                  | 70.3% | >100% | 99.8%  | LTS                     | SIG | No  | LTS |
| 1988       | Critical        | 359.3                                                        | 403.1 | 253.1 | 318.6 | 402.3 | >100%                  | 70.4% | 88.7% | >100%  | No                      | SIG | LTS | No  |
| 1989       | Dry             | 498.9                                                        | 483.1 | 397.9 | 491.3 | 481.6 | 96.8%                  | 79.8% | 98.5% | 96.5%  | LTS                     | SIG | LTS | LTS |
| 1990       | Critical        | 470.5                                                        | 454.8 | 358.4 | 460.1 | 454.8 | 96.7%                  | 76.2% | 97.8% | 96.7%  | LTS                     | SIG | LTS | LTS |
| 1991       | Critical        | 456.8                                                        | 429.4 | 294.9 | 479.4 | 429.4 | 94.0%                  | 64.6% | >100% | 94.0%  | LTS                     | SIG | No  | LTS |
| 1992       | Critical        | 390.1                                                        | 424.4 | 302   | 398.8 | 424.4 | >100%                  | 77.4% | >100% | >100%  | No                      | SIG | No  | No  |
| 1993       | bove Norm       | 546.9                                                        | 546.9 | 494.2 | 557.7 | 546.9 | 100.0%                 | 90.4% | >100% | 100.0% | No                      | LTS | No  | No  |
| 1994       | Critical        | 400.6                                                        | 427.3 | 313.2 | 425.2 | 427.3 | >100%                  | 78.2% | >100% | >100%  | No                      | SIG | No  | No  |
| 1995       | Wet             | 578.1                                                        | 549   | 538.4 | 575.2 | 549   | 95.0%                  | 93.1% | 99.5% | 95.0%  | LTS                     | LTS | LTS | LTS |
| 1996       | Wet             | 552                                                          | 542.7 | 494   | 556.9 | 542.7 | 98.3%                  | 89.5% | >100% | 98.3%  | LTS                     | LTS | No  | LTS |
| 1997       | Wet             | 522.2                                                        | 500.3 | 472.4 | 516.2 | 497.3 | 95.8%                  | 90.5% | 98.9% | 95.2%  | LTS                     | LTS | LTS | LTS |
| 1998       | Wet             | 554.7                                                        | 540.1 | 526.4 | 560.7 | 540.1 | 97.4%                  | 94.9% | >100% | 97.4%  | LTS                     | LTS | No  | LTS |

Footnote:  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

DeSabra: Appendix Table-30 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: Bucks Lake  
 Location: Node 11  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 13                                                       | 5    | 13  | 5    | 13  | 5    | 13  | 5    | 13  | 5    |
| 1976       | Critical   | 4                                                        | 1    | 4   | 1    | 4   | 1    | 4   | -2   | 4   | 1    |
| 1977       | Critical   | 4                                                        | 1    | 4   | 1    | 4   | 1    | 4   | 1    | 4   | 1    |
| 1978       | bove Norm  | 9                                                        | 4    | 9   | 4    | 10  | 5    | 6   | 5    | 9   | 4    |
| 1979       | elow Norm  | 9                                                        | 3    | 13  | 2    | 13  | 2    | 13  | 5    | 13  | 2    |
| 1980       | bove Norm  | 5                                                        | 5    | 5   | 5    | 9   | 5    | 7   | 5    | 5   | 5    |
| 1981       | Dry        | 6                                                        | 2    | 6   | 2    | 6   | 2    | 6   | 2    | 6   | 2    |
| 1982       | Wet        | 13                                                       | 0    | 13  | 0    | 8   | 0    | 8   | 0    | 13  | 0    |
| 1983       | Wet        | 10                                                       | 5    | 10  | 5    | 10  | 2    | 10  | 2    | 10  | 5    |
| 1984       | Wet        | 8                                                        | 3    | 8   | 3    | 5   | 3    | 5   | 3    | 8   | 3    |
| 1985       | Dry        | 6                                                        | 2    | 6   | 2    | 7   | 2    | 6   | 2    | 6   | 2    |
| 1986       | Wet        | 4                                                        | 4    | 5   | 4    | 1   | 4    | 1   | 4    | 4   | 4    |
| 1987       | Dry        | 3                                                        | 1    | 3   | 1    | 3   | -2   | 3   | -4   | 3   | 1    |
| 1988       | Critical   | 5                                                        | 3    | 5   | 3    | 6   | 3    | 5   | -3   | 5   | 3    |
| 1989       | Dry        | 1                                                        | 2    | 1   | 1    | 6   | -1   | 6   | 2    | 1   | 0    |
| 1990       | Critical   | 8                                                        | 4    | 8   | 4    | 8   | 4    | 8   | 4    | 8   | 4    |
| 1991       | Critical   | 8                                                        | 4    | 8   | 4    | 9   | 4    | 7   | 4    | 8   | 4    |
| 1992       | Critical   | 4                                                        | 2    | 4   | 0    | 5   | -3   | 4   | -4   | 4   | 0    |
| 1993       | bove Norm  | 11                                                       | 0    | 11  | 0    | 13  | 0    | 6   | 0    | 11  | 0    |
| 1994       | Critical   | 6                                                        | 2    | 6   | 2    | 6   | -1   | 6   | -3   | 6   | 2    |
| 1995       | Wet        | 7                                                        | 0    | 7   | 0    | 1   | 0    | 1   | 0    | 7   | 0    |
| 1996       | Wet        | 17                                                       | 0    | 17  | 0    | 17  | 0    | 13  | 0    | 17  | 0    |
| 1997       | Wet        | 4                                                        | 2    | 4   | 2    | 0   | 2    | -1  | 2    | 4   | 2    |
| 1998       | Wet        | 10                                                       | 5    | 14  | 5    | 14  | 5    | 14  | 5    | 14  | 5    |

**Footnote:**

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

DeSaba: Appendix Table-31 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: Lower Bucks Lake  
 Location: Node 12  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Type | Cumulative Storage (May-October) A<br>Thousands of Acre-feet |      |      |      |      | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|------------|--------------------------------------------------------------|------|------|------|------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |            | BL2000                                                       | A1   | PM   | WM   | A3   | A1                     | PM     | WM     | A3     | A1                      | PM  | WM  | A3  |
| 1975       | Wet        | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1976       | Critical   | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1977       | Critical   | 31                                                           | 31   | 30.3 | 28.2 | 31   | 100.0%                 | 97.7%  | 91.0%  | 100.0% | No                      | LTS | LTS | No  |
| 1978       | bove Norm  | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1979       | elow Norm  | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1980       | bove Norm  | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1981       | Dry        | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1982       | Wet        | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1983       | Wet        | 30.8                                                         | 30.8 | 30.8 | 30.8 | 30.8 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1984       | Wet        | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1985       | Dry        | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1986       | Wet        | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1987       | Dry        | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1988       | Critical   | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1989       | Dry        | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1990       | Critical   | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1991       | Critical   | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1992       | Critical   | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1993       | bove Norm  | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1994       | Critical   | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1995       | Wet        | 30.8                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 98.4%                  | 98.4%  | 98.4%  | 98.4%  | LTS                     | LTS | LTS | LTS |
| 1996       | Wet        | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1997       | Wet        | 30.3                                                         | 30.3 | 30.3 | 30.3 | 30.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1998       | Wet        | 30.8                                                         | 30.8 | 30.8 | 30.8 | 30.8 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |

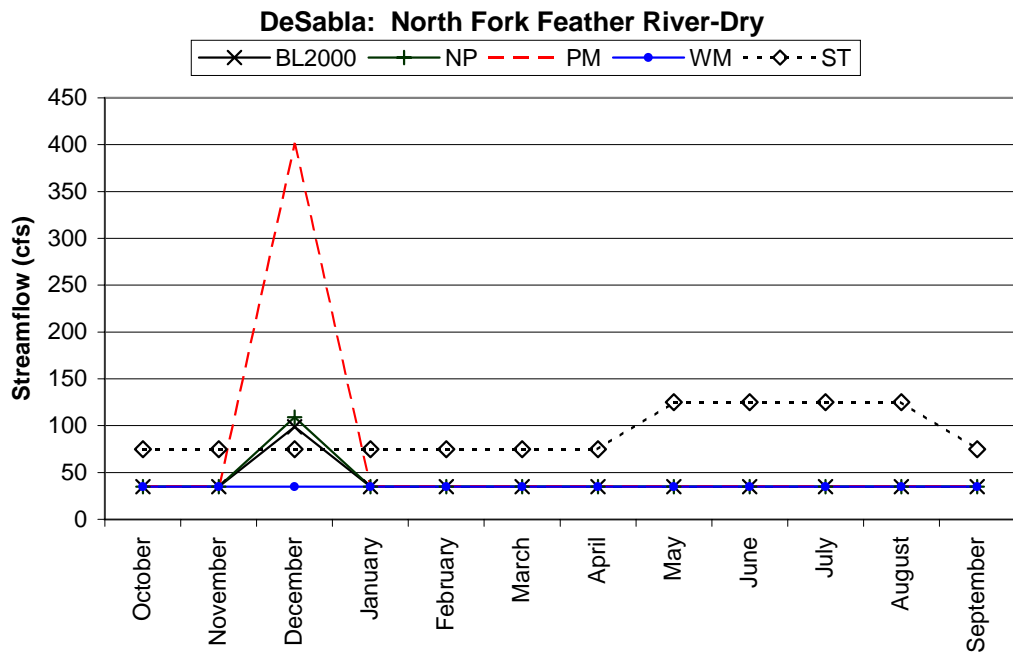
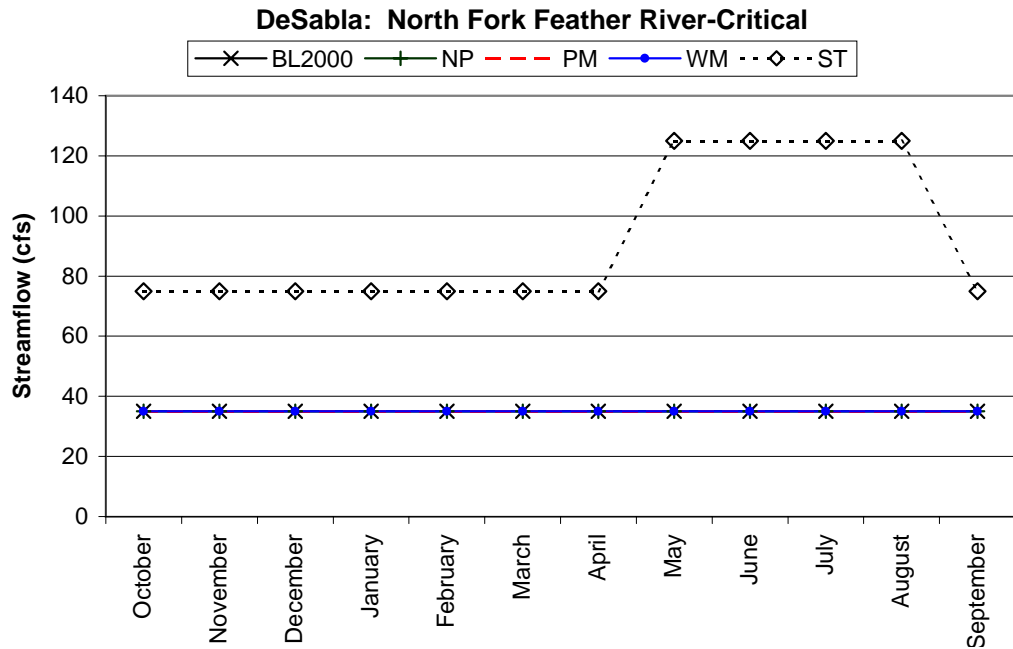
**Footnote:**  
 A BL2000 = Baseline 2000  
 A1 = No Project  
 PM = PowerMax  
 WM =WaterMax  
 A3 =PG&E Co.'s proposed Settlement Agreement (Alternative 3)  
 ND = No Data for this location

DeSabra: Appendix Table-32 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: Lower Bucks Lake  
 Location: Node 12  
 Watershed: Sacramento

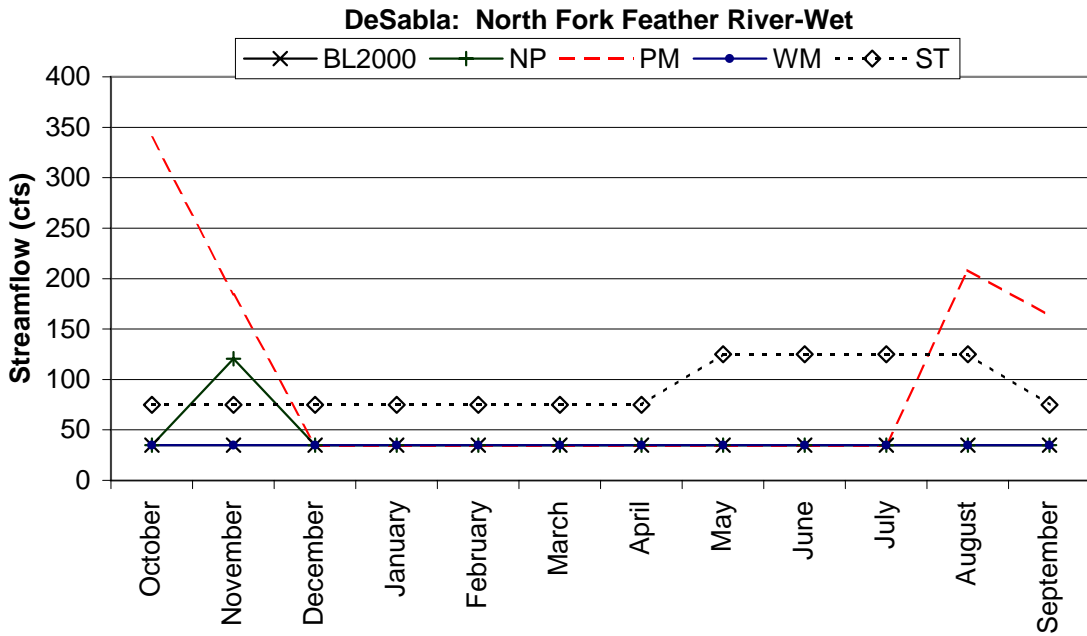
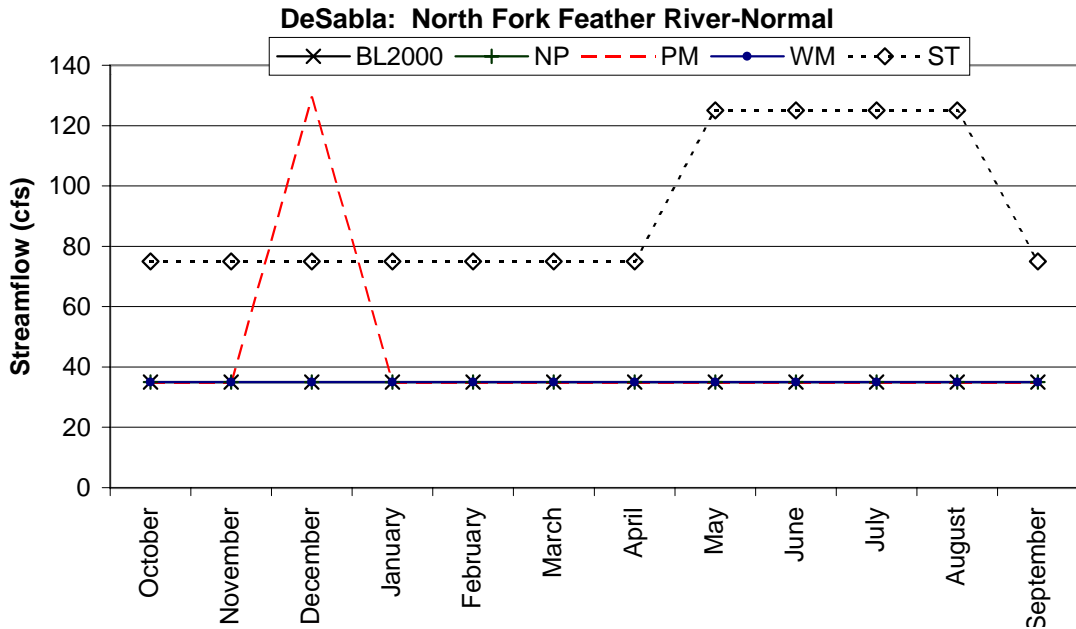
| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | A1  |      | PM  |      | WM  |      | A3  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1976       | Critical   | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1977       | Critical   | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1978       | bove Norm  | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1979       | elow Norm  | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1980       | bove Norm  | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1981       | Dry        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1982       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1983       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1984       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1985       | Dry        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1986       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1987       | Dry        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1988       | Critical   | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1989       | Dry        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1990       | Critical   | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1991       | Critical   | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1992       | Critical   | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1993       | bove Norm  | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1994       | Critical   | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1995       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1996       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1997       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1998       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |

Footnote:  
 A BL2000 = Baseline 2000  
 A1 = No Project  
 PM = PowerMax  
 WM =WaterMax  
 A3 =PG&E Co.'s proposed Settlement Agreement (Alternative 3)  
 ND =No Data

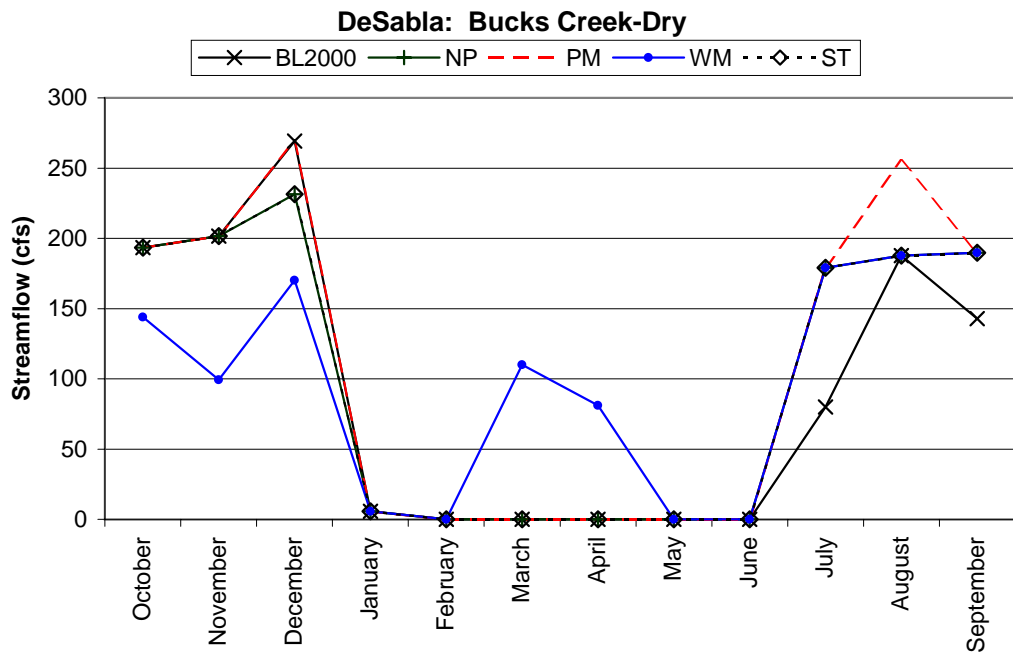
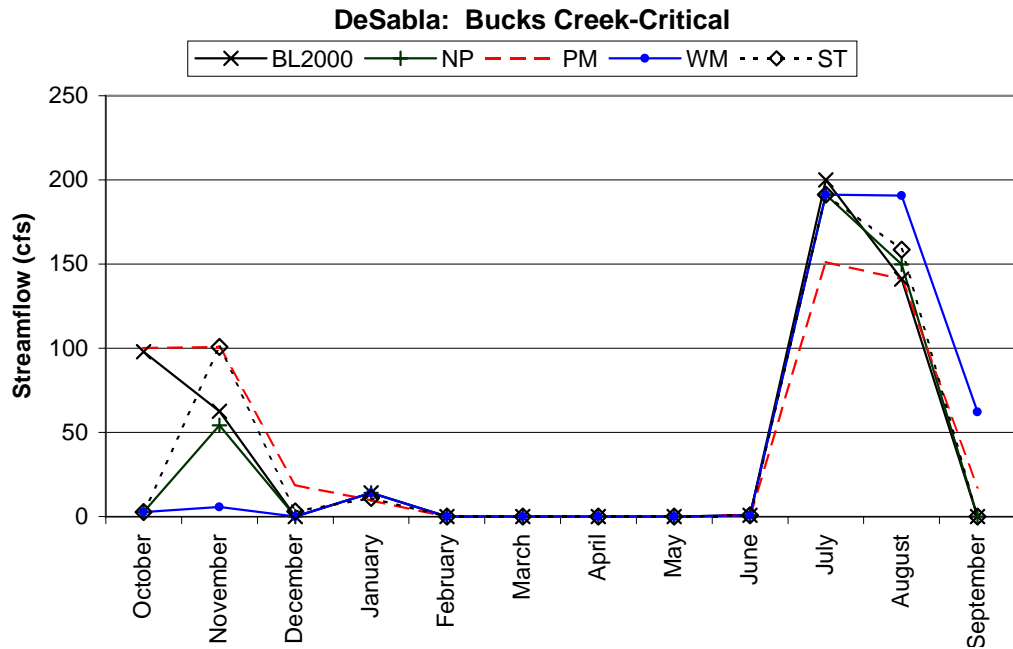


DeSaba: Appendix Figure-1 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

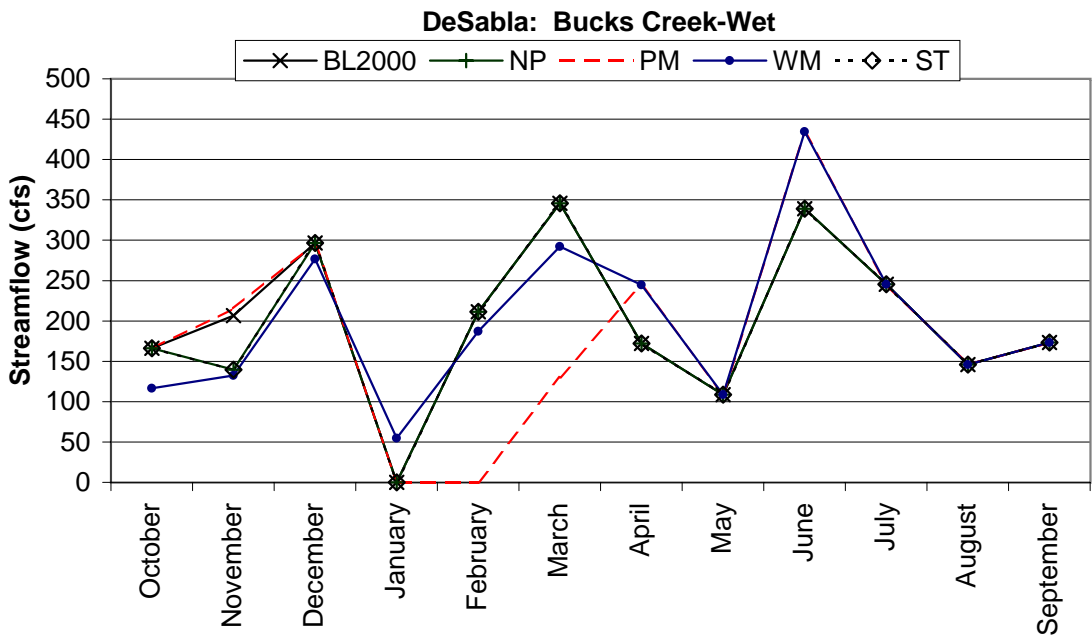
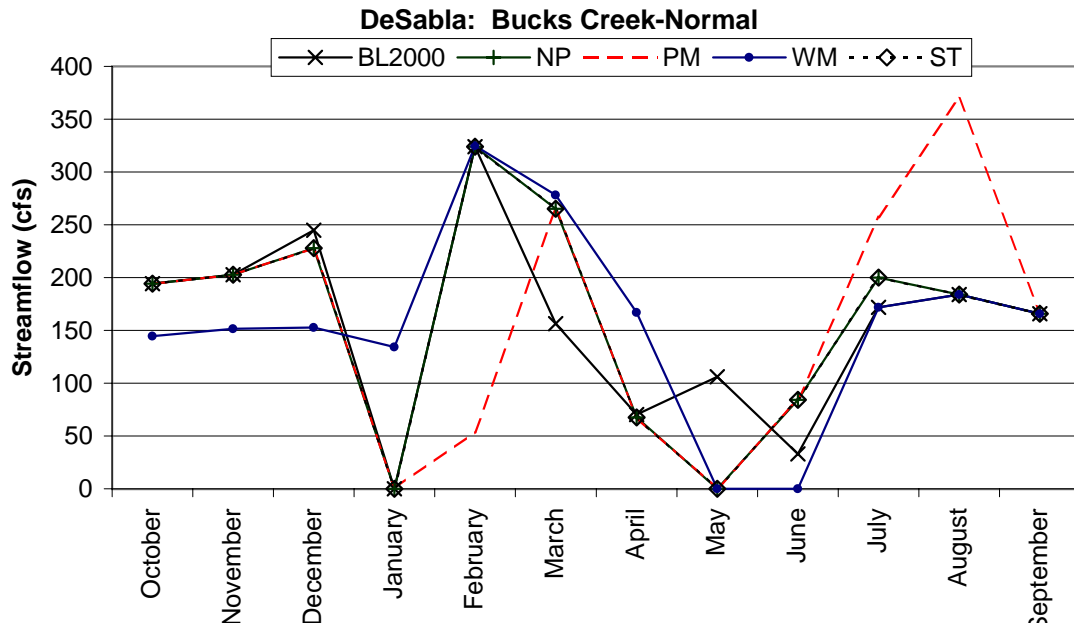




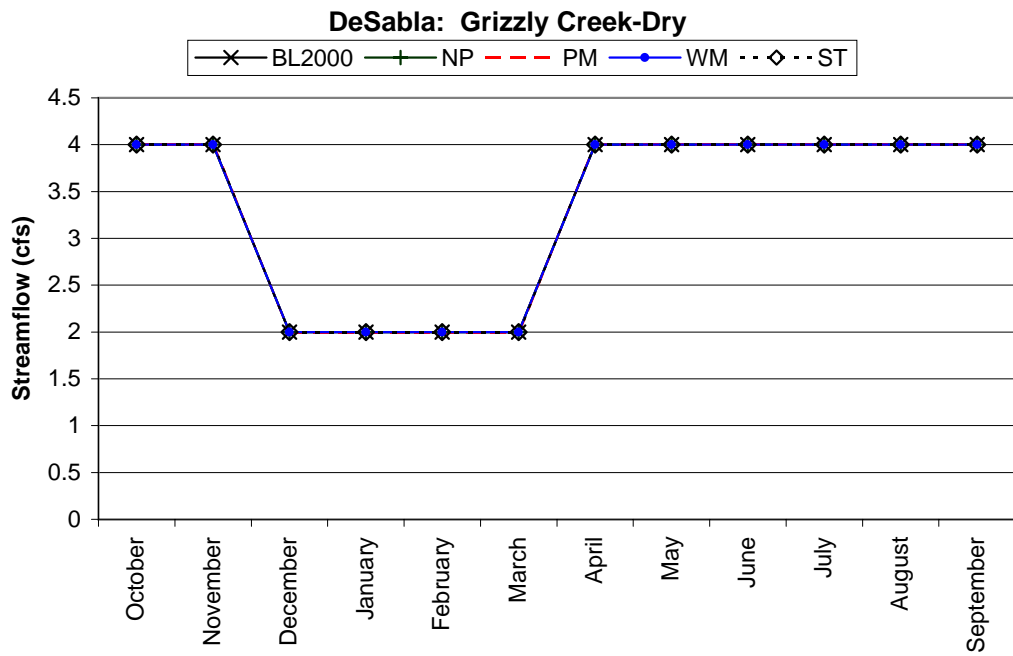
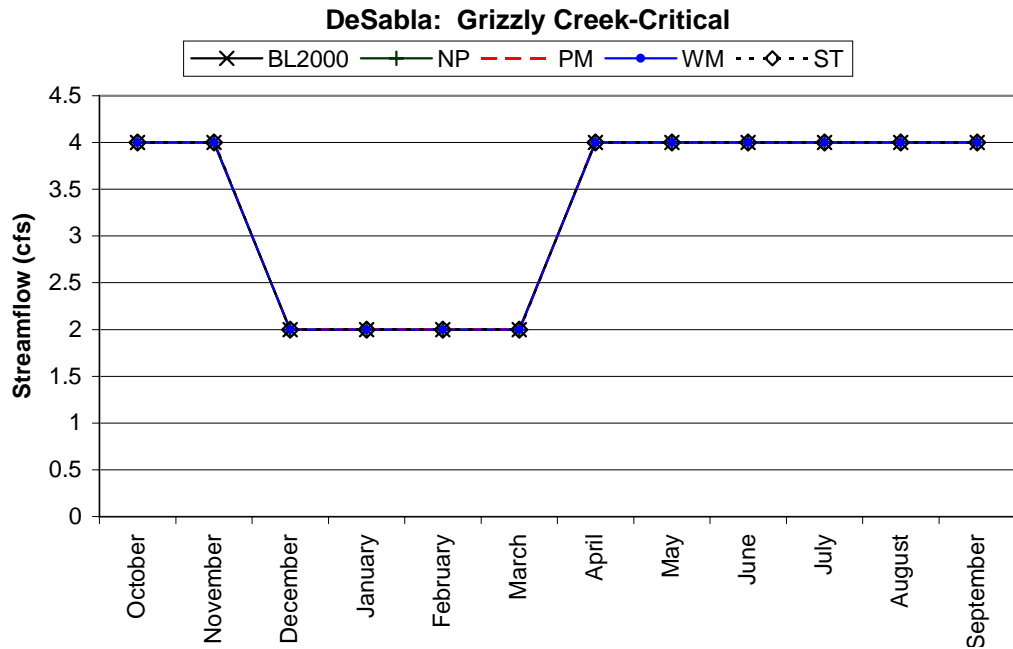
DeSabra: Appendix Figure-2 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



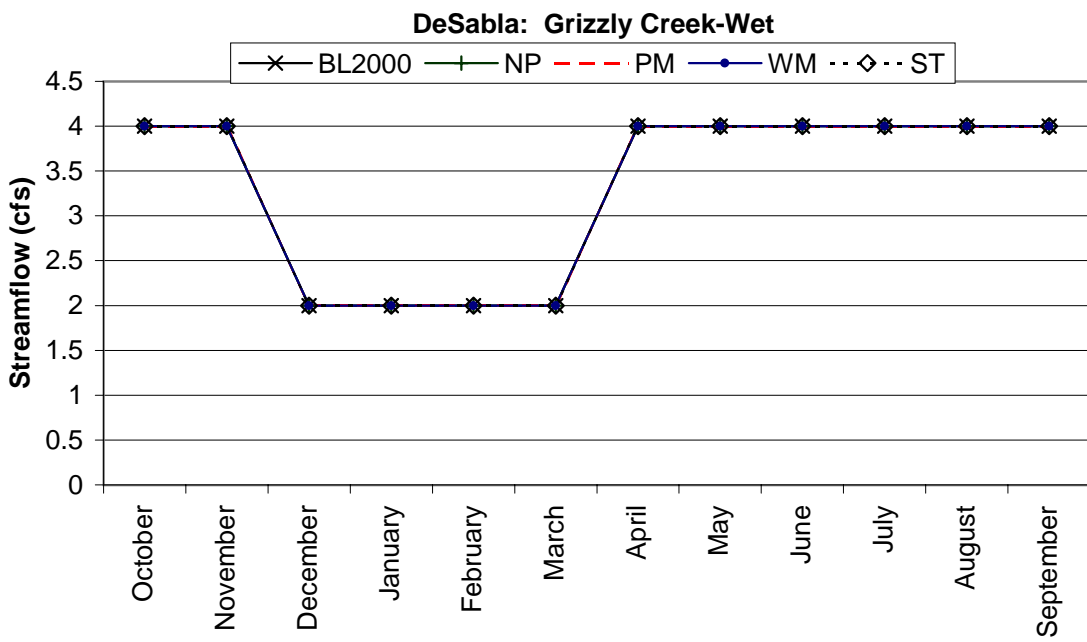
DeSaba: Appendix Figure-3 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



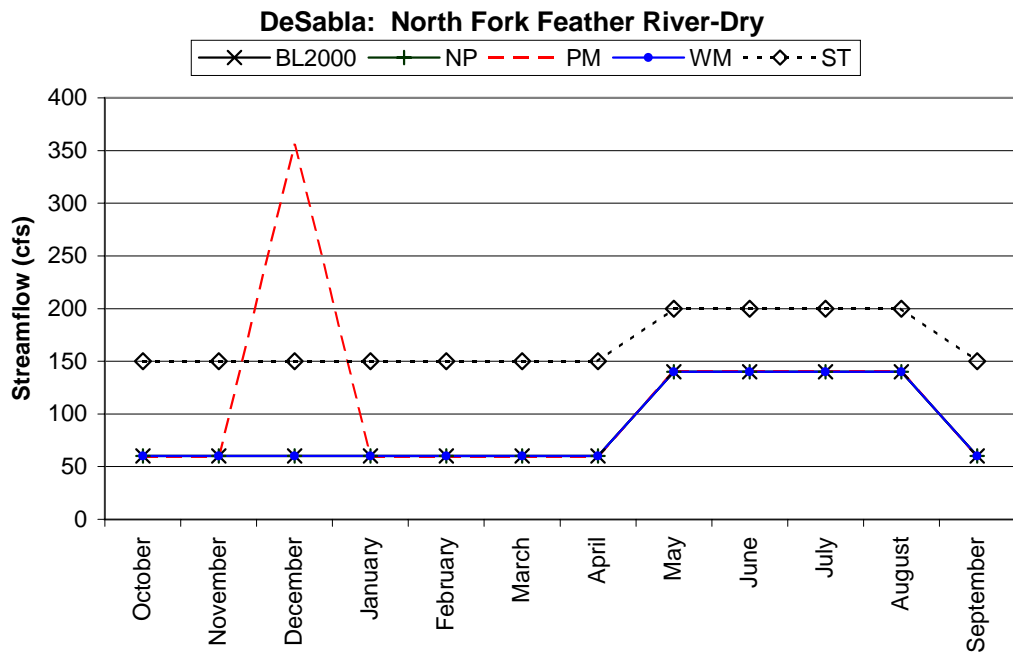
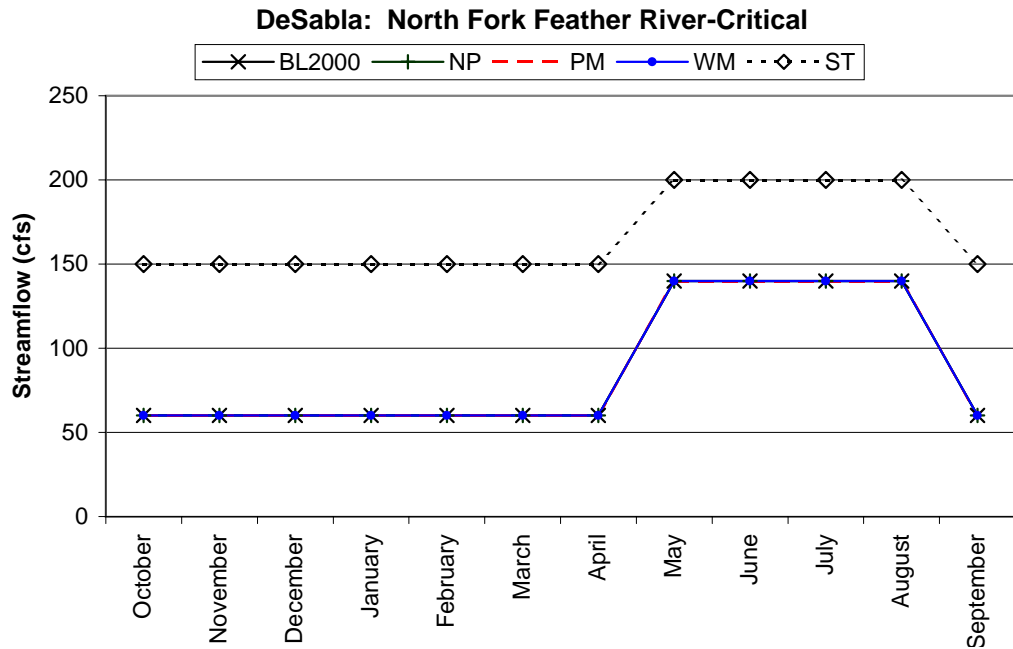
DeSabra: Appendix Figure-4 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



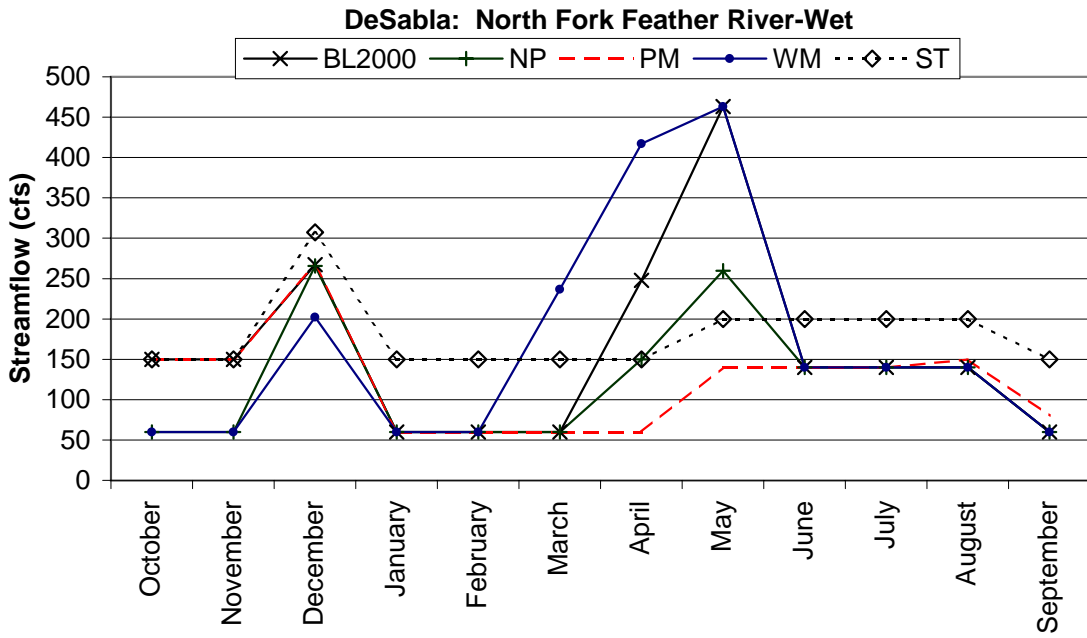
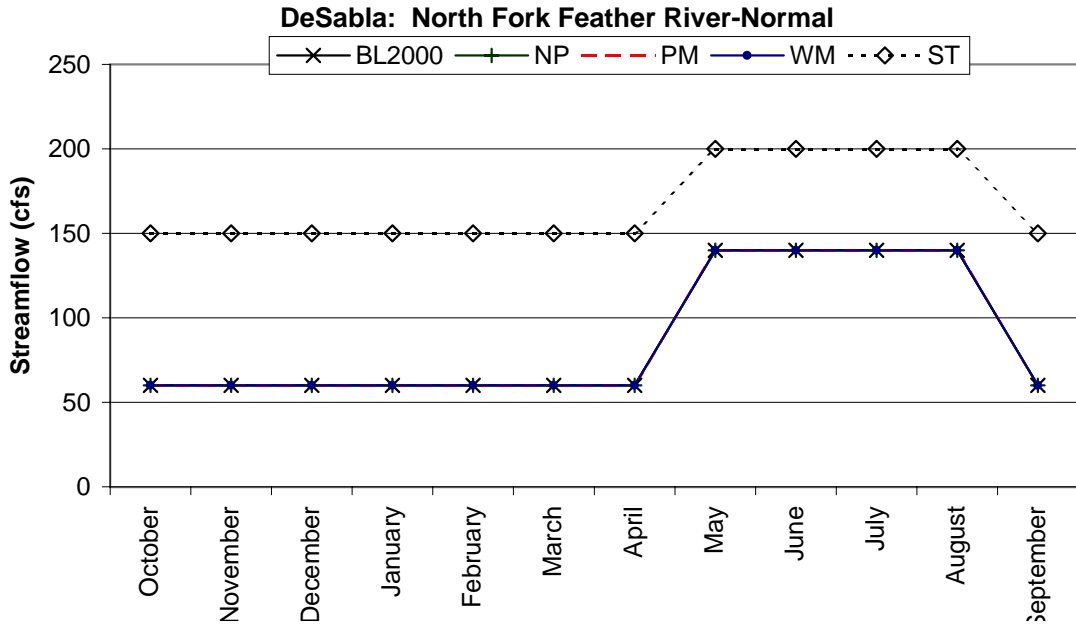
DeSaba: Appendix Figure-5 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



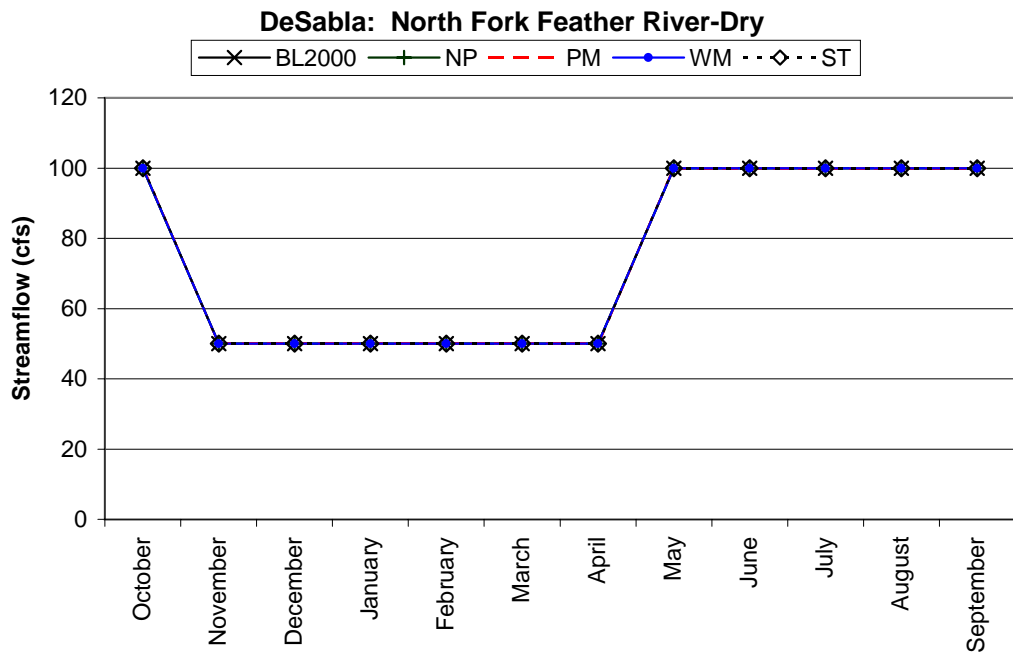
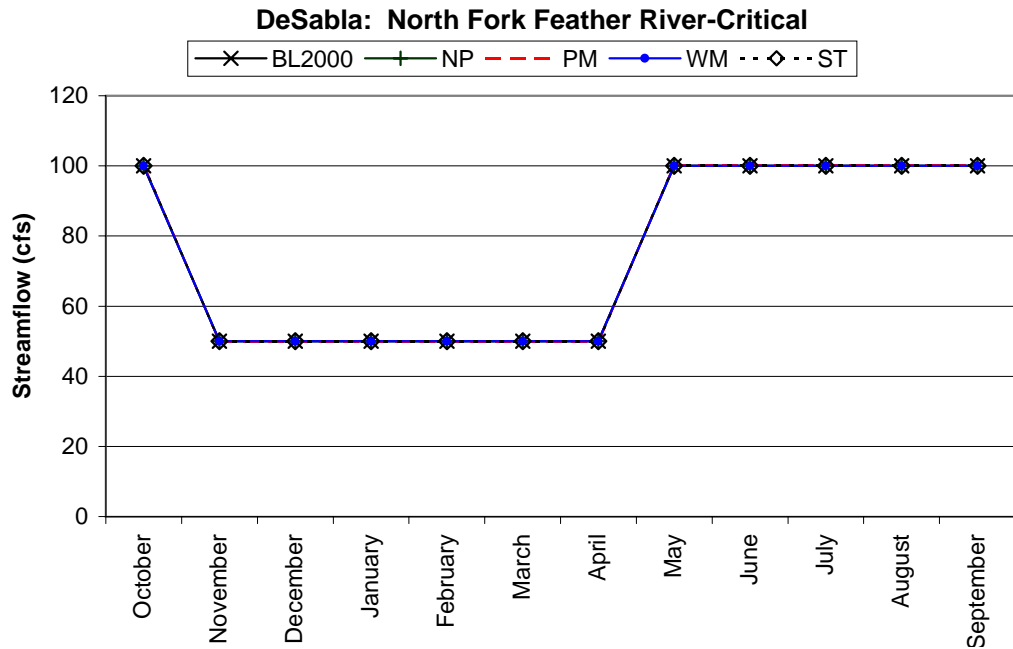
DeSabra: Appendix Figure-6 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



DeSaba: Appendix Figure-7 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

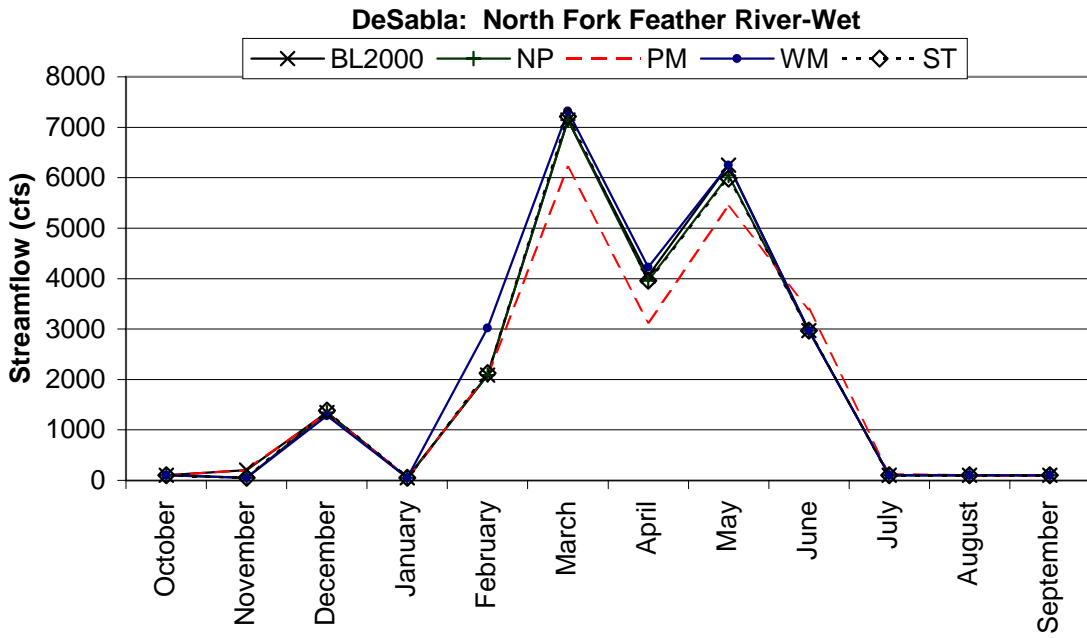
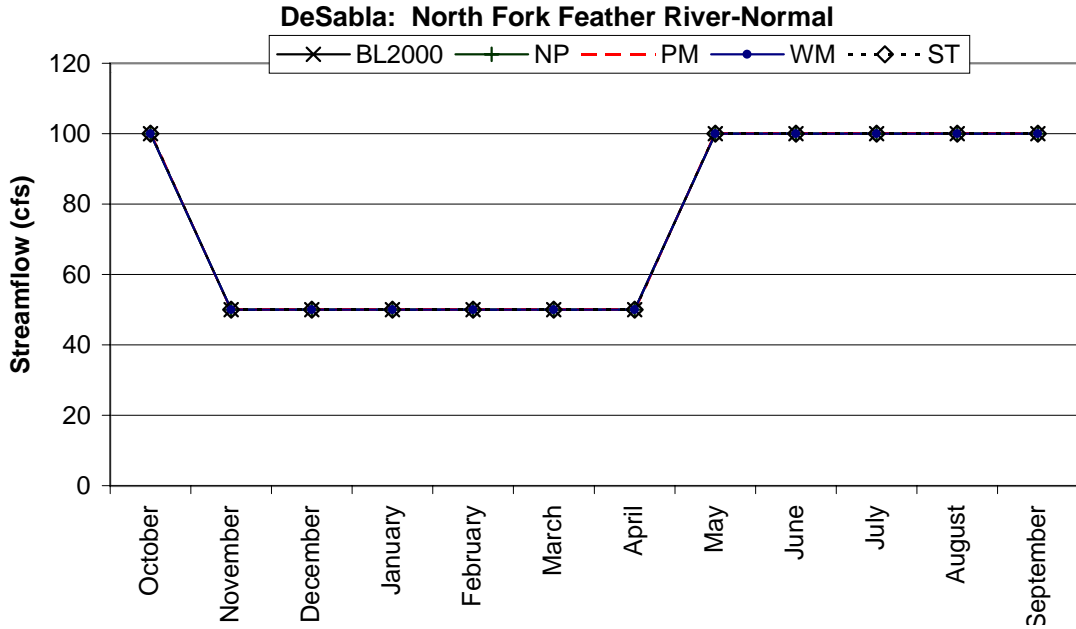


DeSabra: Appendix Figure-8 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

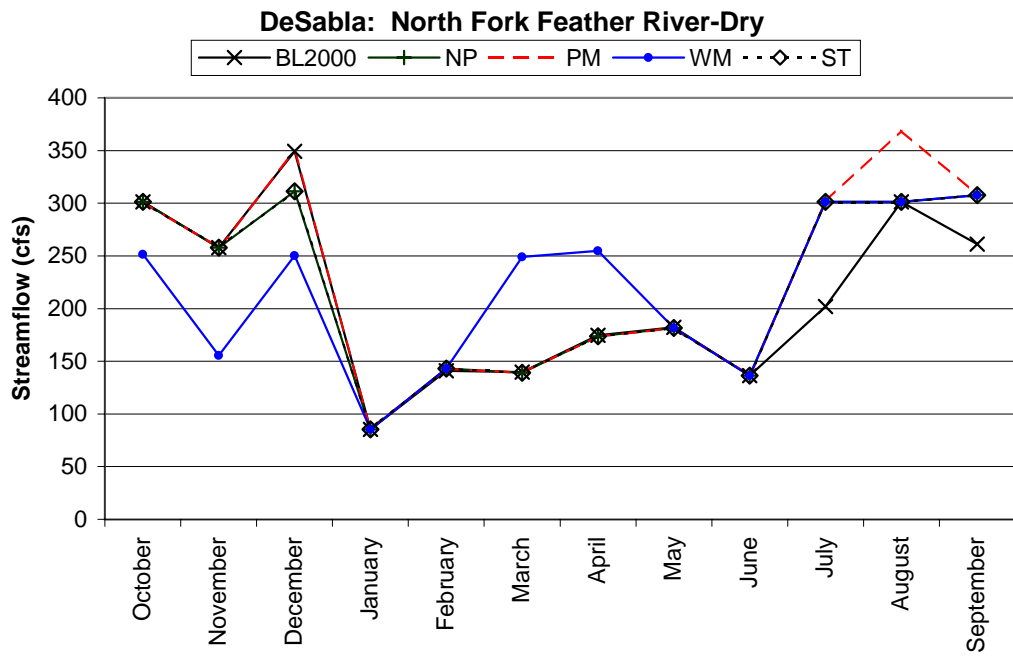
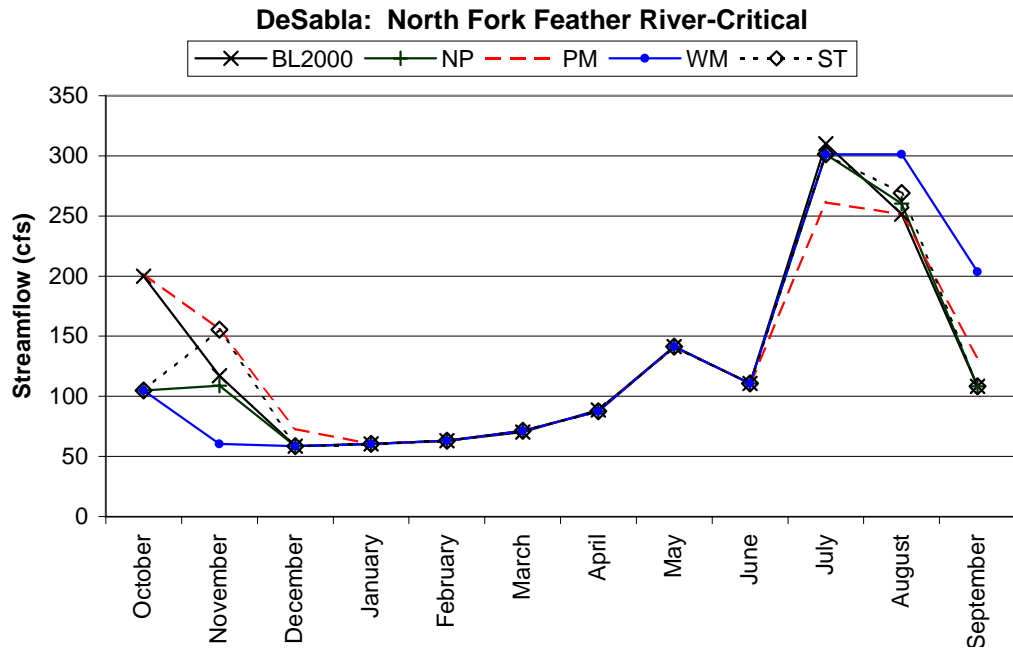


DeSaba: Appendix Figure-9 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

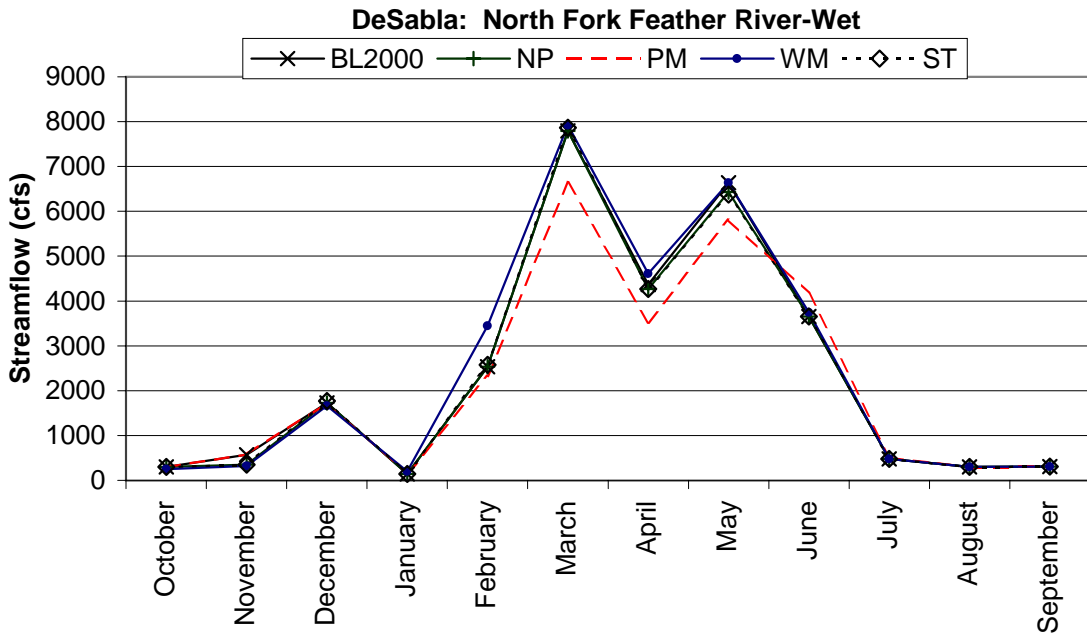
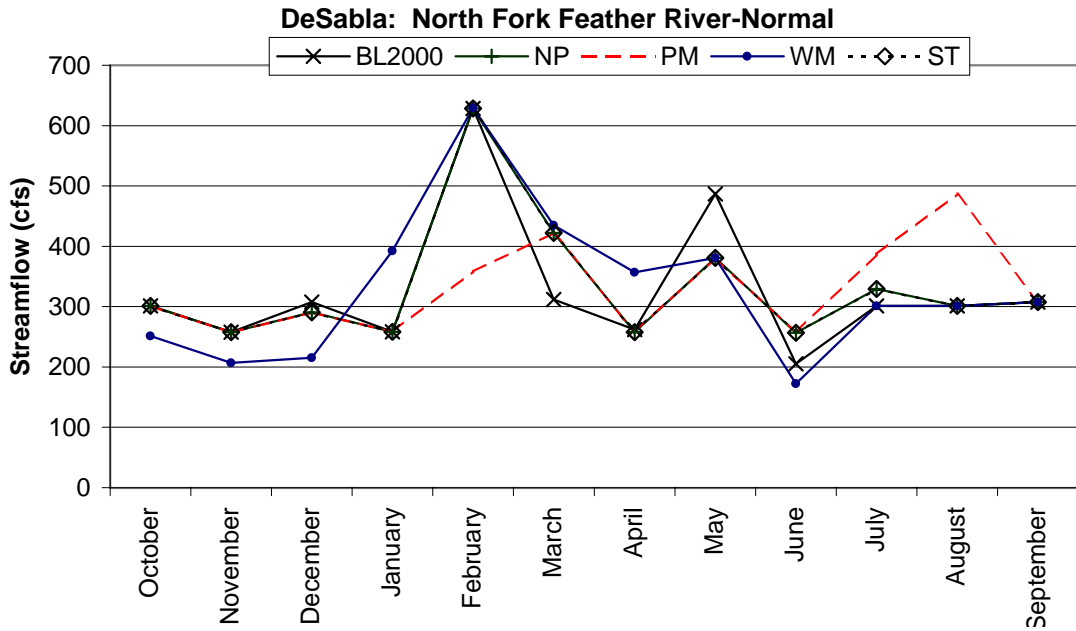




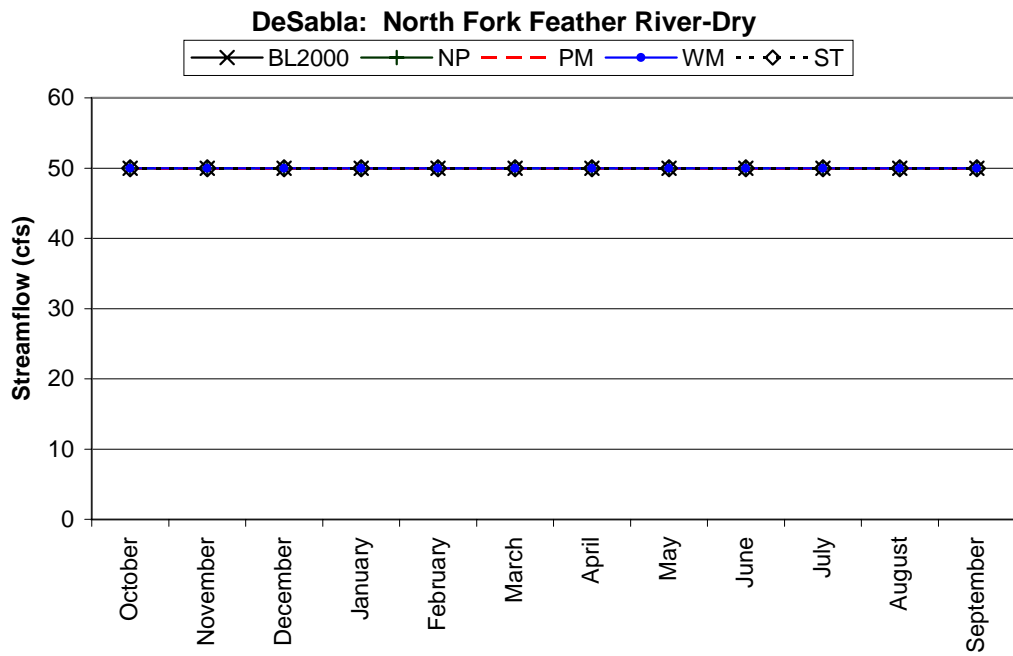
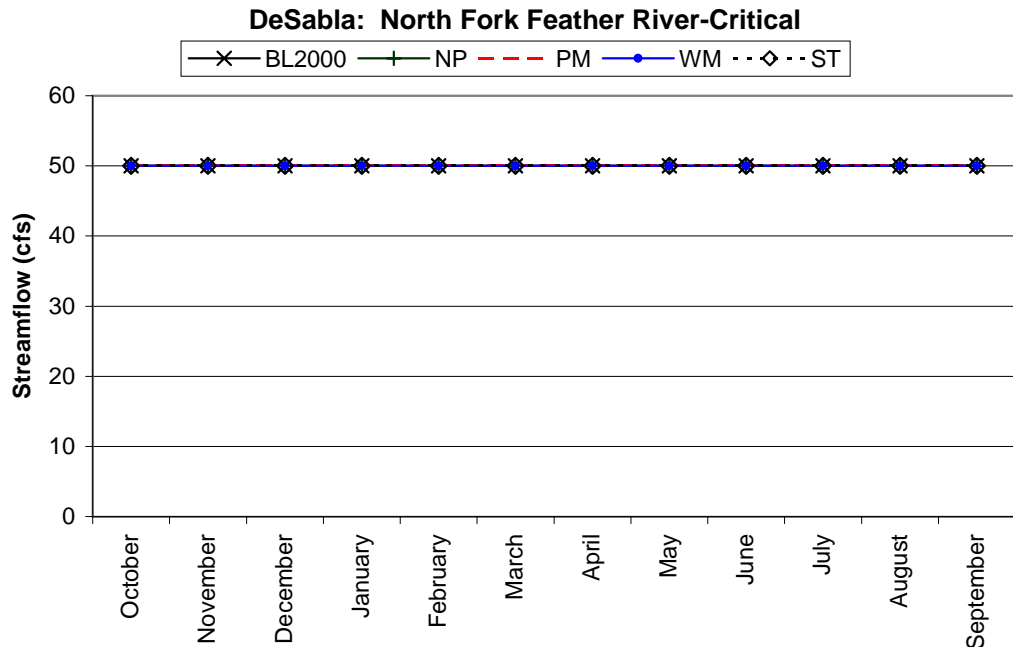
DeSabra: Appendix Figure-10 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



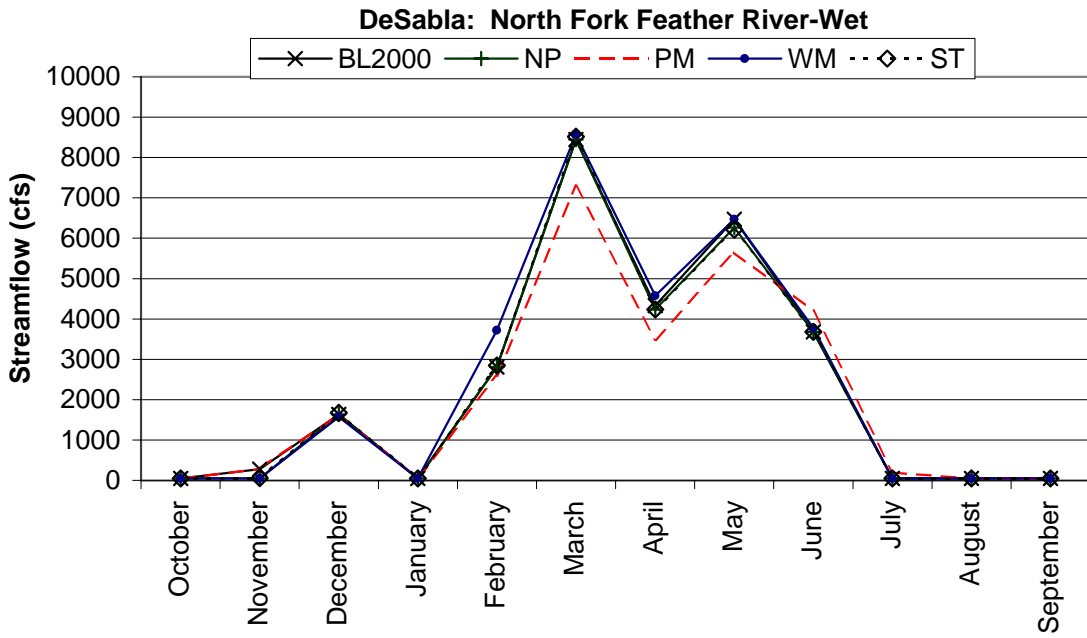
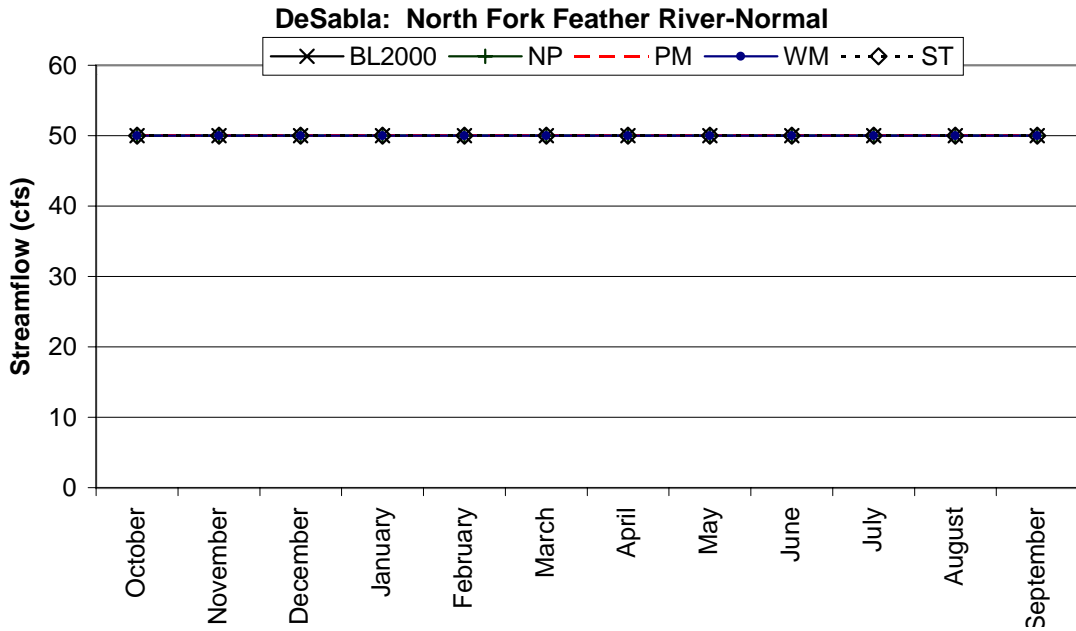
DeSaba: Appendix Figure-11 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



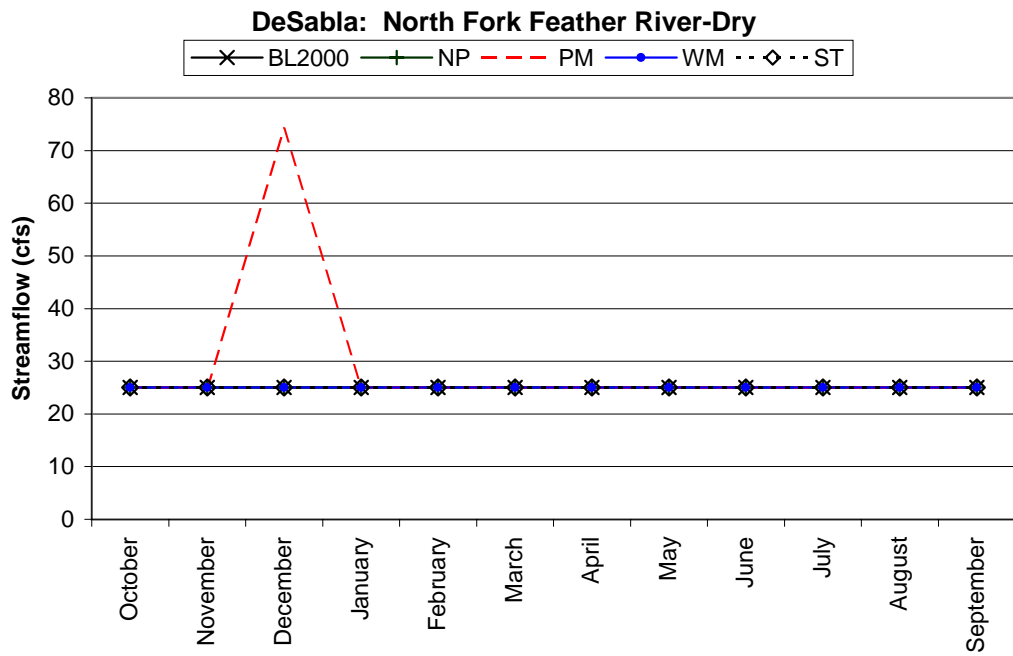
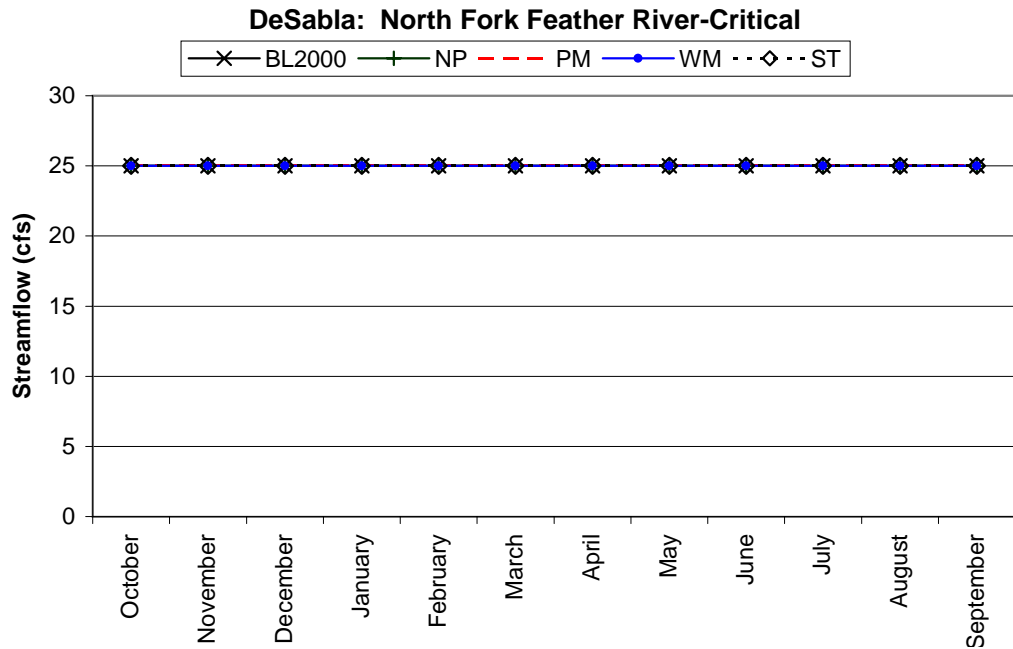
DeSabra: Appendix Figure-12 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



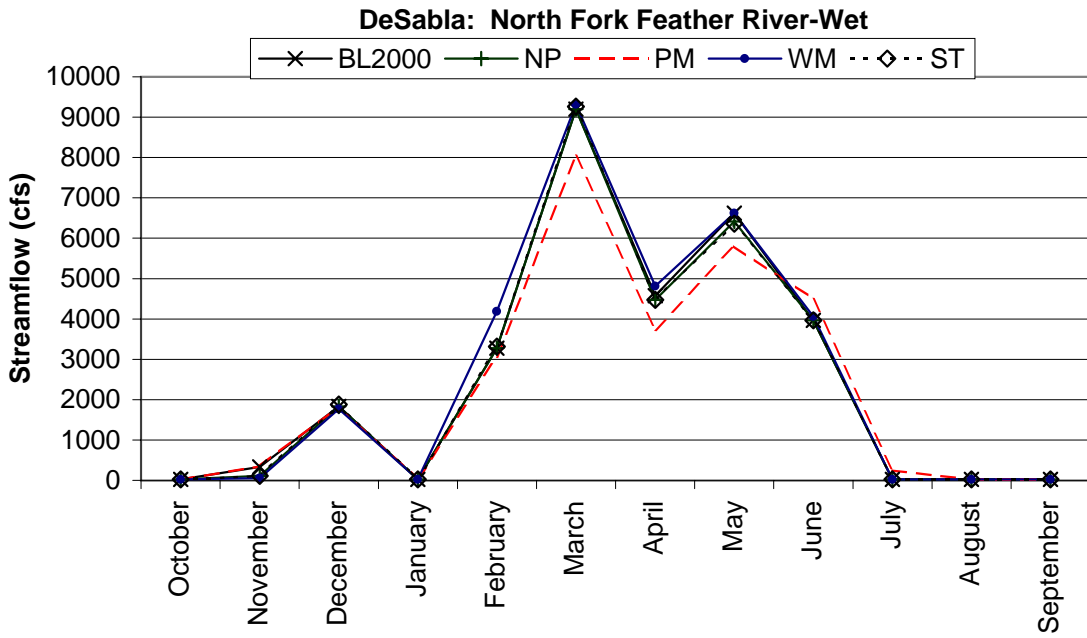
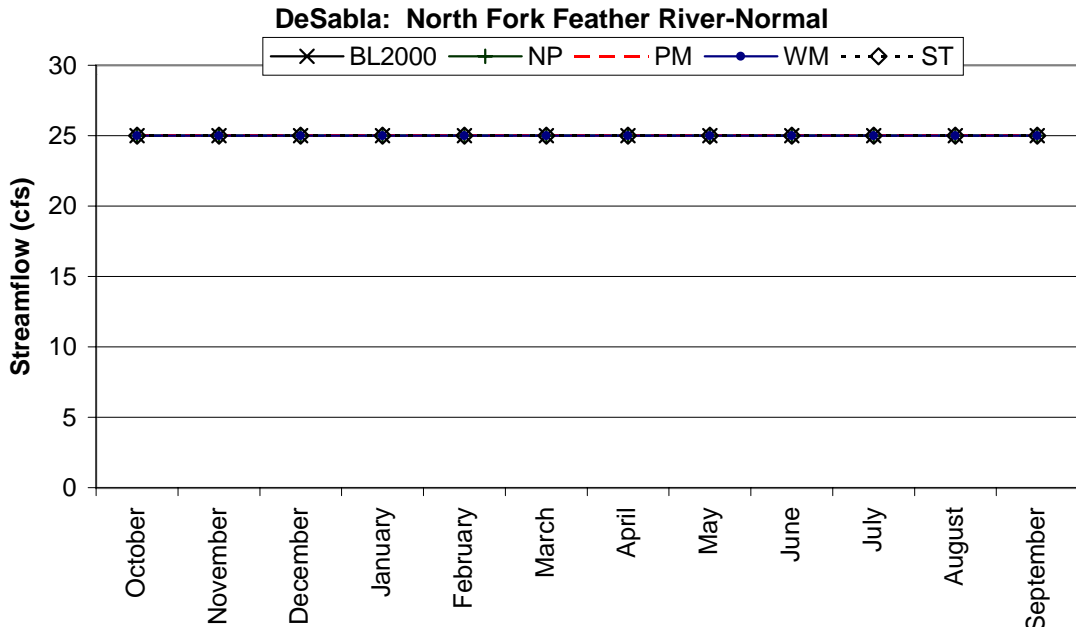
DeSaba: Appendix Figure-13 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



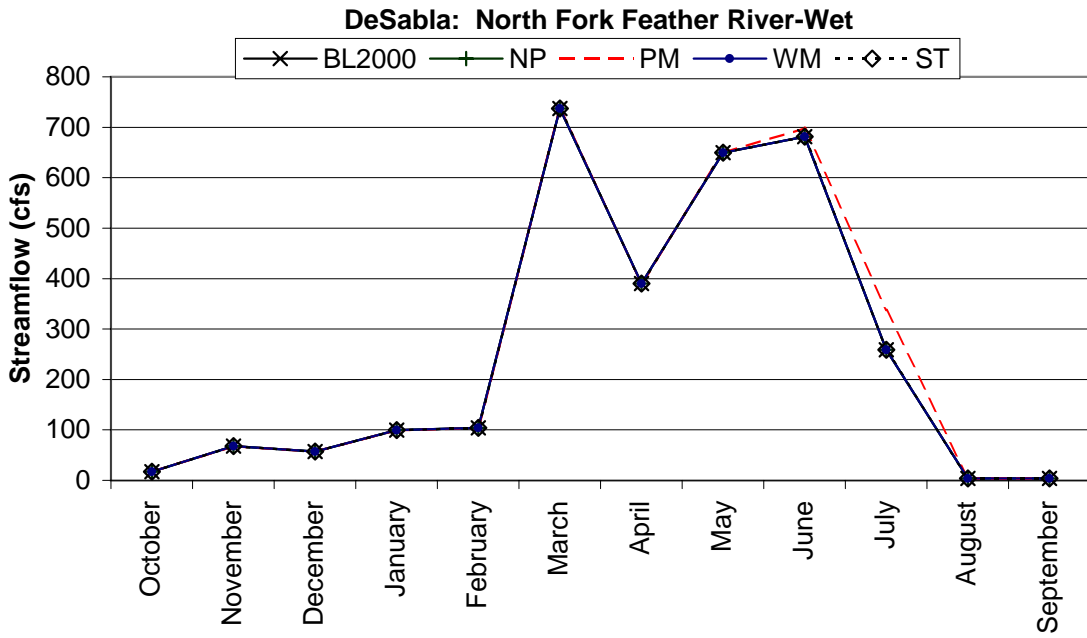
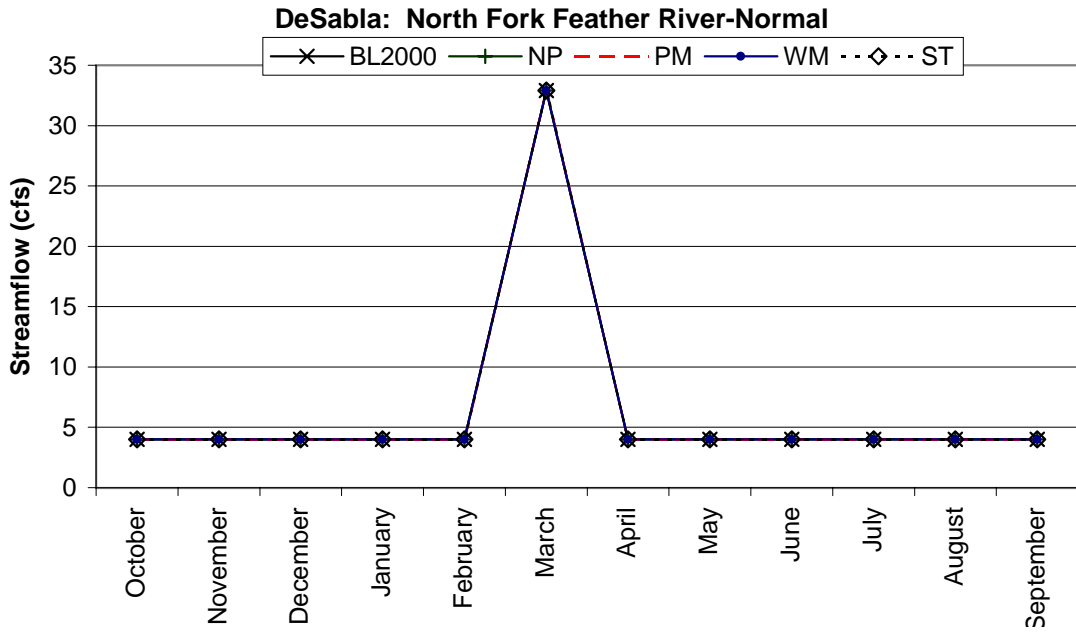
DeSabra: Appendix Figure-14 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



DeSaba: Appendix Figure-15 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

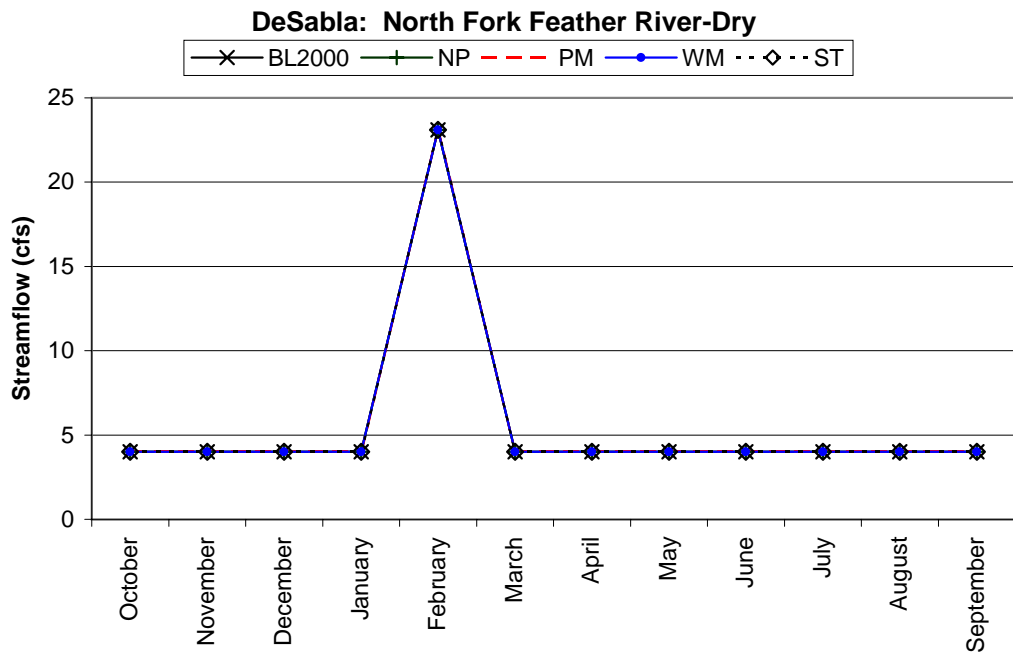
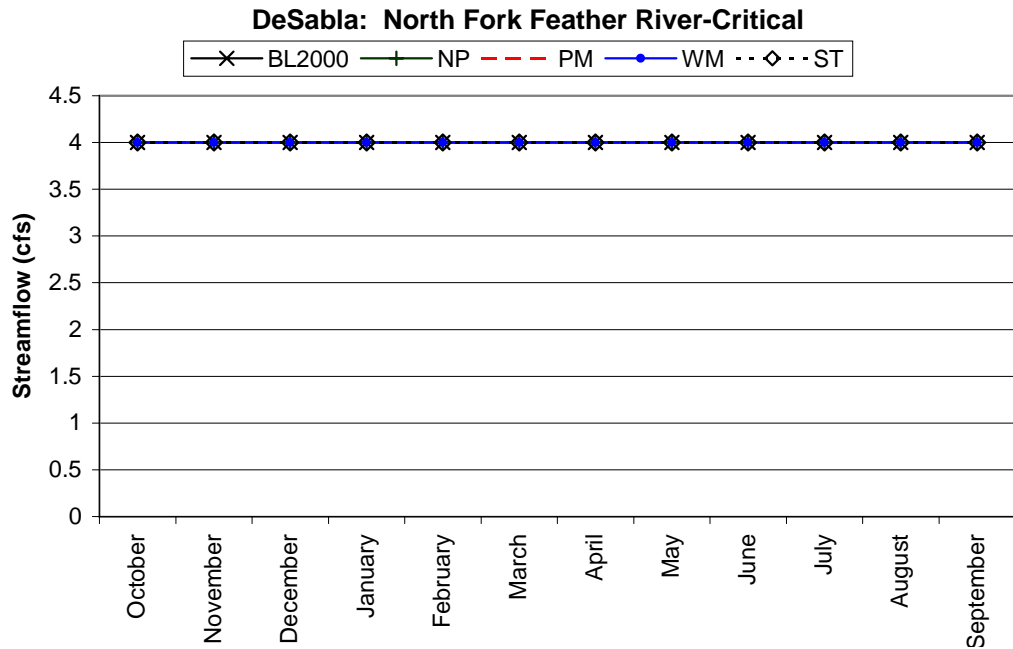


DeSabra: Appendix Figure-16 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

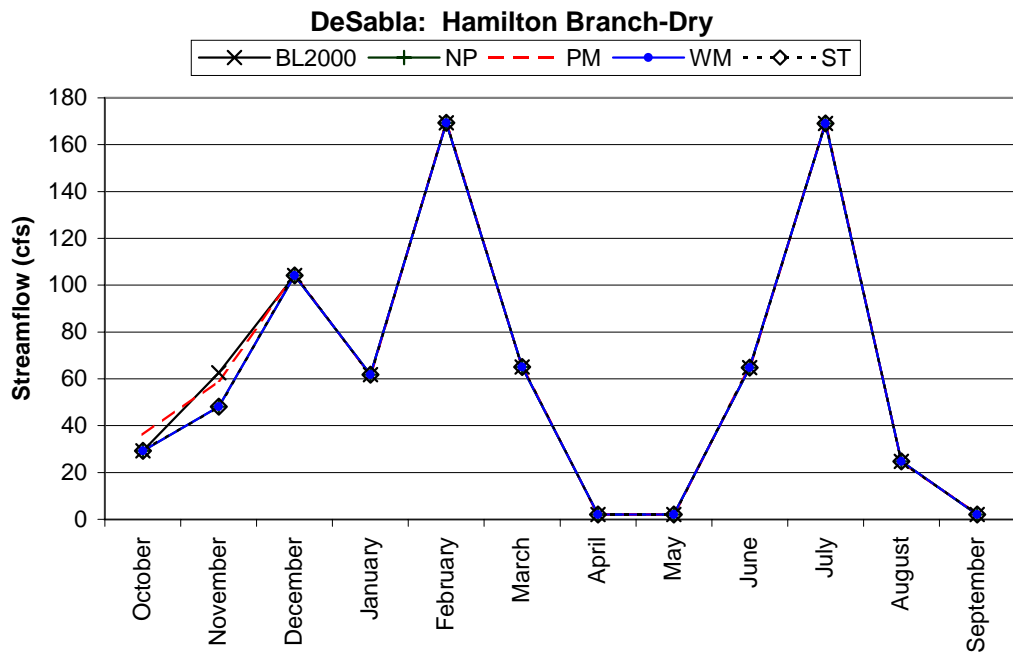
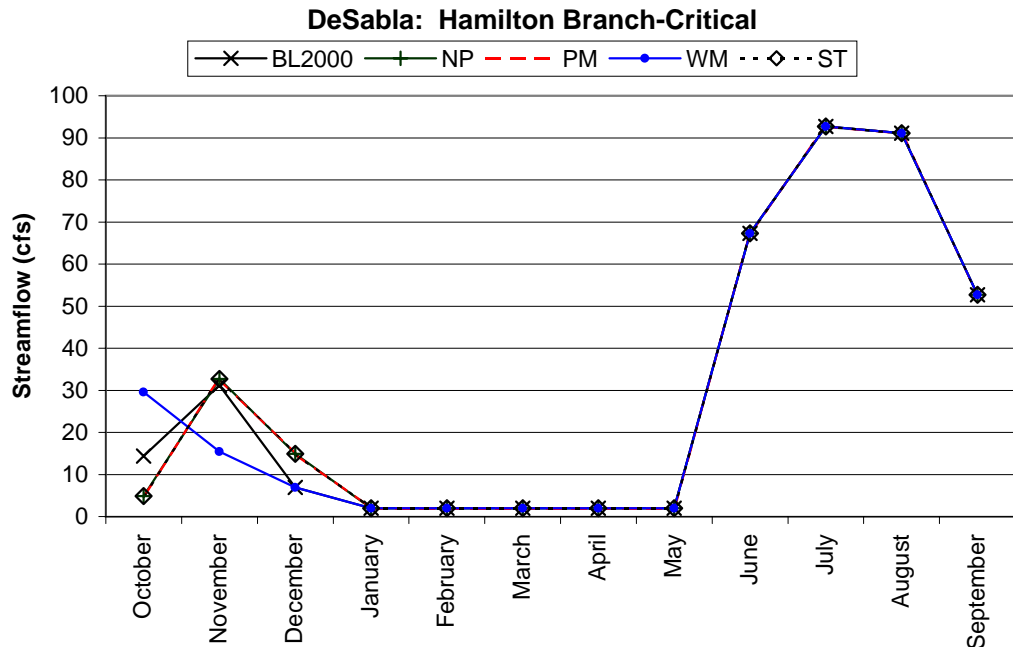


DeSabra: Appendix Figure-18 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

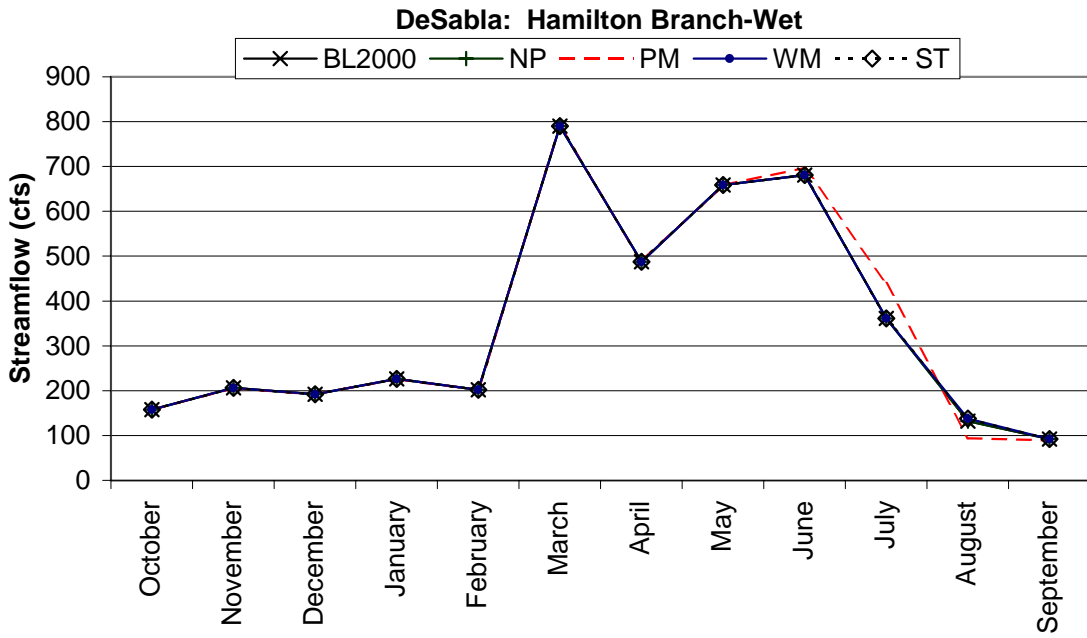
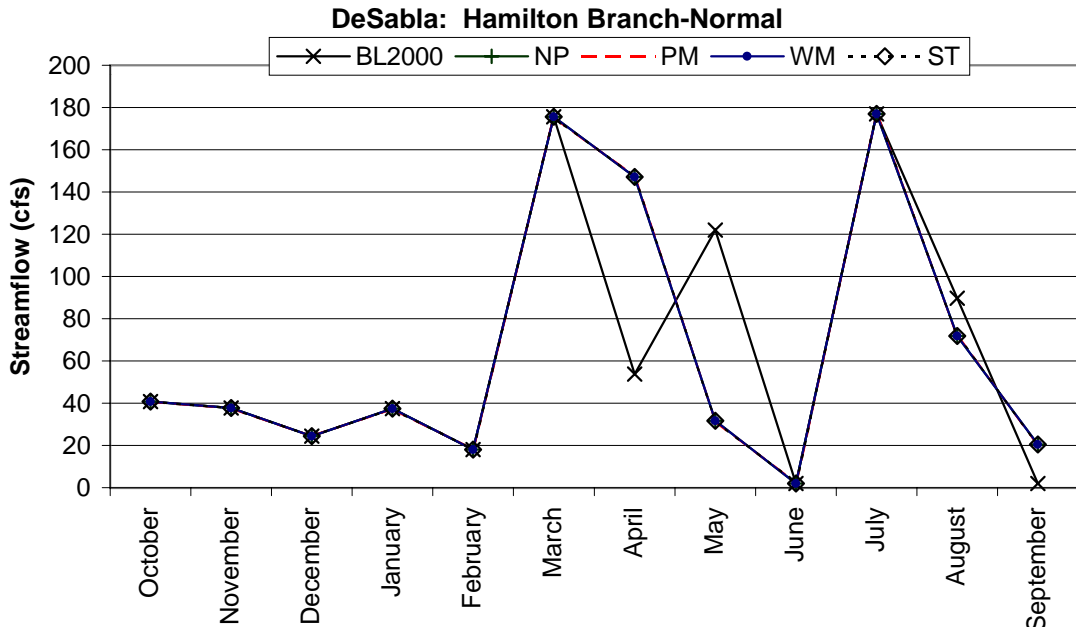




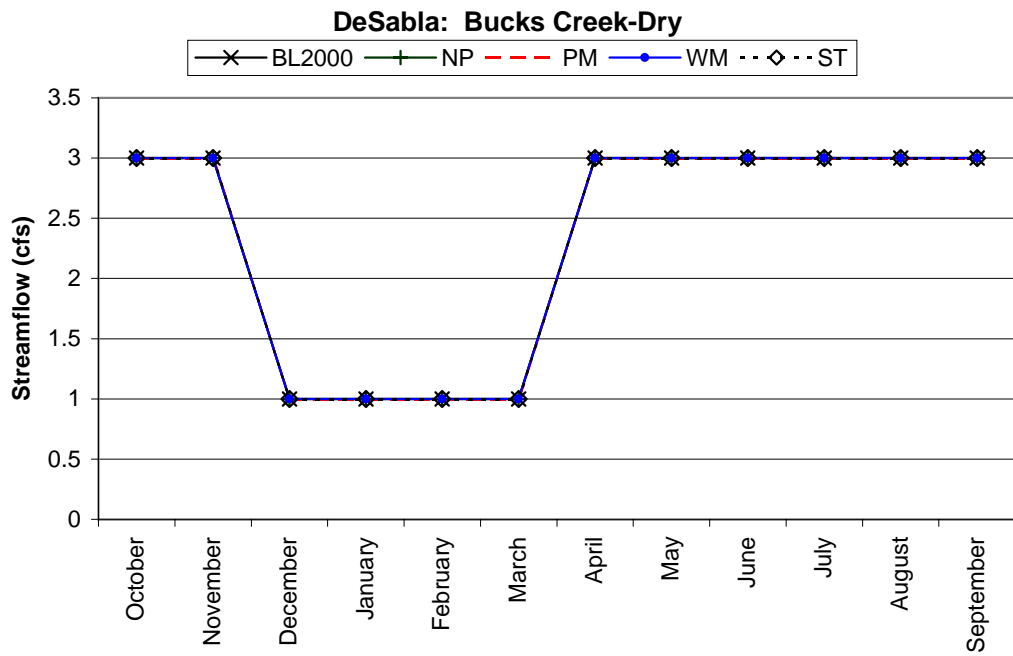
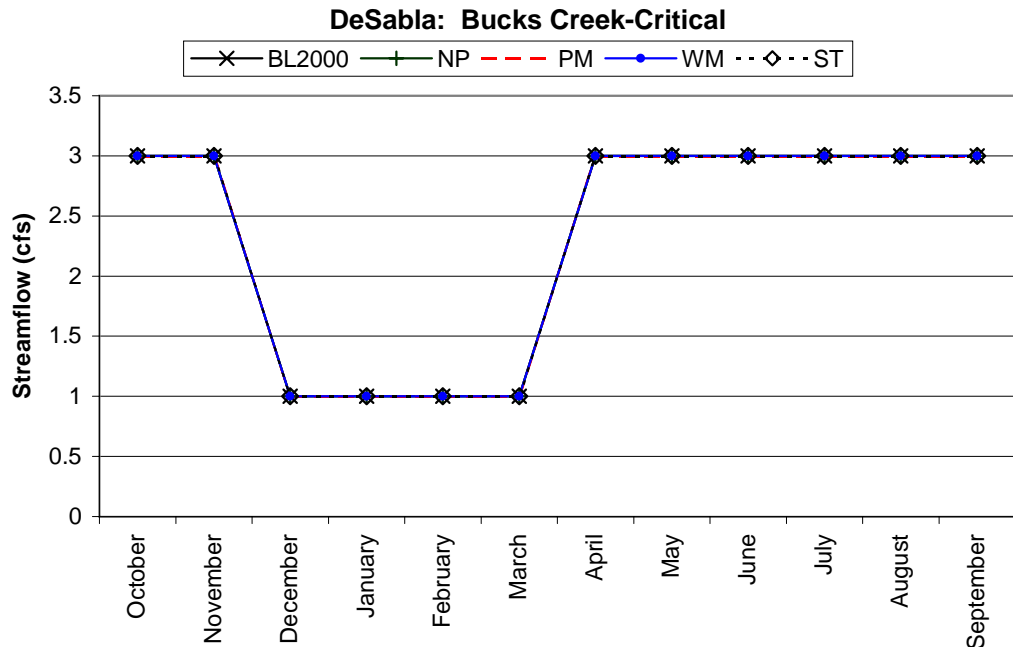
DeSabra: Appendix Figure-17 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



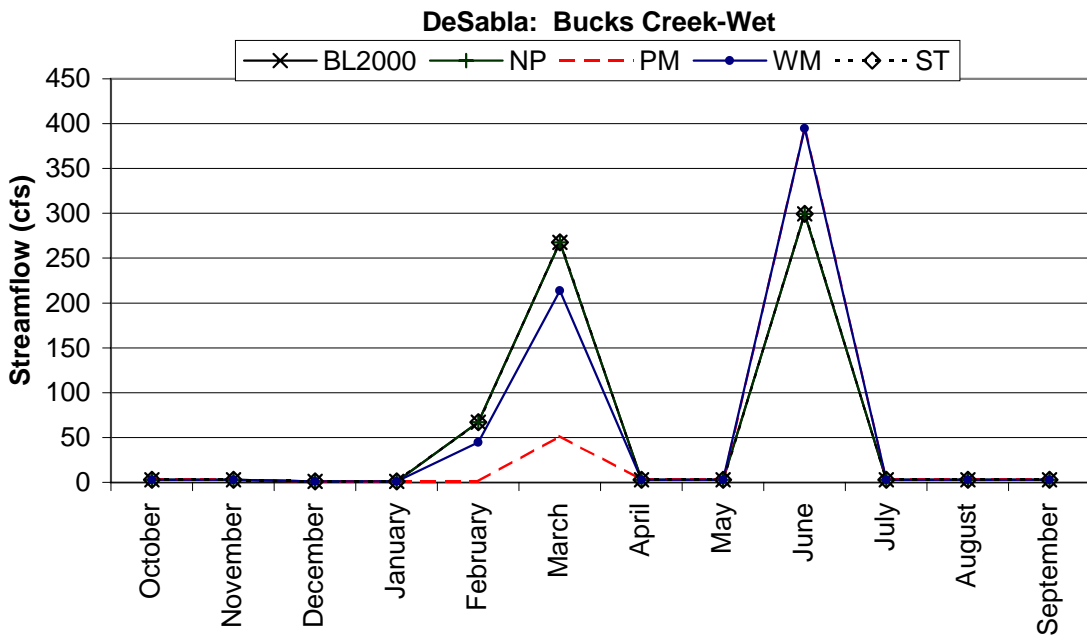
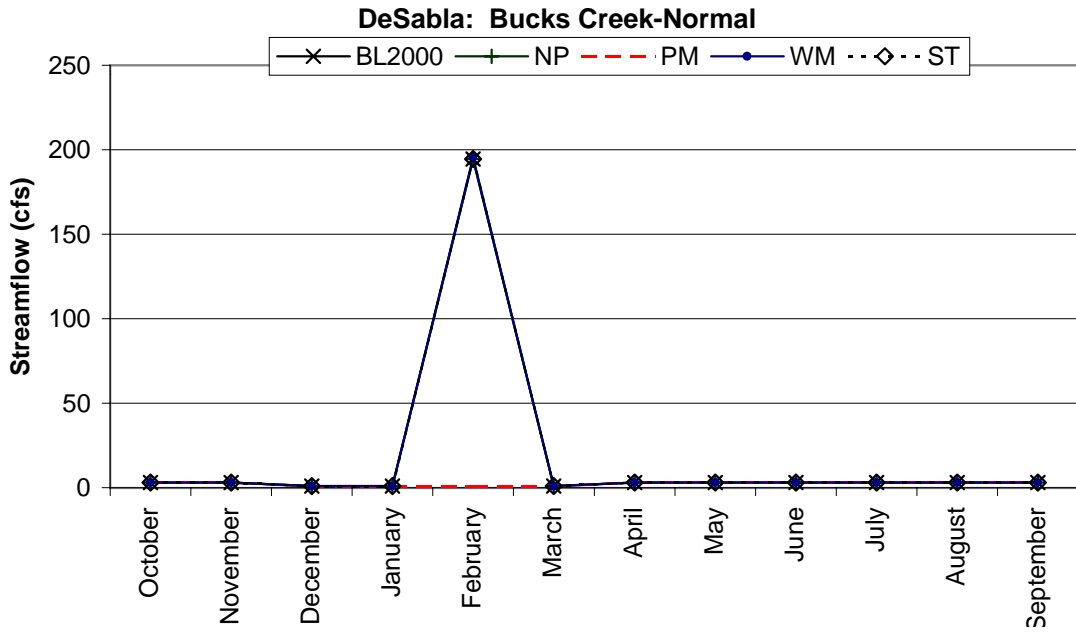
DeSabra: Appendix Figure-19 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



DeSabra: Appendix Figure-20 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

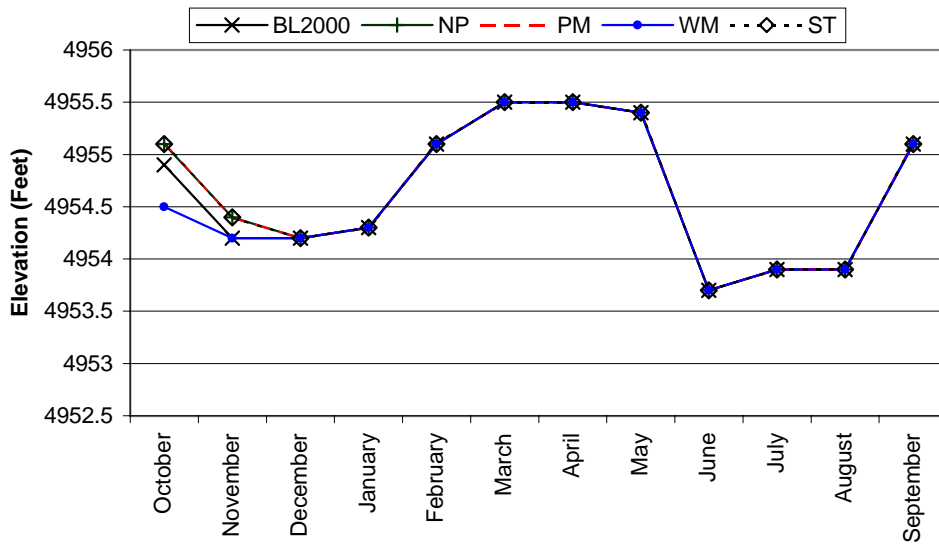
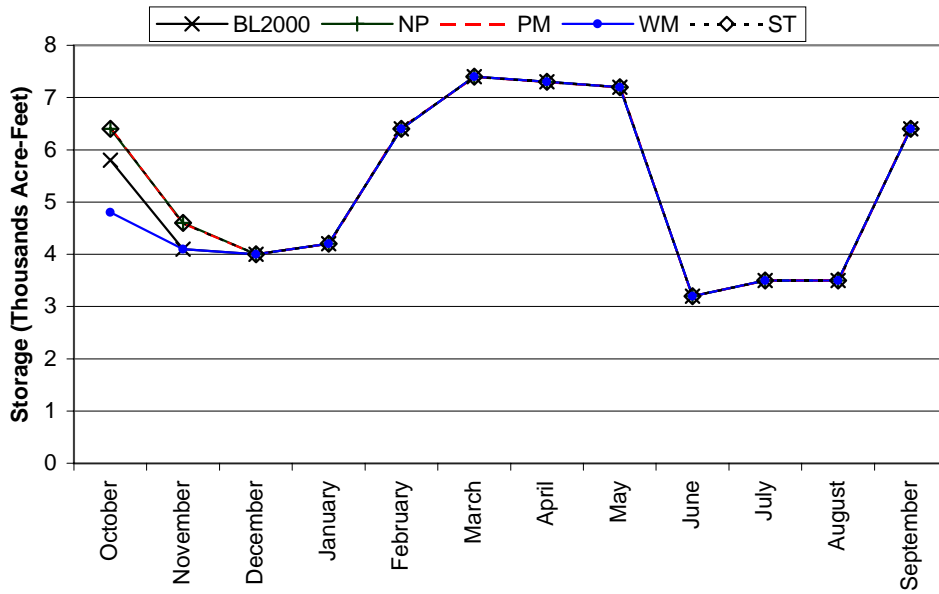


DeSabra: Appendix Figure-21 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



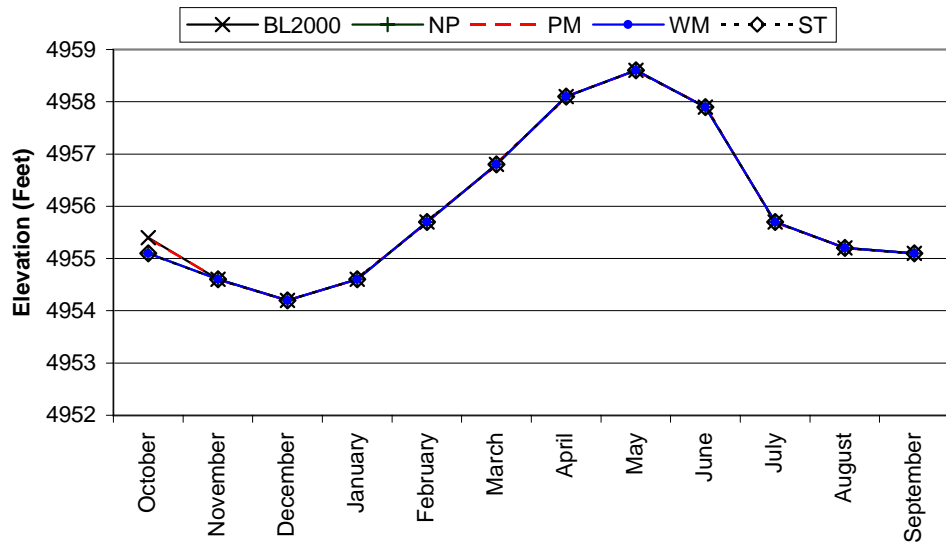
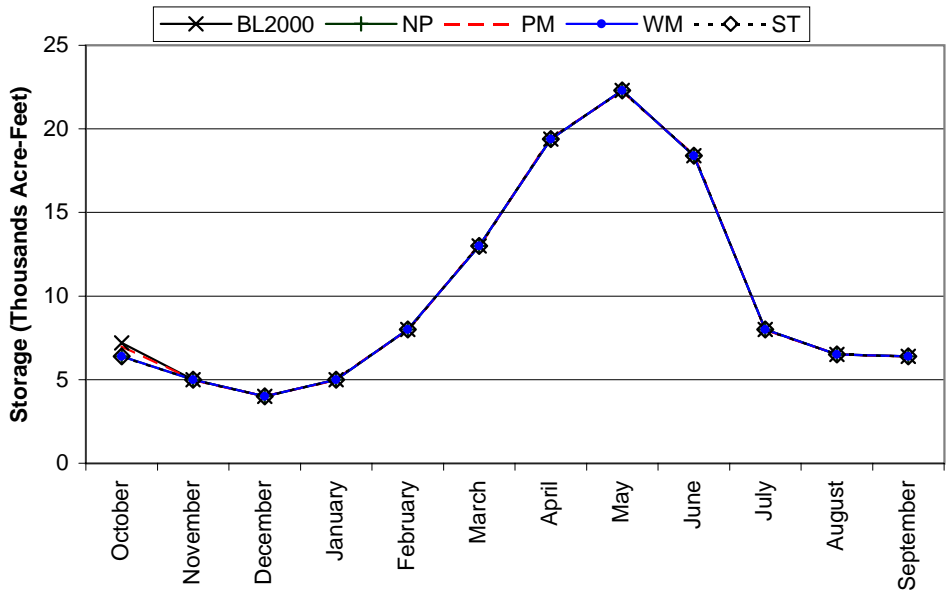
DeSaba: Appendix Figure-22 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

### Hamilton Branch: Mtn. Meadows Reservoir



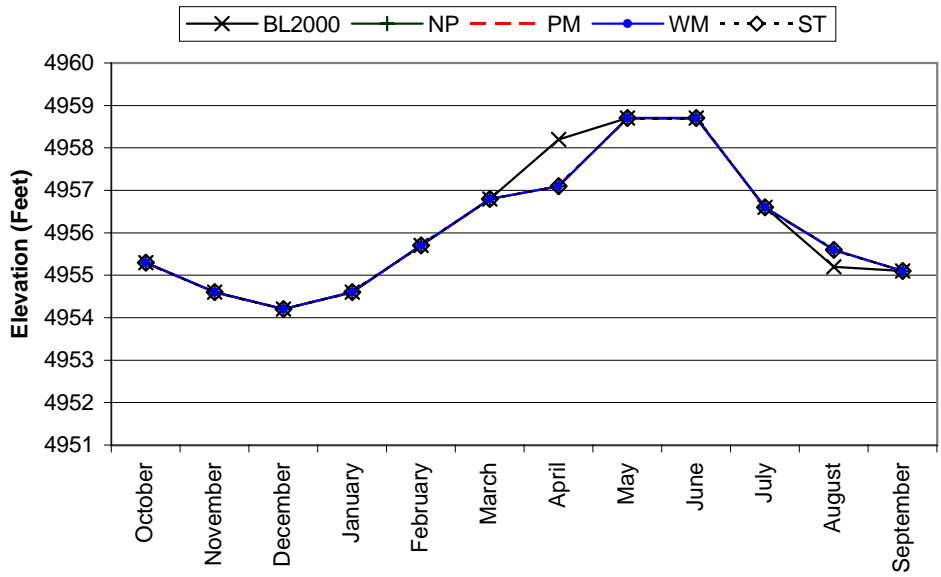
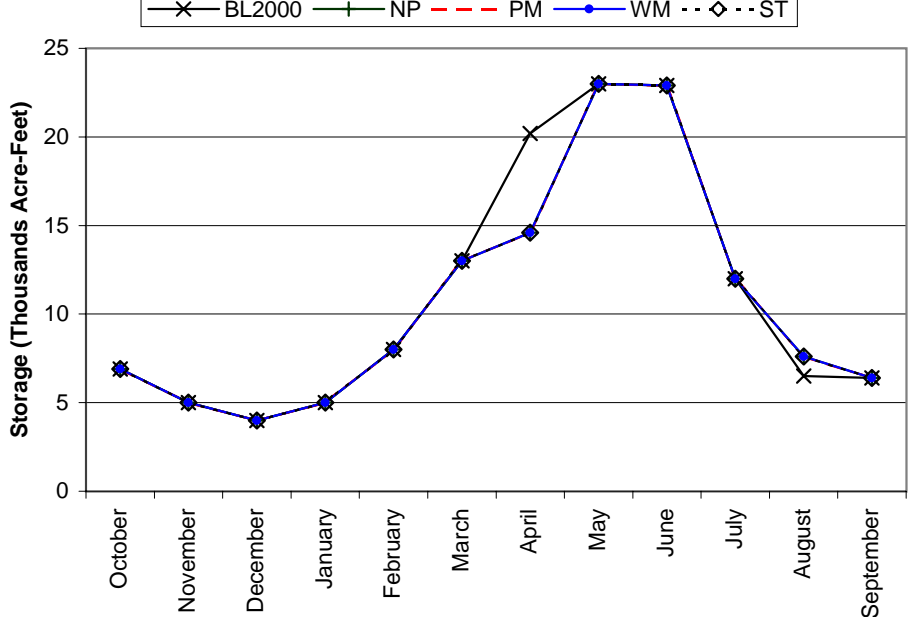
DeSabra : Appendix Figure-23 Modeled storage and elevations in a critically dry year, 1977.

### Hamilton Branch: Mtn. Meadows Reservoir



DeSabra : Appendix Figure-24 Modeled storage and elevations in a dry year, 1981.

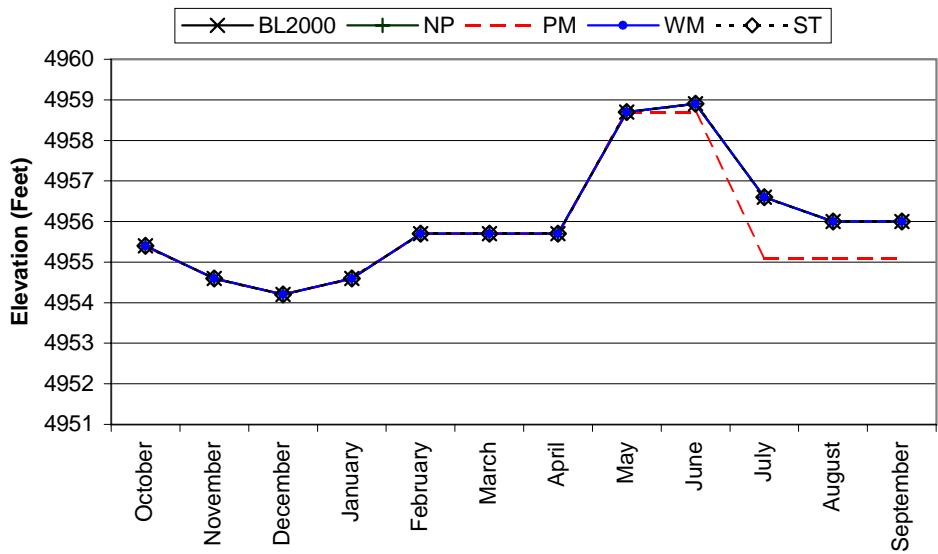
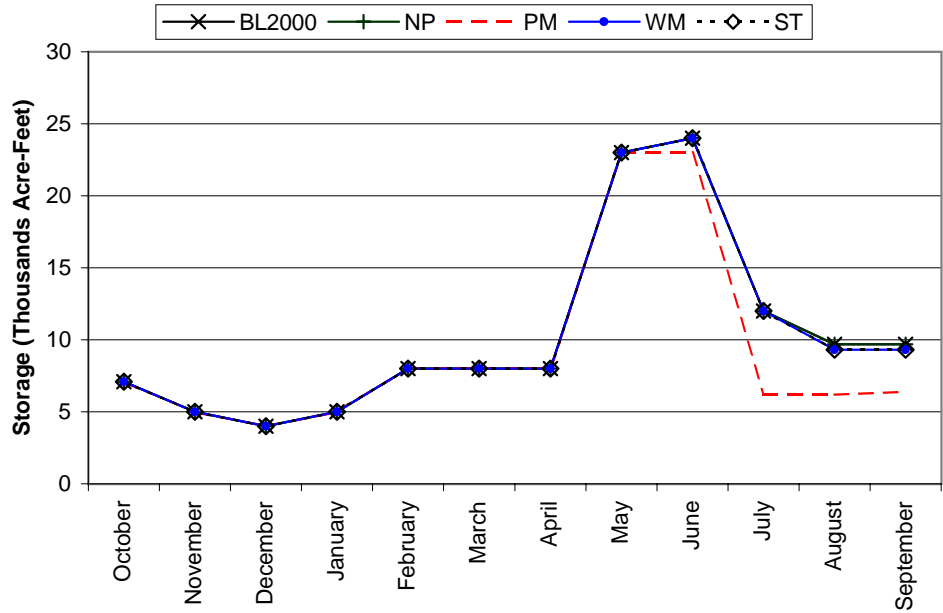
### Hamilton Branch: Mtn. Meadows Reservoir



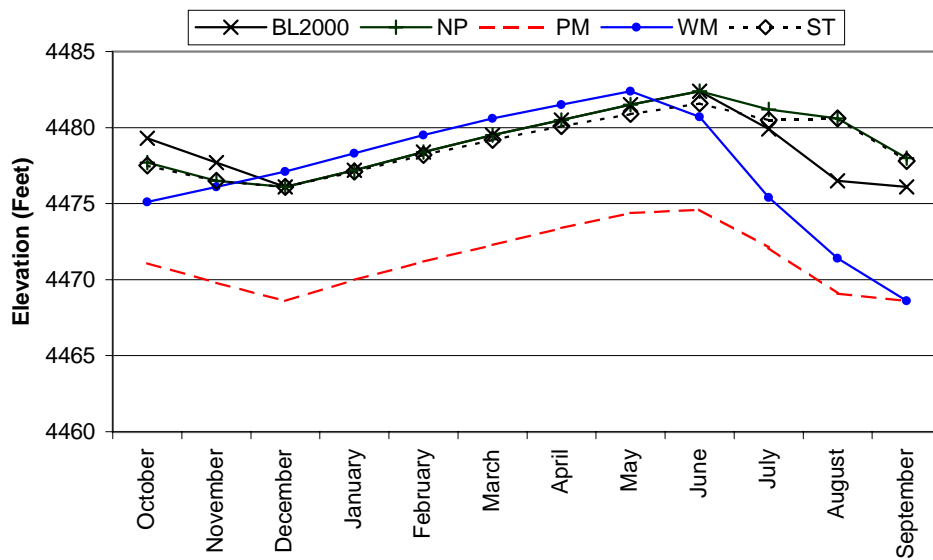
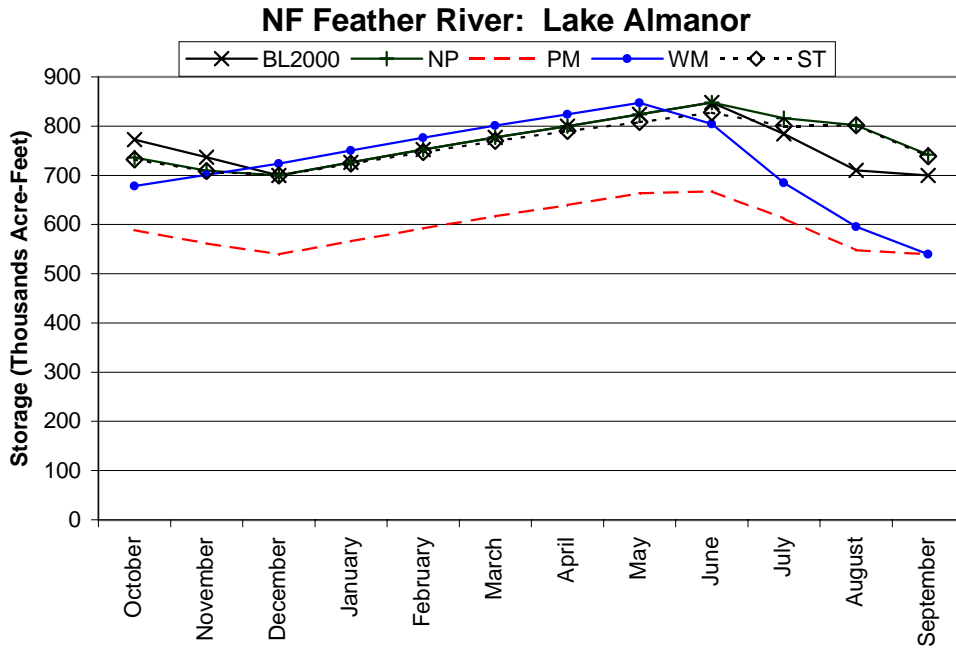
DeSabra : Appendix Figure-25 Modeled storage and elevations in a normal water year, 1979.



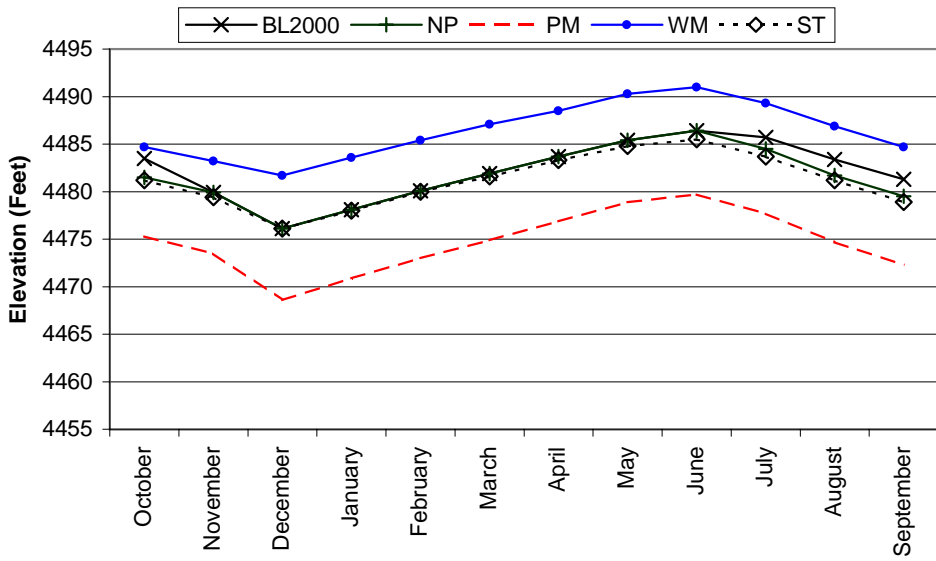
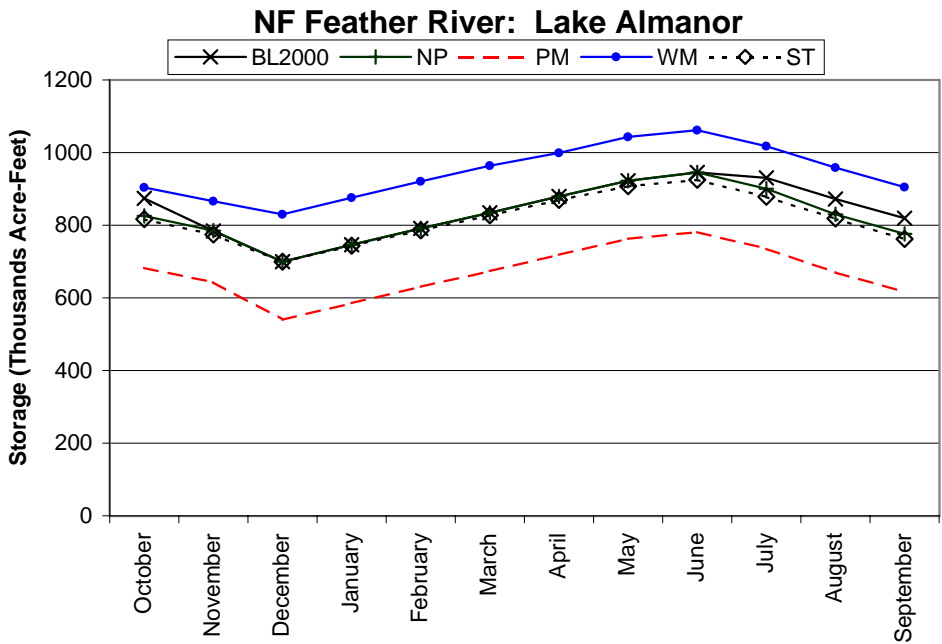
### Hamilton Branch: Mtn. Meadows Reservoir



DeSaba : Appendix Figure-26 Modeled storage and elevations in a wet water year, 1983.

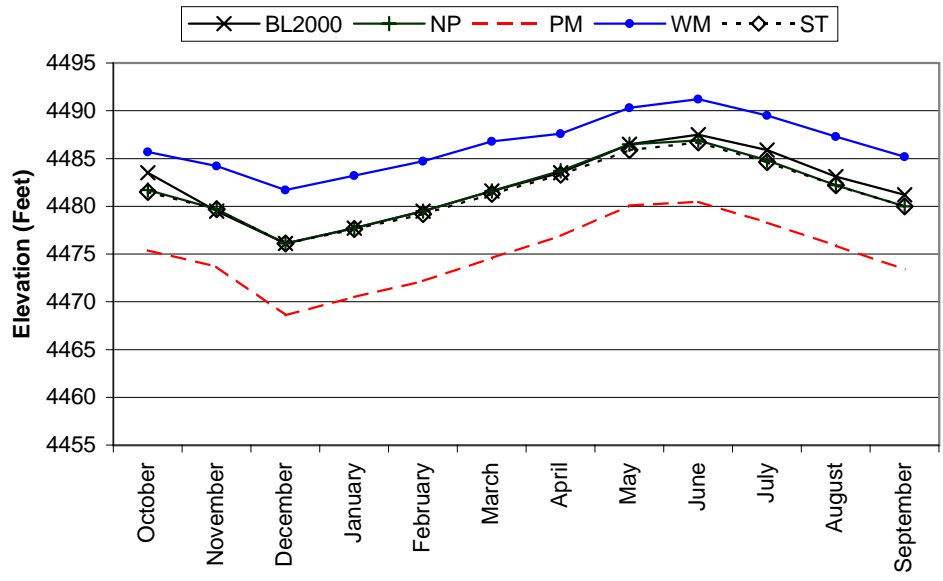
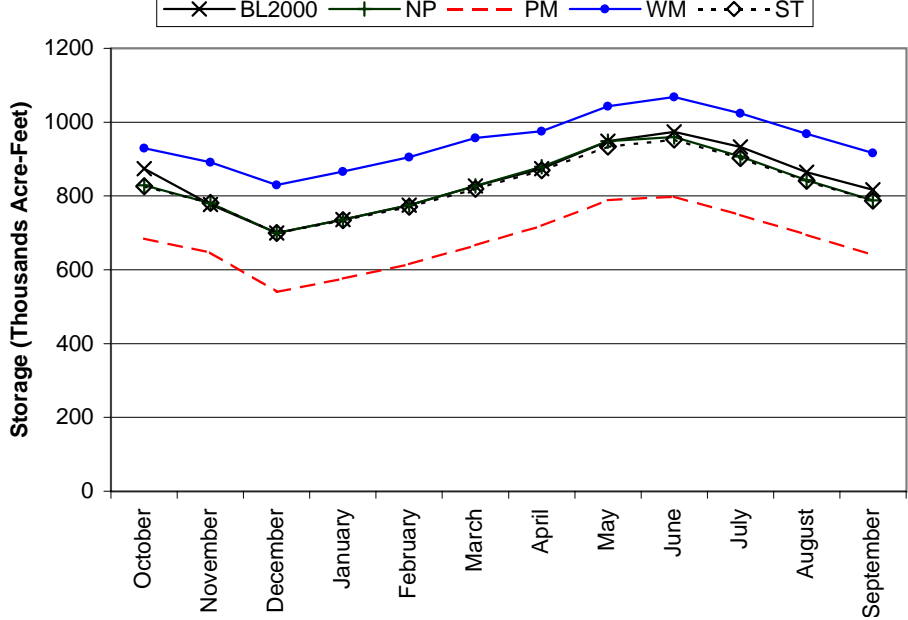


DeSaba: Appendix Figure-27 Modeled storage and elevations in a critically dry year, 1977.

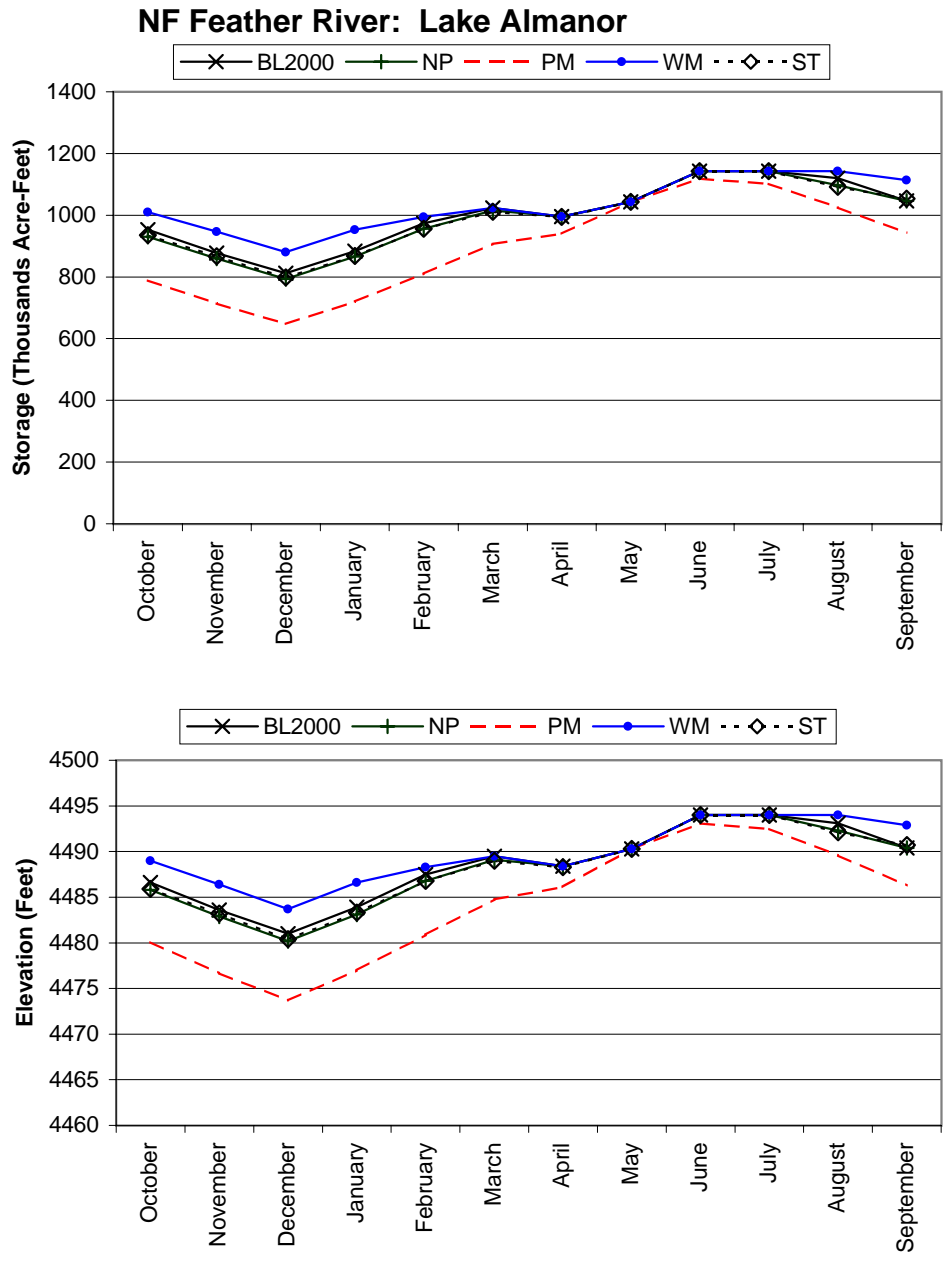


DeSabra: Appendix Figure-28 Modeled storage and elevations in a dry year, 1981.

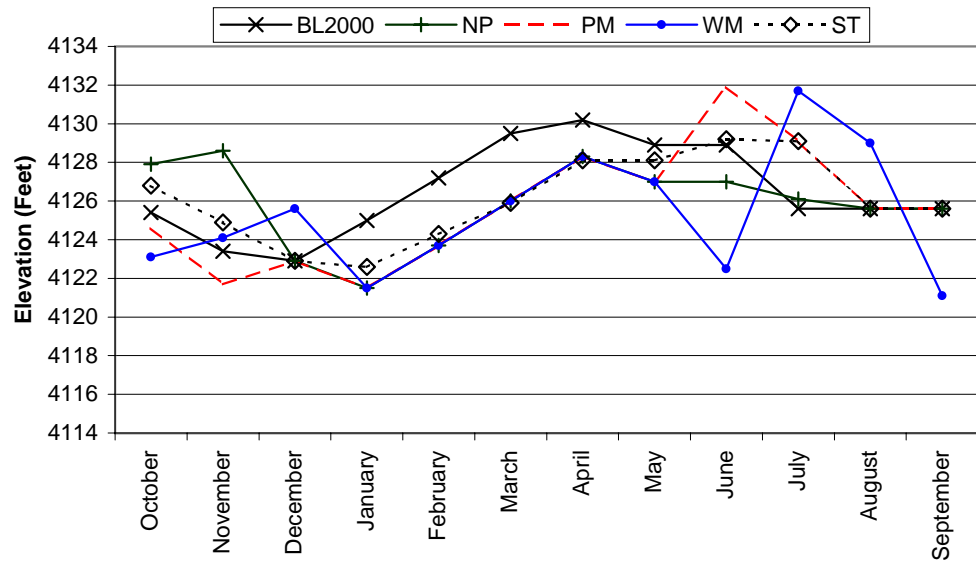
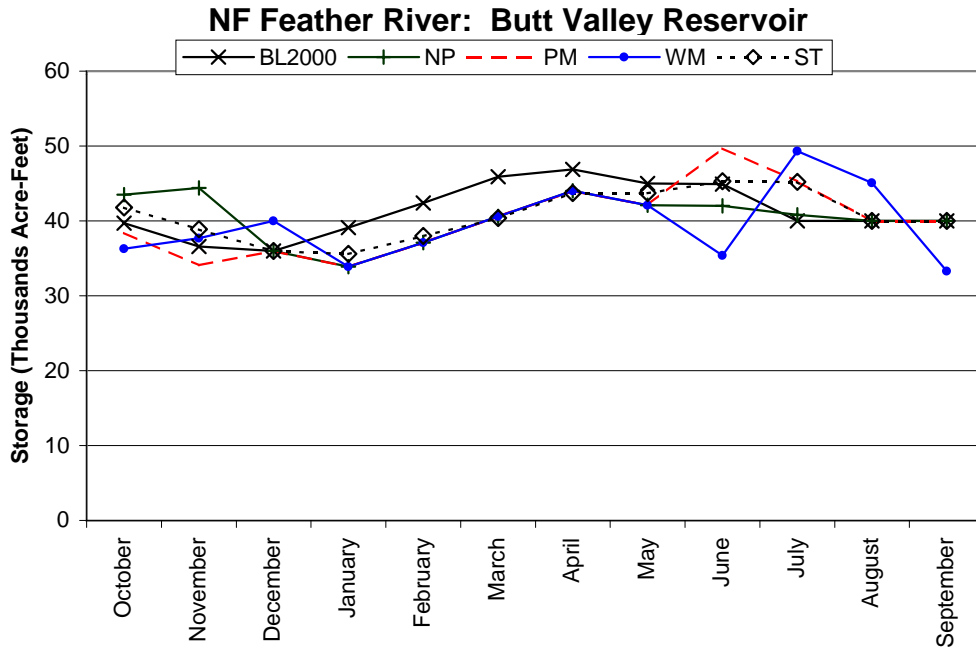
### NF Feather River: Lake Almanor



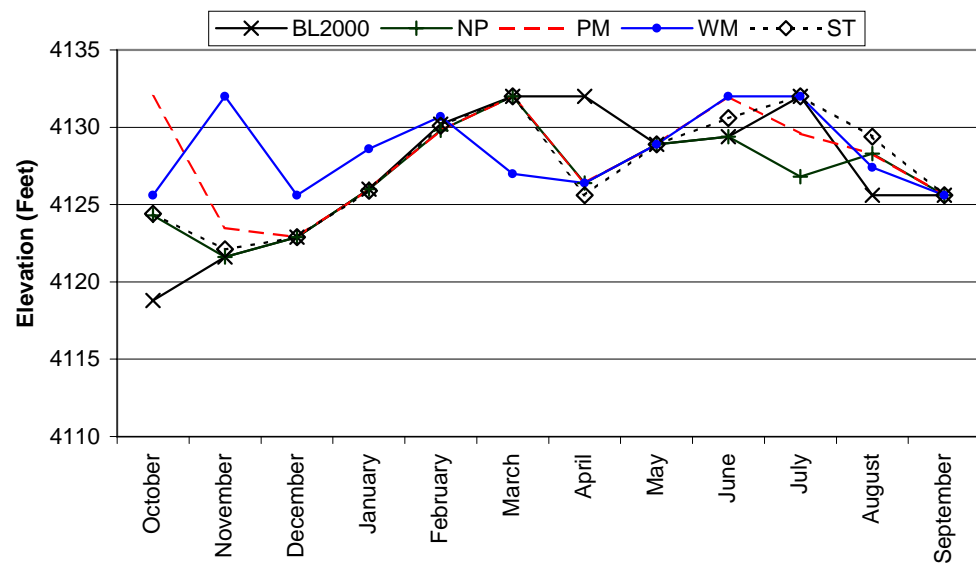
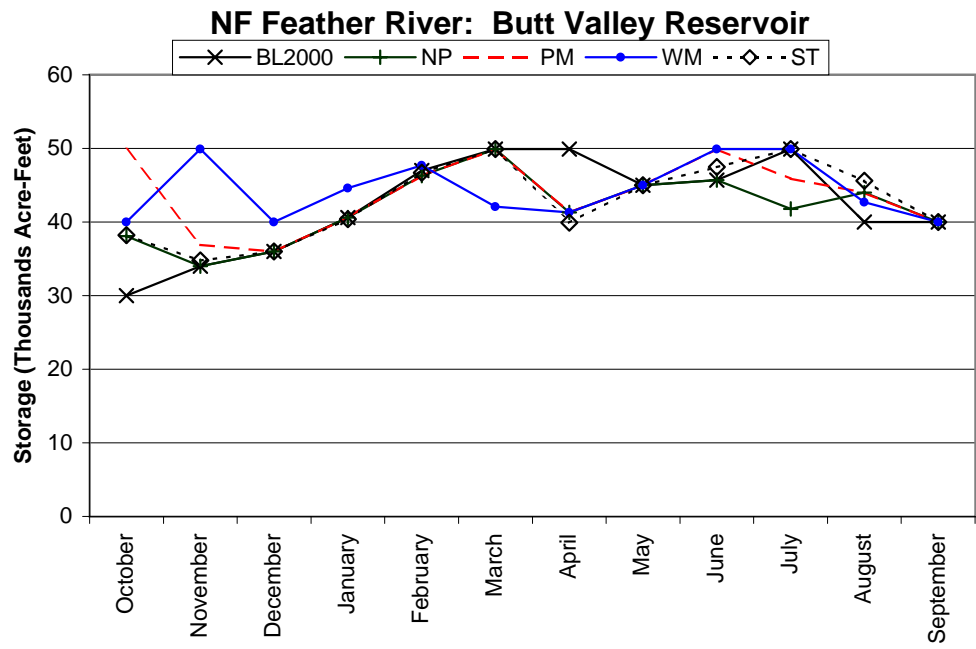
DeSaba: Appendix Figure-29 Modeled storage and elevations in a normal water year, 1979.



DeSaba: Appendix Figure-30 Modeled storage and elevations in a wet water year, 1983.

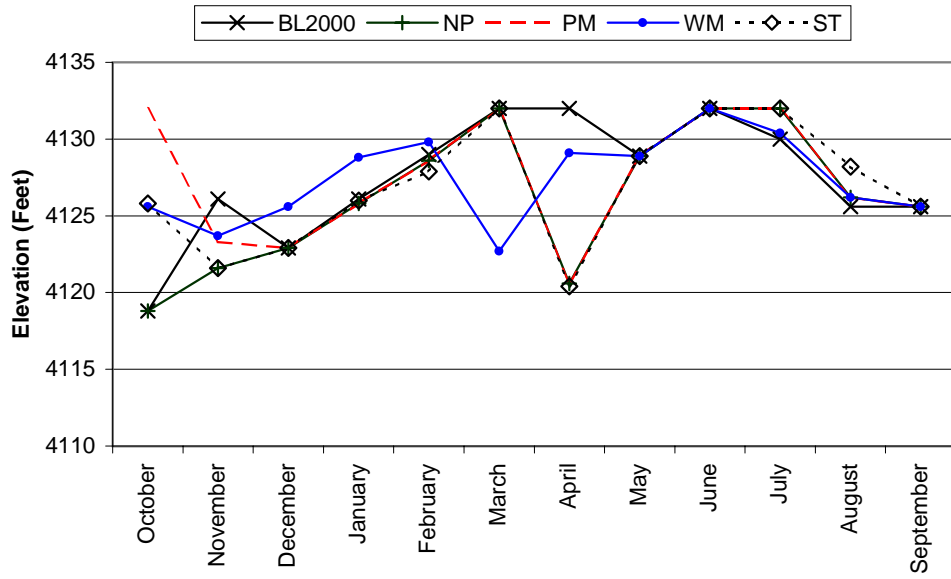
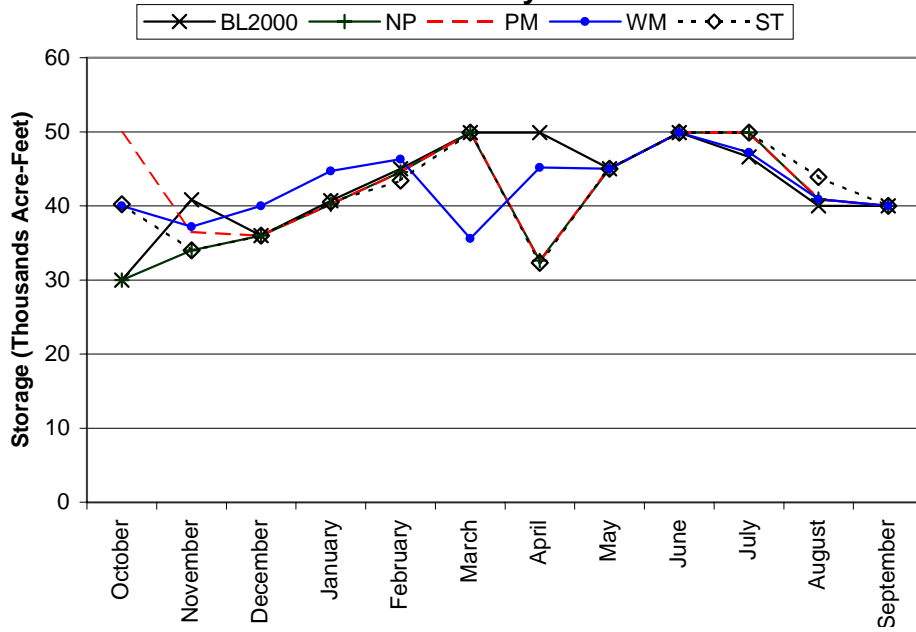


DeSaba: Appendix Figure-31 Modeled storage and elevations in a critically dry year, 1977.



DeSaba: Appendix Figure-32 Modeled storage and elevations in a dry year, 1981.

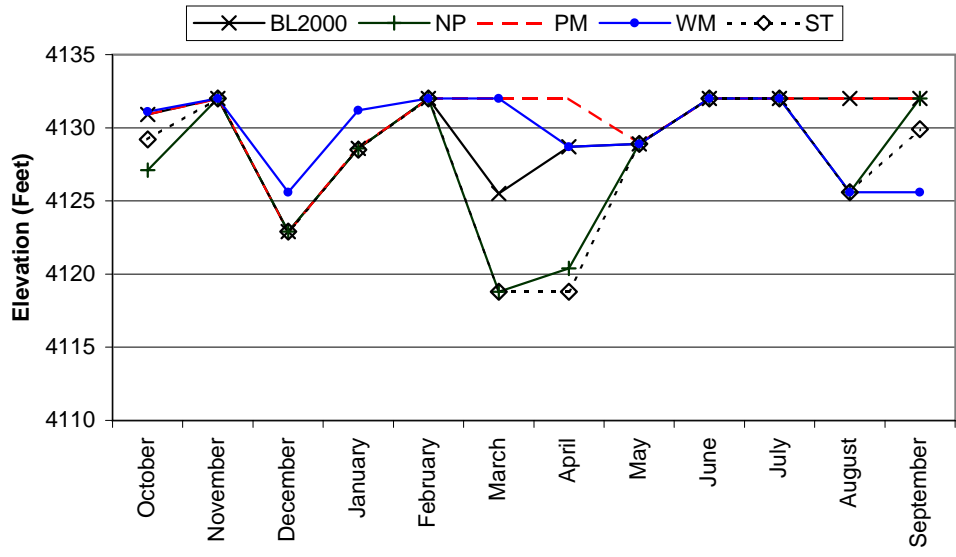
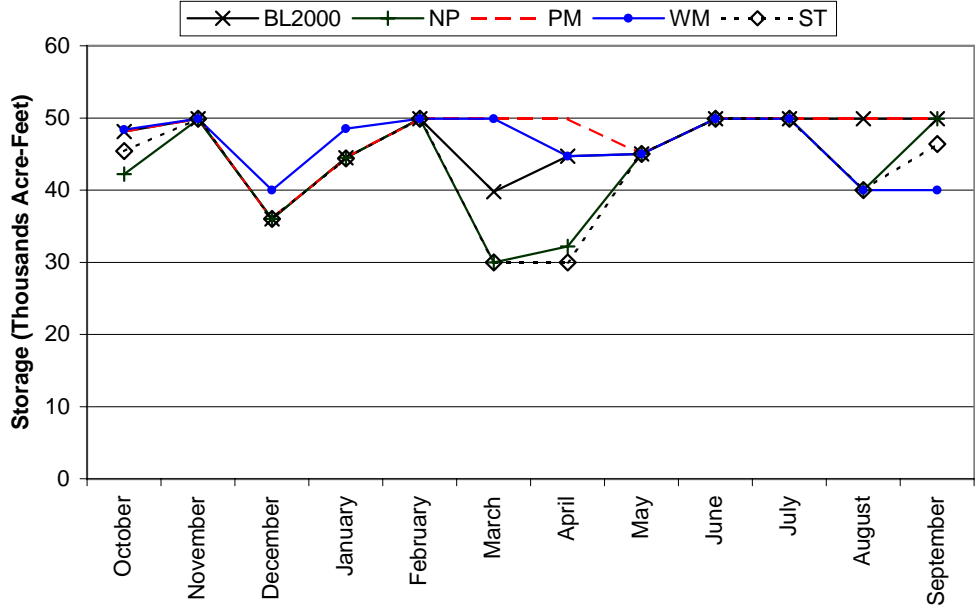
### NF Feather River: Butt Valley Reservoir



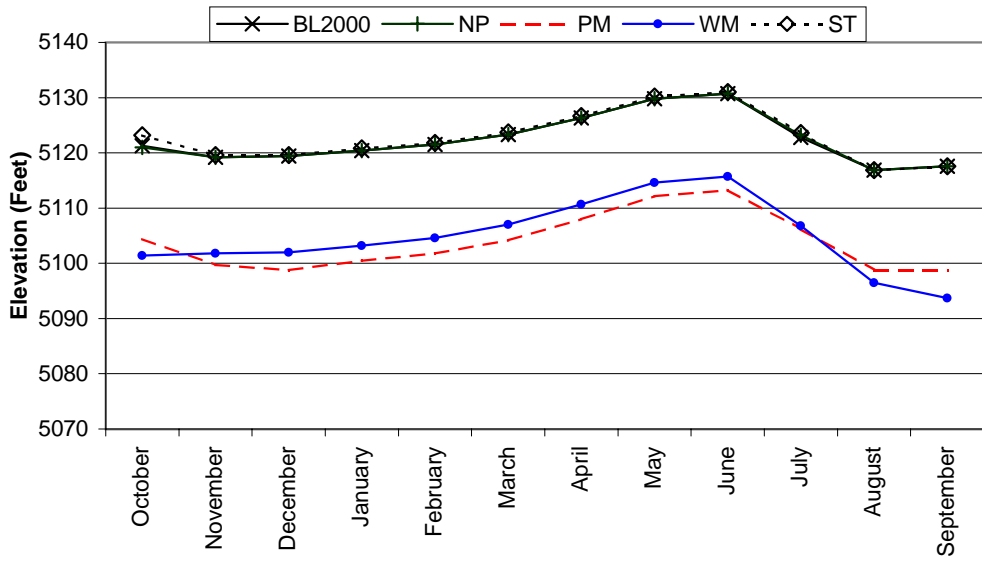
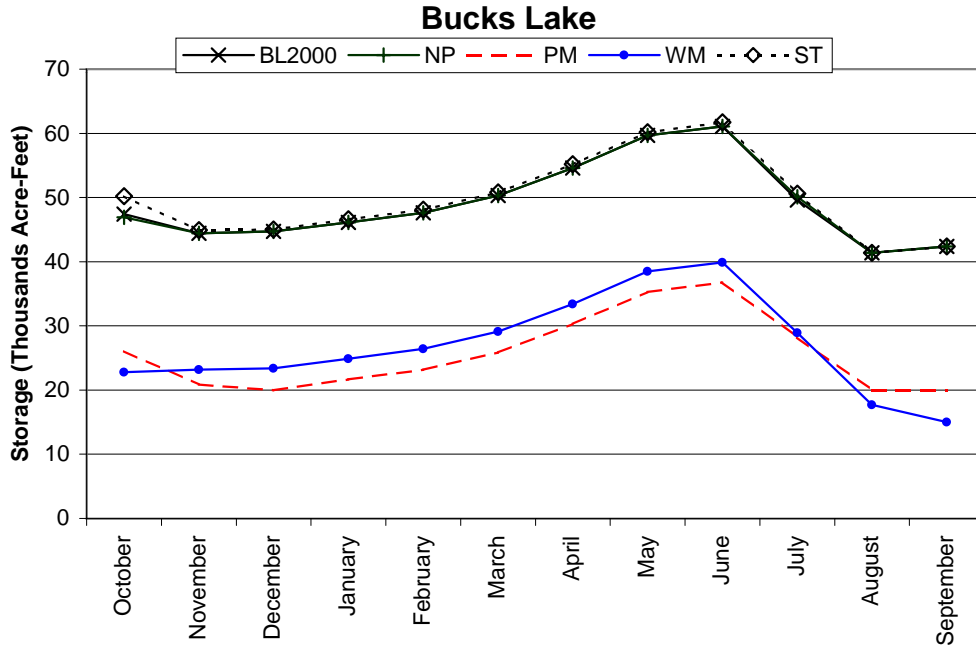
DeSaba: Appendix Figure-33 Modeled storage and elevations in a normal water year, 1979.



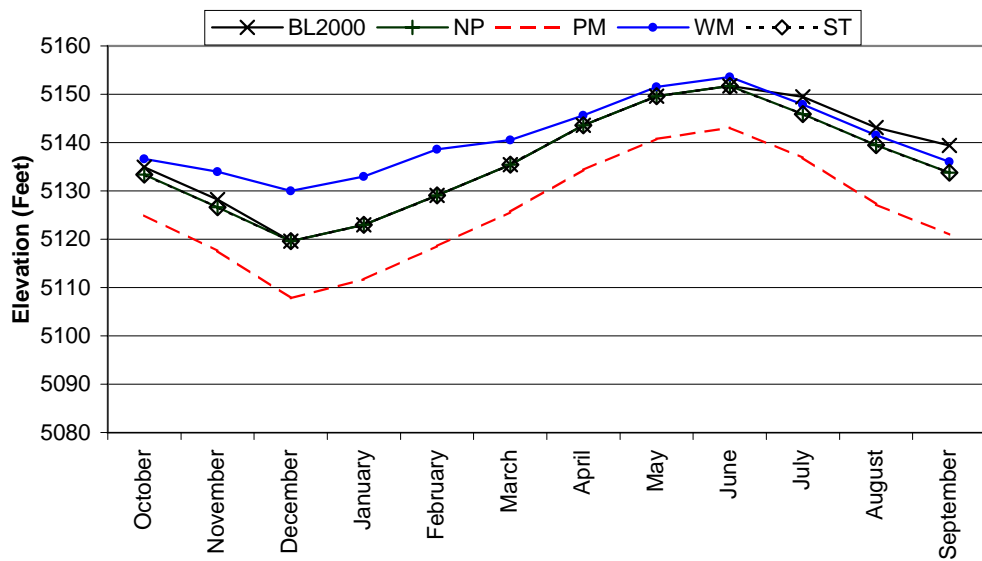
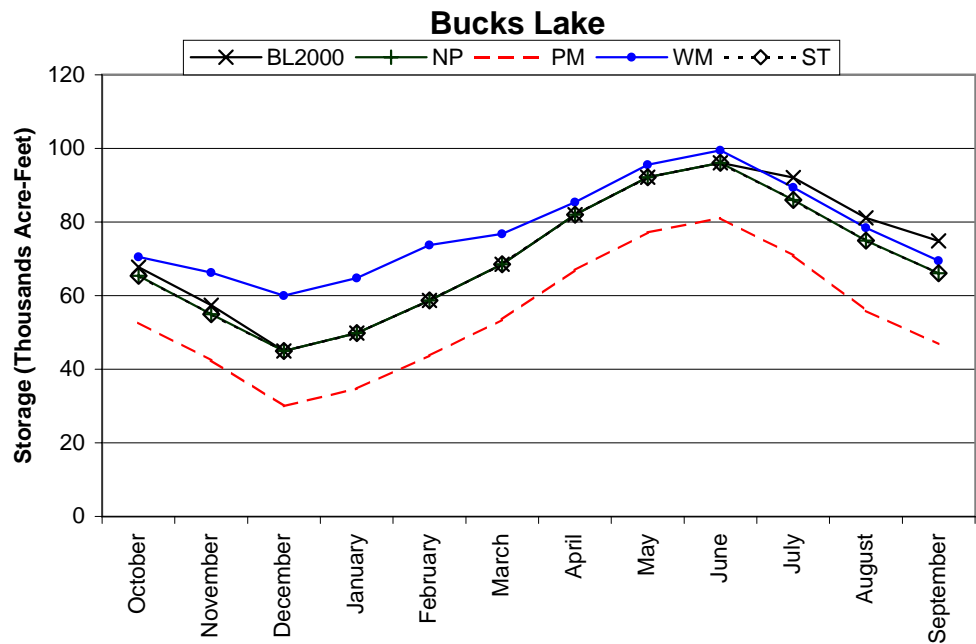
### NF Feather River: Butt Valley Reservoir



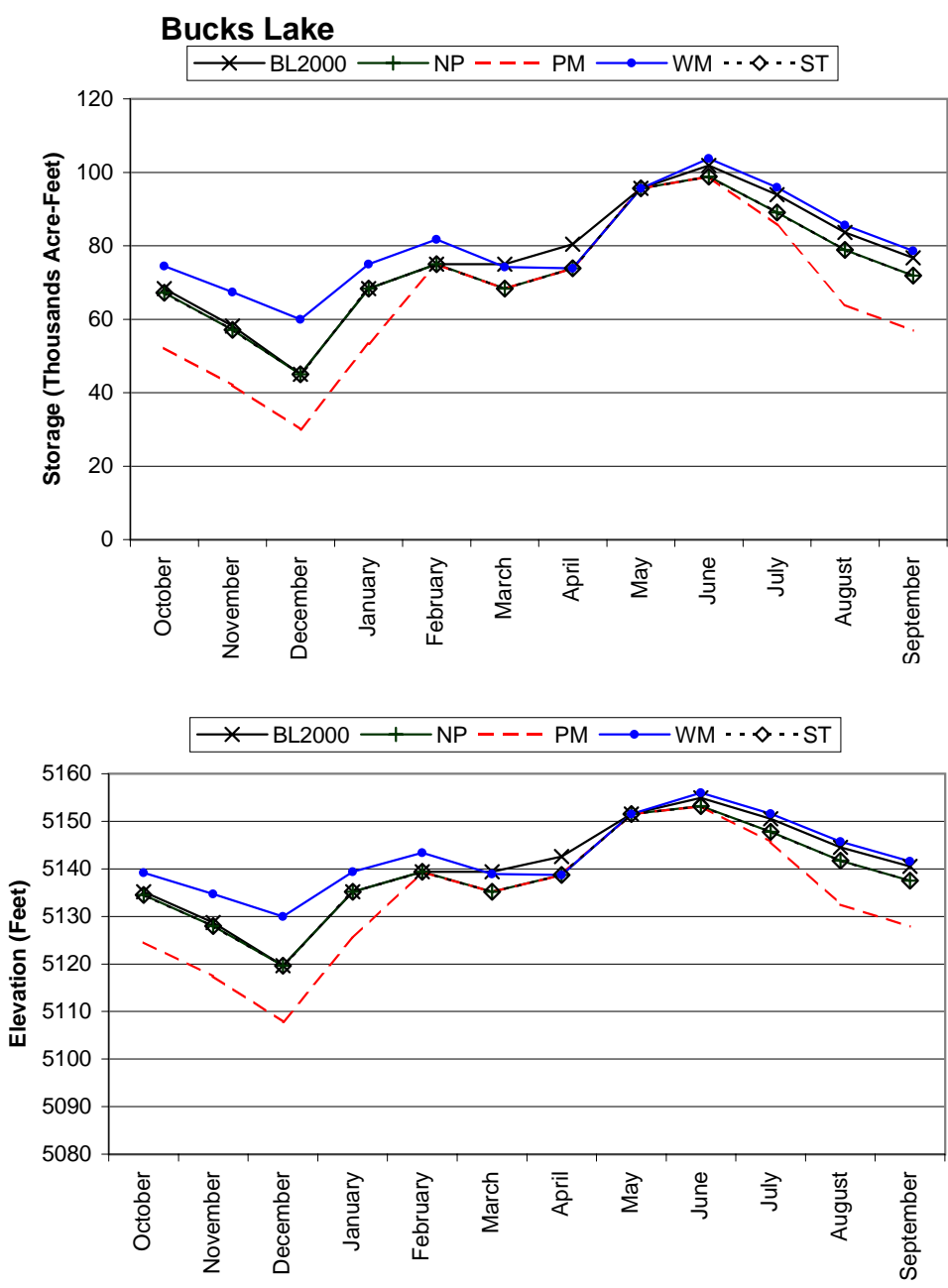
DeSaba: Appendix Figure-34 Modeled storage and elevations in a wet water year, 1983.



DeSaba: Appendix Figure-35 Modeled storage and elevations in a critically dry year, 1977.

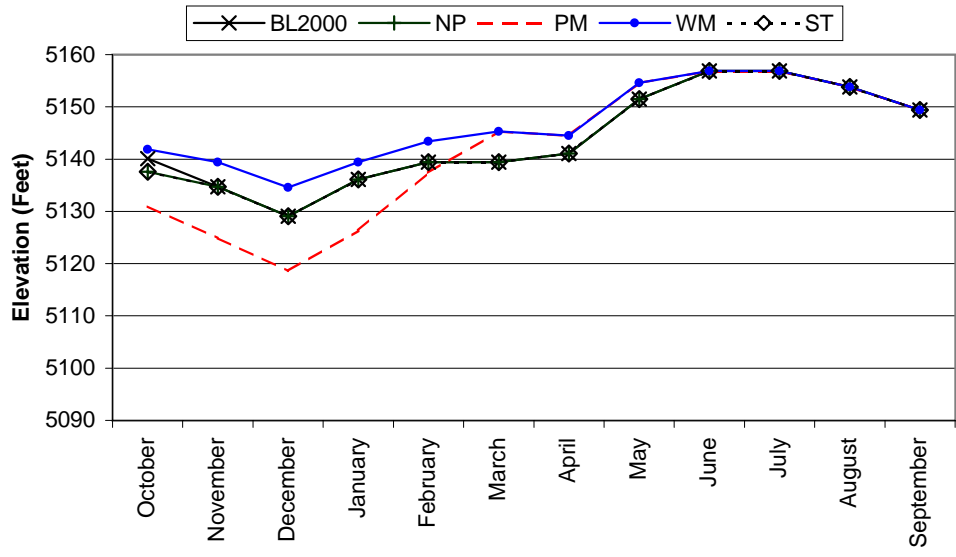
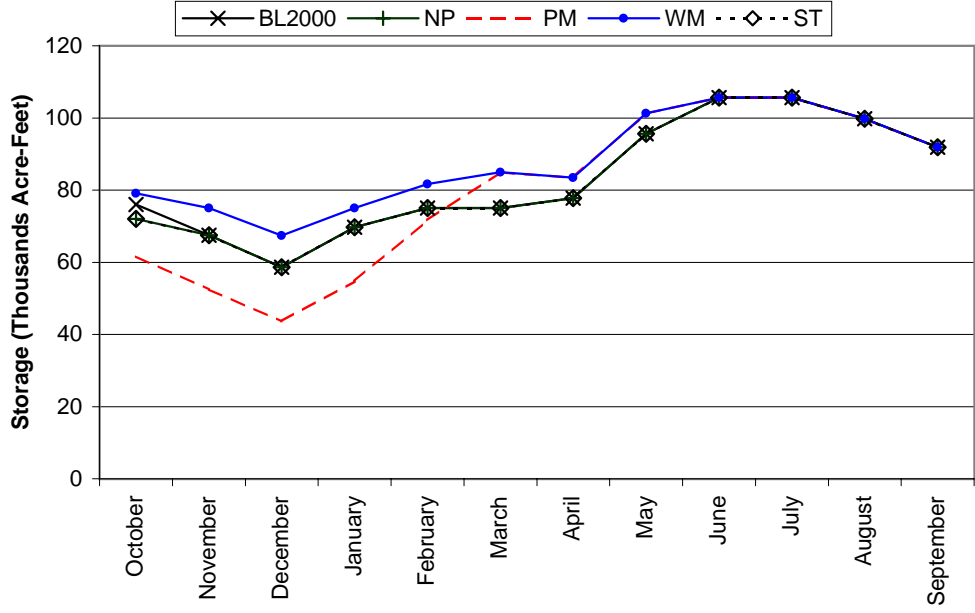


DeSaba: Appendix Figure-36 Modeled storage and elevations in a dry year, 1981.



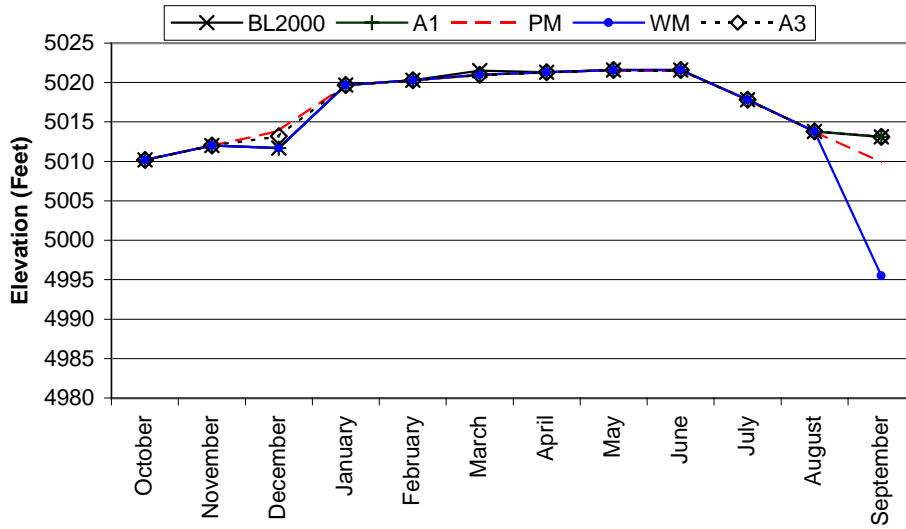
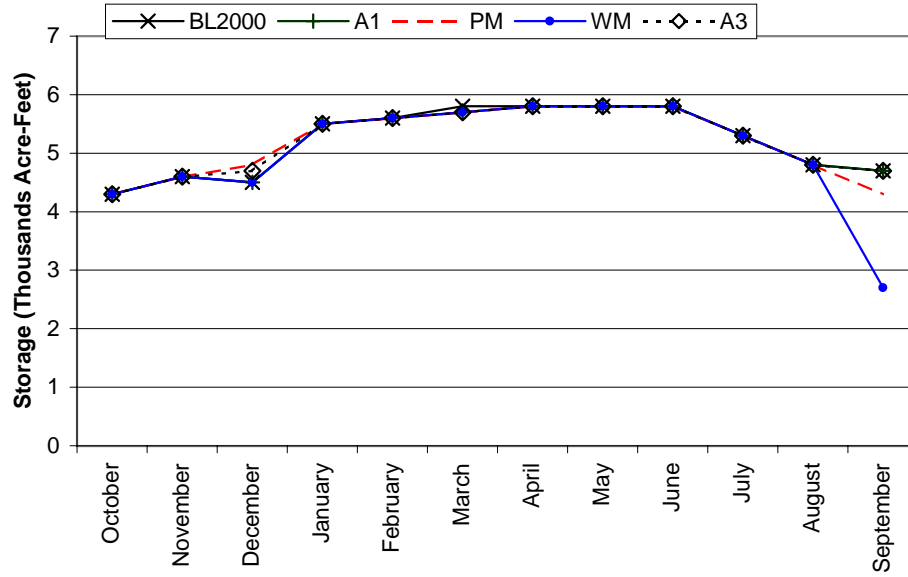
DeSaba: Appendix Figure-37 Modeled storage and elevations in a normal water year, 1979.

### Bucks Lake

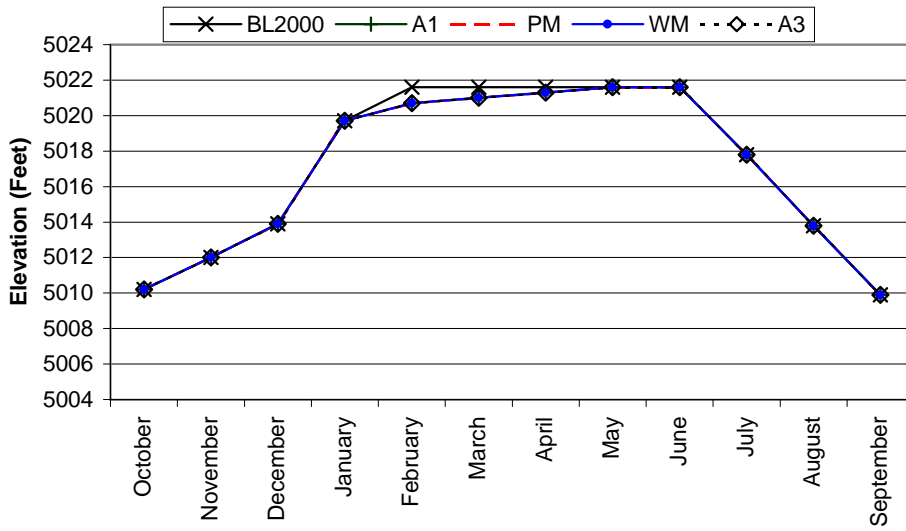
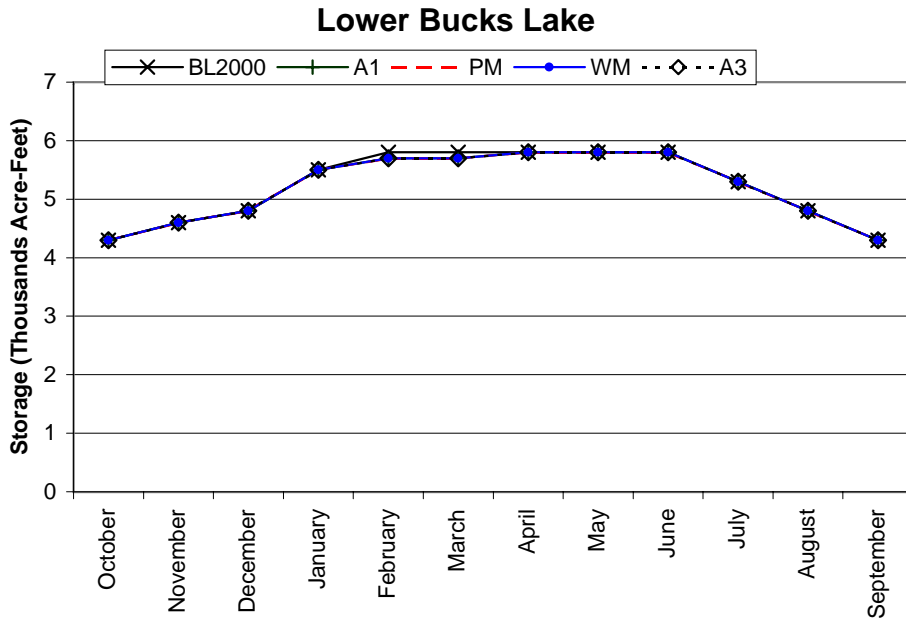


DeSaba: Appendix Figure-38 Modeled storage and elevations in a wet water year, 1983.

### Lower Bucks Lake

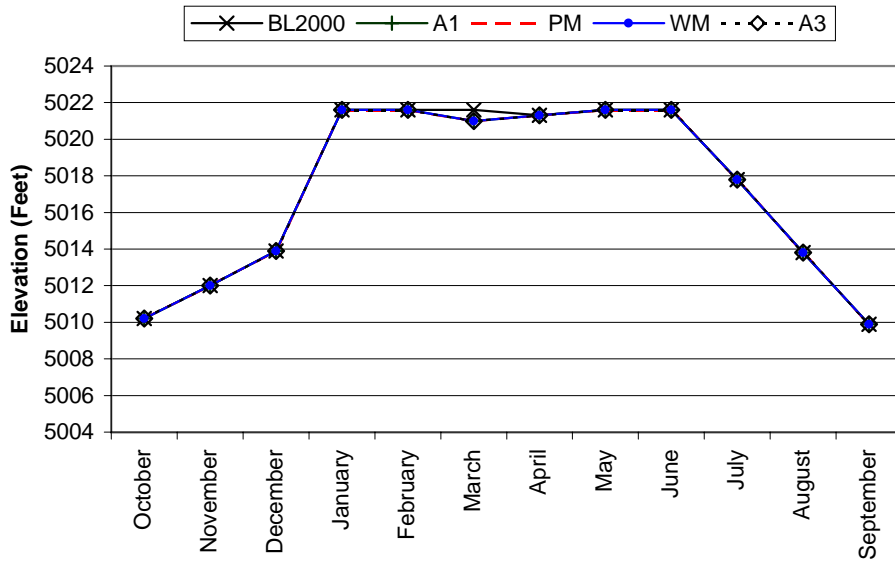
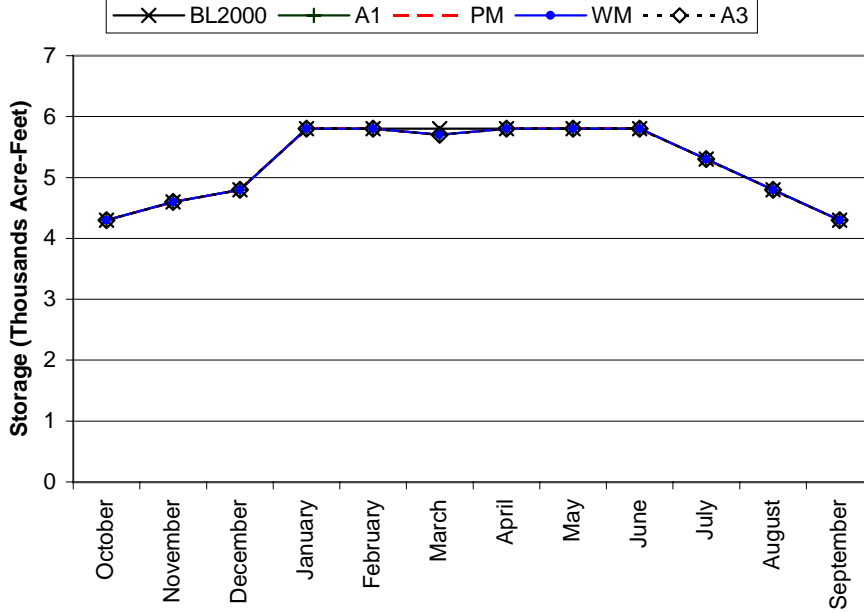


DeSabra: Appendix Figure-39 Modeled storage and elevations in a critically dry year, 1977.



DeSabra: Appendix Figure-40 Modeled storage and elevations in a dry year, 1981.

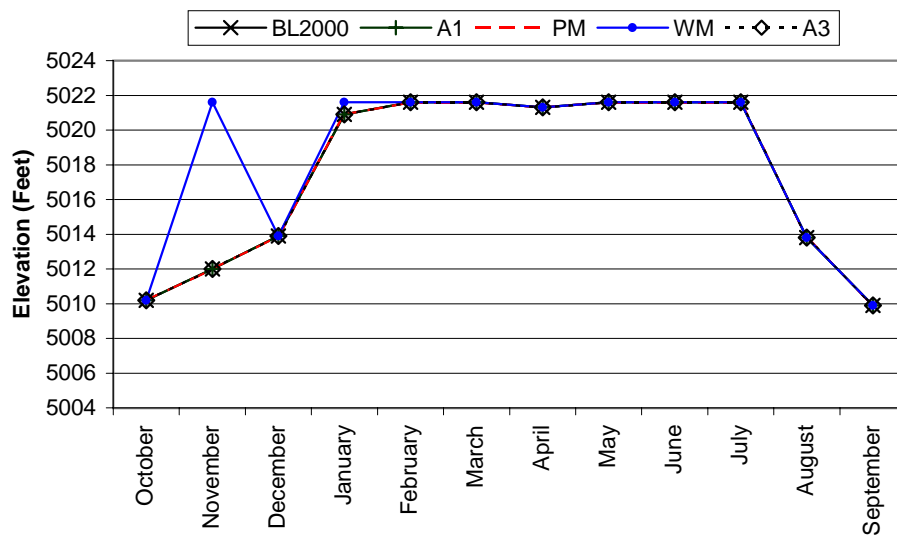
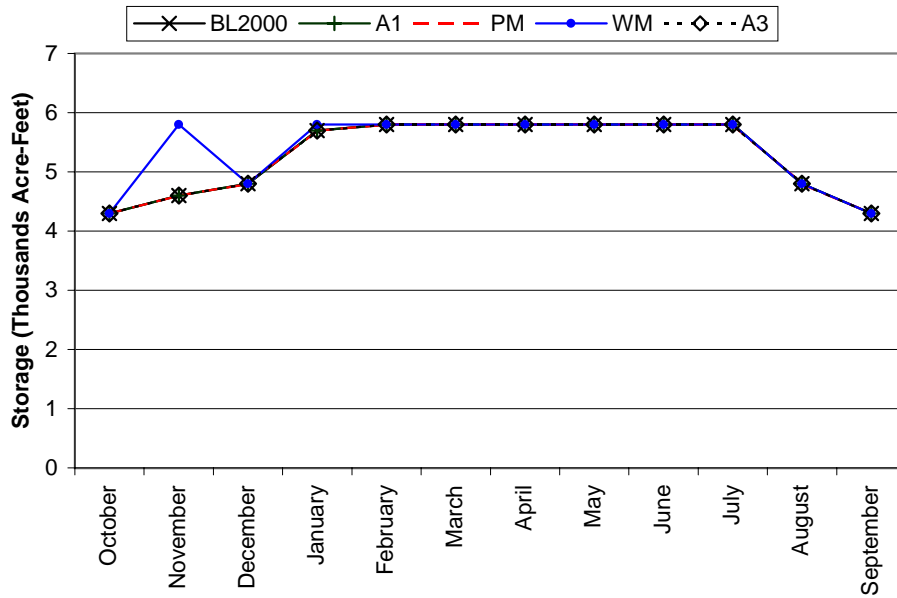
### Lower Bucks Lake



DeSabra: Appendix Figure-41 Modeled storage and elevations in a normal water year, 1979.



### Lower Bucks Lake



DeSabra: Appendix Figure-42 Modeled storage and elevations in a wet water year, 1983.

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# **DRUM REGIONAL BUNDLE**

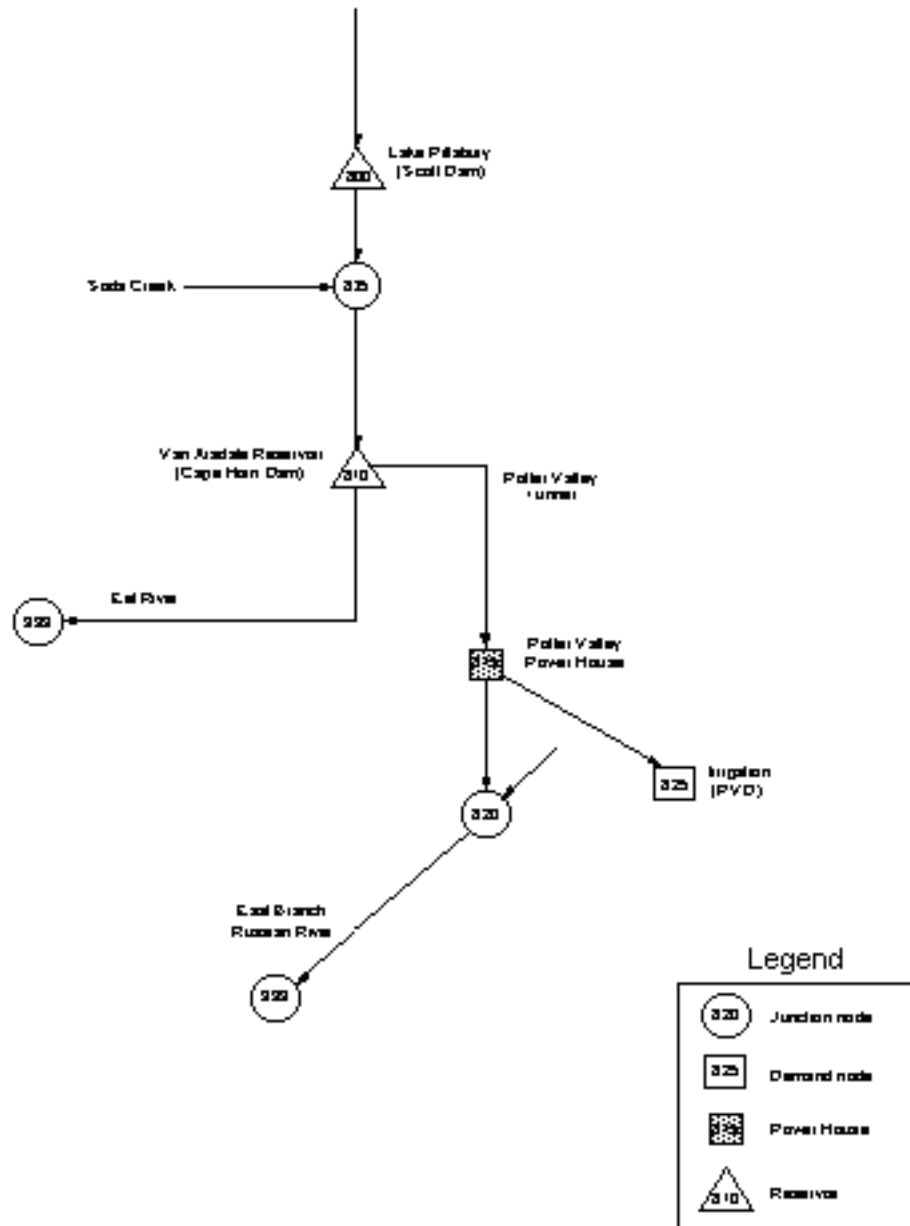
**FISHERIES TECHNICAL DATA AND FIGURES**

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# Potter Valley Project

## OASIS Schematic





Drum: Appendix Table-1 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: South Yuba River  
 Location: lode 152-154  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 3                        | 91  | 87  | 152 | OTP | 36  | 36  | 46  | 100 | 145 | 143 | 489 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1977       | Critical        | 144                      | 100 | 152 | 100 | 100 | 63  | 100 | 100 | 100 | 65  | 100 | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1978       | bove Norm       | 74                       | 76  | 74  | 74  | 99  | 99  | 96  | 99  | 77  | 77  | 77  | 77  | 100 | 100 | 91  | 100 | 100 | 100 | 95  | 100 | 100 | 96  |     |    |
| 1979       | elow Norm       | 139                      | 102 | OTP | OTP | 18  | 127 | 58  | 35  | 89  | 89  | 89  | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1980       | bove Norm       | 210                      | 100 | 210 | 100 | 93  | 14  | 93  | 14  | 100 | 725 | 100 | 725 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1981       | Dry             | 281                      | 116 | OTP | 116 | 46  | 20  | 16  | 20  | OTP | OTP | 366 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1983       | Wet             | OTP                      | OTP | OTP | 60  | 353 | 37  | 37  | 58  | 2   | 17  | 17  | 58  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1984       | Wet             | 100                      | 79  | 17  | 17  | 100 | 166 | 100 | 100 | 100 | 84  | 100 | 100 | 105 | 111 | 36  | 154 | 95  | 91  | 154 | 54  | 96  | 91  |     |    |
| 1985       | Dry             | 14                       | 72  | 96  | 72  | 237 | 21  | 21  | 21  | 123 | 418 | 418 | 418 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1986       | Wet             | 100                      | 105 | 108 | 108 | 100 | 86  | 312 | 89  | 100 | 261 | 100 | 346 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1987       | Dry             | 14                       | 14  | 14  | 14  | 87  | 84  | 114 | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1988       | Critical        | 100                      | 119 | 100 | 97  | 106 | 101 | 100 | 71  | 105 | 105 | 105 | 76  | 100 | 32  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1989       | Dry             | 100                      | 94  | 112 | 146 | 100 | 25  | 30  | 25  | 100 | 140 | 747 | 95  | 100 | 158 | 196 | 100 | 44  | 35  | 46  | 44  | 155 | 185 |     |    |
| 1990       | Critical        | 100                      | 132 | 979 | 102 | 100 | 17  | 11  | 13  | 100 | OTP | 100 | 814 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1991       | Critical        | 100                      | 100 | 104 | 100 | 67  | 67  | 87  | 101 | 100 | 100 | 126 | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1992       | Critical        | 100                      | 68  | 68  | 70  | 100 | 69  | 96  | 69  | 100 | 100 | 150 | 144 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1993       | bove Norm       | 88                       | 85  | 88  | 88  | 100 | 100 | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1994       | Critical        | 110                      | OTP | OTP | 720 | 112 | 7   | 3   | 4   | 100 | 100 | 180 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1995       | Wet             | 46                       | 46  | 100 | 100 | 233 | 14  | 10  | 10  | 151 | OTP | 908 | 908 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1996       | Wet             | 20                       | 233 | 83  | 6   | 100 | 1   | 91  | 2   | 29  | 50  | 12  | 81  | 100 | 100 | 100 | 100 | 100 | 100 | 11  | 100 | 100 |     |     |    |
| 1997       | Wet             | 27                       | 6   | 45  | 164 | 288 | 7   | 118 | 8   | 100 | 729 | OTP | 988 | 100 | 100 | 100 | 100 | 128 | 128 | 128 | 128 | 94  |     |     |    |
| 1998       | Wet             | 641                      | 100 | 526 | 100 | 100 | 166 | 100 | 100 | 100 | 99  | 100 | 100 | 434 | 434 | 434 | 434 | 35  | 35  | 35  | 35  | 39  |     |     |    |
| 1999       | Wet             | 137                      | 126 | 260 | 100 | OTP | OTP | 100 | 100 | 100 | 102 | 103 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |     |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |    |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 114 | 110 | 114 | 95  | 100 | 100 | 100 | 53  | 100 | 100 |    |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 101 | 101 | 101 | 100 | 100 | 100 | 100 | 73  | 116 |    |    |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 155 | 158 | 166 | 155 | 100 | 100 | 100 | 100 | 100 | 97  | 100 | 100 | 21  |    |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 110 | 102 | 111 | 100 | 100 | 100 | 100 | 188 | 101 |     |    |    |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 70  | 100 | 100 | 100 | 115 | 100 | 100 | 100 | 264 | 100 |    |    |
| 1980       | bove Norm       | 100                    | 500 | 100 | 500 | 100 | 94  | 100 | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 84  | 84  | 84  | 84  | 40  | 100 |    |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 106 | 100 | 100 | 100 | 100 | 100 |    |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 163 | 100 | 100 | 163 | 85  | 100 | 53  | 85  | 100 | 320 |    |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 188 | 188 | 160 | 160 |    |    |
| 1984       | Wet             | 100                    | 100 | 102 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 163 | 163 | 161 | 99  | 56  | 56  | 58  | 55  | 100 | 121 |    |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97  | 97  | 97  | 100 | 104 | 100 | 100 | 79  | 79  |    |    |
| 1986       | Wet             | 74                     | 74  | 74  | 100 | 123 | 123 | 123 | 100 | 100 | 100 | 100 | 100 | 115 | 115 | 100 | 100 | 100 | 100 | 100 | 117 | 100 | 158 |    |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 89  | 89  | 89  | 100 | 112 | 103 | 103 | 103 | 100 | 100 | 100 | 99  | 100 | 173 |    |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 106 | 100 | 100 | 79  | 80  | 79  | 79  | 139 | 101 | 100 | 100 | 100 | 382 |    |    |
| 1989       | Dry             | 149                    | 82  | 81  | 83  | 106 | 103 | 100 | 106 | 100 | 100 | 100 | 100 | 101 | 101 | 131 | 101 | 102 | 101 | 100 | 138 | 95  | 39  |    |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 123 | 100 | 123 | 123 | 92  | 100 | 100 | 73  | 15  | 107 |    |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 88  | 100 | 100 | 100 | 89  | 100 | 81  | 84  | 97  | 83  | 682 | 643 |    |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 100 | 100 | 101 | 100 | 100 |    |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 91  | 91  | 123 | 91  | 100 | 100 | 100 | 166 | 100 | 100 |    |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 119 | 100 | 100 | 118 | 100 | 100 | 118 | 79  | 79  | 100 | 79  | 100 | 100 |    |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 188 | 100 | 188 | 188 | 100 | 653 |    |    |
| 1996       | Wet             | 100                    | 500 | 500 | 500 | 100 | 94  | 117 | 102 | 100 | 100 | 100 | 100 | 118 | 100 | 100 | 101 | 100 | 100 | 100 | 53  | 100 | 488 |    |    |
| 1997       | Wet             | 500                    | 500 | 100 | 500 | 88  | 88  | 94  | 88  | 100 | 100 | 100 | 100 | 61  | 88  | 100 | 100 | 100 | 105 | 100 | 100 | 44  | 111 |    |    |
| 1998       | Wet             | 96                     | 96  | 96  | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 125 | 125 | 97  | 97  | 58  | 58  | 58  | 58  | 94  | 136 |    |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Drum: Appendix Table-2 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Drum: South Yuba River  
 Location: Node 152-154  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |     |     |    |     |     |    |    |     |     |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|-----|-----|----|-----|-----|----|----|-----|-----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |     |     |    | Nov |     |    |    | Dec |     |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM  | WM  | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | 1                        | -   | -   | -  | OTP | 1   | 1  | 1  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | 1                        | 1   | 1   | 1  | -   | -   | -  | -  | 1   | 1   | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -   | -   | -  | 1   | 1   | 1  | -  | OTP | OTP | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | OTP                      | OTP | OTP | 1  | -   | -   | -  | -  | 1   | 1   | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | 1                        | 1   | -   | 1  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | 1                        | 1   | 1   | 1  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -   | -   | -  | 1   | 1   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | 1                        | 1   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | 1                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | 1                        | 1   | 1   | 1  | -   | -   | -  | -  | 1   | 1   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -   | -   | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -   | -   | -  | OTP | OTP | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

al Number of Events: 7 7 5 7 3 14 9 13 3 4 3 3 - 1 1 - 2 2 2 4 1 2 2 2

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | 1                        | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

al Number of Events: 1 1 1 - - - - - 3 1 1 1 3 3 3 6 5 3 7 4

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 13                             | 25 | 17 | 23 | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 3                              | 5  | 5  | 6  | Less                    | Less   | Less   | Less   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 2                              | 3  | 3  | 2  | Less                    | Less   | Less   | Less   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 18                             | 14 | 16 | 18 | Potent                  | Potent | Potent | Potent |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 22                             | 29 | 26 | 31 | Potent                  | Potent | Potent | Potent |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 1                              | 1  | 1  | 0  | Less                    | Less   | Less   | No     |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 10                             | 21 | 14 | 20 | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Drum: Appendix Table-3 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: South Yuba River  
 Location: lode 154-160  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |
| 1976       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1979       | elow Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1981       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1984       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 82  | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1990       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1994       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1996       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1997       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1998       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 86  | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1999       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1976       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm       | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1979       | elow Norm       | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | bove Norm       | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1981       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1983       | Wet             | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | 73                     | 73  | 73  | 100 | 114 | 114 | 114 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1987       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Dry             | ZBF                    | ZBF | ZBF | ZBF | 117 | 126 | 72  | 117 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1990       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | bove Norm       | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1994       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet             | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1996       | Wet             | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1997       | Wet             | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1998       | Wet             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement





Drum: Appendix Table-5 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: South Yuba River  
 Location: lode 160-162  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 94  | 100 | 100 | 100 | 100 | 5   | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                      | OTP | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 95                       | 56  | 5   | 100 | 100 | 7   | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 82  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                      | OTP | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 86  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 5   | 100 | 100 | 100 | 5   | 19  | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 13  | 13  | 118 | 120 | 22  | 8   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 37  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 8   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 73                     | 73  | 73  | 100 | 114 | 114 | 114 | 100 | 100 | 63  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 220 | 100 | 100 | 100 | 100 | 100 | 156 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 117 | 126 | 72  | 117 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 124 | 10  | 10  | 124 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 116 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 6   | 6   | 6   | 6   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 278 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Drum: Appendix Table-6 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Drum: South Yuba River  
 Location: Node 160-162  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |     |    |    |     |     |    |    |     |     |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |     |    |    | Nov |     |    |    | Dec |     |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | OTP | -  | -  | -   | OTP | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | 1   | 1  | -  | -   | 1   | -  | -  | -   | OTP | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | OTP | -  | -  | -   | OTP | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -   | -  | -  | -   | -   | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - 1 1 - - 1 - - - - - - - - - - - 1 - - - - -

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |     |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|-----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |     |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM  | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | 1  | -  | -  | -   | 1  | 1  | -  | -   | OTP | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | 1                        | 1  | 1  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | 1  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | 1  | 1   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 1 1 1 - - 1 1 - 1 7 4 1 - 1 1 - - - - -

| Summary:                               | Poss. # Events | 10% Threshold | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |      |      |
|----------------------------------------|----------------|---------------|--------------------------------|----|----|----|-------------------------|------|------|------|
|                                        |                |               | NP                             | HC | WS | ST | NP                      | HC   | WS   | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2           | 0                              | 2  | 1  | 0  | No                      | Less | Less | No   |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2           | 0                              | 1  | 0  | 0  | No                      | Less | No   | No   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6           | 2                              | 9  | 6  | 1  | Less                    | Less | Less | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12            | 1                              | 9  | 6  | 1  | Less                    | Less | Less | Less |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2          | 2                              | 12 | 8  | 1  | Less                    | Less | Less | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8           | 1                              | 2  | 2  | 0  | Less                    | Less | Less | No   |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8           | 0                              | 2  | 1  | 0  | No                      | Less | Less | No   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Drum: Appendix Table-7 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: South Yuba River  
 Location: lode 162-190  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 94  | 100 | 100 | 100 | 100 | 17  | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                      | 510 | 100 | 100 | 100 | 604 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 100 | 100 | 100 | 100 | 271 | 100 | 91  | 100 | 94  |    |
| 1978       | bove Norm       | 95                       | 56  | 5   | 100 | 100 | 30  | 100 | 100 | 100 | 646 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 82  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 76                       | 76  | 76  | 86  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 66  | 66  | 66  | 66  | 66  | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 81  | 81  | 81  | 92  | 61  | 60  | 60  | 56  | 100 | 100 | 100 | 100 | 100 | 105 | 105 | 105 | 105 | 100 | 100 |    |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 71  | 71  | 71  | 71  | 53  | 53  | 53  | 53  | 100 | 100 | 100 | 100 | 100 | 131 | 131 | 131 | 131 | 205 | 205 |    |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 107                      | 109 | 106 | 109 | 100 | 100 | 100 | 122 | 100 | 100 | 100 | 95  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                      | 443 | 100 | 100 | 100 | 607 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 86  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 87  |    |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 120 | 120 | 120 | 120 | 89  | 89  | 89  | 89  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 13  | 100 | 100 | 100 | 10  | 18  | 100 | 94  | OTP | 94  | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 100 | 63  | 100 | 100 | 100 | 100 | 100 | 105 | 13  | 13  | 118 | 120 | 22  | 8   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 186 | 100 | 100 | 100 | 100 | 100 | 53  | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 88  | 46  | 67  | 88  | 54  | 54  | 54  | 54  | 100 | 100 | 57  | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 77  | 77  | 77  | 77  | 146 | 146 |    |
| 1984       | Wet             | 88                     | 88  | 88  | 88  | 114 | 114 | 114 | 114 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 24  | 94  | 100 | 100 | 100 | 63  | 100 | 100 | 100 | 85  | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 73                     | 73  | 73  | 100 | 114 | 114 | 114 | 100 | 100 | 64  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 147 | 147 | 147 | 127 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 118 | 118 | 118 | 118 | 100 | 100 | 100 | 100 | 100 | 148 | 100 | 100 | 100 | 100 | 108 | 79  | 100 | 59  | 104 |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 117 | 126 | 72  | 117 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 122 | 19  | 18  | 122 | 100 | 100 | 100 | 100 | 100 | 100 | 61  | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 11  | 11  | 11  | 11  | 95  | 95  | 95  | 95  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 41  | 100 | 69  | 53  |     |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 54  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 110                    | 110 | 110 | 88  | 114 | 114 | 114 | 114 | 100 | 100 | 100 | 100 | 85  | 85  | 85  | 100 | 100 | 100 | 100 | 100 | 113 | 113 |     |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Drum: Appendix Table-9 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Drum: South Yuba River  
 Location: Node 162-190  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | 1                        | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

al Number of Events: 1 2 2 - 1 2 1 1 2 2 2 2 1 1 1 1 - 1 - - - - -

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |     |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|-----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |     |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM  | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | 1  | -  | -  | -   | 1  | 1  | -  | -   | OTP | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | 1  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | 1   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -   | -  | -  | -   | -  | 1  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | 1   | 1   | 1  | 1  | -   | -  | 1  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | 1  | 1  | 1  | 1   | -  |    |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  |    |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  |    |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -   | 1  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | 1                        | 1  | 1  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | 1  | -  | 1   | 1  | 1  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | 1  | -   | -   | -  | -  | -   | -  | 1  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | 1  | 1   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | 1  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

al Number of Events: 1 1 2 - - 1 1 - 1 7 6 1 1 2 3 1 1 1 6 1 2 1 2 2

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 4                              | 6  | 5  | 3  | Less                    | Less   | Less   | Less |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 1                              | 2  | 1  | 1  | Less                    | Less   | Less   | Less |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 2                              | 9  | 9  | 1  | Less                    | Less   | Less   | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 6                              | 13 | 19 | 5  | Less                    | Potent | Potent | Less |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 8                              | 17 | 23 | 6  | Less                    | Less   | Potent | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 1                              | 2  | 3  | 0  | Less                    | Less   | Less   | No   |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 2                              | 4  | 3  | 1  | Less                    | Less   | Less   | Less |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Drum: Appendix Table-9 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Bear River  
 Location: Code 220-240  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline <sup>A</sup> |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                                 |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                                  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                                  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1976       | Critical        | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 |
| 1977       | Critical        | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 |
| 1978       | bove Norm       | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1979       | elow Norm       | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1980       | bove Norm       | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1981       | Dry             | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1982       | Wet             | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1983       | Wet             | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1984       | Wet             | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1985       | Dry             | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1986       | Wet             | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1987       | Dry             | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 |
| 1988       | Critical        | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1989       | Dry             | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1990       | Critical        | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1991       | Critical        | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1992       | Critical        | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1993       | bove Norm       | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1994       | Critical        | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1995       | Wet             | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1996       | Wet             | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1997       | Wet             | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1998       | Wet             | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 200 |
| 1999       | Wet             | 100                                 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1976       | Critical        | 100                    | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 |
| 1977       | Critical        | 100                    | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 |
| 1978       | bove Norm       | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1979       | elow Norm       | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1980       | bove Norm       | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1981       | Dry             | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1982       | Wet             | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1983       | Wet             | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1984       | Wet             | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1985       | Dry             | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1986       | Wet             | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1987       | Dry             | 100                    | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 | 100 | 100 | 100 | 400 |
| 1988       | Critical        | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1989       | Dry             | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1990       | Critical        | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1991       | Critical        | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1992       | Critical        | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1993       | bove Norm       | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1994       | Critical        | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1995       | Wet             | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1996       | Wet             | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1997       | Wet             | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1998       | Wet             | 100                    | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 200 |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Drum: Appendix Table-11 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Bear River  
 Location: Iode 240-247  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement





Drum: Appendix Table-13 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Bear River  
 Location: lode 247-250  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 101 | 101 | 101 | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1976       | Critical        | 99                       | 99  | 99  | 99  | 82  | 82  | 82  | 82  | 100 | 100 | 100 | 107 | 100 | 100 | 114 | 100 | 113 | 106 | 118 | 113 | 83  | 83  | 109 | 83  |
| 1977       | Critical        | 100                      | 104 | 125 | 100 | 100 | 100 | 126 | 100 | 100 | 100 | 118 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 104 | 100 | 100 | 100 | 131 | 100 |
| 1978       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 101 | 100 | 100 | 100 | 120 | 100 | 105 | 99  | 96  | 105 | 100 | 100 | 100 | 100 | 108 | 108 | 108 | 96  |
| 1979       | elow Norm       | 109                      | 115 | 109 | 92  | 84  | 81  | 84  | 90  | 107 | 119 | 106 | 123 | 107 | 112 | 112 | 107 | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 97  |
| 1980       | bove Norm       | 94                       | 96  | 81  | 95  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 88  | 88  | 90  | 96  | 110 | 110 | 107 | 101 | 100 | 91  | 100 | 100 | 100 | 100 | 100 | 100 | 160 | 163 | 160 | 155 |
| 1982       | Wet             | 95                       | 100 | 80  | 90  | 100 | 100 | 91  | 100 | 100 | 100 | 93  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 94  | 96  | 94  | 93  | 103 | 103 | 103 | 100 | 100 | 100 | 100 | 102 | 99  | 99  | 99  | 99  |
| 1984       | Wet             | 100                      | 108 | 100 | 100 | 100 | 106 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 102 | 102 | 100 | 105 | 105 | 105 | 100 | 94  | 93  | 94  | 100 |
| 1985       | Dry             | 88                       | 88  | 88  | 95  | 81  | 81  | 81  | 90  | 92  | 93  | 95  | 98  | 100 | 100 | 114 | 100 | 100 | 92  | 95  | 100 | 100 | 100 | 100 | 100 |
| 1986       | Wet             | 100                      | 100 | 105 | 100 | 100 | 100 | 38  | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 76                       | 76  | 76  | 92  | 69  | 68  | 68  | 91  | 97  | 98  | 98  | 103 | 100 | 100 | 113 | 100 | 100 | 95  | 95  | 100 | 104 | 107 | 104 | 104 |
| 1988       | Critical        | 100                      | 100 | 110 | 100 | 100 | 100 | 117 | 100 | 100 | 100 | 115 | 100 | 105 | 106 | 87  | 105 | 96  | 89  | 96  | 96  | 139 | 139 | 134 | 127 |
| 1989       | Dry             | 100                      | 100 | 120 | 100 | 100 | 100 | 122 | 100 | 100 | 106 | 115 | 100 | 97  | 94  | 54  | 97  | 100 | 100 | 97  | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 117                      | 112 | 117 | 96  | 88  | 93  | 84  | 101 | 100 | 100 | 106 | 112 | 100 | 94  | 100 | 100 | 100 | 96  | 100 | 100 | 105 | 107 | 109 | 105 |
| 1991       | Critical        | 100                      | 100 | 119 | 100 | 100 | 100 | 117 | 100 | 100 | 100 | 113 | 100 | 100 | 100 | 112 | 100 | 100 | 100 | 115 | 100 | 108 | 100 | 94  | 100 |
| 1992       | Critical        | 93                       | 93  | 75  | 76  | 84  | 85  | 68  | 100 | 59  | 61  | 65  | 107 | 100 | 100 | 100 | 100 | 106 | 106 | 106 | 106 | 100 | 100 | 100 | 100 |
| 1993       | bove Norm       | 100                      | 100 | 120 | 100 | 100 | 100 | 117 | 100 | 88  | 88  | 101 | 88  | 105 | 95  | 93  | 105 | 94  | 94  | 94  | 94  | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                      | 100 | 100 | 94  | 100 | 100 | 101 | 100 | 88  | 88  | 86  | 95  | 100 | 100 | 100 | 100 | 130 | 125 | 130 | 130 | 126 | 128 | 121 | 117 |
| 1995       | Wet             | 82                       | 84  | 47  | 91  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 106 | 106 | 106 | 106 | 97  | 97  | 97  | 97  | 104 | 104 | 104 | 100 |
| 1996       | Wet             | 83                       | 83  | 88  | 103 | 119 | 119 | 113 | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1997       | Wet             | 96                       | 96  | 96  | 99  | 83  | 83  | 83  | 97  | 83  | 97  | 83  | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 103 | 114 | 103 | 100 | 100 | 100 | 100 | 100 | 108 | 108 | 108 | 108 | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 97  |
| 1999       | Wet             | 112                      | 112 | 107 | 102 | 74  | 74  | 79  | 83  | 163 | 163 | 163 | 163 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | 137                    | 137 | 137 | 137 | 79  | 79  | 79  | 79  | 100 | 100 | 100 | 98  | 109 | 109 | 109 | 100 | 107 | 107 | 107 | 102 | 100 | 100 | 100 | 100 |
| 1976       | Critical        | 100                    | 107 | 119 | 100 | 100 | 100 | 114 | 100 | 100 | 100 | 95  | 100 | 99  | 100 | 99  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 132 | 100 |
| 1977       | Critical        | 100                    | 100 | 109 | 100 | 100 | 100 | 122 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1978       | bove Norm       | 88                     | 88  | 88  | 101 | 98  | 98  | 97  | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 94  | 102 | 101 | 100 | 100 | 100 | 100 |
| 1979       | elow Norm       | 99                     | 103 | 96  | 101 | 98  | 96  | 98  | 98  | 106 | 104 | 117 | 104 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 82                     | 83  | 82  | 91  | 99  | 99  | 99  | 99  | 93  | 93  | 107 | 93  | 91  | 90  | 106 | 90  | 100 | 100 | 111 | 100 | 90  | 90  | 109 | 90  |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 113 | 109 | 113 | 113 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1983       | Wet             | 100                    | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 100 | 100 | 100 | 106 | 100 | 100 |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 99  | 99  | 133 | 132 | 131 | 116 | 107 | 107 | 107 | 102 |
| 1985       | Dry             | 133                    | 131 | 133 | 136 | 79  | 84  | 79  | 76  | 100 | 106 | 109 | 100 | 100 | 100 | 107 | 100 | 100 | 102 | 110 | 100 | 100 | 104 | 122 | 100 |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 107 | 100 | 100 | 119 | 119 | 119 | 109 | 100 | 100 | 100 | 100 | 125 | 125 | 125 | 100 |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical        | 110                    | 110 | 94  | 114 | 67  | 67  | 77  | 71  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 98  | 112 | 100 | 91  | 91  | 113 | 91  |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 96  | 100 | 93  | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 100 | 100 | 99  | 113 | 100 | 100 | 100 | 121 | 100 |
| 1991       | Critical        | 113                    | 126 | 100 | 122 | 100 | 100 | 96  | 100 | 97  | 103 | 106 | 90  | 119 | 119 | 117 | 118 | 104 | 104 | 104 | 104 | 103 | 103 | 102 | 91  |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 92  | 106 | 100 | 92  | 88  | 110 | 95  |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 110 | 110 | 110 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 108                    | 108 | 99  | 112 | 83  | 63  | 72  | 65  | 100 | 100 | 115 | 100 | 100 | 100 | 117 | 100 | 100 | 100 | 116 | 100 | 100 | 100 | 114 | 100 |
| 1995       | Wet             | 94                     | 93  | 94  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 126 | 125 | 126 | 101 | 111 | 98  | 111 | 104 | 100 | 100 | 100 | 98  |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 97  | 97  | 97  | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 112 | 112 | 112 | 112 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Drum: Appendix Table-15 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Bear River  
 Location: Iode 250-253  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 123 | 123 | 123 | 123 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1976       | Critical        | 93                       | 93  | 93  | 93  | 16  | 16  | 16  | 64  | 100 | 100 | 100 | 228 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1977       | Critical        | 100                      | 109 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1978       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 109 | 99  | 94  | 109 | 100 | 100 | 100 | 100 | 114 | 114 | 113 | 94  |
| 1979       | elow Norm       | 100                      | 100 | 129 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 135 | 161 | 161 | 135 | 100 | 100 | 100 | 100 | 99  | 85  | 99  | 93  |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 771 | 804 | 771 | 708 |     |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 81  | 100 | 100 | 100 | 91  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 92  | 95  | 92  | 91  | 106 | 106 | 106 | 100 | 100 | 100 | 100 | 103 | 99  | 99  | 99  | 99  |
| 1984       | Wet             | 100                      | 116 | 100 | 100 | 100 | 109 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 104 | 103 | 101 | 108 | 108 | 108 | 100 | 90  | 89  | 90  | 100 |
| 1985       | Dry             | 49                       | 49  | 49  | 77  | 45  | 45  | 45  | 72  | 45  | 49  | 62  | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 75  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 225 | 343 | 225 | 225 |     |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 374 | 100 | 100 | 100 | 100 |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 119 | 119 | 119 | 119 | 100 | 100 | 100 | 100 |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 108 | 92  | 89  | 108 | 99  | 90  | 90  | 90  | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet             | 54                       | 59  | 23  | 78  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 114 | 114 | 114 | 114 | 96  | 96  | 96  | 96  | 105 | 105 | 105 | 101 |
| 1996       | Wet             | 45                       | 47  | 62  | 110 | 177 | 175 | 154 | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1997       | Wet             | 76                       | 76  | 76  | 95  | 22  | 22  | 22  | 86  | 49  | 93  | 49  | 104 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 105 | 126 | 105 | 100 | 100 | 100 | 100 | 100 | 113 | 113 | 113 | 113 | 95  | 95  | 95  | 93  | 94  | 94  | 94  | 95  |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | OTP | OTP | OTP | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | 255                    | 255 | 255 | 255 | 63  | 63  | 63  | 63  | 100 | 100 | 100 | 97  | 137 | 137 | 137 | 100 | 117 | 117 | 117 | 105 | 100 | 100 | 100 | 100 |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 100 | 98  | 100 | 98  | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1977       | Critical        | 100                    | 100 | 83  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1978       | bove Norm       | 80                     | 80  | 80  | 101 | 95  | 95  | 95  | 95  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 106 | 78  | 108 | 104 | 100 | 100 | 100 | 100 |
| 1979       | elow Norm       | 98                     | 105 | 92  | 102 | 96  | 93  | 96  | 96  | 116 | 110 | 100 | 116 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 112 | 112 | 112 | 112 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 25                     | 26  | 25  | 62  | 95  | 95  | 95  | 95  | 81  | 81  | 69  | 81  | 71  | 67  | 67  | 67  | 100 | 100 | 81  | 100 | 100 | 100 | 100 | 100 |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 129 | 120 | 129 | 129 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1983       | Wet             | 100                    | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 109 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  | 96  | 96  | 248 | 246 | 238 | 173 | 118 | 118 | 118 | 106 |
| 1985       | Dry             | 298                    | 286 | 298 | 318 | 51  | 62  | 51  | 46  | 100 | 120 | 67  | 100 | 100 | 100 | 68  | 100 | 100 | 108 | 76  | 100 | 100 | 100 | 100 | 100 |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 115 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 87  | 100 | 61  | 61  | 61  | 61  |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97  | 87  | 100 | 100 | 100 | 100 | 100 |
| 1991       | Critical        | 545                    | 979 | 100 | 827 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 59  | 51  | 100 | 68  | 51  | 51  | 79  |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 69  | 100 |
| 1995       | Wet             | 91                     | 89  | 91  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 218 | 212 | 218 | 103 | 129 | 96  | 129 | 110 | 100 | 100 | 100 | 95  |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 93  | 93  | 93  | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Drum: Appendix Table-17 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Deer Creek  
 Location: Code 173-175  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline <sup>A</sup> |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                                 |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                                  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                                  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                                 | 98  | 100 | 100 | 100 | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                                 | 100 | 100 | 164 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                                 | 100 | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                                 | 100 | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 147 | 147 | 147 |    |
| 1990       | Critical        | 114                                 | 114 | 114 | 114 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 98  | 98  | 98  |    |
| 1994       | Critical        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                                 | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 81  | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 107 | 107 | 107 |    |
| 1997       | Wet             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 100 | 103 | 100 | 100 | 100 | 100 | 100 | 100 | 78  | 100 | 100 | 100 | 117 | 54  | 146 | 100 | 100 | 100 | 183 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 34  | 100 | 100 | 100 | 100 | 100 | 79  | 124 | 73  | 88  | 100 | 100 | 88  |    |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 119 | 107 | 100 | 119 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 85  | 100 | 100 | 100 | 99  | 90  | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 101 | 100 | 105 | 105 | 105 |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97  | 89  | 88  | 98  | 100 | 105 | 106 | 100 | 105 | 107 | 107 |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 104 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Drum: Appendix Table-19 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Deer Creek  
 Location: lode 175-178  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | 100                      | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 83  |    |
| 1979       | elow Norm       | 100                      | 100 | 83  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 119 |    |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                      | 99  | 98  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                      | 100 | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 144 | 100 | 100 | 100 | 100 | 103 |    |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 147 |    |
| 1990       | Critical        | 128                      | 128 | 128 | 128 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 83  |    |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 98  |    |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                      | 100 | 88  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 75  | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 109 |    |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | 100                    | 100 | 124 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 0   | 100 |    |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 85  | 81  | 0   | 81  |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 0   | 100 | 100 | 93  | 37  | 100 | 100 | 106 | 64  |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 105 | 105 | 100 | 128 | 128 | 128 |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 111 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 87  | 54  | 49  | 93  | 100 | 132 | 138 | 100 | 126 | 139 | 139 |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 125 |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement





Drum: Appendix Table-21 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: China Ditch  
 Location: lode 178-180  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |
| 1976       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 67  | 100 | 67  |    |
| 1979       | elow Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 122 | 122 | 100 | 122 |    |
| 1981       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 103 | 100 | 100 |    |
| 1987       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 151 | 151 | 100 | 151 |    |
| 1990       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 51  | 100 | 51  |    |
| 1992       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97  | 97  | 97  | 97  |    |
| 1994       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 110 | 110 | 110 |    |
| 1997       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1998       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1999       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1976       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 0   | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1979       | elow Norm       | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1981       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1984       | Wet             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1987       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1990       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1994       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1998       | Wet             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Drum: Appendix Table-23 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Deer Creek  
 Location: lode 180-211  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1977       | Critical        | 100                      | 113 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 100 | 100 | 100 | 205 | 100 | 95  | 100 | 100 | 94  |     |
| 1978       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | 100 | 617 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1979       | elow Norm       | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 103 | 100 | 103 |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical        | 0                        | 0   | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 95  | 95  | 95  | 95  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry             | ZBF                      | ZBF | ZBF | ZBF | 95  | 95  | 95  | 98  | 83  | 82  | 82  | 81  | 100 | 100 | 100 | 100 | 100 | 101 | 101 | 101 | 101 | 106 | 106 | 106 |
| 1990       | Critical        | 103                      | 103 | 103 | 103 | 78  | 78  | 78  | 78  | 57  | 57  | 57  | 57  | 100 | 100 | 100 | 100 | 100 | 105 | 105 | 105 | 105 | 123 | 123 | 123 |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical        | 110                      | 113 | 108 | 113 | 100 | 100 | 100 | 125 | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 100 |     |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  | 96  | 100 |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 127 | 127 | 127 | 127 | 96  | 96  | 96  | 96  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1977       | Critical        | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1984       | Wet             | 96                     | 96  | 96  | 96  | 121 | 121 | 121 | 121 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1986       | Wet             | 96                     | 96  | 96  | 100 | 123 | 123 | 123 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 144 | 144 | 144 | 144 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1998       | Wet             | 104                    | 104 | 104 | 96  | 121 | 121 | 121 | 121 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Drum: Appendix Table-24 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Drum: Deer Creek  
 Location: Node 180-211  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |     |     |     |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |     |     |     | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | ZBF                      | ZBF | ZBF | ZBF | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | 1                        | 1   | 1   | 1   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | ZBF                      | ZBF | ZBF | ZBF | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -   | -   | -   | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

| Water Year | Water Year Type | Habitat Reduction Events |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                      |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |    |
| 1976       | Critical        | -                        | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm       | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1979       | elow Norm       | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | bove Norm       | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1981       | Dry             | -                        | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1983       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1984       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | -                        | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1987       | Dry             | -                        | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Dry             | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1990       | Critical        | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | 1   | 1   | 1   | 1   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | bove Norm       | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1994       | Critical        | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1996       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1997       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1998       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1999       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |

Total Number of Events: - - - - - - - - - - 1 1 1 1 - - - - - - - - - -

| Summary:                               | Poss. # Events | 10% Threshold | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |      |      |
|----------------------------------------|----------------|---------------|--------------------------------|----|----|----|-------------------------|------|------|------|
|                                        |                |               | NP                             | HC | WS | ST | NP                      | HC   | WS   | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2           | 3                              | 3  | 3  | 3  | Less                    | Less | Less | Less |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2           | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6           | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12            | 2                              | 2  | 2  | 2  | Less                    | Less | Less | Less |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2          | 3                              | 3  | 3  | 3  | Less                    | Less | Less | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8           | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8           | 2                              | 2  | 2  | 2  | Less                    | Less | Less | Less |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Drum: Appendix Table-25 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Yuba River  
 Location: Iode 197-210  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |
| 1976       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 99  | 99  | 99  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 114 | 929 | 57  | 81  |    |
| 1994       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 790 | 790 | 790 | 100 |    |
| 1999       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1976       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1979       | elow Norm       | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | bove Norm       | ZBF                    | ZBF | ZBF | ZBF | 17  | 17  | 17  | 17  | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1981       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1984       | Wet             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1987       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1990       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1994       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1996       | Wet             | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1997       | Wet             | ZBF                    | ZBF | ZBF | ZBF | 25  | 25  | 25  | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1998       | Wet             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Drum: Appendix Table-27 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Yuba River  
 Location: lode 210-211  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |    |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |     |    |
| 1976       | Critical        | 90                       | 90  | 100 | 90  | 61  | 61  | 52  | 90  | 96  | 96  | 95  | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1978       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 108 | 103 | 108 | 108 | 94  | 94  | 94  | 94  | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 85                       | 85  | 89  | 71  | 64  | 64  | 64  | 96  | 67  | 67  | 62  | 106 | 117 | 117 | 117 | 117 | 86  | 86  | 86  | 86  | 104 | 104 | 104 | 100 |    |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 131 | 174 | 174 | 174 | 170 | 75  | 75  | 75  | 77  | 112 | 112 | 112 | 110 |    |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 99  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 62                       | 62  | 62  | 85  | 74  | 87  | 74  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 119 | 119 | 119 | 107 | 100 | 100 | 100 | 100 | 91  | 91  | 91  | 94 |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 69  | 69  | 69  | 100 | 78  | 78  | 78  | 132 | 128 | 128 | 128 | 104 | 87  | 87  | 87  | 100 | 99  | 99  | 99  | 99  |    |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 80                       | 80  | 80  | 80  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 144 | 144 | 144 | 150 | 86  | 86  | 86  | 82  | 120 | 120 | 120 | 120 |    |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 176 | 176 | 176 | 156 | 77  | 77  | 77  | 99  | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 138 | 138 | 138 | 141 | 67  | 67  | 67  | 65  | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 139 | 139 | 139 | 139 | 67  | 67  | 67  | 67  | 129 | 129 | 129 | 129 |    |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 117 | 117 | 117 | 117 | 94  | 94  | 94  | 97  | 163 | 163 | 163 | 162 |    |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 98                       | 98  | 98  | 64  | 69  | 69  | 69  | 96  | 65  | 65  | 65  | 108 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                      | 100 | 100 | 95  | 100 | 100 | 100 | 105 | 104 | 104 | 104 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                      | 100 | 100 | 91  | 91  | 90  | 91  | 98  | 92  | 93  | 90  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 50  | 50  | 50  | 71  | 69  | 69  | 69  | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 77                       | 77  | 77  | 83  | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 114 | 114 | 114 | 114 | 93  | 98  | 98  | 87  | 100 | 95  | 95  | 99 |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 67  | 67  | 67  | 100 | 117 | 117 | 117 | 153 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |    |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 121 | 121 | 121 | 118 | 107 | 107 | 107 | 104 | 133 | 133 | 133 | 104 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 88  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 124 | 124 | 124 | 100 | 100 | 100 | 100 | 100 | 183 | 183 | 183 | 138 |    |
| 1979       | elow Norm       | 96                     | 96  | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 96  | 96  | 91  | 103 | 103 | 103 | 107 | 103 | 103 | 103 | 100 |    |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 92  | 92  | 92  | 92  | 100 | 100 | 100 | 100 | 133 | 133 | 133 | 100 | 78  | 78  | 78  | 105 | 108 | 108 | 108 | 66  |    |
| 1981       | Dry             | 89                     | 89  | 89  | 91  | 90  | 90  | 90  | 90  | 100 | 100 | 100 | 100 | 99  | 98  | 99  | 99  | 97  | 97  | 97  | 106 | 105 | 105 | 104 | 90  |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 133 | 109 | 133 | 105 | 188 | 188 | 188 | 130 | 92  | 92  | 92  | 92  |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 94  | 94  | 94  | 100 | 100 | 100 | 100 | 100 | 129 | 129 | 129 | 100 | 82  | 82  | 82  | 76  | 233 | 233 | 233 | 100 |    |
| 1985       | Dry             | 117                    | 117 | 117 | 117 | 83  | 83  | 83  | 83  | 100 | 100 | 100 | 100 | 100 | 94  | 97  | 100 | 100 | 100 | 100 | 101 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 116 | 106 | 116 | 133 | 100 | 100 | 100 | 100 | 118 | 118 | 118 | 94  |    |
| 1987       | Dry             | 68                     | 68  | 68  | 68  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 63                     | 63  | 63  | 63  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 99  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 76  | 76  | 76  | 76  | 134 | 134 | 131 | 134 | 118 | 122 | 100 | 118 |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 80  | 80  | 80  | 80  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 106                    | 106 | 106 | 112 | 90  | 90  | 90  | 90  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 77  | 77  | 77  | 77  |    |
| 1992       | Critical        | 60                     | 60  | 60  | 57  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 142 | 142 | 142 | 142 | 100 | 100 | 100 | 100 | 132 | 132 | 132 | 100 |    |
| 1994       | Critical        | 68                     | 68  | 68  | 68  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 109 | 109 | 109 | 101 | 112 | 112 | 112 | 112 |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 149 | 149 | 149 | 100 | 100 | 100 | 100 | 98  | 245 | 245 | 245 | 183 |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 93  | 93  | 93  | 100 | 100 | 100 | 100 | 100 | 133 | 133 | 133 | 133 | 106 | 106 | 106 | 98  | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 94  | 94  | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 71  | 71  | 71  | 92  | 199 | 199 | 150 | 100 |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Drum: Appendix Table-28 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Drum: Yuba River  
 Location: Node 210-211  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | 1  | 1   | 1  | 1  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | 1                        | 1  | 1  | -  | 1   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | 1   | 1  | 1  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | 1  | 1   | 1  | 1  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | 1                        | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 3 3 3 3 7 6 7 1 4 4 4 - - - - - 4 4 4 3 - - - -

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1992       | Critical        | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | -  | 1  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 4 4 4 4 1 1 1 1 - - - - 1 1 1 1 2 2 1 2 1 1 1 2

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 14                             | 13 | 14 | 4  | Potent                  | Potent | Potent | Less   |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 4                              | 4  | 4  | 3  | Less                    | Less   | Less   | Less   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 5                              | 5  | 5  | 5  | Less                    | Less   | Less   | Less   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 7                              | 7  | 6  | 8  | Less                    | Less   | Less   | Less   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 19                             | 18 | 18 | 14 | Less                    | Less   | Less   | Less   |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 5                              | 5  | 5  | 5  | Potent                  | Potent | Potent | Potent |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 10                             | 9  | 10 | 4  | Potent                  | Potent | Potent | Less   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant



Drum: Appendix Table-29 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Yuba River  
 Location: Iode 211-213  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |     |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1976       | Critical   | 91                       | 91  | 100 | 91  | 65  | 65  | 57  | 91  | 96  | 96  | 95  | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1977       | Critical   | 100                      | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1978       | above Norm | 100                      | 100 | 100 | 102 | 100 | 107 | 100 | 100 | 100 | 100 | 100 | 100 | 104 | 102 | 104 | 104 | 95  | 95  | 95  | 95  | 100 | 100 | 100 | 100 |     |
| 1979       | below Norm | 85                       | 86  | 89  | 72  | 66  | 66  | 66  | 96  | 68  | 68  | 64  | 106 | 113 | 113 | 113 | 113 | 91  | 91  | 91  | 91  | 103 | 103 | 103 | 100 |     |
| 1980       | above Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1981       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 127 | 155 | 155 | 155 | 151 | 77  | 77  | 77  | 79  | 109 | 109 | 109 | 107 |     |
| 1982       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 99  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1983       | Wet        | 64                       | 64  | 64  | 85  | 77  | 89  | 77  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1984       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 117 | 117 | 117 | 107 | 100 | 100 | 100 | 100 | 92  | 92  | 92  | 95  |
| 1985       | Dry        | 100                      | 100 | 100 | 100 | 76  | 76  | 76  | 100 | 80  | 80  | 80  | 129 | 126 | 126 | 126 | 103 | 90  | 90  | 90  | 100 | 99  | 99  | 99  | 99  |     |
| 1986       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1987       | Dry        | 82                       | 82  | 82  | 82  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 139 | 139 | 139 | 144 | 89  | 89  | 89  | 85  | 116 | 116 | 116 | 116 |     |
| 1988       | Critical   | 99                       | 99  | 99  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 156 | 156 | 156 | 142 | 79  | 79  | 79  | 99  | 100 | 100 | 100 | 100 |     |
| 1989       | Dry        | 100                      | 100 | 100 | 100 | 99  | 99  | 99  | 100 | 97  | 97  | 97  | 97  | 133 | 133 | 133 | 135 | 71  | 71  | 71  | 69  | 100 | 100 | 100 | 100 |     |
| 1990       | Critical   | 100                      | 100 | 100 | 100 | 99  | 99  | 99  | 99  | 96  | 96  | 96  | 96  | 131 | 131 | 131 | 131 | 74  | 74  | 74  | 74  | 125 | 125 | 125 | 125 |     |
| 1991       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1992       | Critical   | 100                      | 101 | 100 | 101 | 100 | 100 | 100 | 101 | 100 | 100 | 100 | 99  | 115 | 115 | 115 | 115 | 96  | 96  | 96  | 98  | 139 | 139 | 139 | 138 |     |
| 1993       | above Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1994       | Critical   | 98                       | 98  | 98  | 67  | 72  | 72  | 72  | 96  | 70  | 70  | 70  | 107 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 147 | 147 | 147 | 147 |
| 1995       | Wet        | 100                      | 100 | 100 | 95  | 100 | 100 | 100 | 104 | 104 | 104 | 103 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1996       | Wet        | 100                      | 100 | 103 | 91  | 91  | 90  | 91  | 98  | 93  | 94  | 91  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1997       | Wet        | 100                      | 100 | 100 | 100 | 52  | 52  | 52  | 73  | 75  | 75  | 75  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 106 | 106 | 106 | 100 |
| 1998       | Wet        | 78                       | 78  | 78  | 84  | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 113 | 113 | 113 | 113 | 94  | 99  | 99  | 89  | 100 | 96  | 96  | 99  |
| 1999       | Wet        | 100                      | 100 | 100 | 100 | 69  | 69  | 69  | 101 | 113 | 113 | 113 | 141 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |    |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |    |
| 1975       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 120 | 120 | 120 | 117 | 107 | 107 | 107 | 104 | 132 | 132 | 132 | 104 |    |
| 1976       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 100 | 101 | 98  | 101 | 100 | 100 | 100 | 100 | 103 | 100 | 100 | 100 | 100 |    |
| 1978       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 124 | 124 | 124 | 100 | 100 | 101 | 100 | 100 | 179 | 179 | 178 | 136 |    |
| 1979       | below Norm | 96                     | 96  | 96  | 100 | 100 | 100 | 100 | 100 | 101 | 100 | 100 | 101 | 96  | 96  | 96  | 91  | 102 | 102 | 102 | 107 | 102 | 102 | 102 | 100 |    |
| 1980       | above Norm | 100                    | 100 | 100 | 100 | 92  | 92  | 92  | 92  | 100 | 100 | 100 | 100 | 132 | 132 | 132 | 100 | 79  | 79  | 79  | 105 | 108 | 108 | 108 | 66  |    |
| 1981       | Dry        | 90                     | 90  | 90  | 92  | 90  | 90  | 90  | 90  | 100 | 100 | 100 | 100 | 97  | 96  | 97  | 97  | 96  | 96  | 96  | 105 | 104 | 104 | 103 | 91  |    |
| 1982       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 133 | 109 | 133 | 105 | 186 | 186 | 186 | 130 | 92  | 92  | 92  | 92  |    |
| 1983       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 100                    | 100 | 100 | 100 | 94  | 94  | 94  | 100 | 100 | 100 | 100 | 100 | 129 | 129 | 129 | 100 | 82  | 82  | 82  | 76  | 230 | 230 | 230 | 100 |    |
| 1985       | Dry        | 116                    | 116 | 116 | 116 | 83  | 83  | 83  | 83  | 100 | 100 | 100 | 100 | 100 | 94  | 95  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 115 | 106 | 115 | 132 | 100 | 100 | 100 | 100 | 116 | 116 | 116 | 95  |    |
| 1987       | Dry        | 68                     | 68  | 68  | 68  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 69                     | 69  | 69  | 69  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 99  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 76  | 76  | 76  | 76  | 132 | 132 | 130 | 132 | 116 | 120 | 100 | 116 |    |
| 1990       | Critical   | 100                    | 100 | 100 | 100 | 82  | 82  | 82  | 82  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 106                    | 106 | 106 | 111 | 90  | 90  | 90  | 90  | 100 | 100 | 100 | 100 | 99  | 99  | 99  | 99  | 109 | 109 | 109 | 109 | 77  | 77  | 77  | 77  |    |
| 1992       | Critical   | 65                     | 65  | 65  | 62  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 98  | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 141 | 141 | 141 | 141 | 100 | 100 | 100 | 100 | 132 | 132 | 132 | 100 |    |
| 1994       | Critical   | 70                     | 70  | 70  | 70  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 108 | 108 | 108 | 101 | 112 | 112 | 112 | 112 |    |
| 1996       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 147 | 147 | 147 | 100 | 100 | 100 | 100 | 98  | 241 | 241 | 241 | 181 |    |
| 1997       | Wet        | 100                    | 100 | 100 | 100 | 93  | 93  | 93  | 100 | 100 | 100 | 100 | 100 | 133 | 133 | 133 | 133 | 106 | 106 | 106 | 98  | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                    | 100 | 100 | 100 | 94  | 94  | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 71  | 71  | 92  | 64  | 197 | 197 | 149 | 100 |    |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Drum: Appendix Table-30 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Drum: Yuba River  
 Location: Node 211-213  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | below Norm | -                        | -  | -  | 1  | 1   | 1  | 1  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | 1                        | 1  | 1  | -  | 1   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | 1  | 1   | 1  | 1  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | 1                        | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 2 2 2 2 7 6 7 1 3 3 3 - - - - - 4 4 4 3 - - - -

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | below Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | 1  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1992       | Critical   | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | -  | 1  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 4 4 4 4 - - - - - 1 1 1 1 2 2 1 2 1 1 1 2

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 12                             | 11 | 12 | 3  | Potent                  | Potent | Potent | Less |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 4                              | 4  | 4  | 3  | Less                    | Less   | Less   | Less |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 4                              | 4  | 4  | 4  | Less                    | Less   | Less   | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 6                              | 6  | 5  | 7  | Less                    | Less   | Less   | Less |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 17                             | 16 | 16 | 12 | Less                    | Less   | Less   | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 4                              | 4  | 4  | 4  | Less                    | Less   | Less   | Less |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 9                              | 8  | 9  | 3  | Potent                  | Potent | Potent | Less |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Drum: Appendix Table-31 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Yuba River  
 Location: Iode 213-999  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |     |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1976       | Critical   | 87                       | 87  | 100 | 87  | 61  | 61  | 52  | 90  | 95  | 95  | 95  | 95  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1977       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1978       | above Norm | 100                      | 100 | 100 | 102 | 100 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 104 | 102 | 104 | 104 | 95  | 95  | 95  | 95  | 100 | 100 | 100 | 100 |     |
| 1979       | below Norm | 74                       | 75  | 82  | 51  | 60  | 60  | 60  | 95  | 65  | 65  | 61  | 107 | 113 | 113 | 113 | 113 | 91  | 91  | 91  | 91  | 103 | 103 | 103 | 100 |     |
| 1980       | above Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1981       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 131 | 155 | 155 | 155 | 151 | 77  | 77  | 77  | 79  | 109 | 109 | 109 | 107 |     |
| 1982       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 99  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1983       | Wet        | 56                       | 56  | 56  | 82  | 76  | 88  | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1984       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 117 | 117 | 117 | 107 | 100 | 100 | 100 | 100 | 92  | 92  | 92  | 95  |
| 1985       | Dry        | 100                      | 100 | 100 | 100 | 72  | 72  | 72  | 100 | 79  | 79  | 79  | 131 | 126 | 126 | 126 | 103 | 90  | 90  | 90  | 100 | 99  | 99  | 99  | 99  |     |
| 1986       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1987       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 139 | 139 | 139 | 144 | 89  | 89  | 89  | 85  | 116 | 116 | 116 | 116 |     |
| 1988       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 156 | 156 | 156 | 142 | 79  | 79  | 79  | 99  | 100 | 100 | 100 | 100 |     |
| 1989       | Dry        | 100                      | 100 | 100 | 100 | 99  | 99  | 99  | 100 | 97  | 97  | 97  | 97  | 133 | 133 | 133 | 135 | 71  | 71  | 71  | 69  | 100 | 100 | 100 | 100 |     |
| 1990       | Critical   | 100                      | 100 | 100 | 100 | 98  | 98  | 98  | 98  | 96  | 96  | 96  | 96  | 131 | 131 | 131 | 131 | 74  | 74  | 74  | 74  | 126 | 126 | 126 | 125 |     |
| 1991       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1992       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 100 | 100 | 100 | 99  | 115 | 115 | 115 | 115 | 96  | 96  | 96  | 98  | 139 | 139 | 139 | 138 |     |
| 1993       | above Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1994       | Critical   | 97                       | 97  | 97  | 45  | 67  | 67  | 67  | 95  | 67  | 67  | 67  | 108 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 147 | 147 | 147 | 147 |
| 1995       | Wet        | 100                      | 100 | 100 | 92  | 100 | 100 | 100 | 105 | 104 | 104 | 103 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1996       | Wet        | 100                      | 100 | 105 | 87  | 90  | 89  | 90  | 97  | 93  | 94  | 91  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1997       | Wet        | 100                      | 100 | 100 | 100 | 45  | 45  | 45  | 69  | 73  | 73  | 73  | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 106 | 106 | 106 | 100 |
| 1998       | Wet        | 72                       | 72  | 72  | 79  | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 113 | 113 | 113 | 113 | 94  | 99  | 99  | 89  | 100 | 96  | 96  | 99  |
| 1999       | Wet        | 100                      | 100 | 100 | 100 | 61  | 61  | 61  | 101 | 114 | 114 | 114 | 146 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |    |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |    |
| 1975       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 142 | 142 | 142 | 136 | 113 | 113 | 113 | 107 | 151 | 151 | 151 | 107 |    |
| 1976       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 69  | 100 | 101 | 97  | 102 | 100 | 100 | 100 | 103 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 158 | 158 | 158 | 100 | 100 | 101 | 100 | 100 | 262 | 262 | 260 | 173 |    |
| 1979       | below Norm | 96                     | 96  | 96  | 100 | 100 | 100 | 100 | 100 | 102 | 101 | 100 | 102 | 90  | 90  | 90  | 78  | 105 | 105 | 105 | 114 | 122 | 122 | 122 | 100 |    |
| 1980       | above Norm | 100                    | 100 | 100 | 100 | 91  | 91  | 91  | 91  | 100 | 100 | 100 | 100 | 534 | 534 | 534 | 102 | 60  | 60  | 60  | 109 | 119 | 119 | 119 | 18  |    |
| 1981       | Dry        | 87                     | 87  | 87  | 90  | 84  | 84  | 84  | 84  | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 91  | 91  | 90  | 112 | 110 | 110 | 107 | 79  |    |
| 1982       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 162 | 116 | 162 | 109 | 250 | 250 | 250 | 152 | 90  | 90  | 90  | 90  |    |
| 1983       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 100                    | 100 | 100 | 100 | 92  | 92  | 92  | 100 | 100 | 100 | 100 | 100 | 483 | 483 | 483 | 100 | 67  | 67  | 67  | 57  | OTP | OTP | OTP | 102 |    |
| 1985       | Dry        | 120                    | 120 | 120 | 120 | 75  | 75  | 75  | 75  | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry        | 51                     | 51  | 51  | 51  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 57                     | 57  | 57  | 57  | 101 | 101 | 101 | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 19  | 19  | 19  | 19  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 99                     | 99  | 99  | 100 | 74  | 74  | 74  | 74  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 107                    | 107 | 107 | 114 | 87  | 87  | 87  | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 53                     | 53  | 53  | 50  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 286 | 286 | 286 | 286 | 100 | 100 | 100 | 100 | 150 | 150 | 150 | 100 |    |
| 1994       | Critical   | 56                     | 56  | 56  | 56  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 115 | 115 | 115 | 102 | 117 | 117 | 117 | 117 |    |
| 1996       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 730 | 730 | 730 | 100 | 100 | 100 | 100 | 97  | OTP | OTP | OTP | 803 |    |
| 1997       | Wet        | 100                    | 100 | 100 | 100 | 92  | 92  | 92  | 100 | 100 | 100 | 100 | 100 | 188 | 188 | 188 | 188 | 110 | 110 | 110 | 97  | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                    | 100 | 100 | 100 | 92  | 92  | 92  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 31  | 31  | 81  | 12  | 945 | 945 | 523 | 100 |    |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Drum: Appendix Table-32 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Drum: Yuba River  
 Location: Node 213-999  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | below Norm | 1                        | 1  | -  | 1  | 1   | 1  | 1  | -  | 1   | 1  | 1  | -  | 1   | 1  | 1  | -  | 1   | 1  | 1  | -  | 1   | 1  | 1  |    |
| 1980       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | 1                        | 1  | 1  | -  | 1   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | 1   | 1  | 1  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | 1  | 1   | 1  | 1  | -  | 1   | 1  | 1  | -  | 1   | 1  | 1  | -  | 1   | 1  | 1  | -  | 1   | 1  | 1  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 3 3 2 3 7 6 7 1 4 4 4 - - - - - 4 4 4 3 - - - -

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |     |     |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|-----|-----|----|
|            |            | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |     |     |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM  | WM  | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1978       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1979       | below Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1980       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | -  | -   | -   | -   |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | 1   |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1983       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | OTP | OTP | OTP |    |
| 1985       | Dry        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1987       | Dry        | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1988       | Critical   | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -   | -   |    |
| 1990       | Critical   | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1992       | Critical   | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1993       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1994       | Critical   | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1998       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1999       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | -  | 1  | -   | -   | -   |    |

Total Number of Events: 4 4 4 4 2 2 2 2 - - 1 - 1 1 1 2 3 3 2 2 - - - 2

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 14                             | 13 | 13 | 4  | Potent                  | Potent | Potent | Less   |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 4                              | 4  | 4  | 3  | Less                    | Less   | Less   | Less   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 6                              | 6  | 7  | 6  | Less                    | Less   | Less   | Less   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 7                              | 7  | 6  | 9  | Less                    | Less   | Less   | Less   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 20                             | 19 | 19 | 16 | Potent                  | Less   | Less   | Less   |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 6                              | 6  | 6  | 6  | Potent                  | Potent | Potent | Potent |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 10                             | 9  | 9  | 4  | Potent                  | Potent | Potent | Less   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Drum: Appendix Table-33 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Bowman-Spaulding Canal  
 Location: Iode 150-190  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1976       | Critical   | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1977       | Critical   | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1978       | above Norm | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1979       | below Norm | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1980       | above Norm | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1982       | Wet        | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1983       | Wet        | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1984       | Wet        | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1985       | Dry        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1986       | Wet        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1987       | Dry        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical   | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical   | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |
| 1991       | Critical   | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical   | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | above Norm | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical   | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |
| 1995       | Wet        | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1996       | Wet        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1997       | Wet        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet        | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1999       | Wet        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1976       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1977       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1978       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1979       | below Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1980       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1981       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1982       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1983       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1984       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1985       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1986       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1987       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1988       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1989       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1990       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1991       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1992       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1993       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1994       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1995       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1996       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1997       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1998       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Drum: Appendix Table-35 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Canyon Creek  
 Location: Iode 147-190  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 8   | 406 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | above Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | below Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | above Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 94  | 94  | 94  | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 7   | 7   | 7   | 7   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | above Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 605 | 605 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 205 | 205 | 195 | 147 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | below Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 33  | 100 | 100 | 100 | 100 | 100 | 79  | 153 | 100 | 318 |    |
| 1989       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 233 | 100 | 100 | 100 |    |
| 1991       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 460 | 100 | 100 | 100 |    |
| 1993       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Drum: Appendix Table-36 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Drum: Canyon Creek  
 Location: Node 147-190  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | below Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - - - - - 1 2 1 1 - - - - - - - - - - - - - - - -

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | below Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  | -  | -   | 1  | -  | -  | 1   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | above Norm | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - - - - - - - - - - - 1 - - - - - 1 - - - - - 1 - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |      |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|------|------|------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC   | WS   | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 1                              | 2  | 1  | 1  | Less                    | Less | Less | Less |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 0                              | 3  | 0  | 0  | No                      | Less | No   | No   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 0                              | 3  | 0  | 0  | No                      | Less | No   | No   |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant



Drum: Appendix Table-37 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Middle Yuba River  
 Location: Node 98-100  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |     |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 3   | 3   | 3   | 3   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1976       | Critical   | 100                      | OTP | 100 | 100 | 100 | 3   | 3   | 100 | 100 | OTP | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1977       | Critical   | OTP                      | 100 | 100 | 100 | 1   | 57  | 108 | 31  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1978       | above Norm | 100                      | 100 | 36  | 77  | 100 | 100 | 42  | 681 | 100 | 100 | 100 | 100 | 100 | 22  | 22  | 22  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1979       | below Norm | 100                      | 2   | 2   | 2   | 100 | OTP | OTP | 682 | 100 | 288 | 288 | 288 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1980       | above Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 22  | 69  | 2   | 100 | 2   | 5   | 390 | 5   | 390 | 100 | 100 | OTP | 100 |     |
| 1981       | Dry        | 81                       | 13  | 81  | 1   | 100 | 100 | 100 | 716 | 100 | 276 | 100 | 285 | 4   | 84  | 4   | 4   | 1   | 7   | 1   | 106 | OTP | 100 | OTP | 100 |     |
| 1982       | Wet        | 133                      | 54  | 43  | 100 | 214 | 260 | 214 | 100 | 100 | 100 | 100 | 100 | OTP | 41  | 309 | 309 | 100 | 262 | OTP | 100 | 100 | OTP | OTP |     |     |
| 1983       | Wet        | OTP                      | OTP | OTP | 100 | 100 | 100 | 100 | 100 | 4   | 4   | 4   | 100 | OTP | OTP | OTP | OTP | 384 | OTP | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1984       | Wet        | 100                      | 100 | 100 | 8   | 100 | 100 | 100 | 100 | 100 | 80  | 100 | 100 | 1   | 46  | 1   | 1   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1985       | Dry        | 100                      | 100 | OTP | OTP | 100 | 100 | 100 | OTP | 100 | 164 | 2   | 2   | 100 | 100 | 100 | OTP | 2   | 2   | 2   | 2   | 100 | 100 | 100 | 100 |     |
| 1986       | Wet        | 100                      | 128 | 9   | 128 | 100 | 100 | 100 | 100 | 100 | 100 | 353 | 100 | 2   | 182 | 83  | 2   | OTP | 100 | 100 | OTP | 100 | 61  | 50  | 111 | 111 |
| 1987       | Dry        | OTP                      | OTP | OTP | OTP | 1   | 1   | 100 | 1   | 177 | 499 | 23  | 499 | 100 | 100 | 100 | 888 | 100 | 100 | 688 | 100 | 100 | 100 | 356 | 100 |     |
| 1988       | Critical   | 28                       | 28  | OTP | 28  | 83  | 100 | 1   | 77  | 274 | 356 | 716 | 274 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1989       | Dry        | 297                      | 4   | 4   | 4   | 11  | 98  | 82  | 1   | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 422 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1990       | Critical   | 100                      | 12  | 1   | 12  | 100 | 100 | 100 | 100 | 82  | 279 | 204 | 279 | 100 | 100 | 100 | 100 | 2   | 2   | 2   | 2   | 100 | 100 | 100 | 100 |     |
| 1991       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 4   | 4   | 4   | 4   | 100 | 100 | 100 | 100 |
| 1992       | Critical   | 100                      | 100 | 2   | 2   | 100 | 100 | 100 | 100 | 100 | 100 | 341 | 341 | 100 | 100 | OTP | OTP | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | above Norm | 100                      | OTP | 100 | 100 | 100 | 100 | OTP | OTP | 230 | 3   | 3   | 3   | OTP | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2   | 2   | 2   | 2   |
| 1994       | Critical   | 100                      | 2   | 2   | 31  | 100 | OTP | OTP | OTP | 100 | 190 | 190 | 2   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet        | OTP                      | 100 | 512 | 100 | 2   | 104 | 1   | 104 | 1   | 4   | 100 | 49  | 100 | 100 | 100 | 100 | OTP | OTP | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1996       | Wet        | 100                      | OTP | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 36  | 100 | 133 | 114 | 114 | 100 | 2   | 4   | 4   | 4   | 150 | 100 | OTP | 100 | OTP |     |
| 1997       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 27  | 100 | 100 | 5   | 5   | 5   | 55  | 77  | 216 | 137 | 118 | 155 | 100 |     |
| 1998       | Wet        | 59                       | 100 | 1   | 1   | 100 | 100 | OTP | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1   | 51  | 1   | 100 | 100 | 100 | 100 |     |
| 1999       | Wet        | 39                       | 132 | 100 | 100 | 100 | 100 | 100 | 100 | 444 | 122 | 100 | 100 | 6   | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |     |    |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |    |
| 1975       | Wet        | 100                    | OTP | 100 | OTP | OTP | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 5   | 100 | 5   | 100 | 100 | 44  | 100 | 160 |    |
| 1976       | Critical   | 100                    | OTP | OTP | OTP | 2   | 2   | 2   | 2   | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 6   | 138 | 6   | 102 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 976 | 100 |    |
| 1978       | above Norm | 100                    | 100 | 100 | 100 | 100 | 458 | 458 | 458 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 17  | 17  | 100 |    |
| 1979       | below Norm | 100                    | 100 | 100 | OTP | 100 | 100 | 100 | 2   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | above Norm | 148                    | 101 | 32  | 101 | 117 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | OTP | OTP | OTP |    |
| 1981       | Dry        | 100                    | OTP | 100 | OTP | 781 | 10  | 756 | 10  | 100 | 100 | 100 | 100 | 2   | 2   | 2   | 2   | OTP | 100 | 100 | OTP | 10  | 482 | 690 | 10  |     |    |
| 1982       | Wet        | 11                     | 1   | 100 | 1   | 100 | 97  | 4   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 2   | 100 | 100 | 4   | 143 | 100 |     |    |
| 1983       | Wet        | 2                      | 2   | 2   | 2   | 97  | 11  | 90  | 90  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 191 | 771 | 355 | 355 | 92  | 77  | 77  | 77  |     |    |
| 1984       | Wet        | 100                    | OTP | OTP | OTP | 210 | 10  | 107 | 107 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 116 | 40  | 100 | 2   |    |
| 1985       | Dry        | 100                    | OTP | 100 | 100 | OTP | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 5   | 100 | 5   |    |
| 1986       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 664 | 100 | 664 |    |
| 1987       | Dry        | 100                    | OTP | 15  | OTP | 100 | 11  | 97  | 1   | 100 | 100 | 100 | 100 | OTP | OTP | OTP | OTP | 3   | 3   | 3   | 3   | 100 | 100 | 100 | 806 | 100 |    |
| 1988       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 168 | 168 |    |
| 1989       | Dry        | 100                    | OTP | 100 | OTP | 100 | 2   | 100 | 2   | 100 | 81  | 81  | 100 | 100 | 464 | 464 | 100 | 602 | 602 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | OTP                    | 170 | OTP | 170 | 100 | OTP | 100 | OTP | 26  | 18  | 100 | 100 | OTP | 162 | 100 | 100 | 100 | 130 | 100 | 100 | 100 | 132 | OTP | 100 | 100 |    |
| 1991       | Critical   | 100                    | OTP | 100 | 100 | 100 | 100 | OTP | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 4                      | 357 | 4   | 357 | 100 | 30  | 97  | 1   | 100 | 100 | 100 | 100 | 3   | 3   | 105 | 3   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | above Norm | 100                    | OTP | 100 | OTP | 100 | 1   | 100 | 1   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 249 | 100 | 249 | 249 | 58  | 100 | 58  | 58  |     |    |
| 1994       | Critical   | 100                    | 100 | 100 | OTP | 100 | 6   | 100 | 6   | 100 | 100 | 174 | 100 | 20  | 20  | OTP | 100 | 100 | 172 | 100 | OTP | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                    | 100 | 100 | 100 | 2   | 2   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 5   | 100 | 23  |    |
| 1996       | Wet        | 135                    | 2   | 148 | 2   | 100 | 124 | 100 | 124 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 18  |    |
| 1997       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 204 | 100 | 100 | 100 | 1   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                    | OTP | 100 | 100 | 100 | 89  | 180 | 162 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 4   | 4   | 100 | 99  |    |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Drum: Appendix Table-38 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Drum: Middle Yuba River  
 Location: Node 98-100  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |    |
| 1976       | Critical   | -                        | OTP | -   | -   | -   | 1   | 1   | -   | -   | OTP | OTP | -   | -   | -   | -   | -   | OTP | -   | -   | -   | -   | -   | -   |    |
| 1977       | Critical   | OTP                      | -   | -   | -   | 1   | 1   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |    |
| 1978       | above Norm | -                        | -   | 1   | 1   | -   | -   | 1   | -   | -   | -   | -   | -   | 1   | 1   | 1   | -   | -   | -   | -   | -   | -   | -   | -   |    |
| 1979       | below Norm | -                        | 1   | 1   | 1   | -   | OTP | OTP | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |    |
| 1980       | above Norm | -                        | -   | -   | OTP | -   | -   | -   | -   | -   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |    |
| 1981       | Dry        | -                        | 1   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | 1   | 1   | -   | 1   | 1   | 1   | 1   | -   | -   | OTP | -   |    |
| 1982       | Wet        | -                        | 1   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | OTP | 1   | -   | -   | -   | -   | OTP | -   | -   | -   | OTP | OTP |    |
| 1983       | Wet        | OTP                      | OTP | OTP | -   | -   | -   | -   | -   | 1   | 1   | 1   | -   | OTP | OTP | OTP | OTP | -   | OTP | -   | -   | -   | -   | -   |    |
| 1984       | Wet        | -                        | -   | -   | 1   | -   | -   | -   | OTP | -   | -   | -   | 1   | 1   | 1   | 1   | 1   | -   | -   | -   | -   | OTP | -   | -   |    |
| 1985       | Dry        | -                        | -   | OTP | OTP | -   | -   | -   | OTP | -   | -   | 1   | 1   | -   | -   | -   | OTP | -   | 1   | 1   | 1   | 1   | -   | -   |    |
| 1986       | Wet        | -                        | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | 1   | -   | -   | -   | -   | OTP | -   | -   | -   | OTP | -   | -   |    |
| 1987       | Dry        | OTP                      | OTP | OTP | OTP | 1   | 1   | -   | 1   | -   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |    |
| 1988       | Critical   | 1                        | 1   | OTP | 1   | -   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |    |
| 1989       | Dry        | -                        | 1   | 1   | 1   | 1   | -   | -   | 1   | -   | -   | -   | OTP | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |    |
| 1990       | Critical   | -                        | 1   | 1   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | 1   | 1   | 1   | 1   | -   | -   | -   |    |
| 1991       | Critical   | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | 1   | 1   | 1   | 1   | -   | -   |    |
| 1992       | Critical   | -                        | -   | 1   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | OTP | OTP | -   | -   | OTP | -   | -   | -   | -   | -   |    |
| 1993       | above Norm | -                        | OTP | -   | -   | -   | -   | OTP | OTP | -   | 1   | 1   | 1   | OTP | OTP | -   | -   | -   | -   | OTP | OTP | -   | 1   | 1   |    |
| 1994       | Critical   | -                        | 1   | 1   | 1   | -   | OTP | OTP | OTP | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | OTP | -   |    |
| 1995       | Wet        | OTP                      | -   | -   | -   | 1   | -   | 1   | -   | 1   | 1   | -   | 1   | -   | -   | -   | -   | OTP | OTP | -   | -   | -   | -   | -   |    |
| 1996       | Wet        | -                        | OTP | -   | OTP | -   | -   | -   | -   | -   | 1   | -   | -   | -   | -   | -   | 1   | 1   | 1   | 1   | -   | -   | OTP | OTP |    |
| 1997       | Wet        | -                        | -   | -   | -   | -   | -   | -   | OTP | -   | -   | -   | 1   | -   | -   | -   | 1   | 1   | 1   | 1   | -   | -   | -   | -   |    |
| 1998       | Wet        | 1                        | -   | 1   | 1   | -   | -   | OTP | OTP | -   | -   | -   | -   | -   | -   | -   | -   | 1   | 1   | 1   | 1   | -   | -   | -   |    |
| 1999       | Wet        | 1                        | -   | -   | -   | -   | -   | -   | OTP | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |    |

Total Number of Events: 3 7 9 10 4 3 4 4 2 5 4 7 5 5 5 8 6 7 8 4 2 2 1 1

| Water Year | Water Type | Habitat Reduction Events |     |     |     |     |     |     |     |     |     |    |    |     |     |     |     |     |     |    |     |     |     |     |    |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|
|            |            | Apr                      |     |     |     | May |     |     |     | Jun |     |    |    | Jul |     |     |     | Aug |     |    |     | Sep |     |     |    |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM | ST | NP  | PM  | WM  | ST  | NP  | PM  | WM | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | -                        | OTP | -   | OTP | OTP | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | 1   | -  | -   | 1   | -   | -   |    |
| 1976       | Critical   | -                        | OTP | OTP | OTP | 1   | 1   | 1   | 1   | -   | OTP | -  | -  | OTP | -   | -   | -   | -   | -   | -  | OTP | -   | -   | -   | -  |
| 1977       | Critical   | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -  | -  | 1   | -   | 1   | -   | -   | OTP | -  | -   | -   | -   | -   |    |
| 1978       | above Norm | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -  | -   | 1   | 1   | -   |    |
| 1979       | below Norm | -                        | -   | -   | OTP | -   | -   | -   | 1   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -   |    |
| 1980       | above Norm | -                        | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -  | -   | OTP | OTP | OTP |    |
| 1981       | Dry        | -                        | OTP | -   | OTP | -   | 1   | -   | 1   | -   | -   | -  | -  | 1   | 1   | 1   | 1   | OTP | -   | -  | OTP | 1   | -   | 1   |    |
| 1982       | Wet        | 1                        | 1   | -   | 1   | -   | -   | 1   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | 1  | -   | -   | -   | -   |    |
| 1983       | Wet        | 1                        | 1   | 1   | 1   | -   | 1   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -  | -   | 1   | 1   | 1   |    |
| 1984       | Wet        | -                        | OTP | OTP | OTP | -   | 1   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | 1   | -   | -  | -   | -   | -   | 1   |    |
| 1985       | Dry        | -                        | OTP | -   | -   | OTP | -   | OTP | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -  | -   | -   | 1   | -   |    |
| 1986       | Wet        | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -   |    |
| 1987       | Dry        | -                        | OTP | 1   | OTP | -   | 1   | -   | 1   | -   | -   | -  | -  | OTP | OTP | OTP | OTP | 1   | 1   | 1  | 1   | -   | -   | -   |    |
| 1988       | Critical   | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | OTP | -   | -   | -   | -  | OTP | OTP | OTP | OTP |    |
| 1989       | Dry        | -                        | OTP | -   | OTP | -   | 1   | -   | 1   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -  | -   | OTP | OTP | OTP |    |
| 1990       | Critical   | OTP                      | -   | OTP | -   | -   | OTP | -   | OTP | 1   | 1   | -  | -  | OTP | -   | -   | -   | -   | -   | -  | -   | -   | OTP | -   |    |
| 1991       | Critical   | -                        | OTP | -   | -   | -   | -   | OTP | OTP | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -   |    |
| 1992       | Critical   | 1                        | -   | 1   | -   | -   | 1   | -   | 1   | -   | -   | -  | 1  | 1   | -   | 1   | -   | -   | -   | -  | -   | -   | -   | -   |    |
| 1993       | above Norm | -                        | OTP | OTP | OTP | -   | 1   | -   | 1   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -  | -   | 1   | -   | 1   |    |
| 1994       | Critical   | -                        | -   | -   | OTP | -   | 1   | -   | 1   | -   | -   | -  | 1  | 1   | OTP | -   | -   | -   | -   | -  | OTP | -   | -   | -   |    |
| 1995       | Wet        | -                        | -   | -   | -   | 1   | 1   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -  | -   | 1   | -   | 1   |    |
| 1996       | Wet        | -                        | 1   | -   | 1   | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | 1   |    |
| 1997       | Wet        | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | 1   | -   | -  | -   | -   | OTP | OTP |    |
| 1998       | Wet        | -                        | OTP | -   | -   | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -  | -   | 1   | 1   | -   |    |
| 1999       | Wet        | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -   |    |

Total Number of Events: 3 3 4 3 2 10 2 8 1 1 - - 4 3 2 2 3 2 2 2 3 8 3 7

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 9                              | 15 | 17 | 21 | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 13                             | 14 | 14 | 13 | Potent                  | Potent | Potent | Potent |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 8                              | 16 | 7  | 12 | Potent                  | Potent | Potent | Potent |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 14                             | 21 | 16 | 21 | Potent                  | Potent | Potent | Potent |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 23                             | 37 | 26 | 36 | Potent                  | Potent | Potent | Potent |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 5                              | 13 | 6  | 11 | Potent                  | Potent | Potent | Potent |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 7                              | 10 | 13 | 14 | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Drum: Appendix Table-39 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Middle Yuba River  
 Location: Iode 100-105  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | above Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | below Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | above Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 48  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | above Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | below Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Drum: Appendix Table-40 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Drum: Middle Yuba River  
 Location: Node 100-105  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - - - - - 1 - - - - -

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm  | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical   | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |    |    |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|------|----|----|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC   | WS | ST |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 0                              | 1  | 0  | 0  | No                      | Less | No | No |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 0  | 0  | 0  | No                      | No   | No | No |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 0                              | 0  | 0  | 0  | No                      | No   | No | No |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 0                              | 0  | 0  | 0  | No                      | No   | No | No |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 0                              | 0  | 0  | 0  | No                      | No   | No | No |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 0                              | 0  | 0  | 0  | No                      | No   | No | No |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 0                              | 0  | 0  | 0  | No                      | No   | No | No |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Drum: Appendix Table-41 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Middle Yuba River  
 Location: Iode 105-190  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |            | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |     |
|            |            | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet        | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1976       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1977       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1978       | above Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1979       | below Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1980       | above Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 57  | 100 | 100 | 57  | 100 | 427 | 427 | 427 | 100 | 100 | 100 | 100 |
| 1981       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1982       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1983       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1984       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 91  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1985       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1986       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 122 | 307 | 307 | 307 |     |
| 1987       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1988       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1989       | Dry        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 181 | 181 | 181 |     |
| 1990       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1991       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1992       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1993       | above Norm | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1994       | Critical   | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1995       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1996       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 57  | 100 | 100 | 100 | 100 | 427 | 427 | 427 | 100 | 100 | 100 | 100 |
| 1997       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 57  | 100 | 100 | 57  | 100 | 371 | 371 | 371 | 100 | 100 | 100 | 100 |
| 1998       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1999       | Wet        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |     |

| Water Year | Water Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |            | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |            | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | below Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet        | 100                    | 100 | 55  | 100 | 100 | 22  | 100 | 22  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | above Norm | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical   | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet        | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Drum: Appendix Table-43 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Eel River, Scott Dam to Soda Creek  
 Location: Iode 800-805  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |
|------------|------------|--------------------------|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|
|            |            | Oct                      |     |    |    | Nov |     |    |    | Dec |     |    |    | Jan |     |    |    | Feb |     |    |    | Mar |     |    |    |
|            |            | NP                       | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST |
| 1975       | Wet        | ND                       | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | 103 | 74  | ND | ND | 99  | 105 | ND | ND | 100 | 100 | ND | ND |
| 1976       | Critical   | 100                      | 53  | ND | ND | 100 | 59  | ND | ND | 100 | 110 | ND | ND | 100 | 162 | ND | ND | 100 | 74  | ND | ND | 100 | 63  | ND | ND |
| 1977       | Critical   | 100                      | 100 | ND | ND | 100 | 82  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1978       | above Norm | 100                      | 100 | ND | ND | 100 | 733 | ND | ND | 100 | 78  | ND | ND | 100 | 98  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1979       | below Norm | 100                      | 66  | ND | ND | 100 | 55  | ND | ND | 100 | 100 | ND | ND | 103 | 103 | ND | ND | 98  | 144 | ND | ND | 100 | 100 | ND | ND |
| 1980       | above Norm | 99                       | 77  | ND | ND | 99  | 97  | ND | ND | 84  | 83  | ND | ND | 98  | 95  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1981       | Dry        | 100                      | 90  | ND | ND | 96  | 68  | ND | ND | 103 | 34  | ND | ND | 100 | 150 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1982       | Wet        | 100                      | 230 | ND | ND | 100 | 83  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1983       | Wet        | 100                      | 108 | ND | ND | 100 | 44  | ND | ND | 100 | 92  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1984       | Wet        | 100                      | 207 | ND | ND | 100 | 67  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1985       | Dry        | 100                      | 199 | ND | ND | 100 | 41  | ND | ND | 100 | 100 | ND | ND | 102 | 102 | ND | ND | 98  | 98  | ND | ND | 100 | 100 | ND | ND |
| 1986       | Wet        | 80                       | 162 | ND | ND | 103 | 37  | ND | ND | 103 | 58  | ND | ND | 100 | 136 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1987       | Dry        | 100                      | 77  | ND | ND | 100 | 32  | ND | ND | 100 | 80  | ND | ND | 103 | 107 | ND | ND | 102 | 118 | ND | ND | 99  | 102 | ND | ND |
| 1988       | Critical   | 100                      | 274 | ND | ND | 100 | 227 | ND | ND | 100 | 62  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 59  | ND | ND |
| 1989       | Dry        | 96                       | 75  | ND | ND | 103 | 46  | ND | ND | 100 | 74  | ND | ND | 103 | 85  | ND | ND | 97  | 114 | ND | ND | 100 | 109 | ND | ND |
| 1990       | Critical   | 100                      | 26  | ND | ND | 100 | 54  | ND | ND | 100 | 100 | ND | ND | 103 | 81  | ND | ND | 102 | 130 | ND | ND | 102 | 152 | ND | ND |
| 1991       | Critical   | 100                      | 88  | ND | ND | 100 | 63  | ND | ND | 100 | 140 | ND | ND | 100 | 180 | ND | ND | 100 | 943 | ND | ND | 100 | 74  | ND | ND |
| 1992       | Critical   | 100                      | 79  | ND | ND | 100 | 47  | ND | ND | 100 | 55  | ND | ND | 103 | 105 | ND | ND | 99  | 107 | ND | ND | 100 | 100 | ND | ND |
| 1993       | above Norm | 100                      | 280 | ND | ND | 100 | 64  | ND | ND | 100 | 54  | ND | ND | 100 | 98  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1994       | Critical   | 100                      | 121 | ND | ND | 96  | 81  | ND | ND | 103 | 53  | ND | ND | 103 | 108 | ND | ND | 102 | 74  | ND | ND | 90  | 207 | ND | ND |
| 1995       | Wet        | 100                      | 293 | ND | ND | 96  | 43  | ND | ND | 103 | 28  | ND | ND | 100 | 102 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1996       | Wet        | 100                      | 124 | ND | ND | 100 | 185 | ND | ND | 100 | 60  | ND | ND | 100 | 94  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1997       | Wet        | 96                       | 102 | ND | ND | 103 | 92  | ND | ND | 100 | 88  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 94  | ND | ND |
| 1998       | Wet        | 71                       | 87  | ND | ND | 104 | 54  | ND | ND | 104 | 92  | ND | ND | 101 | 99  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1999       | Wet        | 95                       | 95  | ND | ND | 103 | 77  | ND | ND | 103 | 79  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND |

| Water Year | Water Type | Percentage of Baseline |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |
|------------|------------|------------------------|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|
|            |            | Apr                    |     |    |    | May |     |    |    | Jun |     |    |    | Jul |     |    |    | Aug |     |    |    | Sep |     |    |    |
|            |            | NP                     | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST |
| 1975       | Wet        | 100                    | 72  | ND | ND | 100 | 164 | ND | ND | 100 | 63  | ND | ND | 100 | 89  | ND | ND | 100 | 106 | ND | ND | 100 | 175 | ND | ND |
| 1976       | Critical   | 100                    | 294 | ND | ND | 100 | 195 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 125 | ND | ND | 100 | 100 | ND | ND |
| 1977       | Critical   | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 152 | ND | ND | 100 | 284 | ND | ND | 100 | 100 | ND | ND |
| 1978       | above Norm | 100                    | 75  | ND | ND | 100 | 266 | ND | ND | 100 | 62  | ND | ND | 100 | 57  | ND | ND | 100 | 109 | ND | ND | 100 | 124 | ND | ND |
| 1979       | below Norm | 100                    | 88  | ND | ND | 100 | 137 | ND | ND | 100 | 79  | ND | ND | 100 | 189 | ND | ND | 194 | 210 | ND | ND | 102 | 98  | ND | ND |
| 1980       | above Norm | 100                    | 58  | ND | ND | 100 | 288 | ND | ND | 100 | 100 | ND | ND | 100 | 105 | ND | ND | 100 | 119 | ND | ND | 100 | 217 | ND | ND |
| 1981       | Dry        | 100                    | 67  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 167 | ND | ND | 100 | 243 | ND | ND | 100 | 196 | ND | ND |
| 1982       | Wet        | 100                    | 92  | ND | ND | 100 | 181 | ND | ND | 100 | 113 | ND | ND | 100 | 136 | ND | ND | 100 | 185 | ND | ND | 100 | 317 | ND | ND |
| 1983       | Wet        | 100                    | 84  | ND | ND | 100 | 128 | ND | ND | 100 | 80  | ND | ND | 100 | 113 | ND | ND | 100 | 152 | ND | ND | 100 | 242 | ND | ND |
| 1984       | Wet        | 100                    | 58  | ND | ND | 100 | 252 | ND | ND | 100 | 100 | ND | ND | 100 | 136 | ND | ND | 100 | 226 | ND | ND | 100 | 174 | ND | ND |
| 1985       | Dry        | 100                    | 60  | ND | ND | 100 | 164 | ND | ND | 100 | 100 | ND | ND | 100 | 120 | ND | ND | 100 | 126 | ND | ND | 100 | 176 | ND | ND |
| 1986       | Wet        | 100                    | 72  | ND | ND | 100 | 169 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1987       | Dry        | 100                    | 78  | ND | ND | 100 | 100 | ND | ND | 100 | 135 | ND | ND | 100 | 120 | ND | ND | 100 | 124 | ND | ND | 100 | 169 | ND | ND |
| 1988       | Critical   | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 141 | ND | ND | 100 | 123 | ND | ND | 100 | 128 | ND | ND | 100 | 182 | ND | ND |
| 1989       | Dry        | 100                    | 79  | ND | ND | 100 | 170 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 129 | ND | ND | 100 | 119 | ND | ND |
| 1990       | Critical   | 100                    | 249 | ND | ND | 65  | 117 | ND | ND | 99  | 30  | ND | ND | 100 | 90  | ND | ND | 100 | 103 | ND | ND | 100 | 172 | ND | ND |
| 1991       | Critical   | 100                    | 58  | ND | ND | 100 | 459 | ND | ND | 100 | 100 | ND | ND | 100 | 118 | ND | ND | 100 | 111 | ND | ND | 100 | 222 | ND | ND |
| 1992       | Critical   | 100                    | 69  | ND | ND | 100 | 100 | ND | ND | 100 | 136 | ND | ND | 100 | 231 | ND | ND | 100 | 161 | ND | ND | 100 | 179 | ND | ND |
| 1993       | above Norm | 100                    | 65  | ND | ND | 100 | 192 | ND | ND | 100 | 81  | ND | ND | 100 | 87  | ND | ND | 100 | 94  | ND | ND | 100 | 166 | ND | ND |
| 1994       | Critical   | 100                    | 120 | ND | ND | 100 | 100 | ND | ND | 100 | 143 | ND | ND | 100 | 165 | ND | ND | 100 | 181 | ND | ND | 100 | 188 | ND | ND |
| 1995       | Wet        | 100                    | 82  | ND | ND | 100 | 127 | ND | ND | 100 | 74  | ND | ND | 100 | 68  | ND | ND | 100 | 188 | ND | ND | 100 | 276 | ND | ND |
| 1996       | Wet        | 100                    | 67  | ND | ND | 100 | 149 | ND | ND | 100 | 64  | ND | ND | 100 | 158 | ND | ND | 100 | 203 | ND | ND | 100 | 219 | ND | ND |
| 1997       | Wet        | 100                    | 67  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 120 | ND | ND | 100 | 253 | ND | ND | 100 | 169 | ND | ND |
| 1998       | Wet        | 100                    | 79  | ND | ND | 100 | 140 | ND | ND | 100 | 88  | ND | ND | 100 | 110 | ND | ND | 100 | 186 | ND | ND | 100 | 279 | ND | ND |
| 1999       | Wet        | ND                     | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Drum: Appendix Table-44 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Drum: Eel River, Scott Dam to Soda Creek  
 Location: Node 800-805  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1976       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1977       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1978       | above Norm | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1979       | below Norm | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1980       | above Norm | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1981       | Dry        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1982       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1983       | Wet        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1984       | Wet        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1985       | Dry        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1986       | Wet        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1987       | Dry        | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1988       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND |
| 1989       | Dry        | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1990       | Critical   | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1991       | Critical   | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND |
| 1992       | Critical   | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1993       | above Norm | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1994       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND |
| 1995       | Wet        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1996       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1997       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1998       | Wet        | 1                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1999       | Wet        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |

Total Number of Events: 1 7 - - - 16 - - - 12 - - - 1 - - - 2 - - - 3 - - -

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1976       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1977       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1978       | above Norm | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1979       | below Norm | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1980       | above Norm | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1981       | Dry        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1982       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1983       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1984       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1985       | Dry        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1986       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1987       | Dry        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1988       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1989       | Dry        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1990       | Critical   | -                        | -  | ND | ND | 1   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1991       | Critical   | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1992       | Critical   | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1993       | above Norm | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1994       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1995       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1996       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1997       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1998       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1999       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |

Total Number of Events: - 15 - - - 1 - - - 6 - - - 2 - - - - - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |    |    |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|----|----|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS | ST |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 1                              | 35 | 0  | 0  | Less                    | Potent | No | No |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 6  | 0  | 0  | No                      | Less   | No | No |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 1                              | 24 | 0  | 0  | Less                    | Potent | No | No |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 1                              | 15 | 0  | 0  | Less                    | Potent | No | No |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 2                              | 46 | 0  | 0  | Less                    | Potent | No | No |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 1                              | 15 | 0  | 0  | Less                    | Potent | No | No |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 1                              | 23 | 0  | 0  | Less                    | Potent | No | No |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant



Drum: Appendix Table-45 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Eel River, Soda Creek to Cape Horn Dam  
 Location: Iode 805-810  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |
|------------|------------|--------------------------|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|
|            |            | Oct                      |     |    |    | Nov |     |    |    | Dec |     |    |    | Jan |     |    |    | Feb |     |    |    | Mar |     |    |    |     |     |    |    |
|            |            | NP                       | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST |     |     |    |    |
| 1975       | Wet        | ND                       | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | 102 | 80  | ND | ND | 100 | 103 | ND | ND | 100 | 100 | ND | ND |
| 1976       | Critical   | 100                      | 57  | ND | ND | 100 | 64  | ND | ND | 100 | 108 | ND | ND | 100 | 159 | ND | ND | 100 | 85  | ND | ND | 100 | 85  | ND | ND | 100 | 75  | ND | ND |
| 1977       | Critical   | 100                      | 100 | ND | ND | 100 | 80  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1978       | above Norm | 100                      | 100 | ND | ND | 100 | 512 | ND | ND | 100 | 85  | ND | ND | 100 | 98  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1979       | below Norm | 100                      | 56  | ND | ND | 100 | 51  | ND | ND | 100 | 100 | ND | ND | 102 | 102 | ND | ND | 99  | 129 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1980       | above Norm | 99                       | 79  | ND | ND | 99  | 98  | ND | ND | 89  | 88  | ND | ND | 98  | 96  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1981       | Dry        | 100                      | 90  | ND | ND | 96  | 60  | ND | ND | 103 | 43  | ND | ND | 100 | 134 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1982       | Wet        | 100                      | 277 | ND | ND | 100 | 87  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1983       | Wet        | 100                      | 110 | ND | ND | 100 | 55  | ND | ND | 100 | 94  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1984       | Wet        | 100                      | 211 | ND | ND | 100 | 73  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1985       | Dry        | 100                      | 205 | ND | ND | 100 | 56  | ND | ND | 100 | 100 | ND | ND | 102 | 102 | ND | ND | 98  | 98  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1986       | Wet        | 82                       | 157 | ND | ND | 103 | 46  | ND | ND | 102 | 67  | ND | ND | 100 | 125 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1987       | Dry        | 100                      | 73  | ND | ND | 100 | 32  | ND | ND | 100 | 81  | ND | ND | 102 | 106 | ND | ND | 102 | 112 | ND | ND | 99  | 102 | ND | ND | 99  | 102 | ND | ND |
| 1988       | Critical   | 100                      | 254 | ND | ND | 100 | 212 | ND | ND | 100 | 73  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 59  | ND | ND | 100 | 59  | ND | ND |
| 1989       | Dry        | 96                       | 74  | ND | ND | 103 | 50  | ND | ND | 100 | 78  | ND | ND | 102 | 89  | ND | ND | 97  | 113 | ND | ND | 100 | 108 | ND | ND | 100 | 108 | ND | ND |
| 1990       | Critical   | 100                      | 31  | ND | ND | 100 | 54  | ND | ND | 100 | 100 | ND | ND | 102 | 86  | ND | ND | 102 | 126 | ND | ND | 102 | 144 | ND | ND | 102 | 144 | ND | ND |
| 1991       | Critical   | 100                      | 87  | ND | ND | 100 | 63  | ND | ND | 100 | 136 | ND | ND | 100 | 177 | ND | ND | 100 | 505 | ND | ND | 100 | 79  | ND | ND | 100 | 79  | ND | ND |
| 1992       | Critical   | 100                      | 78  | ND | ND | 100 | 48  | ND | ND | 100 | 58  | ND | ND | 102 | 104 | ND | ND | 99  | 105 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1993       | above Norm | 100                      | 266 | ND | ND | 100 | 67  | ND | ND | 100 | 63  | ND | ND | 100 | 99  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1994       | Critical   | 100                      | 126 | ND | ND | 96  | 80  | ND | ND | 103 | 56  | ND | ND | 102 | 107 | ND | ND | 102 | 81  | ND | ND | 92  | 186 | ND | ND | 92  | 186 | ND | ND |
| 1995       | Wet        | 100                      | 277 | ND | ND | 97  | 47  | ND | ND | 103 | 37  | ND | ND | 100 | 101 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1996       | Wet        | 100                      | 123 | ND | ND | 100 | 194 | ND | ND | 100 | 90  | ND | ND | 100 | 95  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1997       | Wet        | 95                       | 103 | ND | ND | 103 | 92  | ND | ND | 100 | 70  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 95  | ND | ND | 100 | 95  | ND | ND |
| 1998       | Wet        | 68                       | 86  | ND | ND | 104 | 54  | ND | ND | 104 | 91  | ND | ND | 101 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1999       | Wet        | 95                       | 95  | ND | ND | 103 | 81  | ND | ND | 102 | 84  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND |

| Water Year | Water Type | Percentage of Baseline |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |
|------------|------------|------------------------|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|
|            |            | Apr                    |     |    |    | May |     |    |    | Jun |     |    |    | Jul |     |    |    | Aug |     |    |    | Sep |     |    |    |     |     |    |    |
|            |            | NP                     | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST |
| 1975       | Wet        | 100                    | 76  | ND | ND | 100 | 159 | ND | ND | 100 | 62  | ND | ND | 100 | 90  | ND | ND | 100 | 105 | ND | ND | 100 | 178 | ND | ND | 100 | 178 | ND | ND |
| 1976       | Critical   | 100                    | 164 | ND | ND | 100 | 176 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 126 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1977       | Critical   | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 149 | ND | ND | 100 | 154 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1978       | above Norm | 100                    | 77  | ND | ND | 100 | 243 | ND | ND | 100 | 64  | ND | ND | 100 | 62  | ND | ND | 100 | 109 | ND | ND | 100 | 134 | ND | ND | 100 | 134 | ND | ND |
| 1979       | below Norm | 100                    | 89  | ND | ND | 100 | 126 | ND | ND | 100 | 84  | ND | ND | 100 | 186 | ND | ND | 193 | 209 | ND | ND | 102 | 98  | ND | ND | 102 | 98  | ND | ND |
| 1980       | above Norm | 100                    | 66  | ND | ND | 100 | 216 | ND | ND | 100 | 100 | ND | ND | 100 | 105 | ND | ND | 100 | 127 | ND | ND | 100 | 178 | ND | ND | 100 | 178 | ND | ND |
| 1981       | Dry        | 100                    | 70  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 165 | ND | ND | 100 | 243 | ND | ND | 100 | 264 | ND | ND | 100 | 264 | ND | ND |
| 1982       | Wet        | 100                    | 93  | ND | ND | 100 | 175 | ND | ND | 100 | 111 | ND | ND | 100 | 129 | ND | ND | 100 | 176 | ND | ND | 100 | 298 | ND | ND | 100 | 298 | ND | ND |
| 1983       | Wet        | 100                    | 88  | ND | ND | 100 | 121 | ND | ND | 100 | 80  | ND | ND | 100 | 112 | ND | ND | 100 | 141 | ND | ND | 100 | 311 | ND | ND | 100 | 311 | ND | ND |
| 1984       | Wet        | 100                    | 66  | ND | ND | 100 | 215 | ND | ND | 100 | 100 | ND | ND | 100 | 130 | ND | ND | 100 | 243 | ND | ND | 100 | 178 | ND | ND | 100 | 178 | ND | ND |
| 1985       | Dry        | 100                    | 68  | ND | ND | 100 | 149 | ND | ND | 100 | 100 | ND | ND | 100 | 121 | ND | ND | 100 | 127 | ND | ND | 100 | 178 | ND | ND | 100 | 178 | ND | ND |
| 1986       | Wet        | 100                    | 77  | ND | ND | 100 | 156 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1987       | Dry        | 100                    | 82  | ND | ND | 100 | 100 | ND | ND | 100 | 136 | ND | ND | 100 | 121 | ND | ND | 100 | 127 | ND | ND | 100 | 178 | ND | ND | 100 | 178 | ND | ND |
| 1988       | Critical   | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 136 | ND | ND | 100 | 121 | ND | ND | 100 | 127 | ND | ND | 100 | 178 | ND | ND | 100 | 178 | ND | ND |
| 1989       | Dry        | 100                    | 81  | ND | ND | 100 | 159 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 127 | ND | ND | 100 | 119 | ND | ND | 100 | 119 | ND | ND |
| 1990       | Critical   | 100                    | 228 | ND | ND | 87  | 106 | ND | ND | 99  | 40  | ND | ND | 100 | 90  | ND | ND | 100 | 103 | ND | ND | 100 | 186 | ND | ND | 100 | 186 | ND | ND |
| 1991       | Critical   | 100                    | 58  | ND | ND | 100 | 380 | ND | ND | 100 | 100 | ND | ND | 100 | 117 | ND | ND | 100 | 111 | ND | ND | 100 | 215 | ND | ND | 100 | 215 | ND | ND |
| 1992       | Critical   | 100                    | 70  | ND | ND | 100 | 100 | ND | ND | 100 | 136 | ND | ND | 100 | 225 | ND | ND | 100 | 158 | ND | ND | 100 | 178 | ND | ND | 100 | 178 | ND | ND |
| 1993       | above Norm | 100                    | 70  | ND | ND | 100 | 176 | ND | ND | 100 | 83  | ND | ND | 100 | 86  | ND | ND | 100 | 94  | ND | ND | 100 | 178 | ND | ND | 100 | 178 | ND | ND |
| 1994       | Critical   | 100                    | 117 | ND | ND | 100 | 100 | ND | ND | 100 | 140 | ND | ND | 100 | 160 | ND | ND | 100 | 180 | ND | ND | 100 | 215 | ND | ND | 100 | 215 | ND | ND |
| 1995       | Wet        | 100                    | 84  | ND | ND | 100 | 124 | ND | ND | 100 | 77  | ND | ND | 100 | 69  | ND | ND | 100 | 183 | ND | ND | 100 | 280 | ND | ND | 100 | 280 | ND | ND |
| 1996       | Wet        | 100                    | 67  | ND | ND | 100 | 144 | ND | ND | 100 | 66  | ND | ND | 100 | 158 | ND | ND | 100 | 206 | ND | ND | 100 | 268 | ND | ND | 100 | 268 | ND | ND |
| 1997       | Wet        | 100                    | 78  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 121 | ND | ND | 100 | 243 | ND | ND | 100 | 178 | ND | ND | 100 | 178 | ND | ND |
| 1998       | Wet        | 100                    | 79  | ND | ND | 100 | 120 | ND | ND | 100 | 88  | ND | ND | 100 | 109 | ND | ND | 100 | 188 | ND | ND | 100 | 329 | ND | ND | 100 | 329 | ND | ND |
| 1999       | Wet        | ND                     | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Drum: Appendix Table-46 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Drum: Eel River, Soda Creek to Cape Horn Dam  
 Location: Node 805-810  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1976       | Critical   | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND |
| 1977       | Critical   | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1978       | above Norm | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1979       | below Norm | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1980       | above Norm | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1981       | Dry        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1982       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1983       | Wet        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1984       | Wet        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1985       | Dry        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1986       | Wet        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1987       | Dry        | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1988       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND |
| 1989       | Dry        | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1990       | Critical   | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1991       | Critical   | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND |
| 1992       | Critical   | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1993       | above Norm | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1994       | Critical   | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1995       | Wet        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1996       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1997       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1998       | Wet        | 1                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1999       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |

Total Number of Events: 1 7 - - - 17 - - - 9 - - - - - - - - - 3 - - -

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1976       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1977       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1978       | above Norm | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1979       | below Norm | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1980       | above Norm | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1981       | Dry        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1982       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1983       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1984       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1985       | Dry        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1986       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1987       | Dry        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1988       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1989       | Dry        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1990       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1991       | Critical   | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1992       | Critical   | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1993       | above Norm | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1994       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1995       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1996       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1997       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1998       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1999       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |

Total Number of Events: - 13 - - - - - 6 - - - - 2 - - - - - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |    |    |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|----|----|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS | ST |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 1                              | 33 | 0  | 0  | Less                    | Potent | No | No |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 3  | 0  | 0  | No                      | Less   | No | No |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 0                              | 22 | 0  | 0  | No                      | Potent | No | No |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 1                              | 15 | 0  | 0  | Less                    | Potent | No | No |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 1                              | 45 | 0  | 0  | Less                    | Potent | No | No |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 0                              | 13 | 0  | 0  | No                      | Potent | No | No |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 1                              | 24 | 0  | 0  | Less                    | Potent | No | No |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Drum: Appendix Table-47 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: Eel River below Cape Horn Dam  
 Location: Code 810-999  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |
|------------|------------|--------------------------|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|
|            |            | Oct                      |     |    |    | Nov |     |    |    | Dec |     |    |    | Jan |     |    |    | Feb |     |    |    | Mar |     |    |    |
|            |            | NP                       | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST |
| 1975       | Wet        | ND                       | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | 110 | 6   | ND | ND | 100 | 104 | ND | ND | 100 | 100 | ND | ND |
| 1976       | Critical   | 100                      | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 35  | ND | ND | 100 | 100 | ND | ND |
| 1977       | Critical   | 100                      | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1978       | above Norm | 100                      | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 71  | ND | ND | 100 | 98  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1979       | below Norm | 100                      | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 98  | 143 | ND | ND | 100 | 100 | ND | ND |
| 1980       | above Norm | 90                       | 16  | ND | ND | 97  | 91  | ND | ND | 78  | 75  | ND | ND | 98  | 96  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1981       | Dry        | 100                      | 100 | ND | ND | 100 | 100 | ND | ND | 120 | 76  | ND | ND | 100 | 170 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1982       | Wet        | 100                      | 100 | ND | ND | 100 | 86  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1983       | Wet        | 100                      | 100 | ND | ND | 100 | 15  | ND | ND | 100 | 93  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1984       | Wet        | 100                      | 100 | ND | ND | 100 | 66  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1985       | Dry        | 100                      | 100 | ND | ND | 100 | 39  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 96  | 96  | ND | ND | 100 | 100 | ND | ND |
| 1986       | Wet        | 100                      | 100 | ND | ND | 119 | 9   | ND | ND | 100 | 100 | ND | ND | 100 | 140 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1987       | Dry        | 100                      | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 104 | 130 | ND | ND | 99  | 102 | ND | ND |
| 1988       | Critical   | 100                      | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 58  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1989       | Dry        | 100                      | 100 | ND | ND | 132 | 16  | ND | ND | 100 | 100 | ND | ND | 107 | 61  | ND | ND | 100 | 100 | ND | ND | 100 | 110 | ND | ND |
| 1990       | Critical   | 100                      | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 107 | 46  | ND | ND | 108 | 200 | ND | ND | 105 | 282 | ND | ND |
| 1991       | Critical   | 100                      | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 70  | ND | ND |
| 1992       | Critical   | 100                      | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 99  | 107 | ND | ND | 100 | 100 | ND | ND |
| 1993       | above Norm | 100                      | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 38  | ND | ND | 100 | 98  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1994       | Critical   | 100                      | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 105 | 47  | ND | ND | 100 | 100 | ND | ND |
| 1995       | Wet        | 100                      | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 102 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1996       | Wet        | 100                      | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 46  | ND | ND | 100 | 95  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1997       | Wet        | 100                      | 100 | ND | ND | 131 | 16  | ND | ND | 100 | 90  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 87  | ND | ND |
| 1998       | Wet        | 100                      | 100 | ND | ND | 382 | 100 | ND | ND | 100 | 100 | ND | ND | 101 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1999       | Wet        | 100                      | 100 | ND | ND | 113 | 6   | ND | ND | 31  | 10  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND |

| Water Year | Water Type | Percentage of Baseline |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |
|------------|------------|------------------------|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|
|            |            | Apr                    |     |    |    | May |     |    |    | Jun |     |    |    | Jul |     |    |    | Aug |     |    |    | Sep |     |    |    |
|            |            | NP                     | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST |
| 1975       | Wet        | 100                    | 65  | ND | ND | 100 | 343 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1976       | Critical   | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1977       | Critical   | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1978       | above Norm | 100                    | 68  | ND | ND | 100 | 424 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1979       | below Norm | 100                    | 67  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 108 | 100 | ND | ND |
| 1980       | above Norm | 100                    | 32  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1981       | Dry        | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1982       | Wet        | 100                    | 93  | ND | ND | 100 | OTP | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1983       | Wet        | 100                    | 86  | ND | ND | 100 | 129 | ND | ND | 100 | 31  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1984       | Wet        | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1985       | Dry        | 100                    | 65  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1986       | Wet        | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1987       | Dry        | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1988       | Critical   | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1989       | Dry        | 100                    | 64  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1990       | Critical   | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 98  | 4   | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1991       | Critical   | 100                    | 11  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1992       | Critical   | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1993       | above Norm | 100                    | 51  | ND | ND | 100 | OTP | ND | ND | 100 | 57  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1994       | Critical   | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1995       | Wet        | 100                    | 80  | ND | ND | 100 | 134 | ND | ND | 100 | 6   | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1996       | Wet        | 100                    | 44  | ND | ND | 100 | 201 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1997       | Wet        | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1998       | Wet        | 100                    | 71  | ND | ND | 100 | 127 | ND | ND | 100 | 79  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1999       | Wet        | ND                     | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Drum: Appendix Table-49 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Drum: East Branch Russian River below PVPH  
 Location: Iode 820-999  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Type | Percentage of Baseline A |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |
|------------|------------|--------------------------|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|
|            |            | Oct                      |     |    |    | Nov |     |    |    | Dec |     |    |    | Jan |     |    |    | Feb |     |    |    | Mar |     |    |    |
|            |            | NP                       | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST |
| 1975       | Wet        | ND                       | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND |    |
| 1976       | Critical   | 100                      | 56  | ND | ND | 100 | 56  | ND | ND | 100 | 112 | ND | ND | 100 | 160 | ND | ND | 100 | 100 | ND | ND | 100 | 72  | ND | ND |
| 1977       | Critical   | 100                      | 100 | ND | ND | 100 | 78  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1978       | above Norm | 100                      | 100 | ND | ND | 100 | 566 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1979       | below Norm | 100                      | 54  | ND | ND | 100 | 49  | ND | ND | 100 | 100 | ND | ND | 103 | 103 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1980       | above Norm | 100                      | 85  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1981       | Dry        | 100                      | 90  | ND | ND | 96  | 60  | ND | ND | 100 | 39  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1982       | Wet        | 100                      | 293 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1983       | Wet        | 100                      | 110 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1984       | Wet        | 100                      | 215 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1985       | Dry        | 100                      | 208 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 103 | 103 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1986       | Wet        | 81                       | 159 | ND | ND | 100 | 52  | ND | ND | 103 | 56  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1987       | Dry        | 100                      | 72  | ND | ND | 100 | 31  | ND | ND | 100 | 80  | ND | ND | 103 | 108 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1988       | Critical   | 100                      | 266 | ND | ND | 100 | 220 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 31  | ND | ND |
| 1989       | Dry        | 96                       | 73  | ND | ND | 100 | 53  | ND | ND | 100 | 66  | ND | ND | 100 | 100 | ND | ND | 97  | 117 | ND | ND | 100 | 100 | ND | ND |
| 1990       | Critical   | 100                      | 30  | ND | ND | 100 | 33  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 101 | 101 | ND | ND |
| 1991       | Critical   | 100                      | 87  | ND | ND | 100 | 62  | ND | ND | 100 | 138 | ND | ND | 100 | 230 | ND | ND | 100 | 560 | ND | ND | 100 | 100 | ND | ND |
| 1992       | Critical   | 100                      | 77  | ND | ND | 100 | 47  | ND | ND | 100 | 56  | ND | ND | 103 | 106 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1993       | above Norm | 100                      | 280 | ND | ND | 100 | 66  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1994       | Critical   | 100                      | 127 | ND | ND | 96  | 79  | ND | ND | 103 | 51  | ND | ND | 103 | 110 | ND | ND | 100 | 100 | ND | ND | 83  | 272 | ND | ND |
| 1995       | Wet        | 100                      | 293 | ND | ND | 97  | 46  | ND | ND | 103 | 27  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1996       | Wet        | 100                      | 124 | ND | ND | 100 | 196 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1997       | Wet        | 95                       | 103 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1998       | Wet        | 67                       | 86  | ND | ND | 100 | 53  | ND | ND | 104 | 91  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1999       | Wet        | 95                       | 95  | ND | ND | 100 | 100 | ND | ND | 609 | 609 | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND |

| Water Year | Water Type | Percentage of Baseline |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |     |     |    |    |
|------------|------------|------------------------|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|
|            |            | Apr                    |     |    |    | May |     |    |    | Jun |     |    |    | Jul |     |    |    | Aug |     |    |    | Sep |     |    |    |
|            |            | NP                     | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST | NP  | PM  | WM | ST |
| 1975       | Wet        | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 62  | ND | ND | 100 | 90  | ND | ND | 100 | 105 | ND | ND | 100 | 182 | ND | ND |
| 1976       | Critical   | 100                    | 181 | ND | ND | 100 | 187 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 127 | ND | ND | 100 | 100 | ND | ND |
| 1977       | Critical   | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 152 | ND | ND | 100 | 157 | ND | ND | 100 | 100 | ND | ND |
| 1978       | above Norm | 100                    | 100 | ND | ND | 100 | 213 | ND | ND | 100 | 64  | ND | ND | 100 | 62  | ND | ND | 100 | 110 | ND | ND | 100 | 136 | ND | ND |
| 1979       | below Norm | 100                    | 100 | ND | ND | 100 | 128 | ND | ND | 100 | 84  | ND | ND | 100 | 189 | ND | ND | 196 | 213 | ND | ND | 102 | 98  | ND | ND |
| 1980       | above Norm | 100                    | 100 | ND | ND | 100 | 238 | ND | ND | 100 | 100 | ND | ND | 100 | 105 | ND | ND | 100 | 128 | ND | ND | 100 | 182 | ND | ND |
| 1981       | Dry        | 100                    | 51  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 167 | ND | ND | 100 | 249 | ND | ND | 100 | 273 | ND | ND |
| 1982       | Wet        | 100                    | 100 | ND | ND | 100 | 103 | ND | ND | 100 | 111 | ND | ND | 100 | 130 | ND | ND | 100 | 179 | ND | ND | 100 | 307 | ND | ND |
| 1983       | Wet        | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 112 | ND | ND | 100 | 142 | ND | ND | 100 | 323 | ND | ND |
| 1984       | Wet        | 100                    | 55  | ND | ND | 100 | 242 | ND | ND | 100 | 100 | ND | ND | 100 | 131 | ND | ND | 100 | 249 | ND | ND | 100 | 182 | ND | ND |
| 1985       | Dry        | 100                    | 69  | ND | ND | 100 | 161 | ND | ND | 100 | 100 | ND | ND | 100 | 122 | ND | ND | 100 | 128 | ND | ND | 100 | 182 | ND | ND |
| 1986       | Wet        | 100                    | 68  | ND | ND | 100 | 170 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND |
| 1987       | Dry        | 100                    | 58  | ND | ND | 100 | 100 | ND | ND | 100 | 137 | ND | ND | 100 | 122 | ND | ND | 100 | 128 | ND | ND | 100 | 182 | ND | ND |
| 1988       | Critical   | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 137 | ND | ND | 100 | 122 | ND | ND | 100 | 128 | ND | ND | 100 | 182 | ND | ND |
| 1989       | Dry        | 100                    | 89  | ND | ND | 100 | 174 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 128 | ND | ND | 100 | 120 | ND | ND |
| 1990       | Critical   | 100                    | 517 | ND | ND | 86  | 106 | ND | ND | 100 | 55  | ND | ND | 100 | 90  | ND | ND | 100 | 103 | ND | ND | 100 | 191 | ND | ND |
| 1991       | Critical   | 100                    | 100 | ND | ND | 100 | 422 | ND | ND | 100 | 100 | ND | ND | 100 | 117 | ND | ND | 100 | 111 | ND | ND | 100 | 222 | ND | ND |
| 1992       | Critical   | 100                    | 58  | ND | ND | 100 | 100 | ND | ND | 100 | 137 | ND | ND | 100 | 230 | ND | ND | 100 | 160 | ND | ND | 100 | 182 | ND | ND |
| 1993       | above Norm | 100                    | 100 | ND | ND | 100 | 105 | ND | ND | 100 | 100 | ND | ND | 100 | 86  | ND | ND | 100 | 94  | ND | ND | 100 | 182 | ND | ND |
| 1994       | Critical   | 100                    | 126 | ND | ND | 100 | 100 | ND | ND | 100 | 142 | ND | ND | 100 | 163 | ND | ND | 100 | 184 | ND | ND | 100 | 222 | ND | ND |
| 1995       | Wet        | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 94  | ND | ND | 100 | 69  | ND | ND | 100 | 186 | ND | ND | 100 | 289 | ND | ND |
| 1996       | Wet        | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 66  | ND | ND | 100 | 160 | ND | ND | 100 | 209 | ND | ND | 100 | 276 | ND | ND |
| 1997       | Wet        | 100                    | 60  | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 122 | ND | ND | 100 | 249 | ND | ND | 100 | 182 | ND | ND |
| 1998       | Wet        | 100                    | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 100 | ND | ND | 100 | 110 | ND | ND | 100 | 191 | ND | ND | 100 | 341 | ND | ND |
| 1999       | Wet        | ND                     | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND | ND  | ND  | ND | ND |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Drum: Appendix Table-50 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Drum: East Branch Russian River below PVPH  
 Location: Node 820-999  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical   | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1977       | Critical   | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1978       | above Norm | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1979       | below Norm | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1980       | above Norm | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1981       | Dry        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1982       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1983       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1984       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1985       | Dry        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1986       | Wet        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1987       | Dry        | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1988       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND |
| 1989       | Dry        | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1990       | Critical   | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1991       | Critical   | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1992       | Critical   | -                        | 1  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1993       | above Norm | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1994       | Critical   | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1995       | Wet        | -                        | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1996       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1997       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1998       | Wet        | 1                        | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1999       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |

Total Number of Events: 1 6 - - - 14 - - - 6 - - - - - - - - - 2 - - -

| Water Year | Water Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |            | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |            | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1976       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1977       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1978       | above Norm | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1979       | below Norm | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1980       | above Norm | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1981       | Dry        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1982       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1983       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1984       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1985       | Dry        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1986       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1987       | Dry        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1988       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1989       | Dry        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1990       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1991       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1992       | Critical   | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1993       | above Norm | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1994       | Critical   | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1995       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1996       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1997       | Wet        | -                        | 1  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1998       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |
| 1999       | Wet        | -                        | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND | -   | -  | ND | ND |

Total Number of Events: - 7 - - - - - 4 - - - 2 - - - - - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |    |    |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|----|----|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS | ST |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 1                              | 26 | 0  | 0  | Less                    | Potent | No | No |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 2  | 0  | 0  | No                      | Less   | No | No |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 0                              | 13 | 0  | 0  | No                      | Potent | No | No |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 1                              | 12 | 0  | 0  | Less                    | Less   | No | No |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 1                              | 33 | 0  | 0  | Less                    | Potent | No | No |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 0                              | 7  | 0  | 0  | No                      | Potent | No | No |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 1                              | 20 | 0  | 0  | Less                    | Potent | No | No |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Drum: Appendix Table-51 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: MF Yuba River: Jackson Meadows  
 Location: Node 098  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Type | Cumulative Storage (May-October) A |       |       |       |       | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|------------|------------------------------------|-------|-------|-------|-------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |            | BL2000                             | NP    | PM    | WM    | ST    | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST  |
| 1975       | Wet        | 358.8                              | 358.8 | 396.6 | 358.8 | 367.2 | 100.0%                 | >100%  | 100.0% | >100%  | No                      | No  | No  | No  |
| 1976       | Critical   | 242.7                              | 175.3 | 205.2 | 205.5 | 181.9 | 72.2%                  | 84.5%  | 84.7%  | 74.9%  | SIG                     | LTS | LTS | SIG |
| 1977       | Critical   | 117.7                              | 123.1 | 121.7 | 58.6  | 122.2 | >100%                  | >100%  | 49.8%  | >100%  | No                      | No  | SIG | No  |
| 1978       | above Norm | 386.7                              | 386.7 | 410.6 | 410.6 | 404.6 | 100.0%                 | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1979       | below Norm | 385                                | 385   | 385   | 385   | 371   | 100.0%                 | 100.0% | 100.0% | 96.4%  | No                      | No  | No  | LTS |
| 1980       | above Norm | 388                                | 383.7 | 399   | 383.7 | 401.6 | 98.9%                  | >100%  | 98.9%  | >100%  | LTS                     | No  | LTS | No  |
| 1981       | Dry        | 154.3                              | 213.1 | 210.3 | 199.9 | 169.1 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1982       | Wet        | 331.9                              | 324.4 | 340.6 | 351.4 | 331.9 | 97.7%                  | >100%  | >100%  | 100.0% | LTS                     | No  | No  | No  |
| 1983       | Wet        | 365.4                              | 363.6 | 335.4 | 360.3 | 363.8 | 99.5%                  | 91.8%  | 98.6%  | 99.6%  | LTS                     | LTS | LTS | LTS |
| 1984       | Wet        | 371.1                              | 373.7 | 389.9 | 356.8 | 377.5 | >100%                  | >100%  | 96.1%  | >100%  | No                      | No  | LTS | No  |
| 1985       | Dry        | 377.4                              | 377.4 | 382.6 | 394.6 | 382.6 | 100.0%                 | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1986       | Wet        | 409.7                              | 389.7 | 403.5 | 406   | 403.5 | 95.1%                  | 98.5%  | 99.1%  | 98.5%  | LTS                     | LTS | LTS | LTS |
| 1987       | Dry        | 204.2                              | 171.4 | 188.6 | 151.9 | 168.4 | 83.9%                  | 92.4%  | 74.4%  | 82.5%  | LTS                     | LTS | SIG | LTS |
| 1988       | Critical   | 183.9                              | 150.8 | 171.4 | 140.9 | 153.4 | 82.0%                  | 93.2%  | 76.6%  | 83.4%  | LTS                     | LTS | SIG | LTS |
| 1989       | Dry        | 384.7                              | 379.9 | 393.2 | 379.1 | 393.7 | 98.8%                  | >100%  | 98.5%  | >100%  | LTS                     | No  | LTS | No  |
| 1990       | Critical   | 376.3                              | 382.6 | 397.2 | 376.3 | 376.3 | >100%                  | >100%  | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1991       | Critical   | 380                                | 380   | 380   | 395.7 | 395.7 | 100.0%                 | 100.0% | >100%  | >100%  | No                      | No  | No  | No  |
| 1992       | Critical   | 191.3                              | 239.3 | 218.4 | 188.5 | 239.3 | >100%                  | >100%  | 98.5%  | >100%  | No                      | No  | LTS | No  |
| 1993       | above Norm | 332.7                              | 322.7 | 348.3 | 338.3 | 333.6 | 97.0%                  | >100%  | >100%  | >100%  | LTS                     | No  | No  | No  |
| 1994       | Critical   | 291.4                              | 224.7 | 248.6 | 204.5 | 256.6 | 77.1%                  | 85.3%  | 70.2%  | 88.1%  | SIG                     | LTS | SIG | LTS |
| 1995       | Wet        | 385.6                              | 385.6 | 386.9 | 385.6 | 402.1 | 100.0%                 | >100%  | 100.0% | >100%  | No                      | No  | No  | No  |
| 1996       | Wet        | 385.4                              | 385.4 | 385.4 | 385.4 | 406.4 | 100.0%                 | 100.0% | 100.0% | >100%  | No                      | No  | No  | No  |
| 1997       | Wet        | 329.9                              | 331.8 | 329.9 | 316.6 | 316.6 | >100%                  | 100.0% | 96.0%  | 96.0%  | No                      | No  | LTS | LTS |
| 1998       | Wet        | 376.3                              | 402.1 | 384.7 | 376.3 | 376.4 | >100%                  | >100%  | 100.0% | >100%  | No                      | No  | No  | No  |

Footnote:

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Drum: Appendix Table-52 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: MF Yuba River: Jackson Meadows  
 Location: Node 098  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 30                                                       | 4    | 19  | 4    | 30  | 4    | 19  | 4    | 30  | 4    |
| 1976       | Critical   | -11                                                      | 1    | 12  | 1    | 12  | -8   | 12  | 1    | 12  | 1    |
| 1977       | Critical   | 5                                                        | 3    | 5   | 3    | 5   | 3    | 8   | 5    | 5   | 3    |
| 1978       | bove Norm  | 36                                                       | 4    | 36  | 4    | 35  | 4    | 35  | 4    | 35  | 4    |
| 1979       | elow Norm  | 11                                                       | 4    | 11  | 4    | 11  | 4    | 11  | 4    | 30  | 4    |
| 1980       | bove Norm  | 10                                                       | 4    | 7   | 4    | 10  | 4    | 10  | 4    | 10  | 4    |
| 1981       | Dry        | 12                                                       | 2    | -13 | 2    | 16  | 2    | -12 | 2    | 16  | 2    |
| 1982       | Wet        | 17                                                       | 4    | 17  | 4    | 18  | 4    | 46  | 4    | 17  | 4    |
| 1983       | Wet        | 12                                                       | 4    | 13  | 4    | 38  | 4    | 15  | 4    | 15  | 4    |
| 1984       | Wet        | 19                                                       | 4    | 6   | 4    | 30  | 4    | 18  | 4    | 18  | 4    |
| 1985       | Dry        | 18                                                       | 3    | 5   | 3    | 18  | 3    | 5   | 3    | 18  | 3    |
| 1986       | Wet        | -4                                                       | 4    | -4  | 4    | -4  | 4    | -4  | 4    | -4  | 4    |
| 1987       | Dry        | -17                                                      | 1    | -17 | 1    | 7   | 1    | -17 | 1    | 10  | 1    |
| 1988       | Critical   | 12                                                       | 4    | 12  | 4    | 12  | 4    | 12  | 4    | 12  | 4    |
| 1989       | Dry        | 8                                                        | 3    | 8   | 3    | 23  | 4    | 8   | 4    | 23  | 3    |
| 1990       | Critical   | 11                                                       | -3   | 11  | 3    | -4  | 4    | 11  | -3   | -4  | -3   |
| 1991       | Critical   | 20                                                       | 4    | 20  | 4    | 20  | 4    | 12  | 4    | 12  | 4    |
| 1992       | Critical   | -17                                                      | 2    | -17 | 2    | 1   | 2    | -16 | 2    | 10  | 2    |
| 1993       | bove Norm  | 23                                                       | 4    | 23  | 4    | 56  | 4    | 23  | 4    | 56  | 4    |
| 1994       | Critical   | -4                                                       | 1    | -4  | 1    | 1   | 1    | -4  | 0    | 1   | 1    |
| 1995       | Wet        | 20                                                       | 4    | 41  | 4    | 41  | 4    | 20  | 4    | 20  | 4    |
| 1996       | Wet        | 10                                                       | 4    | 10  | 4    | 5   | 4    | 10  | 4    | 5   | 4    |
| 1997       | Wet        | -2                                                       | 4    | -2  | 4    | -2  | 4    | -2  | 4    | -2  | 4    |
| 1998       | Wet        | 16                                                       | 4    | 16  | 4    | 18  | 4    | 5   | 4    | 7   | 4    |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data



Drum : Appendix Table-53 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: Canyon Creek: Bowman Lake  
 Location: Node 147  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A |       |       |       |       | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|-----------------|------------------------------------|-------|-------|-------|-------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |                 | Thousands of Acre-feet             |       |       |       |       | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST  |
|            |                 | BL2000                             | NP    | PM    | WM    | ST    |                        |        |        |        |                         |     |     |     |
| 1975       | Wet             | 387.8                              | 387.8 | 350   | 387.8 | 379.4 | 100.0%                 | 90.3%  | 100.0% | 97.8%  | No                      | LTS | No  | LTS |
| 1976       | Critical        | 272                                | 339.5 | 347.2 | 293.6 | 332.8 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1977       | Critical        | 70.1                               | 65.1  | 70.8  | 55.5  | 65.9  | 92.9%                  | >100%  | 79.2%  | 94.0%  | LTS                     | No  | SIG | LTS |
| 1978       | bove Norm       | 396                                | 396   | 372.1 | 372.1 | 378.1 | 100.0%                 | 94.0%  | 94.0%  | 95.5%  | No                      | LTS | LTS | LTS |
| 1979       | elow Norm       | 376.1                              | 376.1 | 376.1 | 376.1 | 390.1 | 100.0%                 | 100.0% | 100.0% | >100%  | No                      | No  | No  | No  |
| 1980       | bove Norm       | 391.7                              | 396   | 380.7 | 396   | 378.1 | >100%                  | 97.2%  | >100%  | 96.5%  | No                      | LTS | No  | LTS |
| 1981       | Dry             | 300.6                              | 229.1 | 232.1 | 242.5 | 273.2 | 76.2%                  | 77.2%  | 80.7%  | 90.9%  | SIG                     | SIG | LTS | LTS |
| 1982       | Wet             | 384.4                              | 391.9 | 375.7 | 365   | 384.4 | >100%                  | 97.7%  | 95.0%  | 100.0% | No                      | LTS | LTS | No  |
| 1983       | Wet             | 379.7                              | 381.5 | 384.8 | 384.8 | 381.3 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1984       | Wet             | 377.8                              | 375.2 | 359   | 392.1 | 371.4 | 99.3%                  | 95.0%  | >100%  | 98.3%  | LTS                     | LTS | No  | LTS |
| 1985       | Dry             | 387.2                              | 387.2 | 382   | 370   | 382   | 100.0%                 | 98.7%  | 95.6%  | 98.7%  | No                      | LTS | LTS | LTS |
| 1986       | Wet             | 374.3                              | 394.3 | 380.5 | 378   | 380.5 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1987       | Dry             | 282.9                              | 313.5 | 296   | 330.4 | 316.5 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1988       | Critical        | 83.3                               | 118   | 102.7 | 116.9 | 115.4 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1989       | Dry             | 375.9                              | 375.9 | 362.5 | 376.7 | 362.2 | 100.0%                 | 96.4%  | >100%  | 96.4%  | No                      | LTS | No  | LTS |
| 1990       | Critical        | 377.1                              | 370.9 | 356.2 | 370.6 | 377.1 | 98.4%                  | 94.5%  | 98.3%  | 100.0% | LTS                     | LTS | LTS | No  |
| 1991       | Critical        | 396                                | 396   | 396   | 380.3 | 380.3 | 100.0%                 | 100.0% | 96.0%  | 96.0%  | No                      | No  | LTS | LTS |
| 1992       | Critical        | 333.6                              | 287.7 | 308.6 | 333.2 | 286   | 86.2%                  | 92.5%  | 99.9%  | 85.7%  | LTS                     | LTS | LTS | LTS |
| 1993       | bove Norm       | 385.9                              | 396   | 370.3 | 380.4 | 385.1 | >100%                  | 96.0%  | 98.6%  | 99.8%  | No                      | LTS | LTS | LTS |
| 1994       | Critical        | 181.3                              | 276.1 | 255.3 | 293.5 | 228.7 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1995       | Wet             | 382                                | 382   | 380.7 | 382   | 365.6 | 100.0%                 | 99.7%  | 100.0% | 95.7%  | No                      | LTS | No  | LTS |
| 1996       | Wet             | 382                                | 382   | 382   | 382   | 361.1 | 100.0%                 | 100.0% | 100.0% | 94.5%  | No                      | No  | No  | LTS |
| 1997       | Wet             | 363                                | 361.1 | 363   | 376.3 | 376.3 | 99.5%                  | 100.0% | >100%  | >100%  | LTS                     | No  | No  | No  |
| 1998       | Wet             | 396                                | 370.2 | 387.6 | 396   | 395.9 | 93.5%                  | 97.9%  | 100.0% | 100.0% | LTS                     | LTS | No  | LTS |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Drum : Appendix Table-54 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: Canyon Creek: Bowman Lake  
 Location: Node 147  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 15                                                       | 17   | 30  | 17   | 15  | 17   | 30  | 17   | 15  | 17   |
| 1976       | Critical   | 22                                                       | 12   | -10 | 12   | -9  | 22   | -10 | 12   | -10 | 12   |
| 1977       | Critical   | -2                                                       | 20   | -2  | 20   | -1  | 15   | -7  | 21   | -2  | 20   |
| 1978       | bove Norm  | 17                                                       | 17   | 17  | 17   | 19  | 17   | 19  | 17   | 19  | 17   |
| 1979       | elow Norm  | 39                                                       | 12   | 39  | 12   | 39  | 12   | 39  | 12   | 13  | 12   |
| 1980       | bove Norm  | -17                                                      | 17   | -13 | 17   | -17 | 17   | -17 | 17   | -17 | 17   |
| 1981       | Dry        | -6                                                       | 2    | 26  | 2    | -10 | 2    | 24  | 2    | -10 | 2    |
| 1982       | Wet        | 31                                                       | 17   | 31  | 17   | 30  | 17   | -2  | 17   | 31  | 17   |
| 1983       | Wet        | 54                                                       | 17   | 52  | 17   | 18  | 17   | 49  | 17   | 49  | 17   |
| 1984       | Wet        | 22                                                       | 17   | 42  | 17   | 7   | 17   | 23  | 17   | 23  | 17   |
| 1985       | Dry        | 1                                                        | 7    | 18  | 7    | 1   | 7    | 18  | 7    | 1   | 7    |
| 1986       | Wet        | -17                                                      | 17   | -17 | 17   | -17 | 17   | -17 | 17   | -17 | 17   |
| 1987       | Dry        | 19                                                       | 3    | 19  | 3    | -13 | 3    | 17  | 3    | -16 | 3    |
| 1988       | Critical   | -28                                                      | 1    | -27 | 1    | -27 | 5    | -26 | 1    | -27 | 1    |
| 1989       | Dry        | 18                                                       | 15   | 18  | 15   | -2  | 14   | 18  | 14   | -2  | 15   |
| 1990       | Critical   | -12                                                      | 16   | -12 | 8    | 9   | 7    | -12 | 16   | 9   | 16   |
| 1991       | Critical   | 11                                                       | 17   | 11  | 17   | 8   | 17   | 25  | 17   | 21  | 17   |
| 1992       | Critical   | 19                                                       | 2    | 19  | 2    | -6  | 2    | 18  | 2    | -16 | 2    |
| 1993       | bove Norm  | 45                                                       | 17   | 45  | 17   | 7   | 17   | 45  | 17   | 7   | 17   |
| 1994       | Critical   | -9                                                       | 17   | -9  | 17   | -16 | 17   | -9  | 17   | -16 | 17   |
| 1995       | Wet        | 48                                                       | 17   | 21  | 17   | 21  | 17   | 48  | 17   | 48  | 17   |
| 1996       | Wet        | -17                                                      | 17   | -17 | 17   | -11 | 17   | -17 | 17   | -11 | 17   |
| 1997       | Wet        | -17                                                      | 17   | -17 | 17   | -17 | 17   | -17 | 17   | -17 | 17   |
| 1998       | Wet        | 25                                                       | 17   | 25  | 17   | 23  | 17   | 43  | 17   | 39  | 17   |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

Drum: Appendix Table-55 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: South Yuba: Fordyce Lake  
 Location: Node 152  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A |       |       |       |       | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|-----------------|------------------------------------|-------|-------|-------|-------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |                 | BL2000                             | NP    | PM    | WM    | ST    | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST  |
| 1975       | Wet             | 174.3                              | 182.7 | 168.3 | 166.1 | 210.7 | >100%                  | 96.6%  | 95.3%  | >100%  | No                      | LTS | LTS | No  |
| 1976       | Critical        | 90.6                               | 90.3  | 89.5  | 90.3  | 90.1  | 99.7%                  | 98.8%  | 99.7%  | 99.4%  | LTS                     | LTS | LTS | LTS |
| 1977       | Critical        | 53.8                               | 44.2  | 44.5  | 41.2  | 44.2  | 82.2%                  | 82.7%  | 76.6%  | 82.2%  | LTS                     | LTS | SIG | LTS |
| 1978       | bove Norm       | 191.1                              | 183.3 | 191.7 | 208.4 | 185.6 | 95.9%                  | >100%  | >100%  | 97.1%  | LTS                     | No  | No  | LTS |
| 1979       | elow Norm       | 113.2                              | 124   | 113.2 | 112.8 | 113.2 | >100%                  | 100.0% | 99.6%  | 100.0% | No                      | No  | LTS | No  |
| 1980       | bove Norm       | 183.2                              | 226.5 | 192.3 | 212.8 | 192.3 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1981       | Dry             | 100.8                              | 101.4 | 100.8 | 100.8 | 100.8 | >100%                  | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1982       | Wet             | 181.7                              | 137.8 | 163.8 | 182.3 | 144.4 | 75.8%                  | 90.1%  | >100%  | 79.5%  | SIG                     | LTS | No  | SIG |
| 1983       | Wet             | 230                                | 230   | 214.6 | 190.8 | 190.8 | 100.0%                 | 93.3%  | 83.0%  | 83.0%  | No                      | LTS | LTS | LTS |
| 1984       | Wet             | 128.6                              | 120.3 | 117   | 118   | 139.4 | 93.5%                  | 91.0%  | 91.8%  | >100%  | LTS                     | LTS | LTS | No  |
| 1985       | Dry             | 100.6                              | 100.6 | 102.3 | 103.4 | 103.4 | 100.0%                 | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1986       | Wet             | 135.1                              | 126.9 | 126.9 | 132.6 | 129.6 | 93.9%                  | 93.9%  | 98.1%  | 95.9%  | LTS                     | LTS | LTS | LTS |
| 1987       | Dry             | 94.2                               | 95.9  | 98.4  | 98.3  | 93.1  | >100%                  | >100%  | >100%  | 98.8%  | No                      | No  | No  | LTS |
| 1988       | Critical        | 86                                 | 89.4  | 91.4  | 96.7  | 90.6  | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1989       | Dry             | 123.8                              | 123.2 | 133   | 111   | 118.9 | 99.5%                  | >100%  | 89.7%  | 96.0%  | LTS                     | No  | LTS | LTS |
| 1990       | Critical        | 112                                | 107.1 | 111.6 | 101.3 | 109.5 | 95.6%                  | 99.6%  | 90.4%  | 97.8%  | LTS                     | LTS | LTS | LTS |
| 1991       | Critical        | 92.2                               | 94.2  | 93.5  | 93    | 93.8  | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1992       | Critical        | 91.7                               | 91.6  | 91.5  | 91.5  | 91.6  | 99.9%                  | 99.8%  | 99.8%  | 99.9%  | LTS                     | LTS | LTS | LTS |
| 1993       | bove Norm       | 196.4                              | 203.7 | 187.8 | 168   | 166.2 | >100%                  | 95.6%  | 85.5%  | 84.6%  | No                      | LTS | LTS | LTS |
| 1994       | Critical        | 91.5                               | 94.2  | 91.9  | 91.5  | 89.2  | >100%                  | >100%  | 100.0% | 97.5%  | No                      | No  | No  | LTS |
| 1995       | Wet             | 271.4                              | 234.9 | 212.2 | 230.2 | 188.5 | 86.6%                  | 78.2%  | 84.8%  | 69.5%  | LTS                     | SIG | LTS | SIG |
| 1996       | Wet             | 180.6                              | 180.9 | 163.2 | 190.8 | 210.2 | >100%                  | 90.4%  | >100%  | >100%  | No                      | LTS | No  | No  |
| 1997       | Wet             | 158.8                              | 207.6 | 165.2 | 178.8 | 158.8 | >100%                  | >100%  | >100%  | 100.0% | No                      | No  | No  | No  |
| 1998       | Wet             | 130.8                              | 144   | 140.7 | 142.4 | 141.7 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Drum: Appendix Table-56 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: South Yuba: Fordyce Lake  
 Location: Node 152  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 43                                                       | 1    | 43  | 1    | 43  | 1    | 43  | 1    | 43  | 1    |
| 1976       | Critical   | 23                                                       | -10  | 23  | -10  | 23  | -10  | 23  | -10  | 23  | -10  |
| 1977       | Critical   | 17                                                       | -3   | 17  | -12  | 17  | -12  | 17  | -14  | 17  | -12  |
| 1978       | bove Norm  | 44                                                       | 1    | 44  | 1    | 44  | 1    | 44  | 1    | 44  | 1    |
| 1979       | elow Norm  | 56                                                       | -20  | 56  | -20  | 56  | -20  | 56  | -20  | 56  | -20  |
| 1980       | bove Norm  | 12                                                       | 1    | 12  | 1    | 14  | 1    | 12  | 1    | 14  | 1    |
| 1981       | Dry        | 28                                                       | -25  | 28  | -25  | 28  | -25  | 28  | -25  | 28  | -25  |
| 1982       | Wet        | 16                                                       | 1    | 16  | 1    | 16  | 1    | 16  | 1    | 16  | 1    |
| 1983       | Wet        | 48                                                       | 3    | 48  | 3    | 48  | 3    | 48  | 3    | 48  | 3    |
| 1984       | Wet        | 52                                                       | -9   | 52  | -9   | 52  | -9   | 52  | -9   | 52  | -9   |
| 1985       | Dry        | 34                                                       | -31  | 34  | -31  | 34  | -31  | 34  | -31  | 34  | -31  |
| 1986       | Wet        | 18                                                       | -13  | 10  | -13  | 10  | -13  | 10  | -13  | 18  | -13  |
| 1987       | Dry        | 18                                                       | -22  | 18  | -19  | 18  | -19  | 18  | -19  | 18  | -22  |
| 1988       | Critical   | 18                                                       | -11  | 18  | -11  | 18  | -12  | 18  | -11  | 18  | -11  |
| 1989       | Dry        | 20                                                       | -19  | 18  | -19  | 19  | -19  | 20  | -19  | 18  | -19  |
| 1990       | Critical   | 25                                                       | -32  | 25  | -32  | 25  | -32  | 25  | -32  | 25  | -32  |
| 1991       | Critical   | 37                                                       | -12  | 37  | -12  | 37  | -12  | 39  | -8   | 37  | -12  |
| 1992       | Critical   | 13                                                       | -19  | 13  | -19  | 13  | -19  | 13  | -19  | 13  | -19  |
| 1993       | bove Norm  | 40                                                       | 1    | 40  | 1    | 37  | 1    | 40  | 1    | 40  | 1    |
| 1994       | Critical   | 26                                                       | -16  | 26  | -16  | 26  | -20  | 26  | -16  | 26  | -16  |
| 1995       | Wet        | 48                                                       | 3    | 48  | 3    | 48  | 3    | 48  | 3    | 48  | 3    |
| 1996       | Wet        | 12                                                       | 1    | 12  | 1    | 14  | 1    | 7   | 1    | 12  | 1    |
| 1997       | Wet        | 17                                                       | 1    | 20  | 1    | 20  | 1    | 18  | 1    | 20  | 1    |
| 1998       | Wet        | 52                                                       | -9   | 52  | -9   | 52  | -9   | 52  | -9   | 52  | -9   |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

Drum: Appendix Table-57 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: South Yuba River: Lake Spaulding  
 Location: Node 154  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A |       |       |       |       | Percentage of Baseline |       |       |        | Significance Evaluation |     |     |     |
|------------|-----------------|------------------------------------|-------|-------|-------|-------|------------------------|-------|-------|--------|-------------------------|-----|-----|-----|
|            |                 | Thousands of Acre-feet             |       |       |       |       | NP                     | PM    | WM    | ST     | NP                      | PM  | WM  | ST  |
|            |                 | BL2000                             | NP    | PM    | WM    | ST    |                        |       |       |        |                         |     |     |     |
| 1975       | Wet             | 380.3                              | 352.2 | 367   | 368.8 | 342.6 | 92.6%                  | 96.5% | 97.0% | 90.1%  | LTS                     | LTS | LTS | LTS |
| 1976       | Critical        | 217.6                              | 199.8 | 197.2 | 193.6 | 212   | 91.8%                  | 90.6% | 89.0% | 97.4%  | LTS                     | LTS | LTS | LTS |
| 1977       | Critical        | 204.3                              | 204.8 | 203.7 | 197.4 | 214.8 | >100%                  | 99.7% | 96.6% | >100%  | No                      | LTS | LTS | No  |
| 1978       | bove Norm       | 372.4                              | 375.2 | 377.3 | 349.2 | 375.2 | >100%                  | >100% | 93.8% | >100%  | No                      | No  | LTS | No  |
| 1979       | elow Norm       | 277.6                              | 263.3 | 278.8 | 269.6 | 269.2 | 94.8%                  | >100% | 97.1% | 97.0%  | LTS                     | No  | LTS | LTS |
| 1980       | bove Norm       | 410.1                              | 372.4 | 407.4 | 386.1 | 401.3 | 90.8%                  | 99.3% | 94.1% | 97.9%  | LTS                     | LTS | LTS | LTS |
| 1981       | Dry             | 232.9                              | 224.5 | 227.3 | 225.1 | 225.1 | 96.4%                  | 97.6% | 96.7% | 96.7%  | LTS                     | LTS | LTS | LTS |
| 1982       | Wet             | 379.5                              | 380.7 | 363.1 | 336.7 | 374.7 | >100%                  | 95.7% | 88.7% | 98.7%  | No                      | LTS | LTS | LTS |
| 1983       | Wet             | 308.7                              | 308.7 | 330   | 347.9 | 347.9 | 100.0%                 | >100% | >100% | >100%  | No                      | No  | No  | No  |
| 1984       | Wet             | 350.3                              | 306.1 | 309.8 | 311.7 | 314.5 | 87.4%                  | 88.4% | 89.0% | 89.8%  | LTS                     | LTS | LTS | LTS |
| 1985       | Dry             | 249.3                              | 249.3 | 249.6 | 241.9 | 246.4 | 100.0%                 | >100% | 97.0% | 98.8%  | No                      | No  | LTS | LTS |
| 1986       | Wet             | 369.4                              | 343.8 | 343.8 | 338.1 | 361.4 | 93.1%                  | 93.1% | 91.5% | 97.8%  | LTS                     | LTS | LTS | LTS |
| 1987       | Dry             | 226.8                              | 212   | 214.6 | 209.7 | 221   | 93.5%                  | 94.6% | 92.5% | 97.4%  | LTS                     | LTS | LTS | LTS |
| 1988       | Critical        | 241                                | 232.1 | 229.6 | 224.8 | 231.5 | 96.3%                  | 95.3% | 93.3% | 96.1%  | LTS                     | LTS | LTS | LTS |
| 1989       | Dry             | 302.2                              | 315.5 | 304.2 | 327.6 | 317.3 | >100%                  | >100% | >100% | >100%  | No                      | No  | No  | No  |
| 1990       | Critical        | 243.2                              | 247.4 | 246.2 | 247.5 | 245.6 | >100%                  | >100% | >100% | >100%  | No                      | No  | No  | No  |
| 1991       | Critical        | 324.8                              | 283.5 | 286.4 | 260.8 | 305.1 | 87.3%                  | 88.2% | 80.3% | 93.9%  | LTS                     | LTS | LTS | LTS |
| 1992       | Critical        | 228.4                              | 222.1 | 222.6 | 220.8 | 223.2 | 97.2%                  | 97.5% | 96.7% | 97.7%  | LTS                     | LTS | LTS | LTS |
| 1993       | bove Norm       | 398.2                              | 376.6 | 393   | 412.3 | 417.7 | 94.6%                  | 98.7% | >100% | >100%  | LTS                     | LTS | No  | No  |
| 1994       | Critical        | 223.2                              | 219.6 | 223.3 | 222.3 | 224.9 | 98.4%                  | >100% | 99.6% | >100%  | LTS                     | No  | LTS | No  |
| 1995       | Wet             | 335.3                              | 381.3 | 403.8 | 383.7 | 416.8 | >100%                  | >100% | >100% | >100%  | No                      | No  | No  | No  |
| 1996       | Wet             | 372                                | 326.2 | 363.9 | 316.3 | 341.1 | 87.7%                  | 97.8% | 85.0% | 91.7%  | LTS                     | LTS | LTS | LTS |
| 1997       | Wet             | 325.5                              | 282.8 | 325.6 | 311.6 | 325.5 | 86.9%                  | >100% | 95.7% | 100.0% | LTS                     | No  | LTS | No  |
| 1998       | Wet             | 368.2                              | 334.3 | 337.5 | 337.2 | 339.3 | 90.8%                  | 91.7% | 91.6% | 92.2%  | LTS                     | LTS | LTS | LTS |

**Footnote:**

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Drum: Appendix Table-58 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: South Yuba River: Lake Spaulding  
 Location: Node 154  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 99                                                       | 13   | 99  | 13   | 99  | 13   | 99  | 13   | 99  | 13   |
| 1976       | Critical   | 40                                                       | -4   | 40  | -4   | 40  | 5    | 40  | 3    | 40  | -5   |
| 1977       | Critical   | 33                                                       | 0    | 33  | 6    | 33  | 4    | 34  | -1   | 34  | 6    |
| 1978       | bove Norm  | 84                                                       | 24   | 89  | 24   | 89  | 24   | 89  | 24   | 89  | 24   |
| 1979       | elow Norm  | 79                                                       | 24   | 84  | 24   | 87  | 24   | 84  | 24   | 84  | 24   |
| 1980       | bove Norm  | 52                                                       | 0    | 52  | 0    | 50  | 0    | 52  | 0    | 50  | 0    |
| 1981       | Dry        | 17                                                       | 24   | 42  | 24   | 42  | 24   | 42  | 24   | 45  | 24   |
| 1982       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1983       | Wet        | 113                                                      | 0    | 113 | 0    | 113 | 0    | 113 | 0    | 113 | 0    |
| 1984       | Wet        | 89                                                       | 24   | 89  | 24   | 89  | 24   | 89  | 24   | 89  | 24   |
| 1985       | Dry        | 15                                                       | 24   | 35  | 24   | 30  | 24   | 35  | 24   | 38  | 24   |
| 1986       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1987       | Dry        | 2                                                        | 16   | 18  | 14   | 18  | 16   | 18  | 14   | 18  | 16   |
| 1988       | Critical   | 15                                                       | 24   | 40  | 24   | 40  | 24   | 40  | 24   | 40  | 24   |
| 1989       | Dry        | 19                                                       | 0    | 16  | 0    | 14  | 0    | 25  | 0    | 16  | 0    |
| 1990       | Critical   | 14                                                       | 24   | 37  | 24   | 35  | 24   | 37  | 24   | 43  | 24   |
| 1991       | Critical   | 45                                                       | 24   | 89  | 24   | 89  | 24   | 87  | 24   | 89  | 24   |
| 1992       | Critical   | -3                                                       | 12   | 8   | 12   | 8   | 12   | 8   | 12   | 8   | 12   |
| 1993       | bove Norm  | 56                                                       | 0    | 56  | 0    | 60  | 0    | 56  | 0    | 56  | 0    |
| 1994       | Critical   | 30                                                       | 19   | 59  | 19   | 59  | 23   | 59  | 19   | 59  | 19   |
| 1995       | Wet        | 113                                                      | 0    | 113 | 0    | 113 | 0    | 113 | 0    | 113 | 0    |
| 1996       | Wet        | 52                                                       | 0    | 52  | 0    | 50  | 0    | 59  | 0    | 52  | 0    |
| 1997       | Wet        | 66                                                       | 0    | 61  | 0    | 61  | 0    | 63  | 0    | 61  | 0    |
| 1998       | Wet        | 89                                                       | 24   | 89  | 24   | 89  | 24   | 89  | 24   | 89  | 24   |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

Drum : Appendix Table-59 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: Yuba River: Englebright Lake  
 Location: Node 197  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A |       |       |       |       | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|-----------------|------------------------------------|-------|-------|-------|-------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |                 | Thousands of Acre-feet             |       |       |       |       | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST  |
|            |                 | BL2000                             | NP    | PM    | WM    | ST    |                        |        |        |        |                         |     |     |     |
| 1975       | Wet             | 398.4                              | 416.2 | 416.2 | 406.3 | 420   | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1976       | Critical        | 386.2                              | 381.4 | 380   | 381.4 | 380   | 98.8%                  | 98.4%  | 98.8%  | 98.4%  | LTS                     | LTS | LTS | LTS |
| 1977       | Critical        | 346.2                              | 346.2 | 336.6 | 346.2 | 346.2 | 100.0%                 | 97.2%  | 100.0% | 100.0% | No                      | LTS | No  | No  |
| 1978       | bove Norm       | 413.8                              | 410.1 | 406.6 | 410.4 | 407.2 | 99.1%                  | 98.3%  | 99.2%  | 98.4%  | LTS                     | LTS | LTS | LTS |
| 1979       | elow Norm       | 390                                | 393.5 | 393.5 | 393.5 | 397.6 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1980       | bove Norm       | 388.1                              | 398.8 | 398.8 | 398.8 | 396.8 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1981       | Dry             | 360                                | 362.6 | 362.6 | 362.3 | 360   | >100%                  | >100%  | >100%  | 100.0% | No                      | No  | No  | No  |
| 1982       | Wet             | 400                                | 415.7 | 415.7 | 415.7 | 390   | >100%                  | >100%  | >100%  | 97.5%  | No                      | No  | No  | LTS |
| 1983       | Wet             | 390                                | 390   | 390   | 390   | 390   | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1984       | Wet             | 364.5                              | 386.8 | 386.8 | 386.8 | 377.6 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1985       | Dry             | 379.7                              | 380   | 380   | 380   | 380   | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1986       | Wet             | 370                                | 380   | 376.5 | 380   | 374.1 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1987       | Dry             | 392.2                              | 384.3 | 384.3 | 384.3 | 381.9 | 98.0%                  | 98.0%  | 98.0%  | 97.4%  | LTS                     | LTS | LTS | LTS |
| 1988       | Critical        | 394.7                              | 385.3 | 385.3 | 385.3 | 385.3 | 97.6%                  | 97.6%  | 97.6%  | 97.6%  | LTS                     | LTS | LTS | LTS |
| 1989       | Dry             | 390                                | 392.2 | 392.2 | 402.2 | 390   | >100%                  | >100%  | >100%  | 100.0% | No                      | No  | No  | No  |
| 1990       | Critical        | 390                                | 381.6 | 381.6 | 384.1 | 380   | 97.8%                  | 97.8%  | 98.5%  | 97.4%  | LTS                     | LTS | LTS | LTS |
| 1991       | Critical        | 388.6                              | 381.2 | 381.2 | 381.2 | 380   | 98.1%                  | 98.1%  | 98.1%  | 97.8%  | LTS                     | LTS | LTS | LTS |
| 1992       | Critical        | 390.9                              | 390.9 | 390.9 | 390.9 | 380.9 | 100.0%                 | 100.0% | 100.0% | 97.4%  | No                      | No  | No  | LTS |
| 1993       | bove Norm       | 415                                | 405.7 | 405.7 | 405.7 | 411.1 | 97.8%                  | 97.8%  | 97.8%  | 99.1%  | LTS                     | LTS | LTS | LTS |
| 1994       | Critical        | 360                                | 360   | 360   | 360   | 364.8 | 100.0%                 | 100.0% | 100.0% | >100%  | No                      | No  | No  | No  |
| 1995       | Wet             | 402.9                              | 406.1 | 406.1 | 406.1 | 408.7 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1996       | Wet             | 383.3                              | 392   | 392   | 392   | 394.6 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1997       | Wet             | 391.8                              | 379   | 379   | 379   | 381.5 | 96.7%                  | 96.7%  | 96.7%  | 97.4%  | LTS                     | LTS | LTS | LTS |
| 1998       | Wet             | 368.1                              | 376.4 | 376.4 | 380   | 377.8 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Drum : Appendix Table-60 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: Yuba River: Englebright Lake  
 Location: Node 197  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 4                                                        | 0    | 4   | 0    | 4   | 0    | 4   | 0    | 4   | 0    |
| 1976       | Critical   | -4                                                       | 0    | -4  | 0    | -4  | 0    | -4  | 0    | -4  | 0    |
| 1977       | Critical   | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1978       | bove Norm  | 0                                                        | 0    | 0   | 0    | -1  | 1    | 0   | 0    | 0   | 0    |
| 1979       | elow Norm  | 4                                                        | -4   | 4   | -4   | 4   | -4   | 4   | -4   | 4   | -4   |
| 1980       | bove Norm  | 4                                                        | -4   | 2   | -4   | 2   | -4   | 2   | -4   | 2   | -4   |
| 1981       | Dry        | -4                                                       | 0    | -4  | 0    | -4  | 0    | -4  | 0    | -4  | 0    |
| 1982       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1983       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1984       | Wet        | 0                                                        | 0    | -4  | 0    | -4  | 0    | -4  | 0    | 0   | 0    |
| 1985       | Dry        | -4                                                       | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1986       | Wet        | 0                                                        | 0    | -4  | 0    | -4  | 0    | -4  | 0    | 0   | 0    |
| 1987       | Dry        | -1                                                       | 0    | -4  | 0    | -4  | 0    | -4  | 0    | -4  | 0    |
| 1988       | Critical   | -2                                                       | 0    | -4  | 0    | -4  | 0    | -4  | 0    | -4  | 0    |
| 1989       | Dry        | -4                                                       | 0    | -4  | 0    | -4  | 0    | 0   | -4   | -4  | 0    |
| 1990       | Critical   | -4                                                       | 0    | -4  | 0    | -4  | 0    | -4  | 0    | -4  | 0    |
| 1991       | Critical   | -4                                                       | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1992       | Critical   | -1                                                       | 0    | -4  | 0    | -4  | 0    | -4  | 0    | -4  | 0    |
| 1993       | bove Norm  | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1994       | Critical   | -4                                                       | 0    | -4  | 0    | -4  | 0    | -4  | 0    | -4  | 0    |
| 1995       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1996       | Wet        | 4                                                        | -4   | 4   | -4   | 4   | -4   | 4   | -4   | 4   | -4   |
| 1997       | Wet        | 2                                                        | -4   | 2   | -4   | 2   | -4   | 2   | -4   | 2   | -4   |
| 1998       | Wet        | 0                                                        | 0    | -4  | 0    | -4  | 0    | -4  | 0    | -4  | 0    |

**Footnote:**

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data



Drum: Appendix Table-61 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: Bear River: Rollins Reservoir  
 Location: Node 247  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A |       |       |       |       | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|-----------------|------------------------------------|-------|-------|-------|-------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |                 | Thousands of Acre-feet             |       |       |       |       | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST  |
|            |                 | BL2000                             | NP    | PM    | WM    | ST    |                        |        |        |        |                         |     |     |     |
| 1975       | Wet             | 318.5                              | 314.6 | 314.2 | 314.6 | 316.3 | 98.8%                  | 98.6%  | 98.8%  | 99.3%  | LTS                     | LTS | LTS | LTS |
| 1976       | Critical        | 128.2                              | 146.8 | 182.6 | 138.8 | 134.7 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1977       | Critical        | 46.1                               | 55.3  | 51.5  | 52.7  | 45.5  | >100%                  | >100%  | >100%  | 98.7%  | No                      | No  | No  | LTS |
| 1978       | bove Norm       | 311.8                              | 311.5 | 310.1 | 311.7 | 315.5 | 99.9%                  | 99.5%  | 100.0% | >100%  | LTS                     | LTS | LTS | No  |
| 1979       | elow Norm       | 311.3                              | 308.4 | 306   | 300.7 | 315.2 | 99.1%                  | 98.3%  | 96.6%  | >100%  | LTS                     | LTS | LTS | No  |
| 1980       | bove Norm       | 330.5                              | 321.2 | 320.4 | 321.2 | 326.4 | 97.2%                  | 96.9%  | 97.2%  | 98.8%  | LTS                     | LTS | LTS | LTS |
| 1981       | Dry             | 273.6                              | 245.2 | 246.4 | 186.6 | 239.4 | 89.6%                  | 90.1%  | 68.2%  | 87.5%  | LTS                     | LTS | SIG | LTS |
| 1982       | Wet             | 303.6                              | 319.6 | 320.1 | 319.6 | 319.5 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1983       | Wet             | 396                                | 396   | 396   | 396   | 396   | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1984       | Wet             | 303.4                              | 316.9 | 316.9 | 316.1 | 311.1 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1985       | Dry             | 285.1                              | 285.1 | 287.1 | 248   | 285.1 | 100.0%                 | >100%  | 87.0%  | 100.0% | No                      | No  | LTS | No  |
| 1986       | Wet             | 308.5                              | 308.5 | 308.5 | 308.5 | 310.9 | 100.0%                 | 100.0% | 100.0% | >100%  | No                      | No  | No  | No  |
| 1987       | Dry             | 141.3                              | 149.8 | 144.8 | 151   | 143.7 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1988       | Critical        | 180.4                              | 187.6 | 188.1 | 175.6 | 187   | >100%                  | >100%  | 97.3%  | >100%  | No                      | No  | LTS | No  |
| 1989       | Dry             | 325.3                              | 312.6 | 315.3 | 312.6 | 321   | 96.1%                  | 96.9%  | 96.1%  | 98.7%  | LTS                     | LTS | LTS | LTS |
| 1990       | Critical        | 204.1                              | 201.3 | 215.1 | 200.5 | 200.7 | 98.6%                  | >100%  | 98.2%  | 98.3%  | LTS                     | No  | LTS | LTS |
| 1991       | Critical        | 296.6                              | 289.7 | 292.3 | 278.8 | 290.3 | 97.7%                  | 98.6%  | 94.0%  | 97.9%  | LTS                     | LTS | LTS | LTS |
| 1992       | Critical        | 191.2                              | 185.2 | 186.8 | 173.7 | 184.6 | 96.9%                  | 97.7%  | 90.8%  | 96.5%  | LTS                     | LTS | LTS | LTS |
| 1993       | bove Norm       | 309.6                              | 308.5 | 308   | 308.5 | 307.3 | 99.6%                  | 99.5%  | 99.6%  | 99.3%  | LTS                     | LTS | LTS | LTS |
| 1994       | Critical        | 232.2                              | 214.5 | 215.1 | 169.3 | 224.9 | 92.4%                  | 92.6%  | 72.9%  | 96.9%  | LTS                     | LTS | SIG | LTS |
| 1995       | Wet             | 322.4                              | 320.3 | 320.3 | 320.4 | 322.4 | 99.3%                  | 99.3%  | 99.4%  | 100.0% | LTS                     | LTS | LTS | No  |
| 1996       | Wet             | 322.2                              | 312.2 | 312.7 | 312.2 | 319.8 | 96.9%                  | 97.1%  | 96.9%  | 99.3%  | LTS                     | LTS | LTS | LTS |
| 1997       | Wet             | 352.1                              | 351.5 | 359.9 | 351.5 | 352.1 | 99.8%                  | >100%  | 99.8%  | 100.0% | LTS                     | No  | LTS | No  |
| 1998       | Wet             | 304.9                              | 304.9 | 304.9 | 304.9 | 304.9 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Drum: Appendix Table-62 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: Bear River: Rollins Reservoir  
 Location: Node 247  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 1                                                        | 0    | 20  | 0    | 20  | 0    | 20  | 0    | 19  | 1    |
| 1976       | Critical   | -19                                                      | -39  | -19 | -39  | -10 | -37  | -25 | -43  | -19 | -39  |
| 1977       | Critical   | -34                                                      | -32  | -34 | -32  | -42 | -14  | -52 | 0    | -33 | -35  |
| 1978       | bove Norm  | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1979       | elow Norm  | 0                                                        | -1   | 0   | -3   | 0   | -2   | 0   | -7   | 0   | -3   |
| 1980       | bove Norm  | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1981       | Dry        | 0                                                        | -38  | -17 | -43  | -17 | -42  | -17 | -52  | -19 | -44  |
| 1982       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1983       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1984       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1985       | Dry        | 0                                                        | -22  | 0   | -22  | 0   | -19  | 0   | -25  | 0   | -22  |
| 1986       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1987       | Dry        | -7                                                       | -44  | -19 | -45  | -19 | -48  | -19 | -45  | -19 | -45  |
| 1988       | Critical   | -1                                                       | -31  | -7  | -31  | -7  | -34  | -11 | -31  | -8  | -31  |
| 1989       | Dry        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1990       | Critical   | 0                                                        | -9   | -16 | -10  | -16 | -5   | -14 | -5   | -19 | -10  |
| 1991       | Critical   | 9                                                        | 6    | -16 | 14   | -13 | 11   | -18 | 8    | -16 | 16   |
| 1992       | Critical   | -11                                                      | -31  | -19 | -32  | -19 | -33  | -19 | -32  | -19 | -32  |
| 1993       | bove Norm  | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1994       | Critical   | -6                                                       | -44  | -7  | -44  | -7  | -45  | -11 | -54  | -8  | -44  |
| 1995       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1996       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1997       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1998       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

Drum: Appendix Table-63 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: North Yuba River: New Bullards Bar  
 Location: Node 133  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A |        |        |        |        | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|-----------------|------------------------------------|--------|--------|--------|--------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |                 | Thousands of Acre-feet             |        |        |        |        | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST  |
|            |                 | BL2000                             | NP     | PM     | WM     | ST     |                        |        |        |        |                         |     |     |     |
| 1975       | Wet             | 5165.6                             | 4998.5 | 4998.5 | 4998.5 | 5065.7 | 96.8%                  | 96.8%  | 96.8%  | 98.1%  | LTS                     | LTS | LTS | LTS |
| 1976       | Critical        | 3790.1                             | 3794.7 | 3724.3 | 3771.1 | 3796.1 | >100%                  | 98.3%  | 99.5%  | >100%  | No                      | LTS | LTS | No  |
| 1977       | Critical        | 1701.9                             | 1704.5 | 1681.8 | 1727.1 | 1703.2 | >100%                  | 98.8%  | >100%  | >100%  | No                      | LTS | No  | No  |
| 1978       | bove Norm       | 5161.8                             | 4992.1 | 4996.4 | 4987.4 | 5147.2 | 96.7%                  | 96.8%  | 96.6%  | 99.7%  | LTS                     | LTS | LTS | LTS |
| 1979       | elow Norm       | 4044.9                             | 4045.8 | 4045.8 | 4045.8 | 4044.9 | >100%                  | >100%  | >100%  | 100.0% | No                      | No  | No  | No  |
| 1980       | bove Norm       | 4488.9                             | 4464   | 4464   | 4464   | 4502.1 | 99.4%                  | 99.4%  | 99.4%  | >100%  | LTS                     | LTS | LTS | No  |
| 1981       | Dry             | 3732.9                             | 3732.8 | 3732.3 | 3732.5 | 3727.5 | 100.0%                 | 100.0% | 100.0% | 99.9%  | LTS                     | LTS | LTS | LTS |
| 1982       | Wet             | 5054.1                             | 4684.2 | 4792.4 | 4684.2 | 4989.1 | 92.7%                  | 94.8%  | 92.7%  | 98.7%  | LTS                     | LTS | LTS | LTS |
| 1983       | Wet             | 4906.2                             | 4906   | 4906   | 4906   | 4906   | 100.0%                 | 100.0% | 100.0% | 100.0% | LTS                     | LTS | LTS | LTS |
| 1984       | Wet             | 4154.1                             | 4031.5 | 4031.5 | 4031.5 | 4220.9 | 97.0%                  | 97.0%  | 97.0%  | >100%  | LTS                     | LTS | LTS | No  |
| 1985       | Dry             | 3995.2                             | 3994.9 | 3991.9 | 3995.4 | 3994.9 | 100.0%                 | 99.9%  | >100%  | 100.0% | LTS                     | LTS | No  | LTS |
| 1986       | Wet             | 4336.6                             | 4304   | 4303.9 | 4304   | 4296.7 | 99.2%                  | 99.2%  | 99.2%  | 99.1%  | LTS                     | LTS | LTS | LTS |
| 1987       | Dry             | 3959.2                             | 3967.6 | 3967.6 | 3967.6 | 3969.9 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1988       | Critical        | 3913.3                             | 3925.2 | 3925.2 | 3925.2 | 3925.2 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1989       | Dry             | 4190.2                             | 4224.7 | 4229.1 | 4192.2 | 4226.9 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1990       | Critical        | 4400.7                             | 4412.6 | 4396.1 | 4393.5 | 4414.2 | >100%                  | 99.9%  | 99.8%  | >100%  | No                      | LTS | LTS | No  |
| 1991       | Critical        | 4370.4                             | 4360.6 | 4360.5 | 4360.7 | 4361.7 | 99.8%                  | 99.8%  | 99.8%  | 99.8%  | LTS                     | LTS | LTS | LTS |
| 1992       | Critical        | 3906.1                             | 3905.3 | 3910.4 | 3904.9 | 3915.5 | 100.0%                 | >100%  | 100.0% | >100%  | LTS                     | No  | LTS | No  |
| 1993       | bove Norm       | 5206.4                             | 5050.2 | 5050.2 | 5050.2 | 5129.5 | 97.0%                  | 97.0%  | 97.0%  | 98.5%  | LTS                     | LTS | LTS | LTS |
| 1994       | Critical        | 3723.1                             | 3723.1 | 3723.1 | 3722.8 | 3723.1 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | LTS | No  |
| 1995       | Wet             | 5385.3                             | 5328.7 | 5328.7 | 5324.8 | 5362.3 | 98.9%                  | 98.9%  | 98.9%  | 99.6%  | LTS                     | LTS | LTS | LTS |
| 1996       | Wet             | 4534.8                             | 4315   | 4315   | 4315   | 4471   | 95.2%                  | 95.2%  | 95.2%  | 98.6%  | LTS                     | LTS | LTS | LTS |
| 1997       | Wet             | 4168.1                             | 4084.7 | 4084.7 | 4084.7 | 4100.1 | 98.0%                  | 98.0%  | 98.0%  | 98.4%  | LTS                     | LTS | LTS | LTS |
| 1998       | Wet             | 4209.1                             | 4203   | 4203   | 4181.8 | 4291.8 | 99.9%                  | 99.9%  | 99.4%  | >100%  | LTS                     | LTS | LTS | No  |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Drum: Appendix Table-64 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: North Yuba River: New Bullards Bar  
 Location: Node 133  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 26                                                       | 28   | 26  | 28   | 26  | 28   | 26  | 28   | 26  | 28   |
| 1976       | Critical   | -8                                                       | -17  | -8  | -17  | -10 | -18  | -8  | -18  | -8  | -17  |
| 1977       | Critical   | -27                                                      | -28  | -27 | -28  | -27 | -28  | -27 | -24  | -27 | -27  |
| 1978       | bove Norm  | 7                                                        | 27   | 7   | 27   | 8   | 26   | 7   | 27   | 7   | 27   |
| 1979       | elow Norm  | 8                                                        | 2    | 8   | 2    | 8   | 2    | 8   | 2    | 8   | 2    |
| 1980       | bove Norm  | -5                                                       | 17   | 1   | 17   | 1   | 17   | 1   | 17   | 1   | 17   |
| 1981       | Dry        | -5                                                       | -13  | -2  | -13  | -2  | -13  | -2  | -13  | -2  | -13  |
| 1982       | Wet        | 16                                                       | 0    | 16  | 0    | 16  | 0    | 16  | 0    | 16  | 0    |
| 1983       | Wet        | 26                                                       | 0    | 26  | 0    | 26  | 0    | 26  | 0    | 26  | 0    |
| 1984       | Wet        | 0                                                        | 2    | 6   | 2    | 6   | 2    | 6   | 2    | 0   | 2    |
| 1985       | Dry        | -3                                                       | -10  | 1   | -10  | 1   | -11  | 1   | -11  | 1   | -10  |
| 1986       | Wet        | -8                                                       | -1   | -4  | -1   | -4  | -2   | -4  | -1   | -8  | -1   |
| 1987       | Dry        | -13                                                      | -17  | -12 | -17  | -12 | -17  | -12 | -17  | -12 | -17  |
| 1988       | Critical   | -9                                                       | -15  | -8  | -15  | -8  | -15  | -8  | -15  | -8  | -15  |
| 1989       | Dry        | -19                                                      | -6   | -18 | -6   | -18 | -6   | -22 | -4   | -18 | -6   |
| 1990       | Critical   | -8                                                       | 4    | -1  | 4    | -1  | 3    | -1  | 3    | -1  | 4    |
| 1991       | Critical   | 4                                                        | 2    | 6   | 0    | 6   | 0    | 6   | 0    | 6   | 0    |
| 1992       | Critical   | -16                                                      | -19  | -14 | -19  | -14 | -19  | -14 | -19  | -14 | -19  |
| 1993       | bove Norm  | 20                                                       | 19   | 20  | 19   | 20  | 19   | 20  | 19   | 20  | 19   |
| 1994       | Critical   | -2                                                       | -14  | -2  | -14  | -2  | -14  | -2  | -14  | -2  | -14  |
| 1995       | Wet        | 26                                                       | 0    | 26  | 0    | 26  | 0    | 26  | 0    | 26  | 0    |
| 1996       | Wet        | -5                                                       | 17   | -5  | 17   | -5  | 17   | -5  | 17   | -5  | 17   |
| 1997       | Wet        | -4                                                       | 17   | 1   | 17   | 1   | 17   | 1   | 17   | -4  | 17   |
| 1998       | Wet        | 0                                                        | 2    | 6   | 2    | 6   | 2    | 6   | 2    | 3   | 2    |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

Drum: Appendix Table-65 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: Eel River: Lake Pillsbury  
 Location: Node 800  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A |       |       |    |    | Percentage of Baseline |       |    |    | Significance Evaluation |     |    |    |
|------------|-----------------|------------------------------------|-------|-------|----|----|------------------------|-------|----|----|-------------------------|-----|----|----|
|            |                 | Thousands of Acre-feet             |       |       |    |    | NP                     | PM    | WM | ST | NP                      | PM  | WM | ST |
|            |                 | BL2000                             | NP    | PM    | WM | ST |                        |       |    |    |                         |     |    |    |
| 1975       | Wet             | 365                                | 365   | 393.3 | 0  | 0  | 100.0%                 | >100% | ND | ND | No                      | No  | ND | ND |
| 1976       | Critical        | 304.6                              | 304.6 | 334.2 | 0  | 0  | 100.0%                 | >100% | ND | ND | No                      | No  | ND | ND |
| 1977       | Critical        | 125.7                              | 125.7 | 137.1 | 0  | 0  | 100.0%                 | >100% | ND | ND | No                      | No  | ND | ND |
| 1978       | bove Norm       | 363.9                              | 363.9 | 409.3 | 0  | 0  | 100.0%                 | >100% | ND | ND | No                      | No  | ND | ND |
| 1979       | elow Norm       | 335                                | 307.4 | 272.5 | 0  | 0  | 91.8%                  | 81.3% | ND | ND | LTS                     | LTS | ND | ND |
| 1980       | bove Norm       | 352.1                              | 352.1 | 342.2 | 0  | 0  | 100.0%                 | 97.2% | ND | ND | No                      | LTS | ND | ND |
| 1981       | Dry             | 304                                | 304   | 247   | 0  | 0  | 100.0%                 | 81.3% | ND | ND | No                      | LTS | ND | ND |
| 1982       | Wet             | 365.6                              | 365.6 | 283.7 | 0  | 0  | 100.0%                 | 77.6% | ND | ND | No                      | SIG | ND | ND |
| 1983       | Wet             | 363.3                              | 363.3 | 329.2 | 0  | 0  | 100.0%                 | 90.6% | ND | ND | No                      | LTS | ND | ND |
| 1984       | Wet             | 343.8                              | 343.8 | 272.3 | 0  | 0  | 100.0%                 | 79.2% | ND | ND | No                      | SIG | ND | ND |
| 1985       | Dry             | 278.9                              | 280.2 | 283.2 | 0  | 0  | >100%                  | >100% | ND | ND | No                      | No  | ND | ND |
| 1986       | Wet             | 321.4                              | 321.4 | 326.7 | 0  | 0  | 100.0%                 | >100% | ND | ND | No                      | No  | ND | ND |
| 1987       | Dry             | 263.4                              | 263.4 | 258.4 | 0  | 0  | 100.0%                 | 98.1% | ND | ND | No                      | LTS | ND | ND |
| 1988       | Critical        | 272.6                              | 273.2 | 275.7 | 0  | 0  | >100%                  | >100% | ND | ND | No                      | No  | ND | ND |
| 1989       | Dry             | 324.5                              | 324.5 | 332.1 | 0  | 0  | 100.0%                 | >100% | ND | ND | No                      | No  | ND | ND |
| 1990       | Critical        | 365.6                              | 365.4 | 378.5 | 0  | 0  | 99.9%                  | >100% | ND | ND | LTS                     | No  | ND | ND |
| 1991       | Critical        | 357.5                              | 357.5 | 341.4 | 0  | 0  | 100.0%                 | 95.5% | ND | ND | No                      | LTS | ND | ND |
| 1992       | Critical        | 291.5                              | 291.5 | 240.8 | 0  | 0  | 100.0%                 | 82.6% | ND | ND | No                      | LTS | ND | ND |
| 1993       | bove Norm       | 364.1                              | 364.1 | 389.5 | 0  | 0  | 100.0%                 | >100% | ND | ND | No                      | No  | ND | ND |
| 1994       | Critical        | 307.1                              | 307.1 | 279.6 | 0  | 0  | 100.0%                 | 91.0% | ND | ND | No                      | LTS | ND | ND |
| 1995       | Wet             | 365.2                              | 365.2 | 360.5 | 0  | 0  | 100.0%                 | 98.7% | ND | ND | No                      | LTS | ND | ND |
| 1996       | Wet             | 362.6                              | 363.2 | 309.1 | 0  | 0  | >100%                  | 85.2% | ND | ND | No                      | LTS | ND | ND |
| 1997       | Wet             | 283.1                              | 287   | 260.3 | 0  | 0  | >100%                  | 91.9% | ND | ND | No                      | LTS | ND | ND |
| 1998       | Wet             | 352.5                              | 353.6 | 319.1 | 0  | 0  | >100%                  | 90.5% | ND | ND | No                      | LTS | ND | ND |

**Footnote:**

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

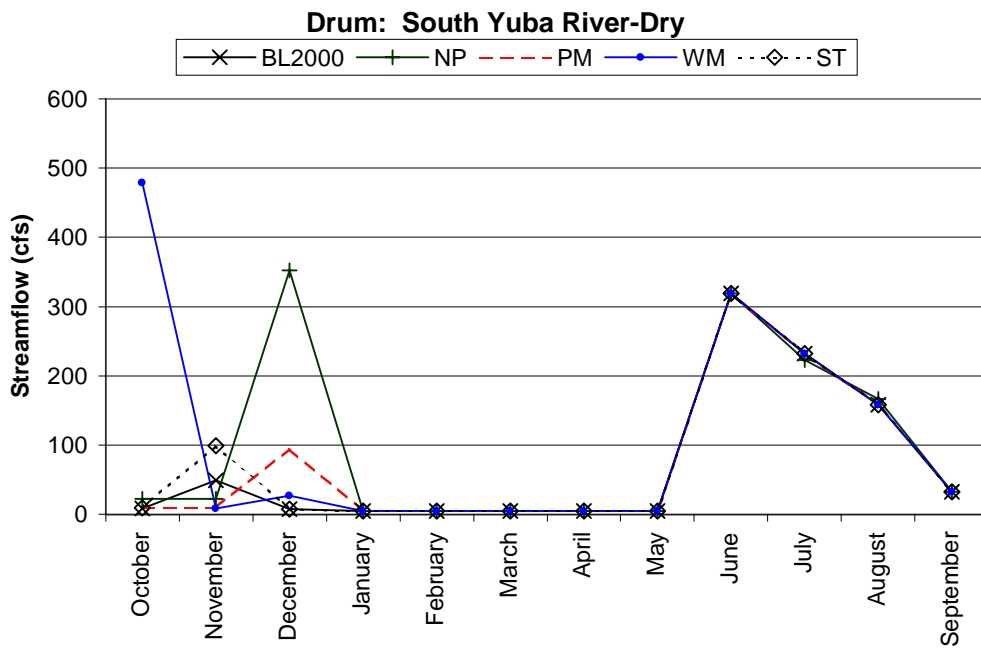
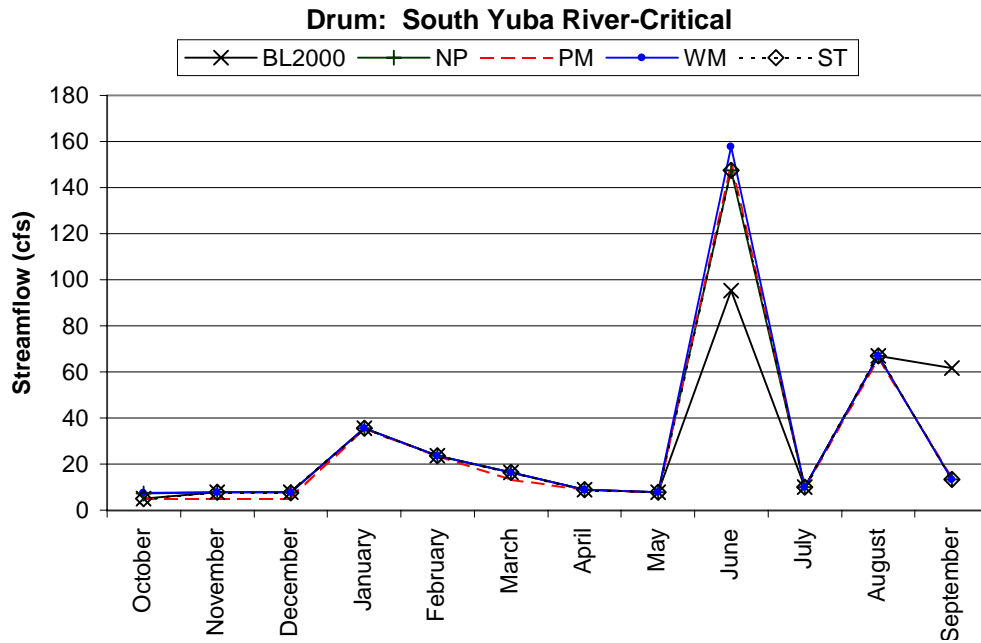
WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Drum: Appendix Table-66 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

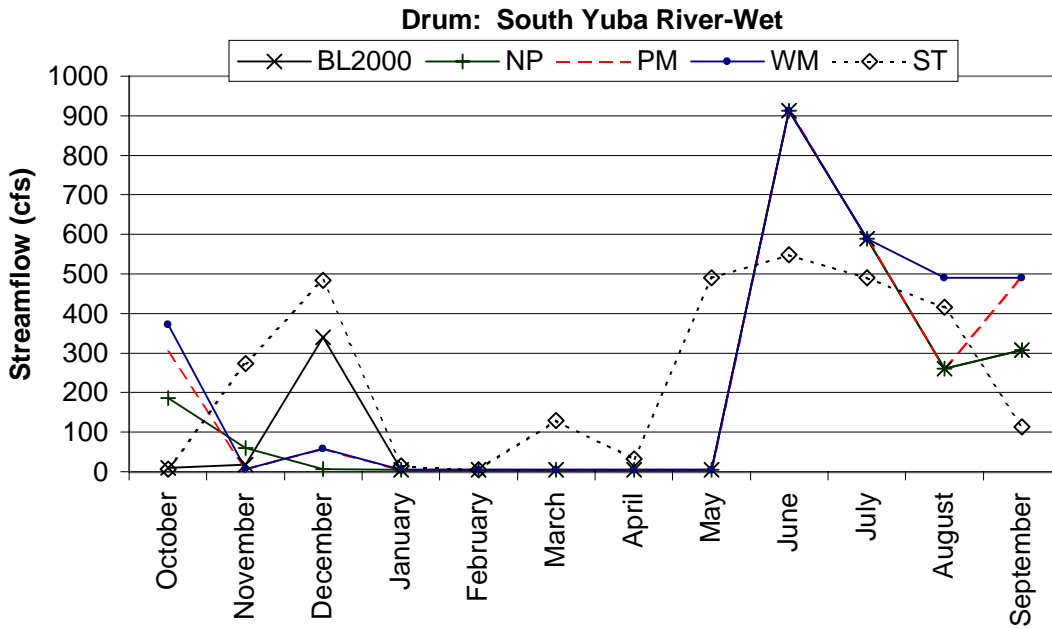
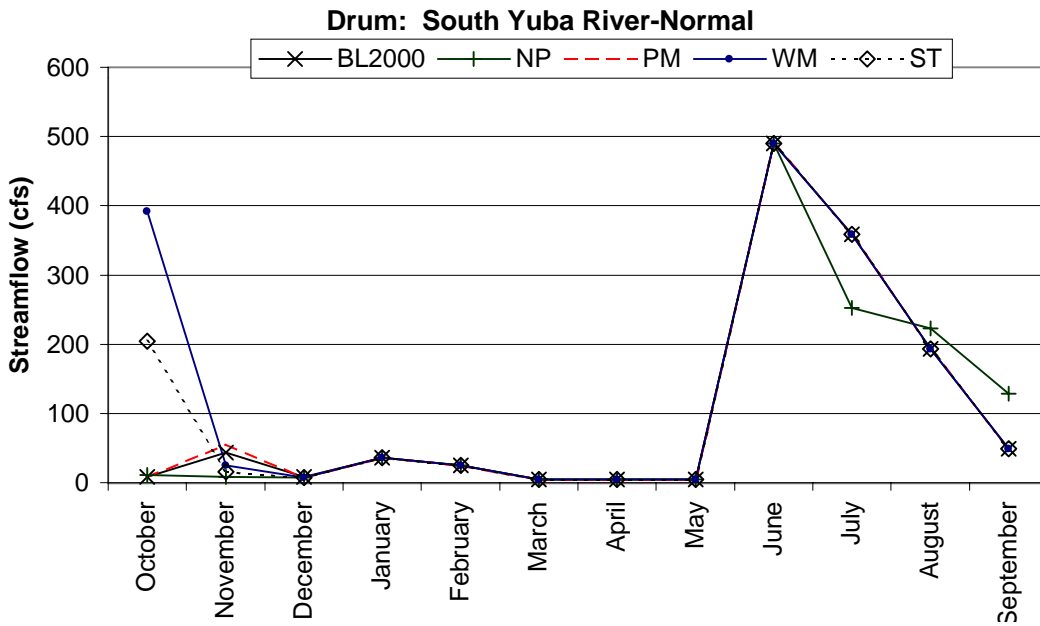
Site: Eel River: Lake Pillsbury  
 Location: Node 800  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 7                                                        | -3   | 7   | -3   | 0   | 0    | ND  | ND   | ND  | ND   |
| 1976       | Critical   | 1                                                        | -2   | 1   | -2   | -1  | -2   | ND  | ND   | ND  | ND   |
| 1977       | Critical   | -1                                                       | -3   | -1  | -3   | 0   | -3   | ND  | ND   | ND  | ND   |
| 1978       | bove Norm  | 7                                                        | -3   | 7   | -3   | 0   | 0    | ND  | ND   | ND  | ND   |
| 1979       | elow Norm  | 7                                                        | -3   | 7   | -3   | 5   | -2   | ND  | ND   | ND  | ND   |
| 1980       | bove Norm  | 3                                                        | 1    | 3   | 1    | -2  | 1    | ND  | ND   | ND  | ND   |
| 1981       | Dry        | 0                                                        | -2   | 0   | -2   | 0   | -1   | ND  | ND   | ND  | ND   |
| 1982       | Wet        | 7                                                        | -3   | 7   | -3   | 0   | -4   | ND  | ND   | ND  | ND   |
| 1983       | Wet        | 7                                                        | -3   | 7   | -3   | 0   | 0    | ND  | ND   | ND  | ND   |
| 1984       | Wet        | 3                                                        | -1   | 3   | -1   | -2  | -1   | ND  | ND   | ND  | ND   |
| 1985       | Dry        | 0                                                        | -3   | 0   | -3   | -2  | -3   | ND  | ND   | ND  | ND   |
| 1986       | Wet        | 2                                                        | -2   | 2   | -2   | 0   | -2   | ND  | ND   | ND  | ND   |
| 1987       | Dry        | -1                                                       | -3   | -1  | -3   | -1  | -5   | ND  | ND   | ND  | ND   |
| 1988       | Critical   | 1                                                        | -2   | 1   | -2   | 1   | -3   | ND  | ND   | ND  | ND   |
| 1989       | Dry        | 2                                                        | -2   | 2   | -2   | 0   | -2   | ND  | ND   | ND  | ND   |
| 1990       | Critical   | 10                                                       | -3   | 11  | -3   | 10  | 5    | ND  | ND   | ND  | ND   |
| 1991       | Critical   | 5                                                        | -1   | 5   | -1   | -3  | -1   | ND  | ND   | ND  | ND   |
| 1992       | Critical   | -1                                                       | -2   | -1  | -2   | -1  | -4   | ND  | ND   | ND  | ND   |
| 1993       | bove Norm  | 7                                                        | -3   | 7   | -3   | 0   | 0    | ND  | ND   | ND  | ND   |
| 1994       | Critical   | 2                                                        | -2   | 2   | -2   | 2   | -3   | ND  | ND   | ND  | ND   |
| 1995       | Wet        | 7                                                        | -3   | 7   | -3   | 0   | 0    | ND  | ND   | ND  | ND   |
| 1996       | Wet        | 7                                                        | -3   | 7   | -3   | 0   | 0    | ND  | ND   | ND  | ND   |
| 1997       | Wet        | 0                                                        | -3   | 0   | -3   | 0   | -2   | ND  | ND   | ND  | ND   |
| 1998       | Wet        | 7                                                        | -3   | 7   | -3   | 0   | 0    | ND  | ND   | ND  | ND   |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

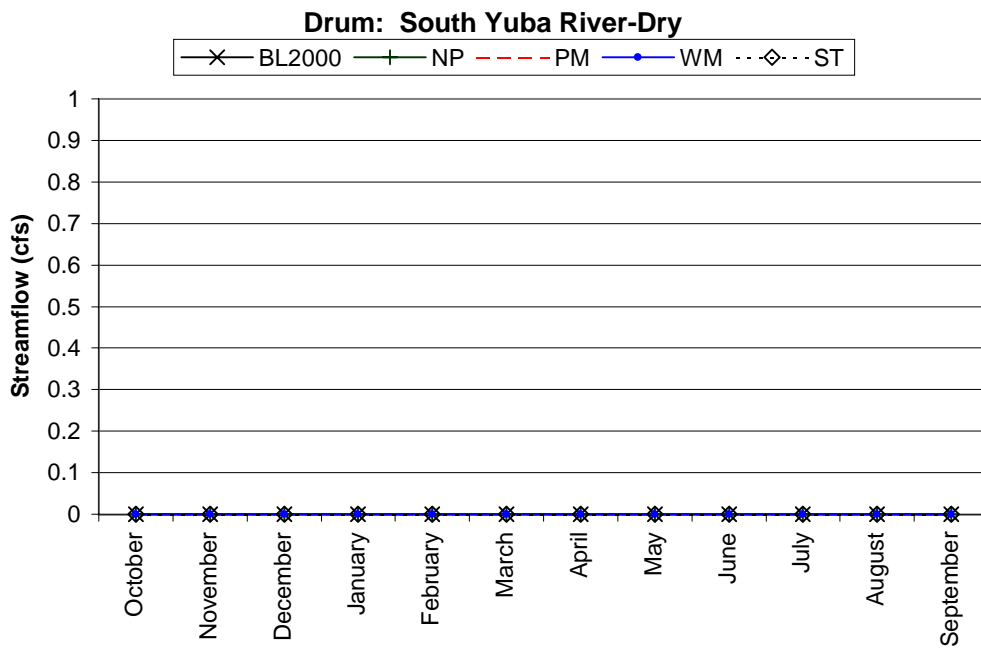
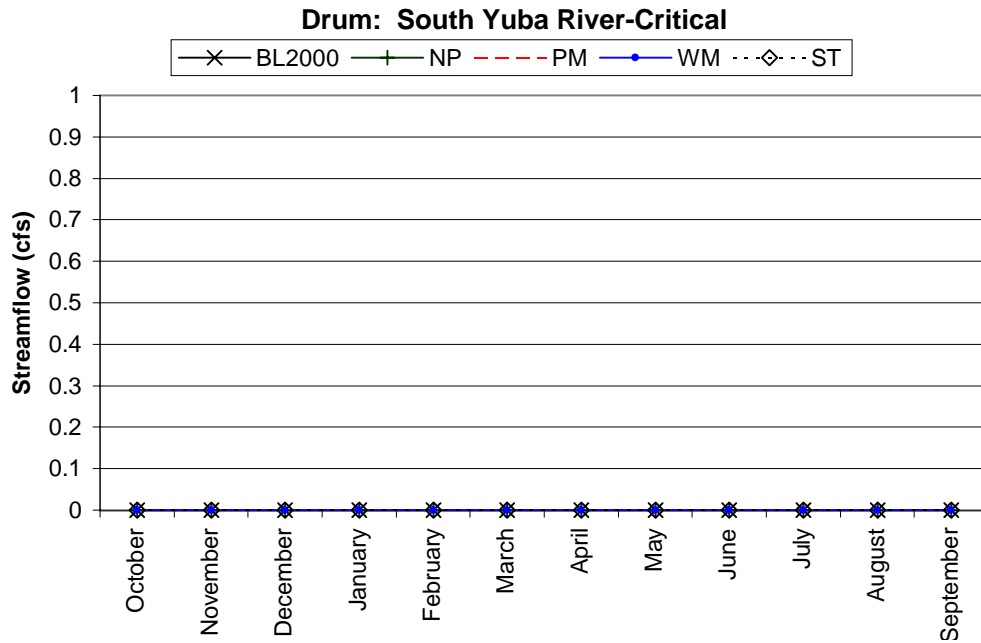


Drum: Appendix Figure-1 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

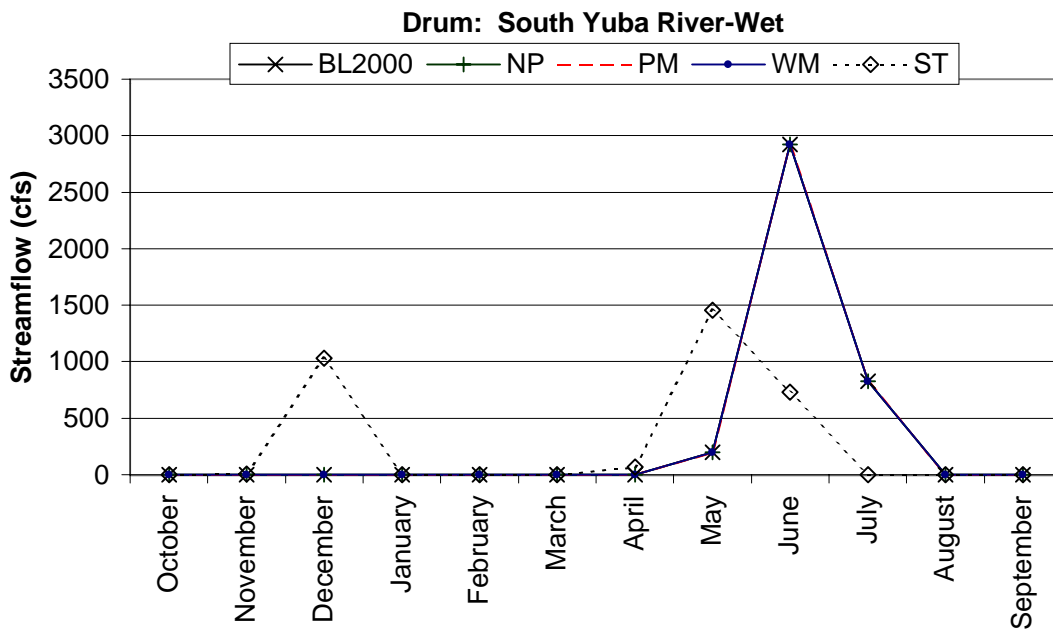
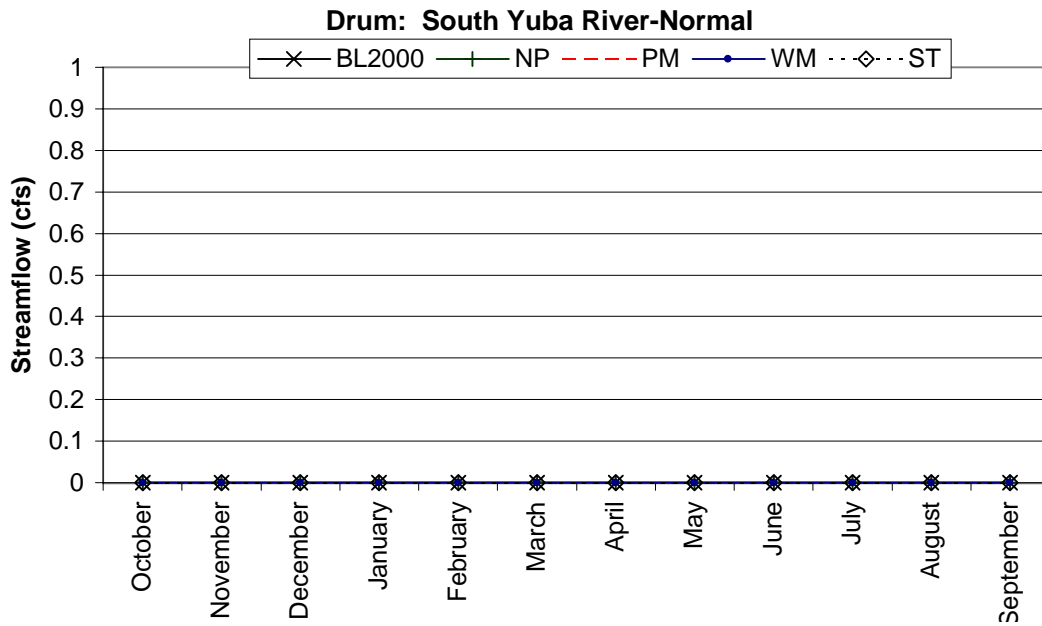


Drum: Appendix Figure-2 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

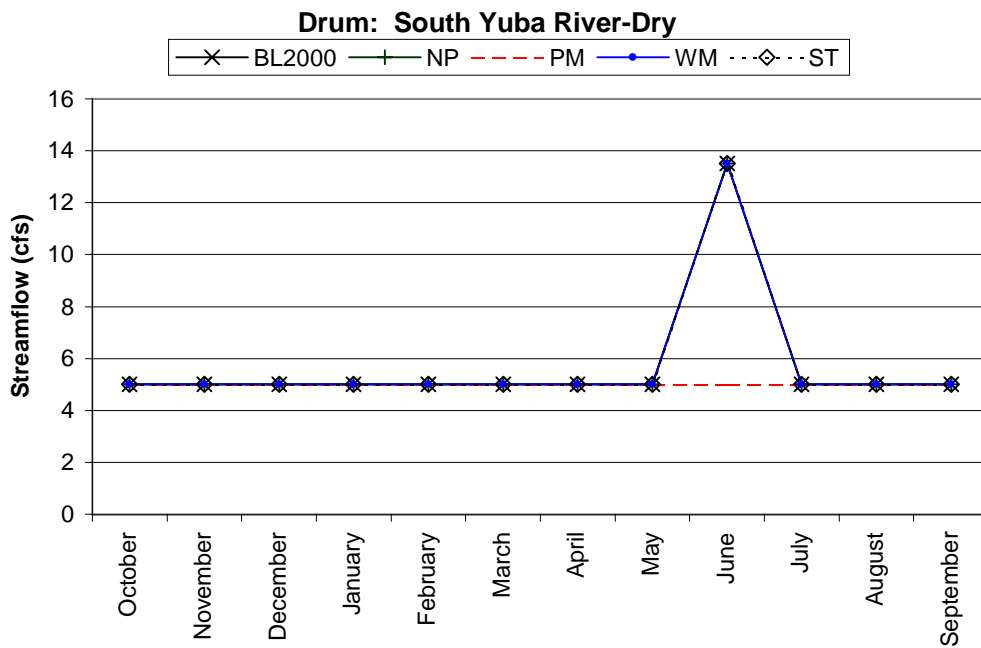
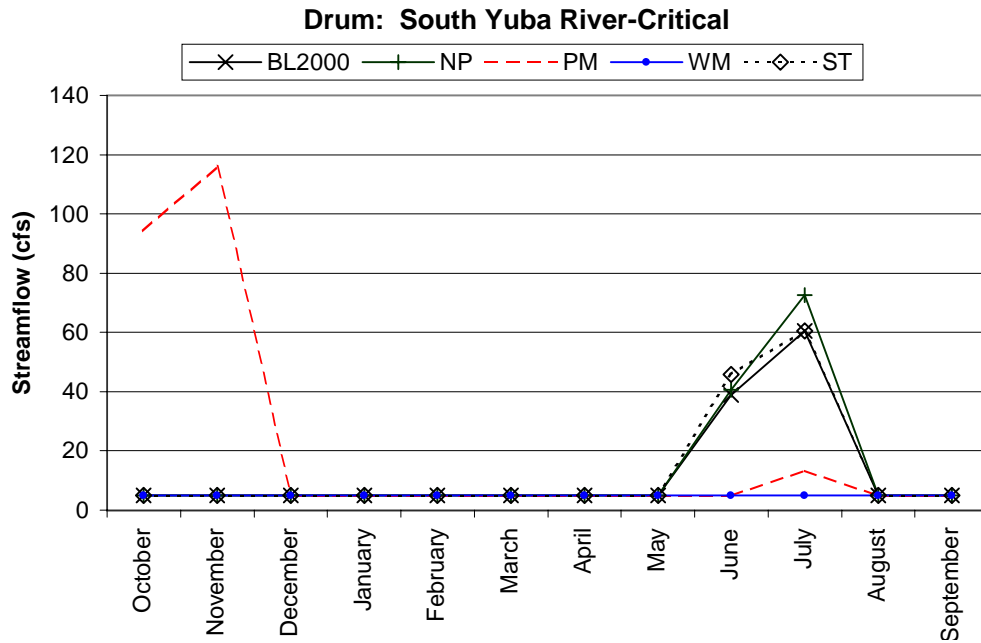




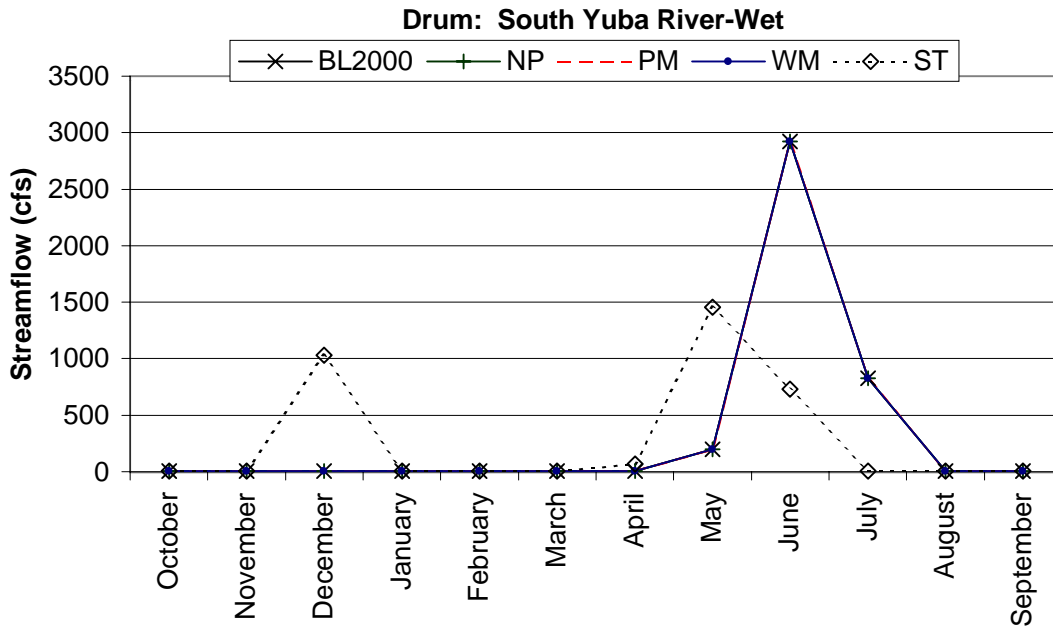
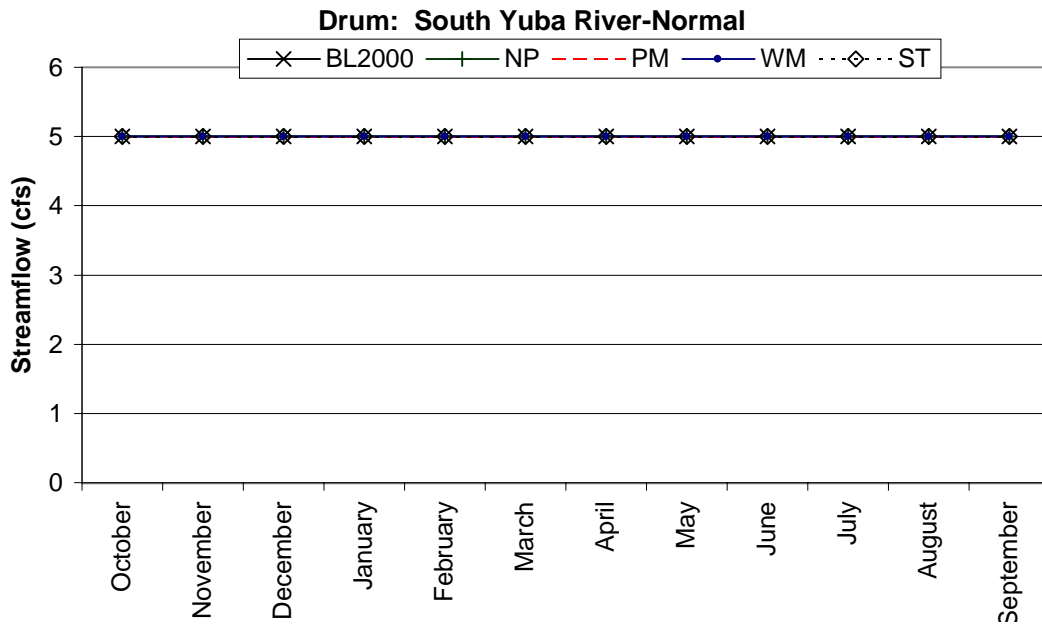
Drum: Appendix Figure-3 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



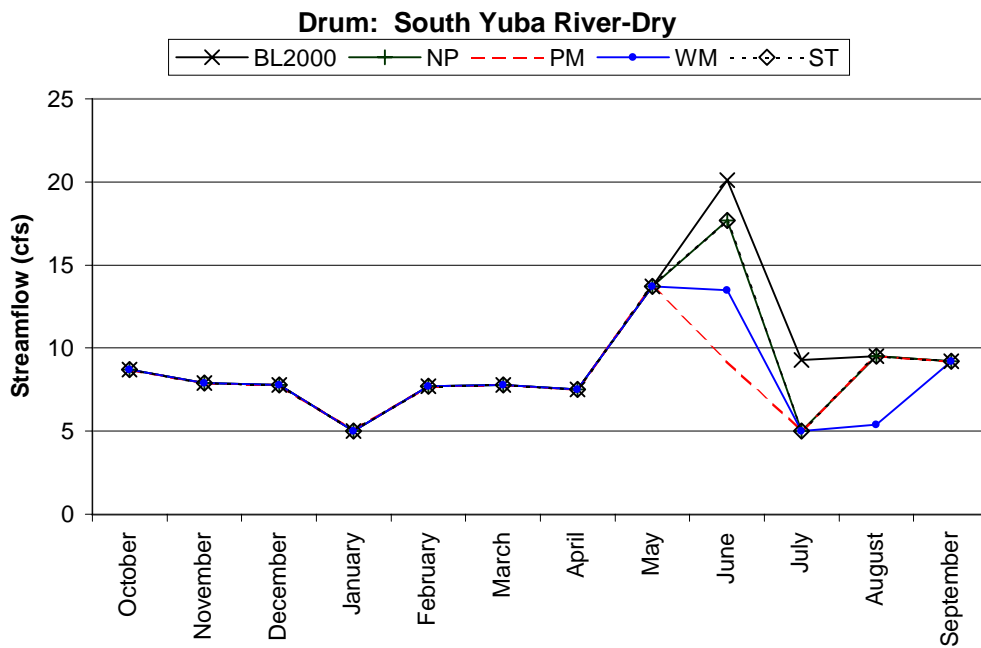
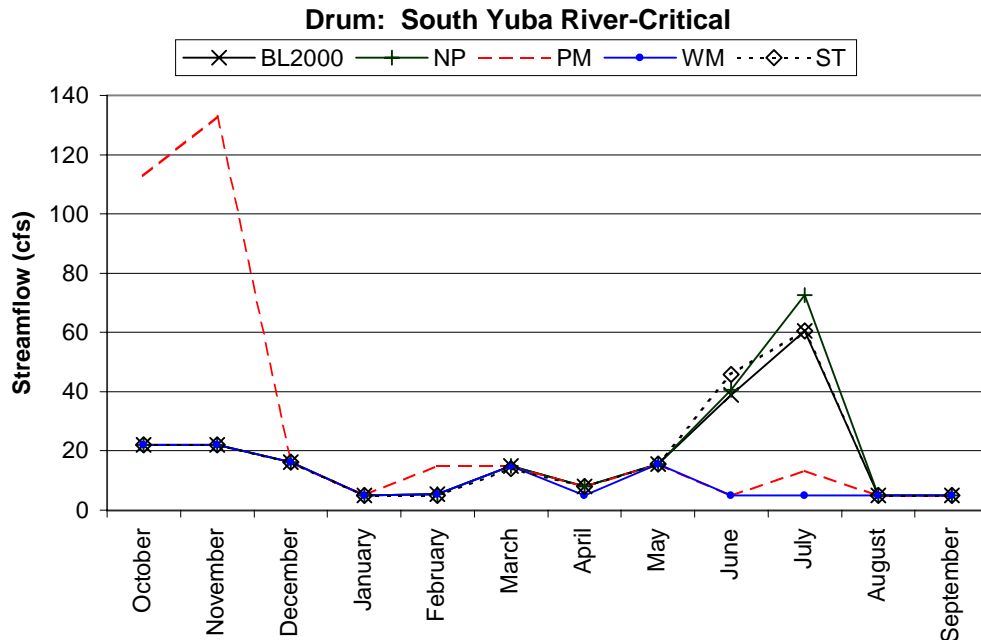
Drum: Appendix Figure-4 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



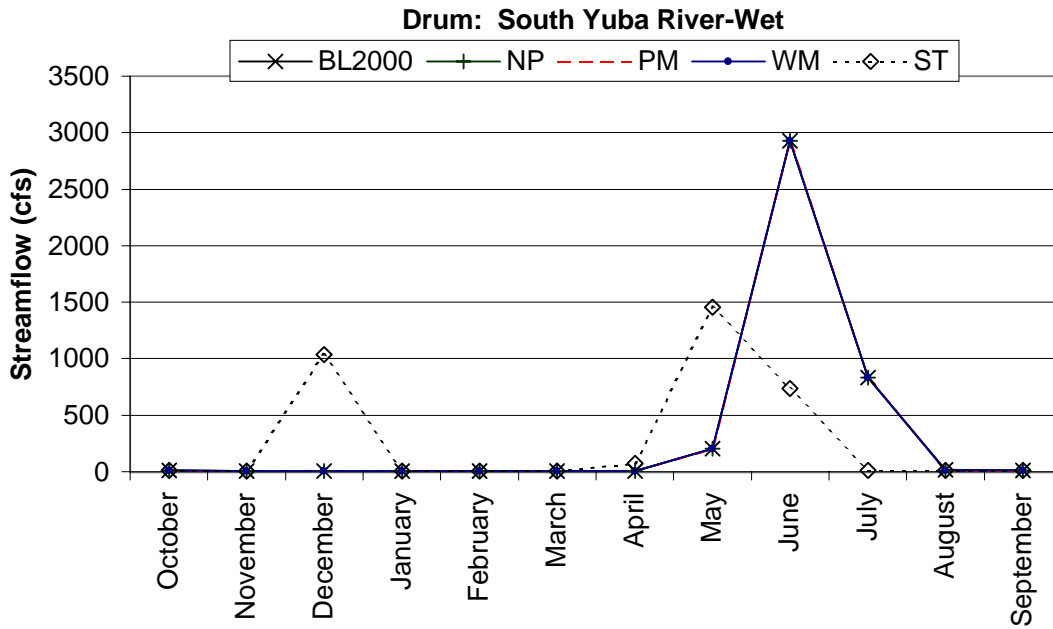
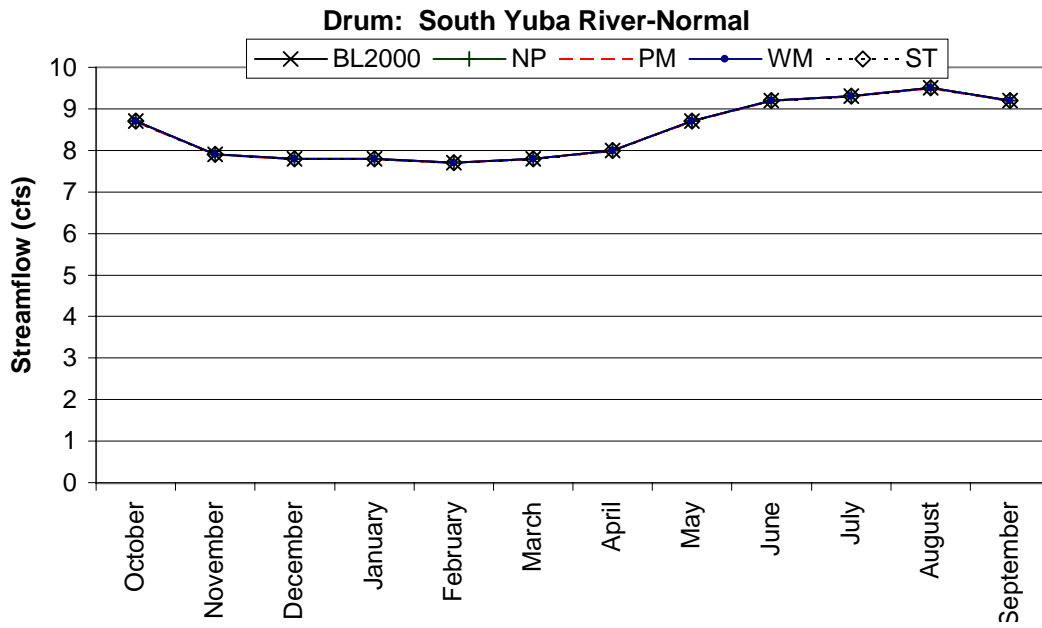
Drum: Appendix Figure-5 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



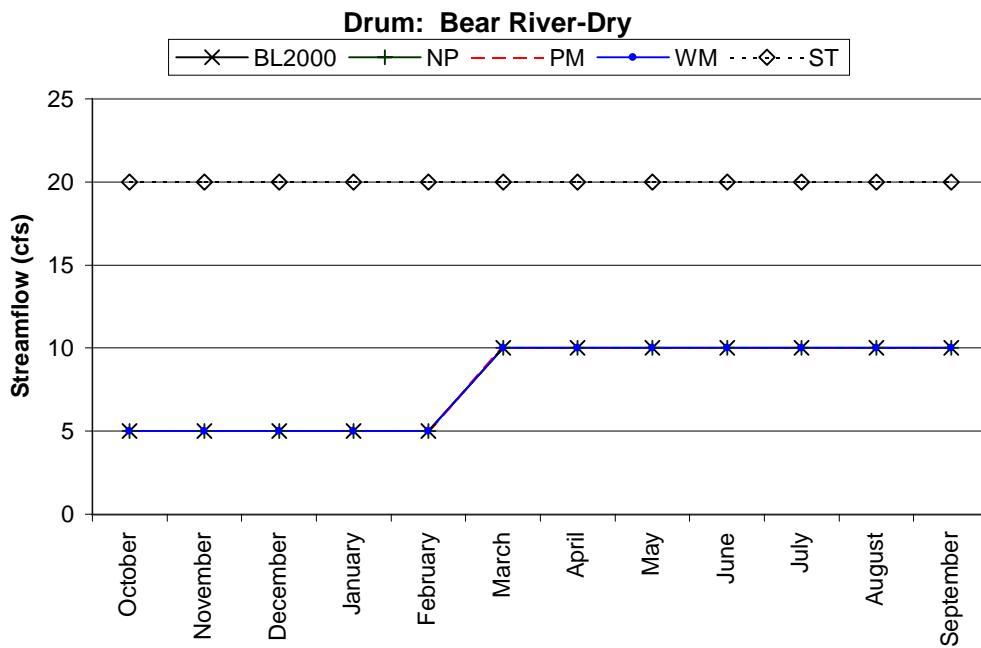
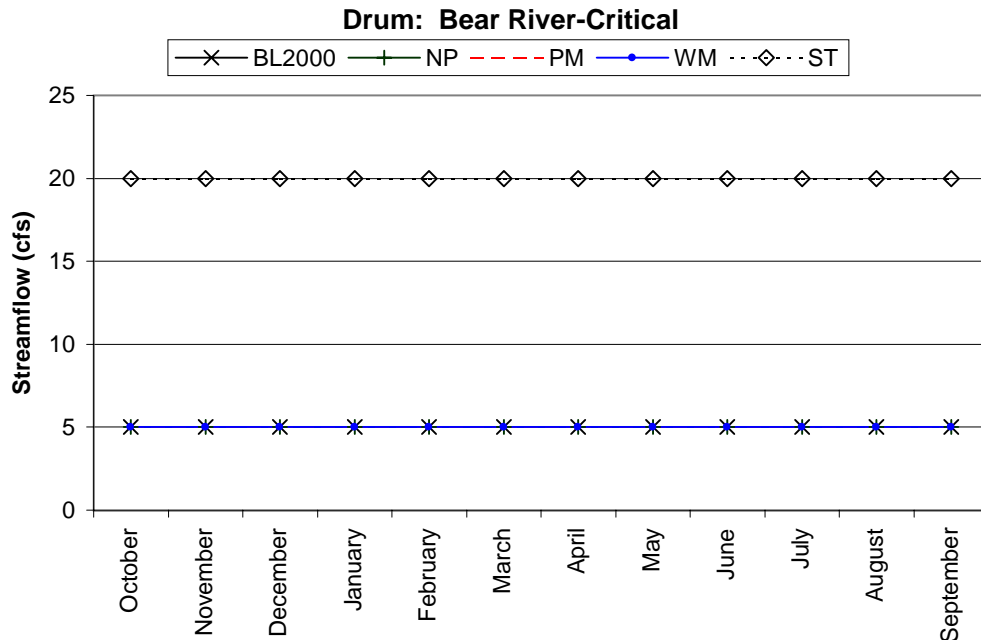
Drum: Appendix Figure-6 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



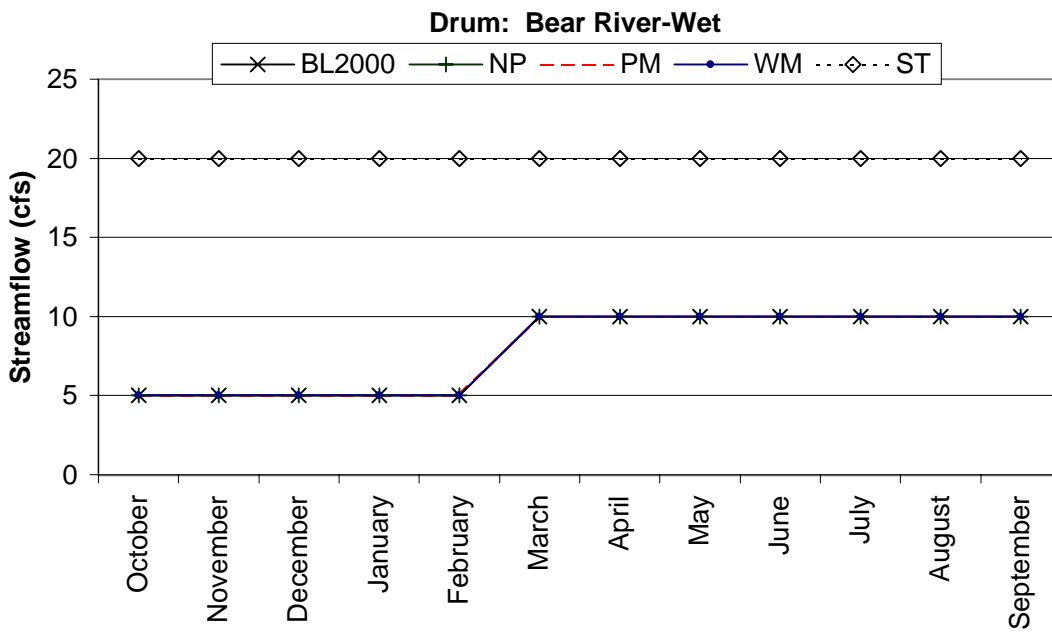
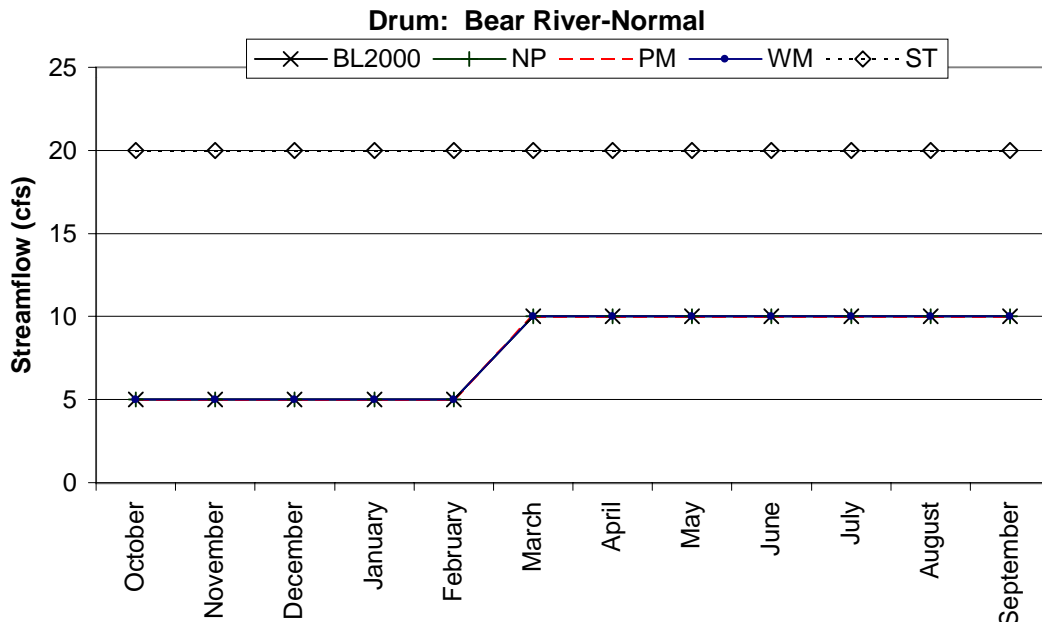
Drum: Appendix Figure-7 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



Drum: Appendix Figure-8 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

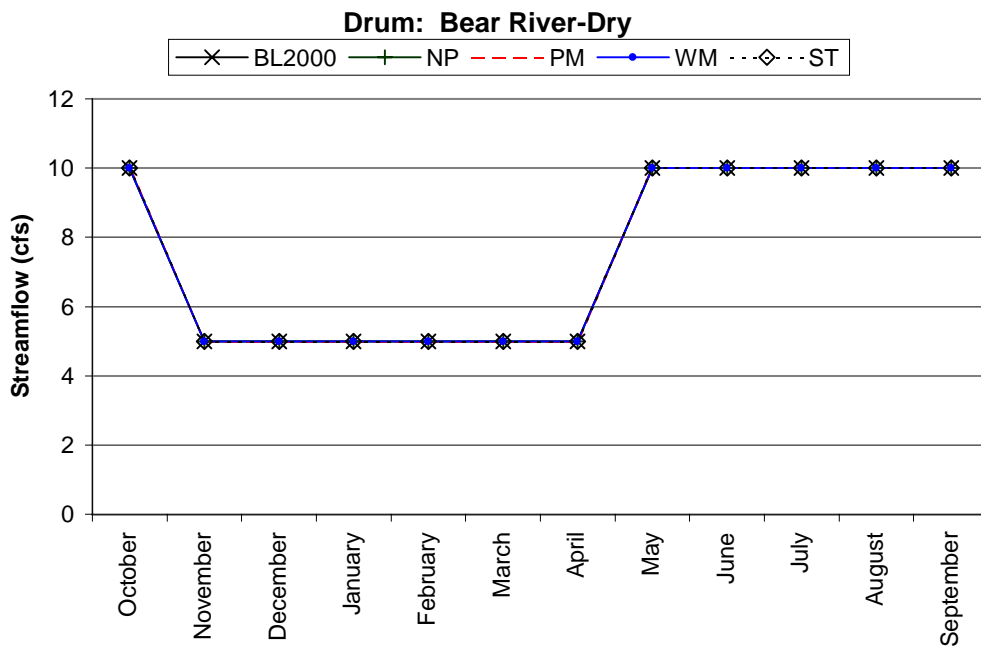
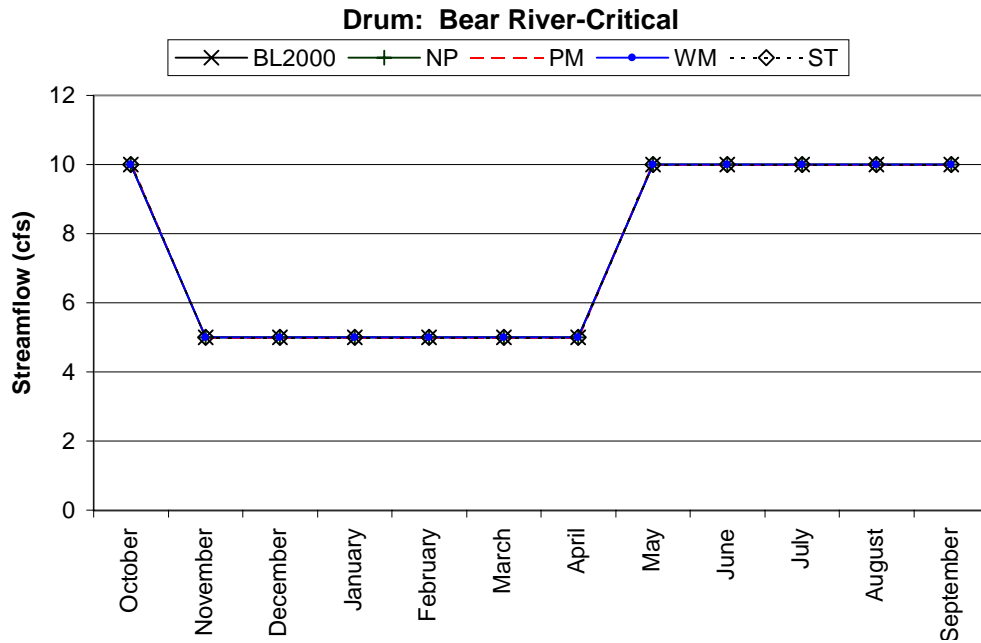


Drum: Appendix Figure-9 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

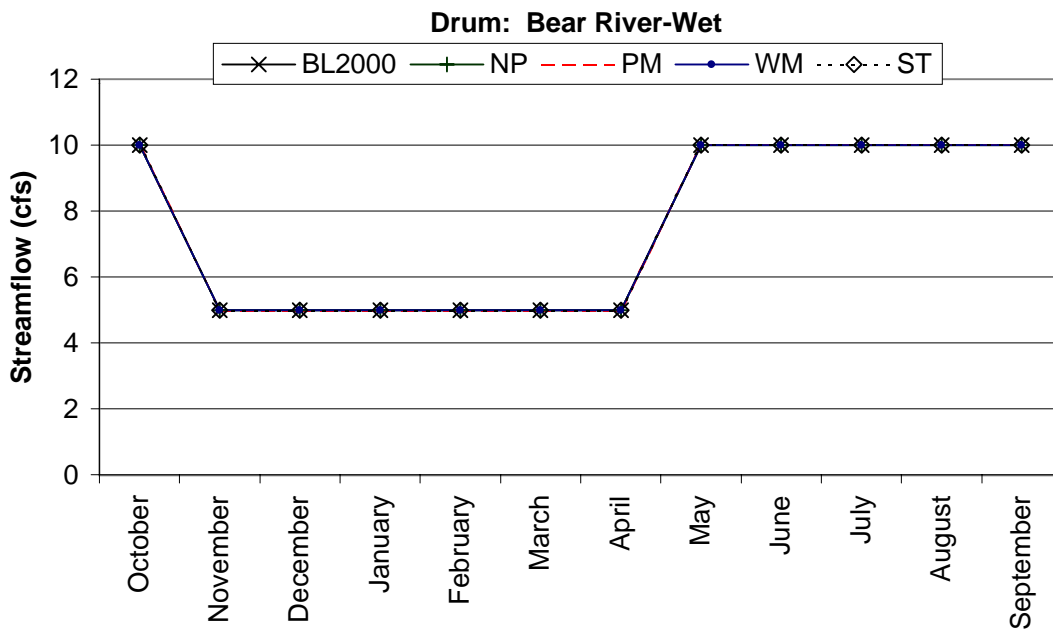
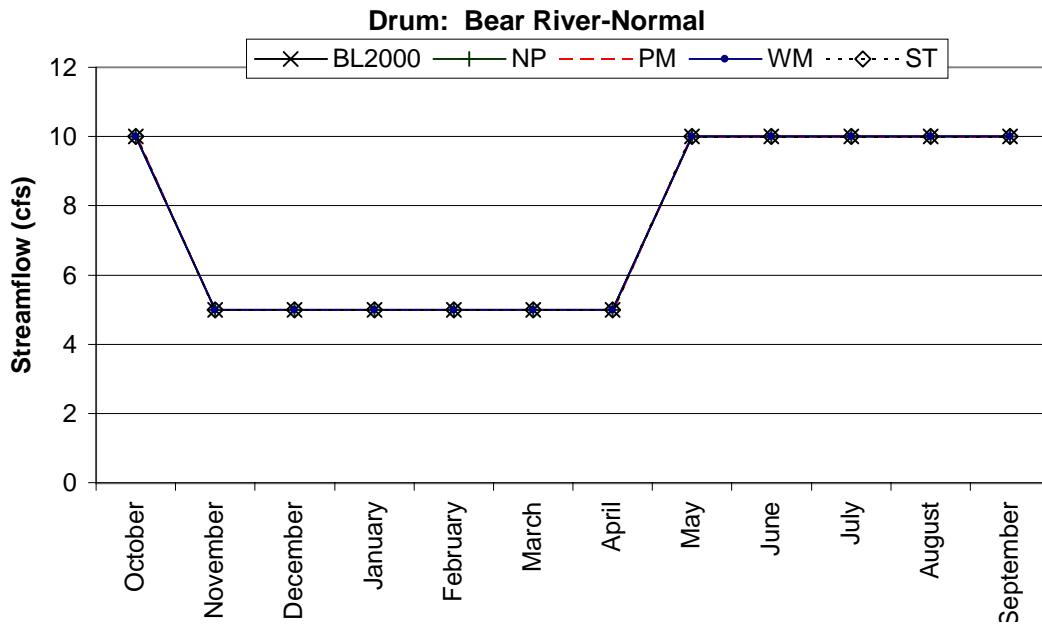


Drum: Appendix Figure-10 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

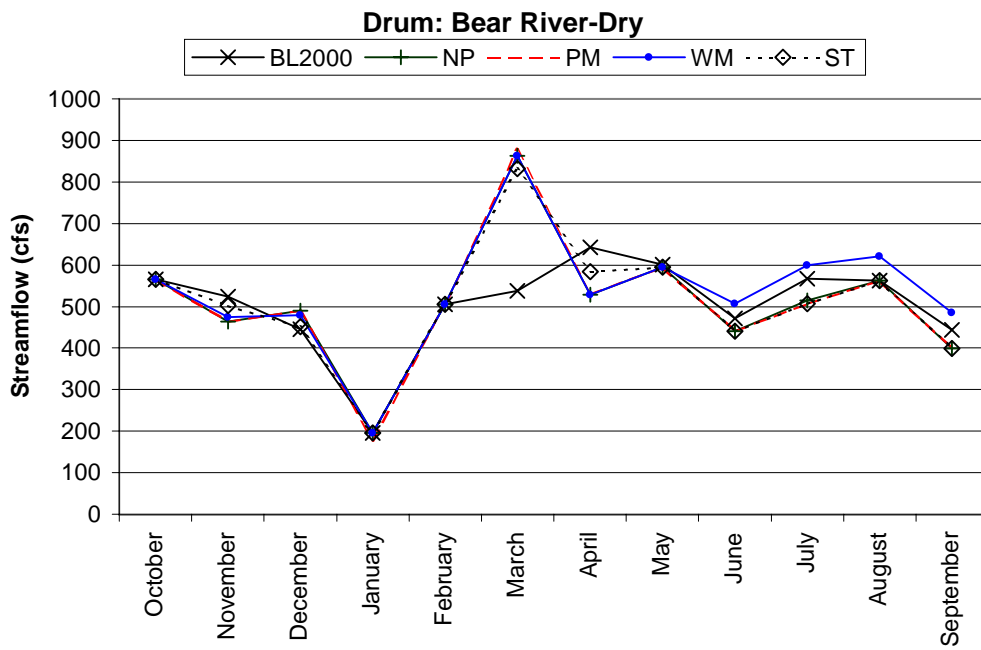
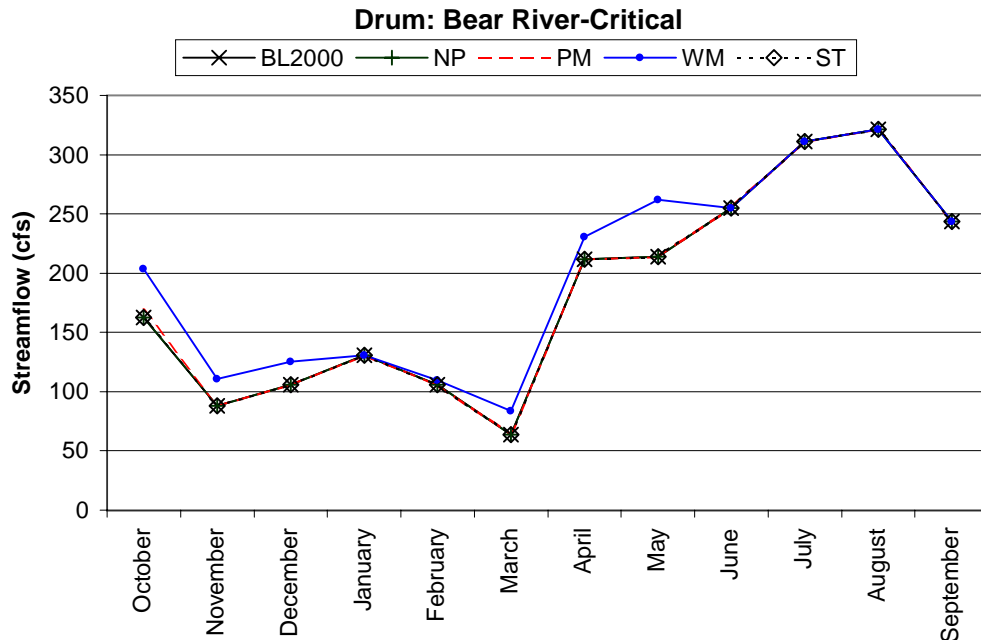




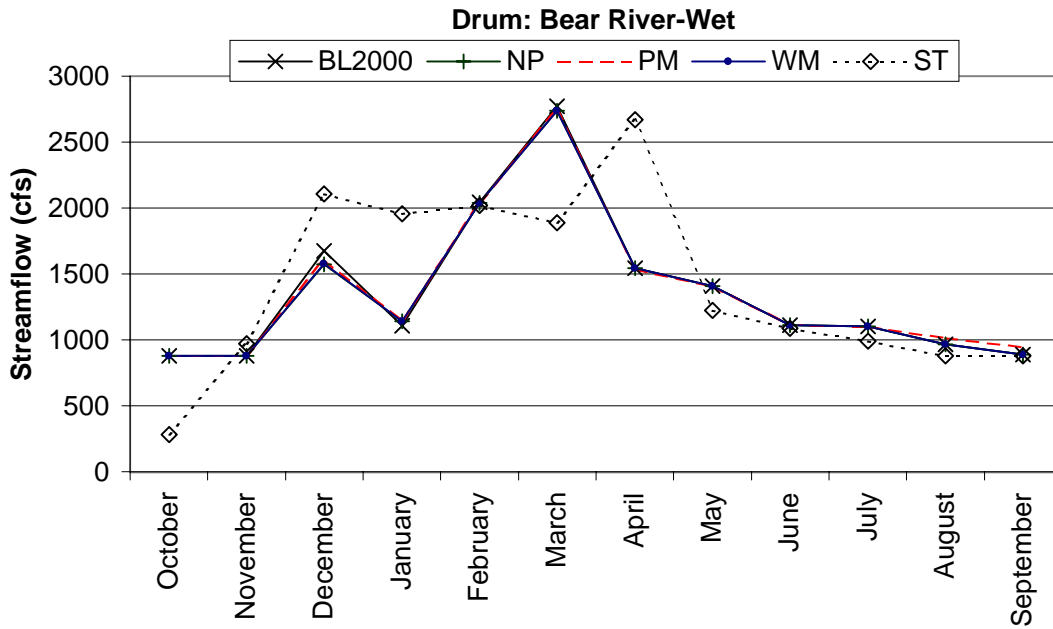
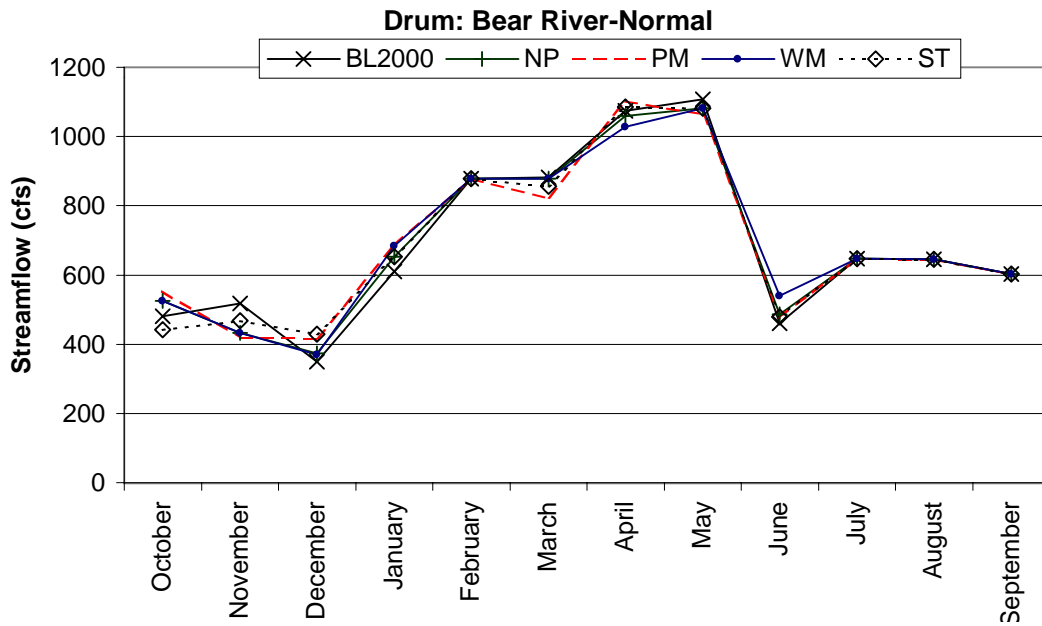
Drum: Appendix Figure-11 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



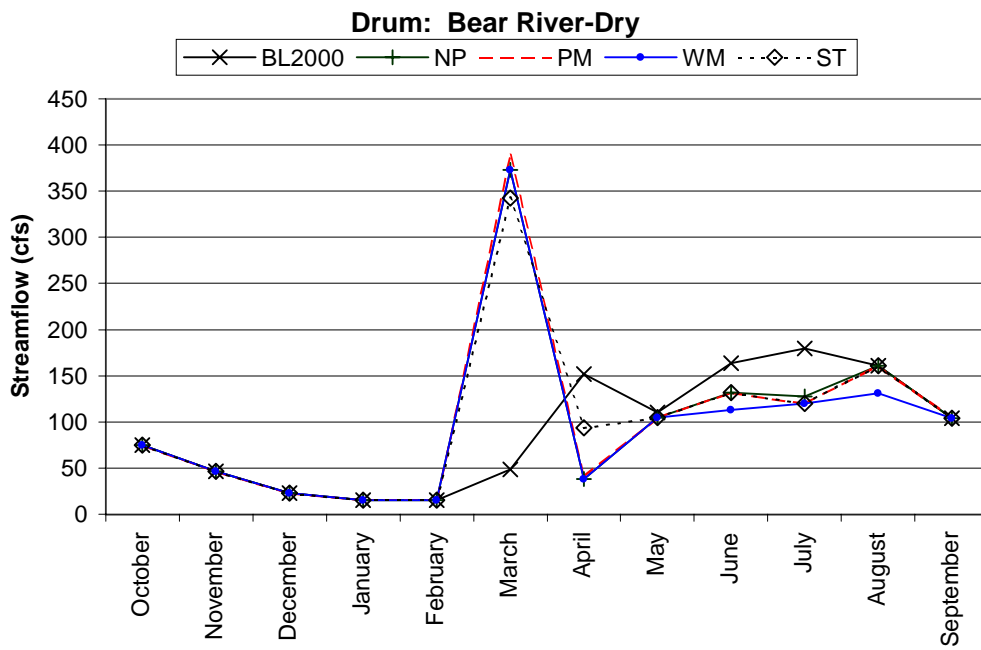
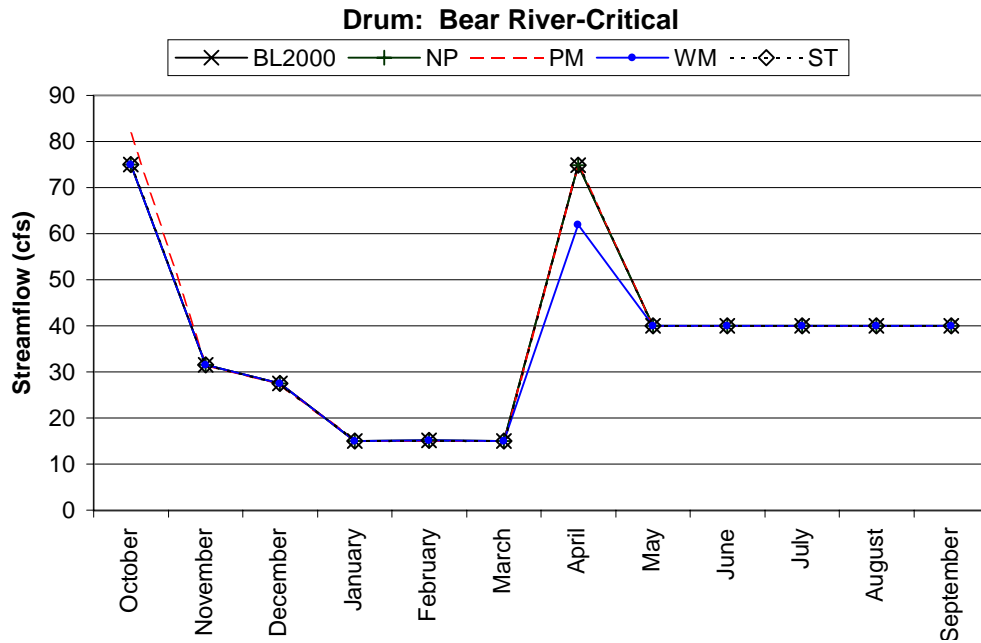
Drum: Appendix Figure-12 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



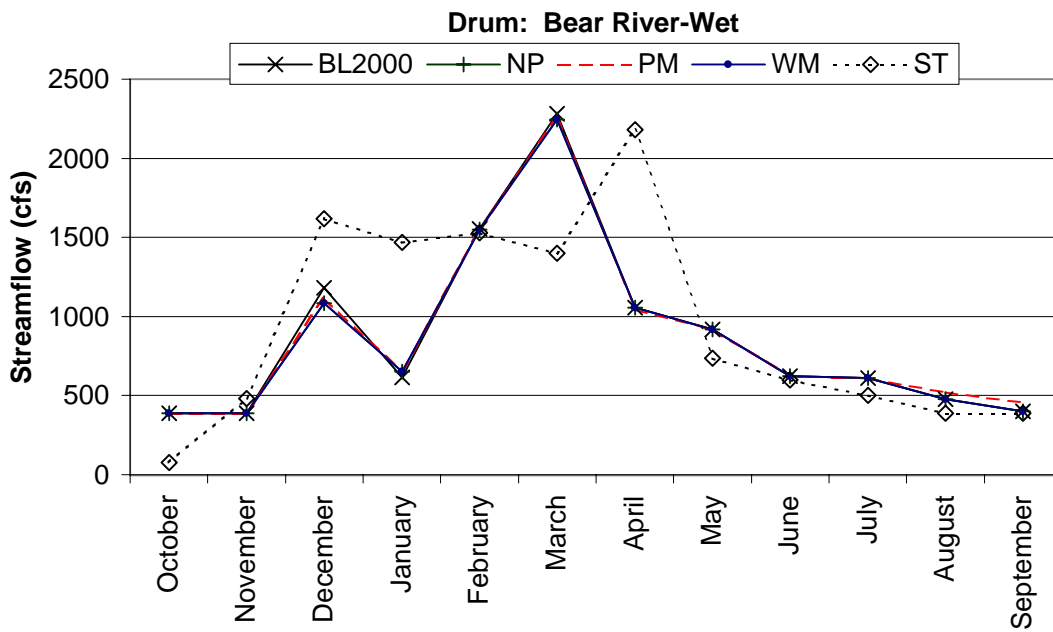
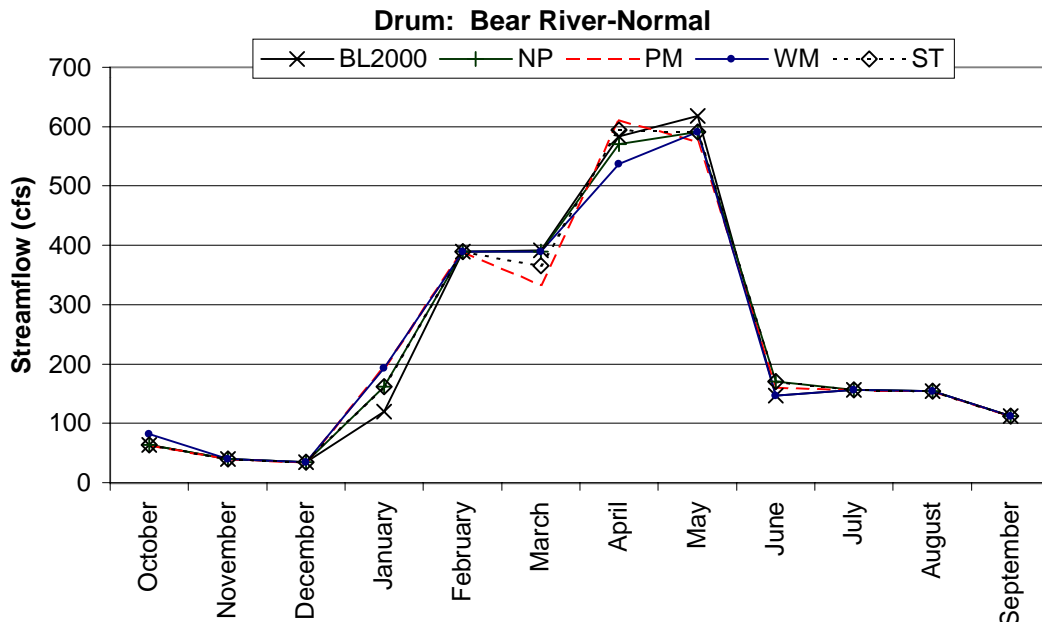
Drum: Appendix Figure-13 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



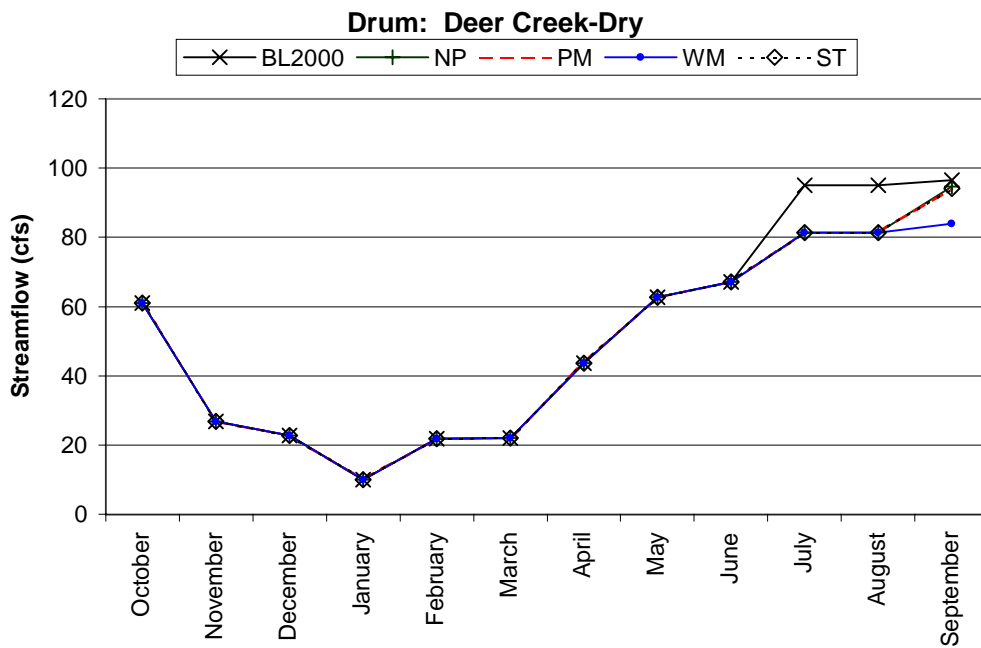
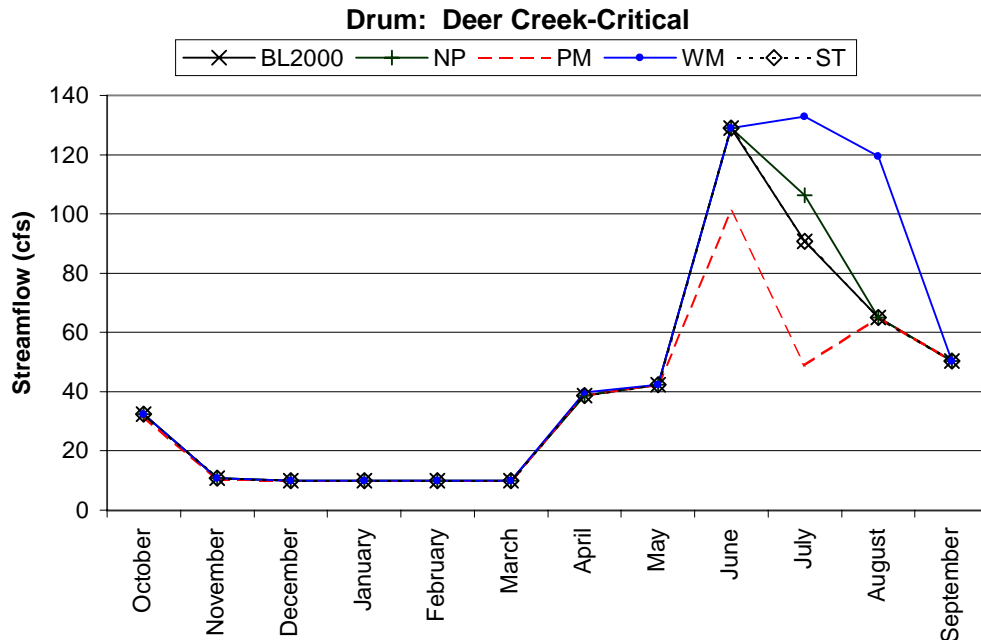
Drum: Appendix Figure-14 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



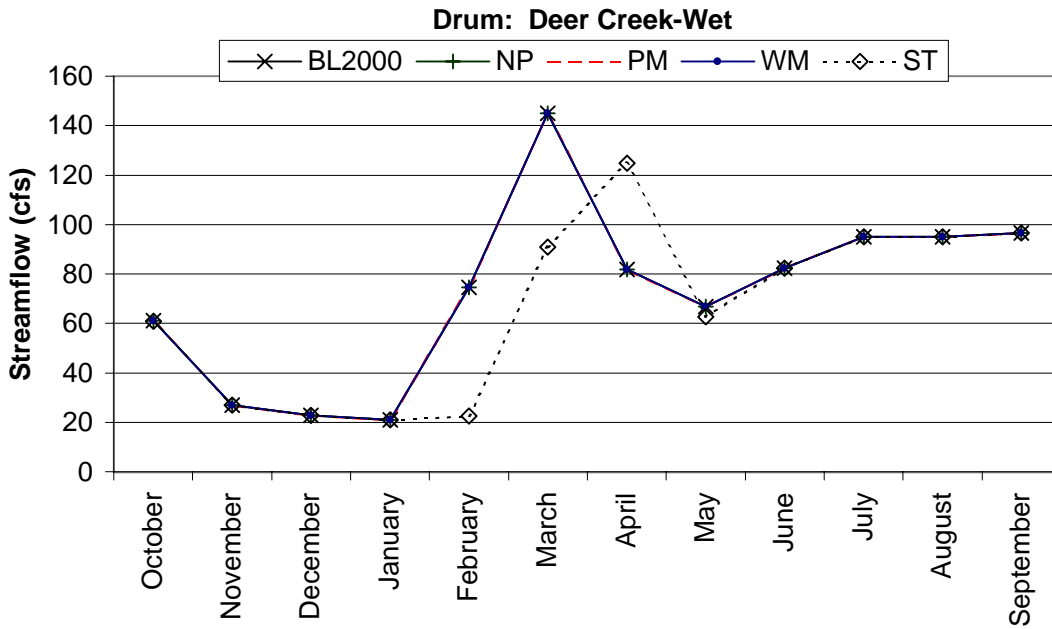
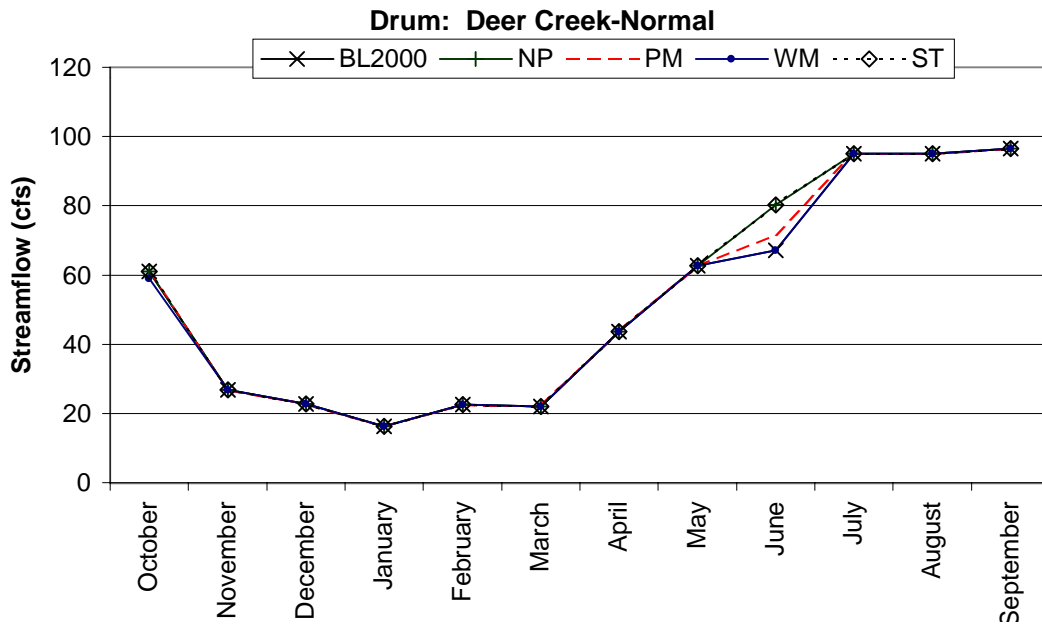
Drum: Appendix Figure-15 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



Drum: Appendix Figure-16 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

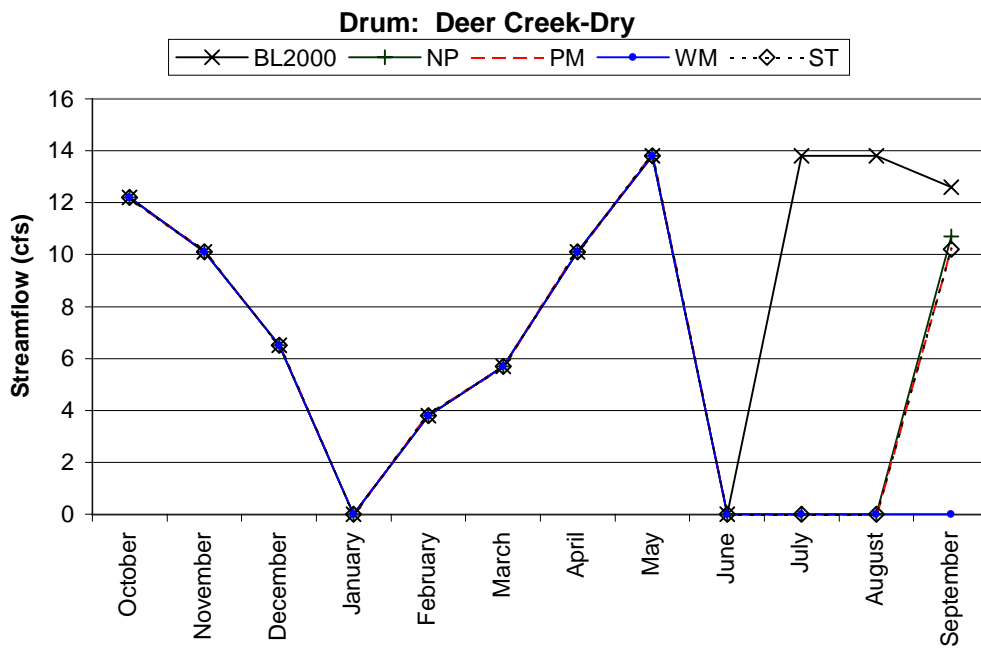
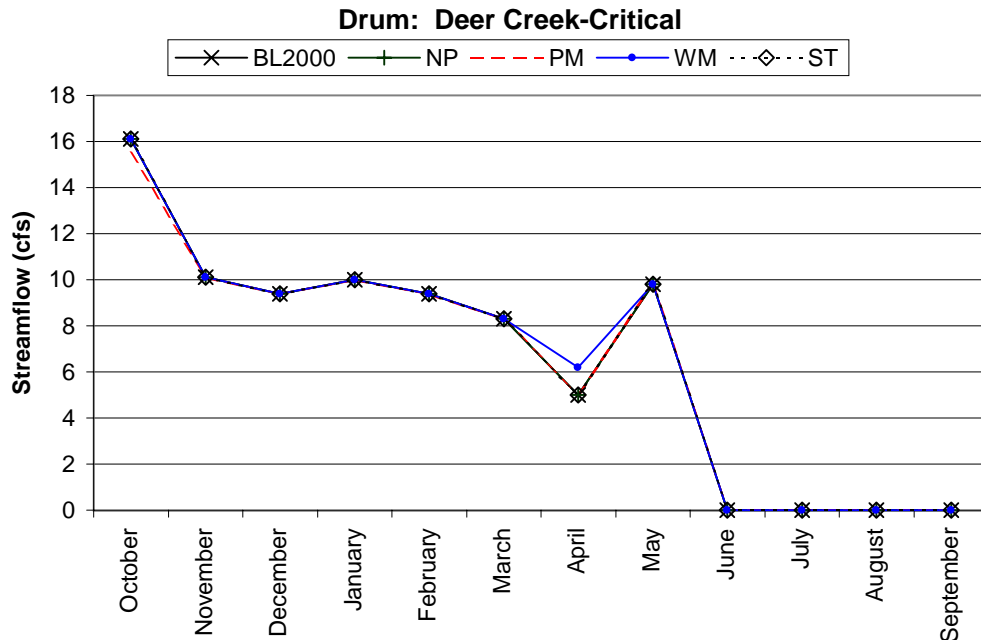


Drum: Appendix Figure-17 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

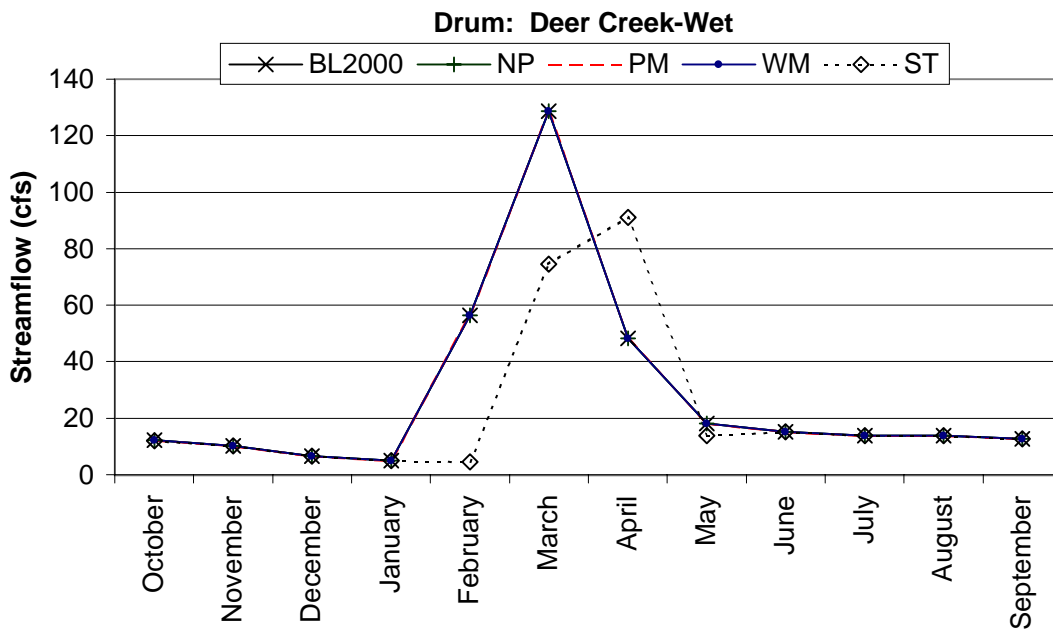
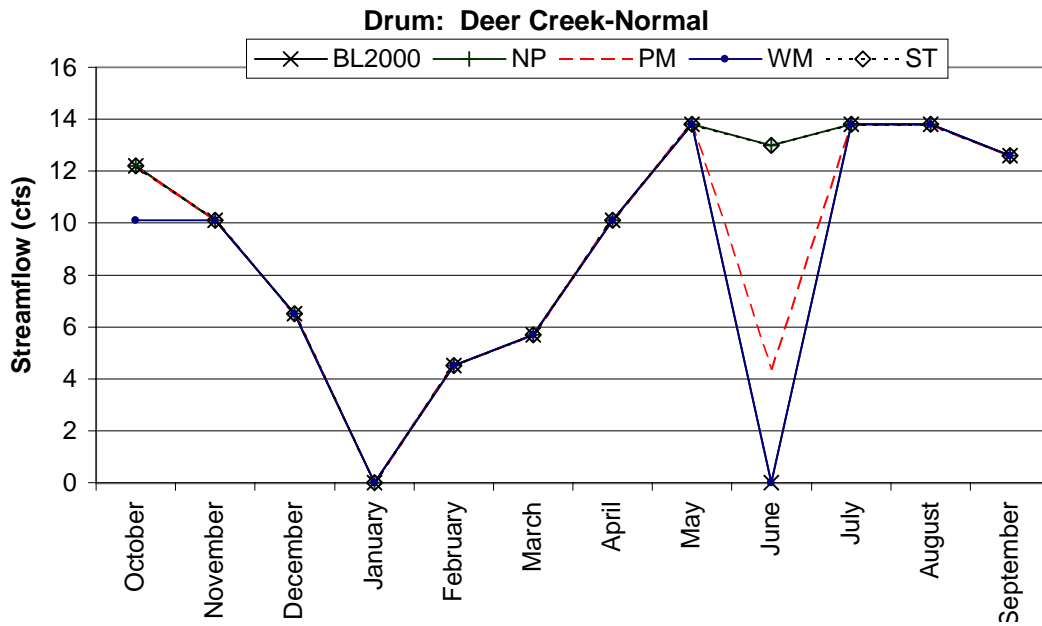


Drum: Appendix Figure-18 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

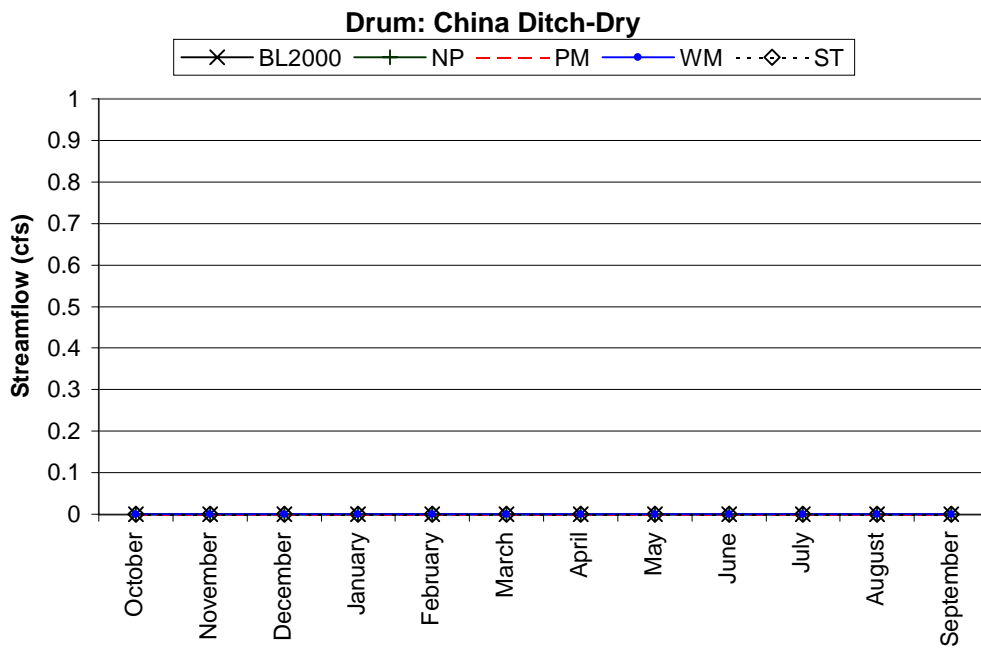
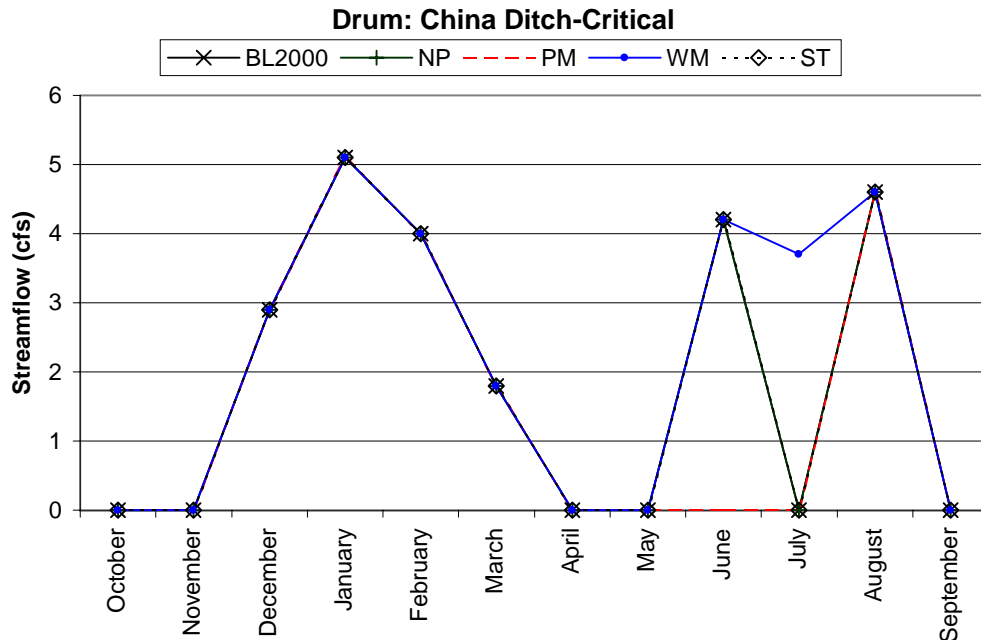




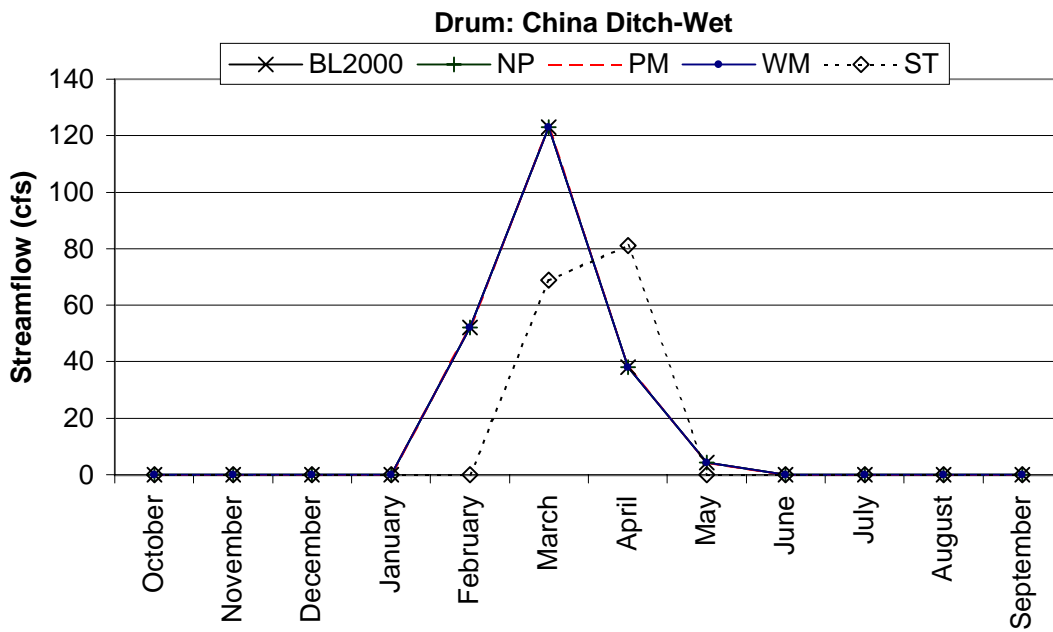
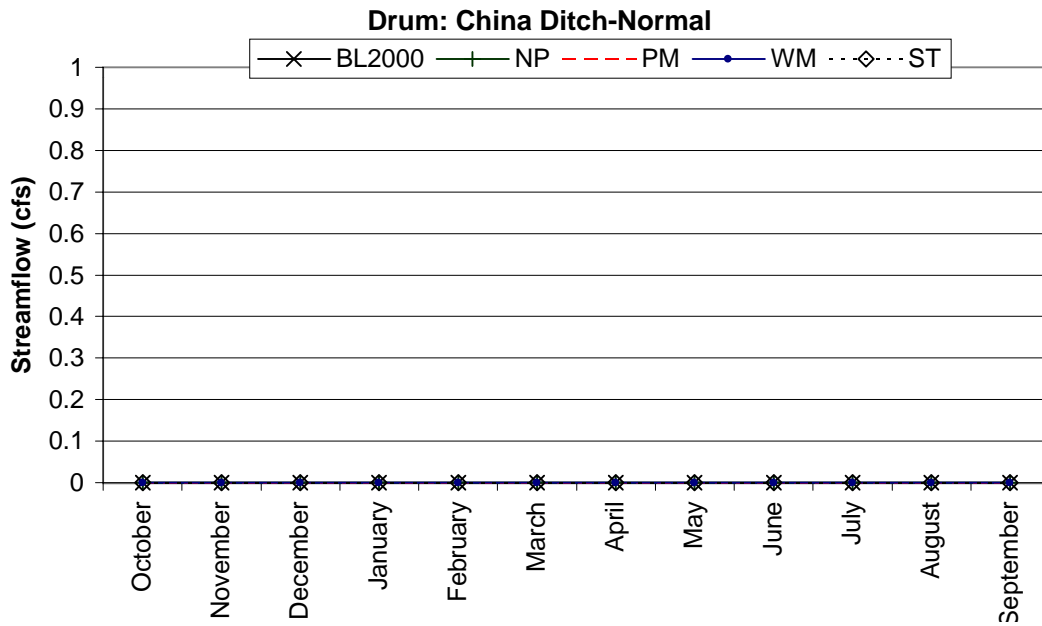
Drum: Appendix Figure-19 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



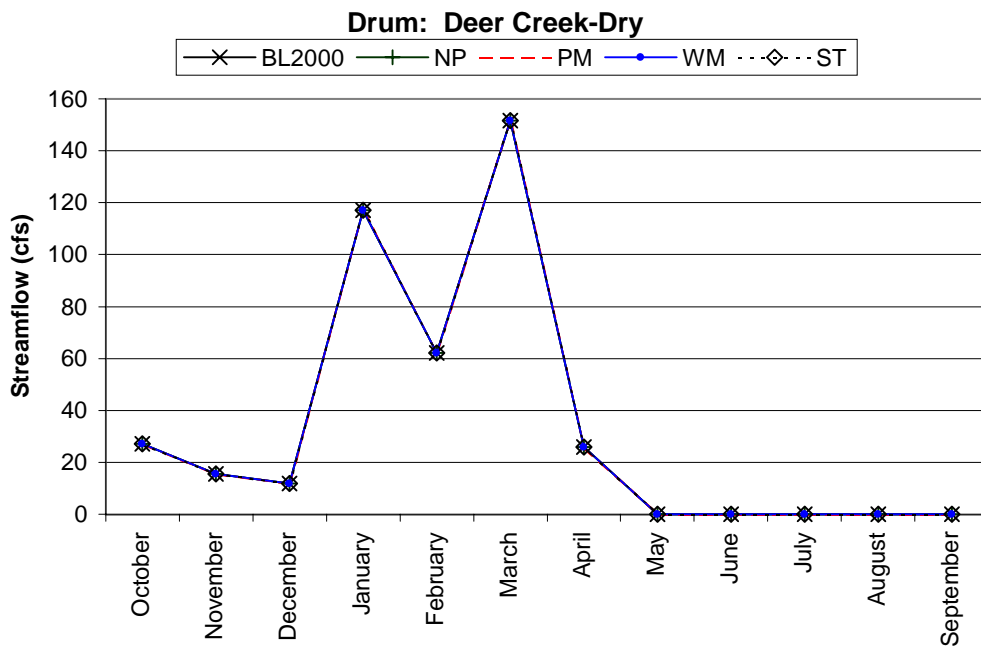
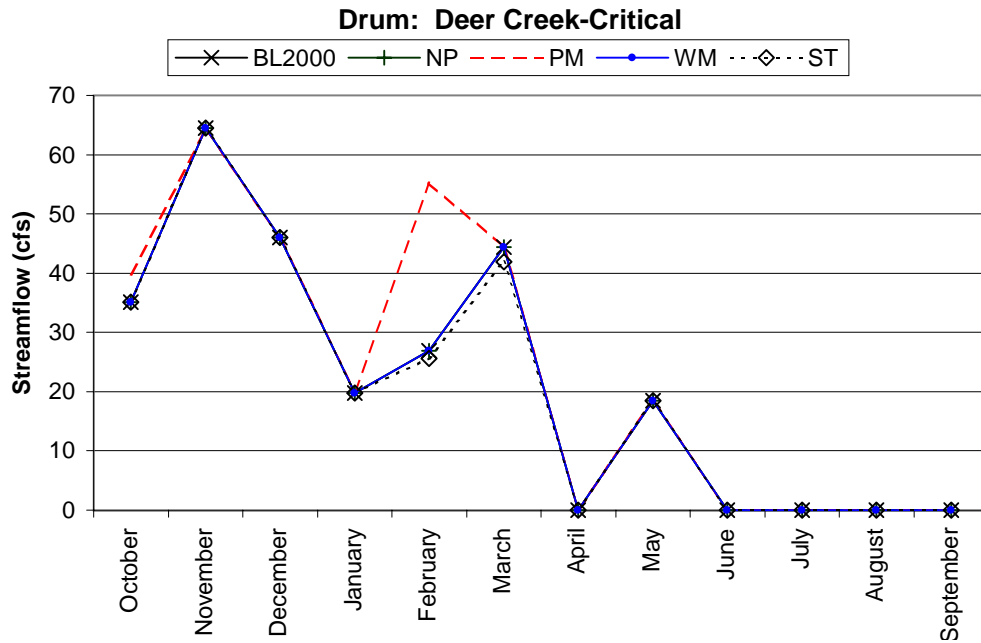
Drum: Appendix Figure-20 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



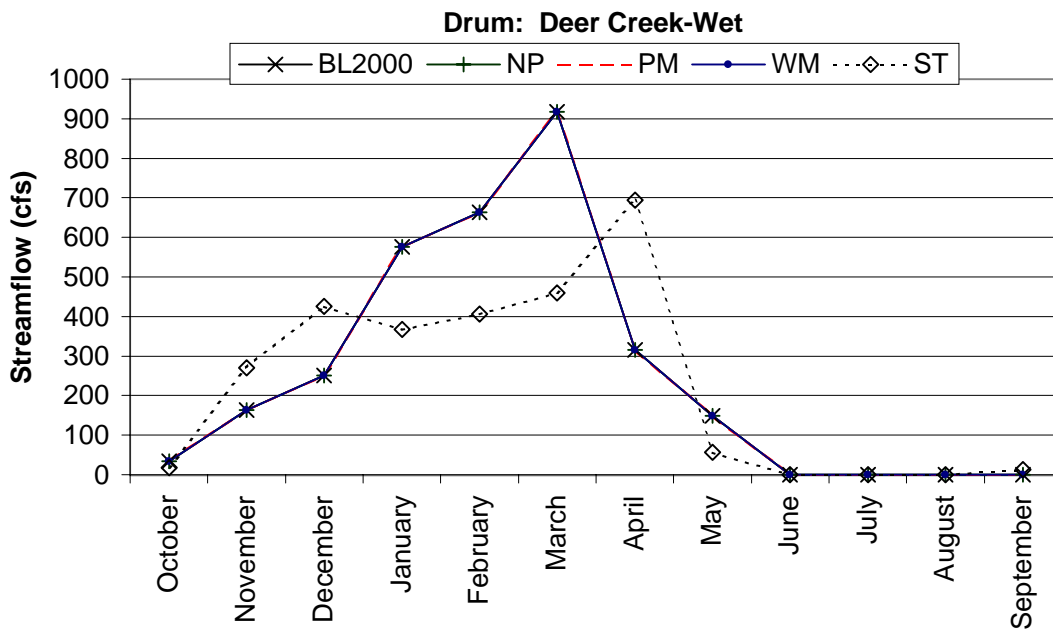
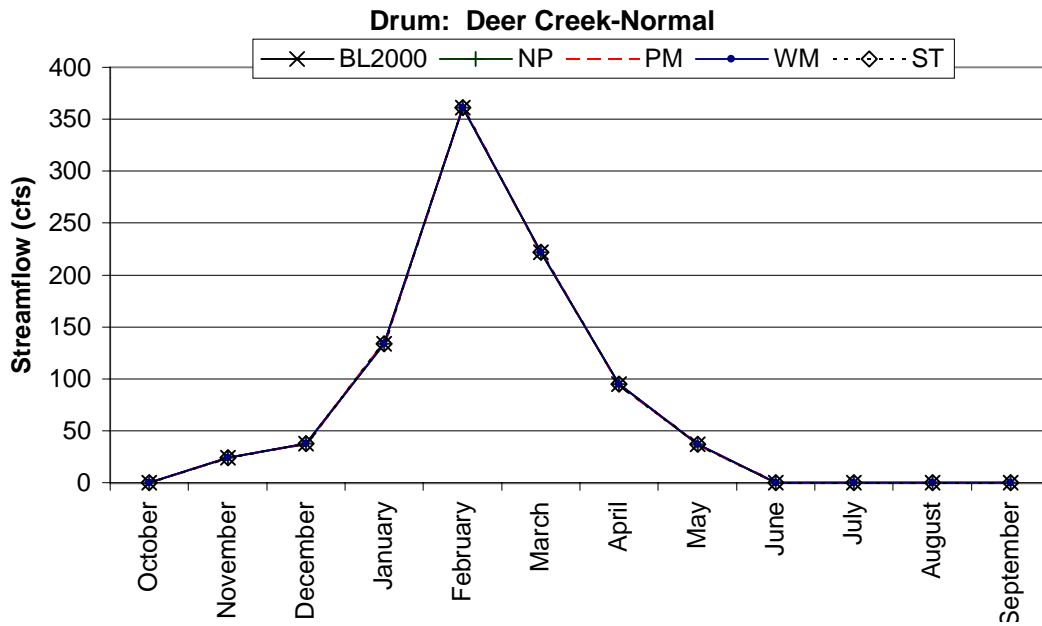
Drum: Appendix Figure-21 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



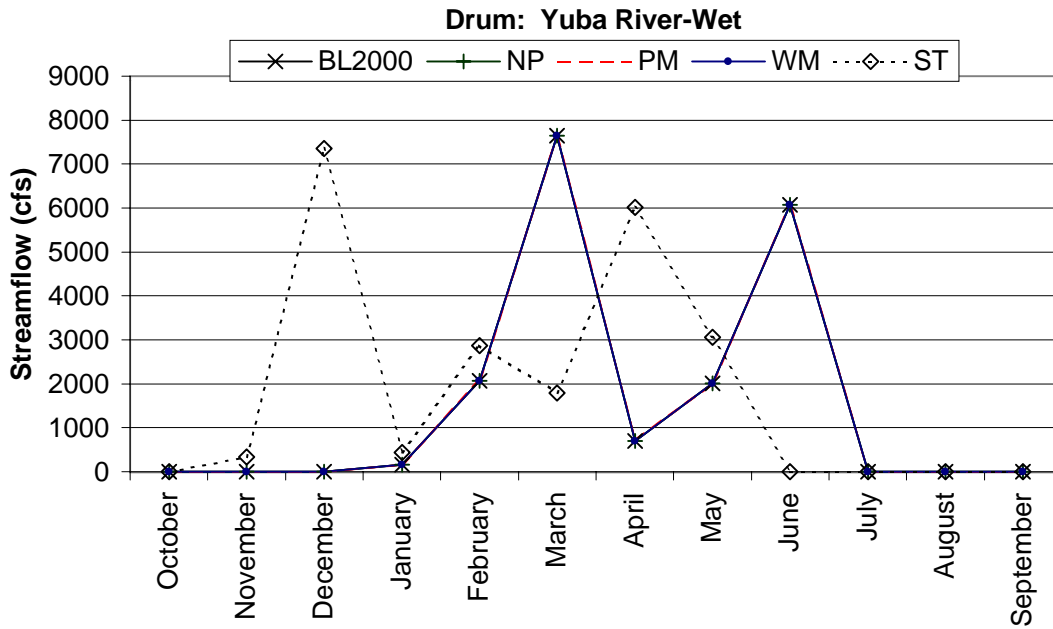
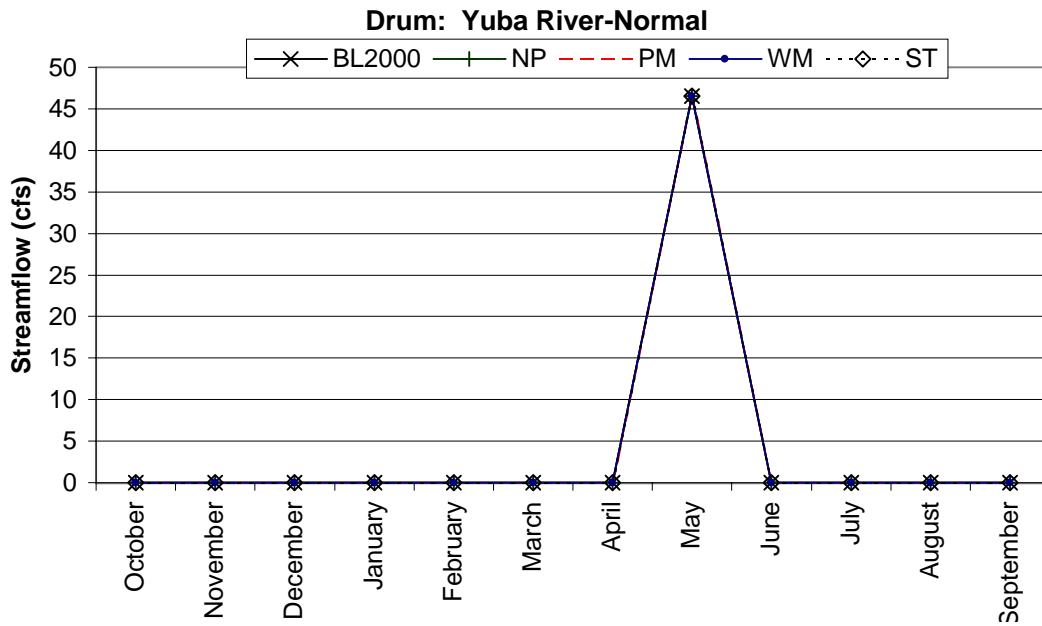
Drum: Appendix Figure-22 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



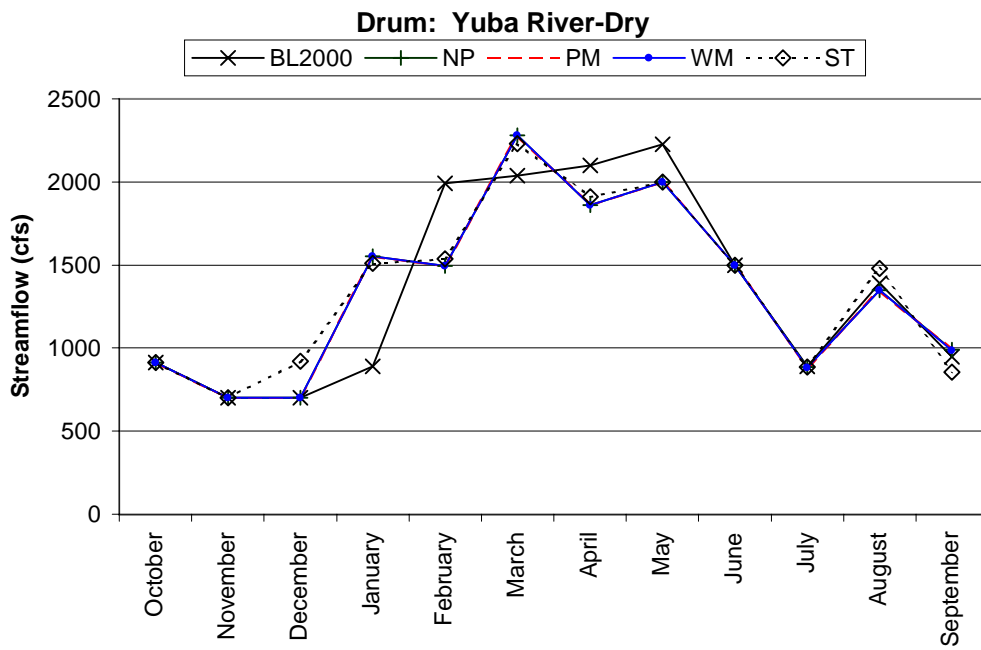
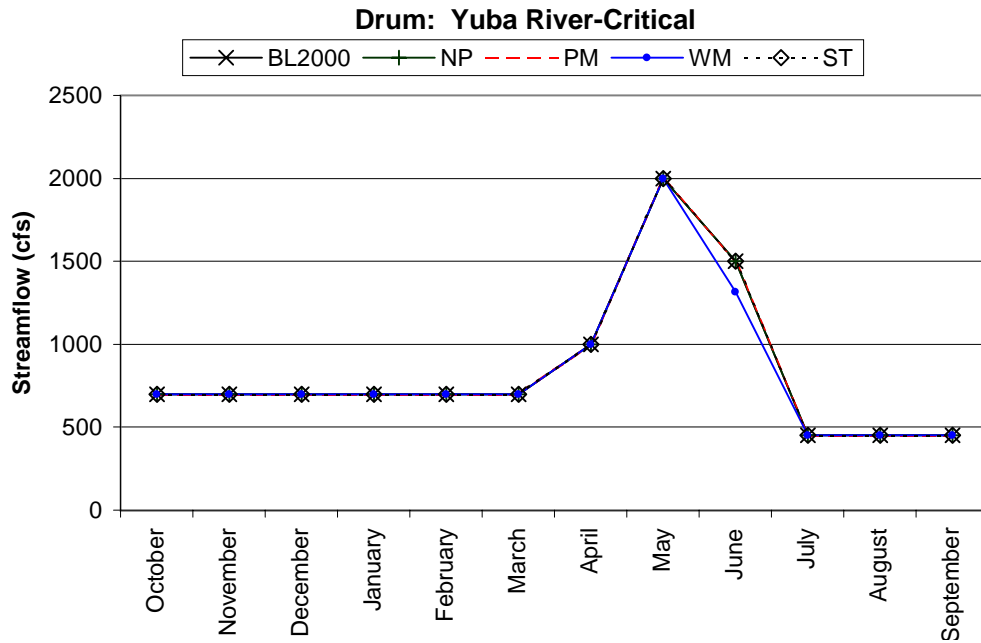
Drum: Appendix Figure-23 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



Drum: Appendix Figure-24 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

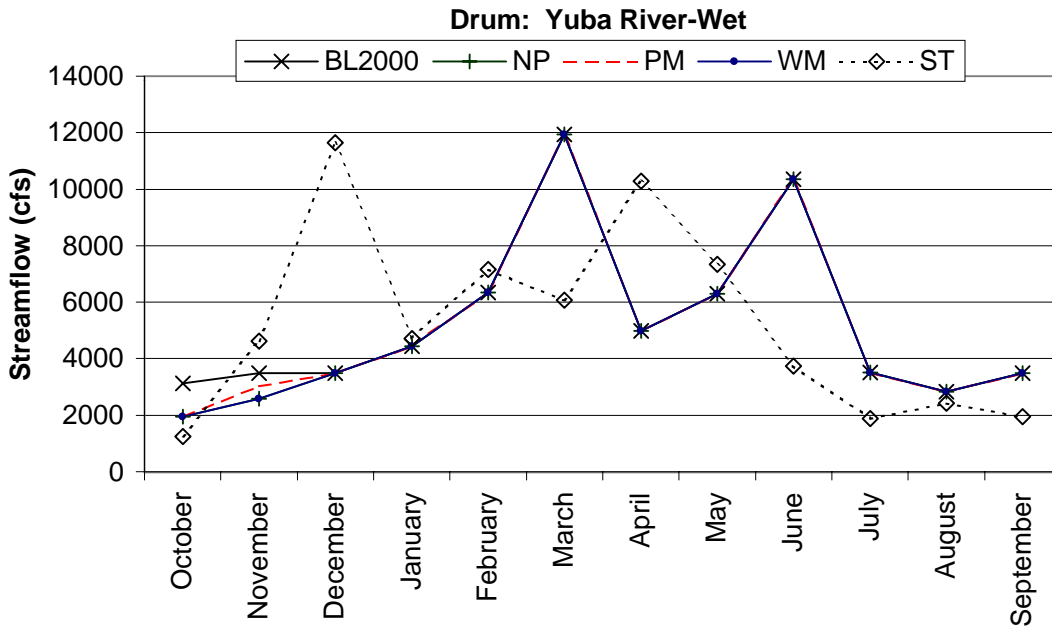
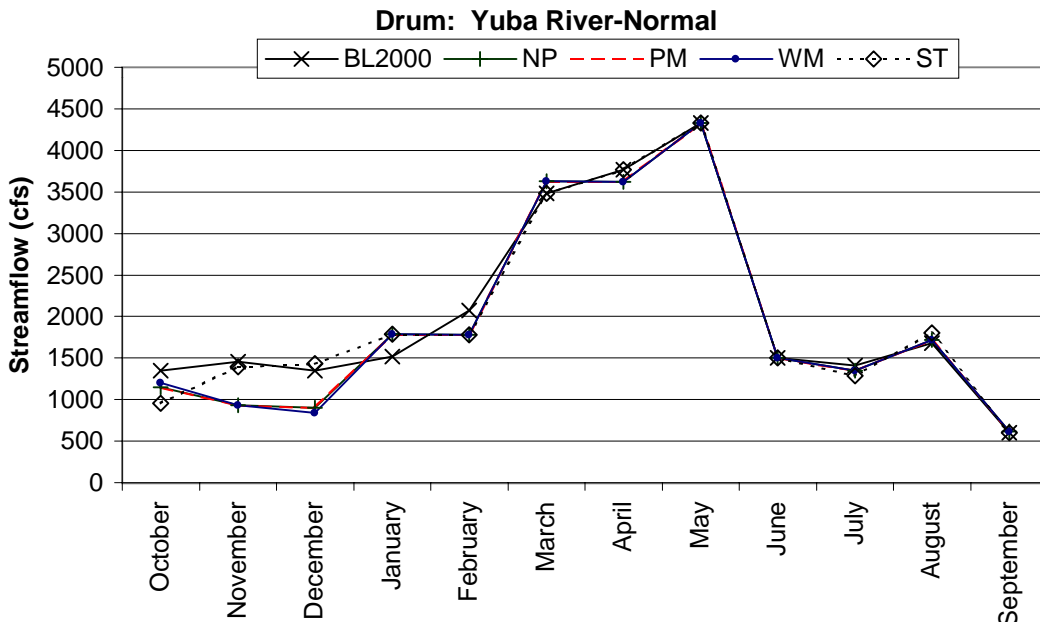


Drum: Appendix Figure-26 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

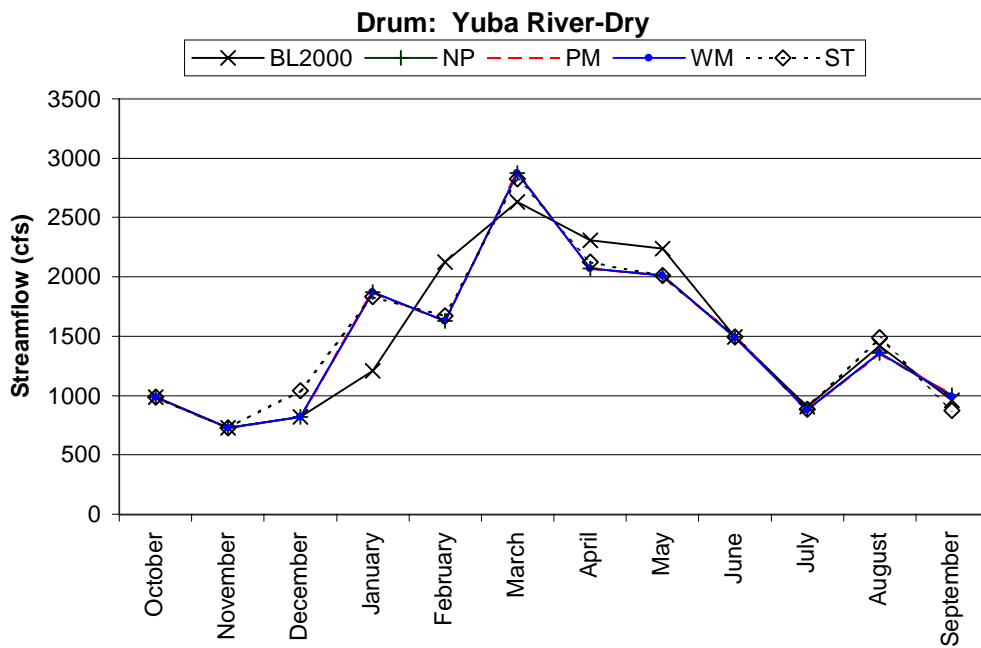
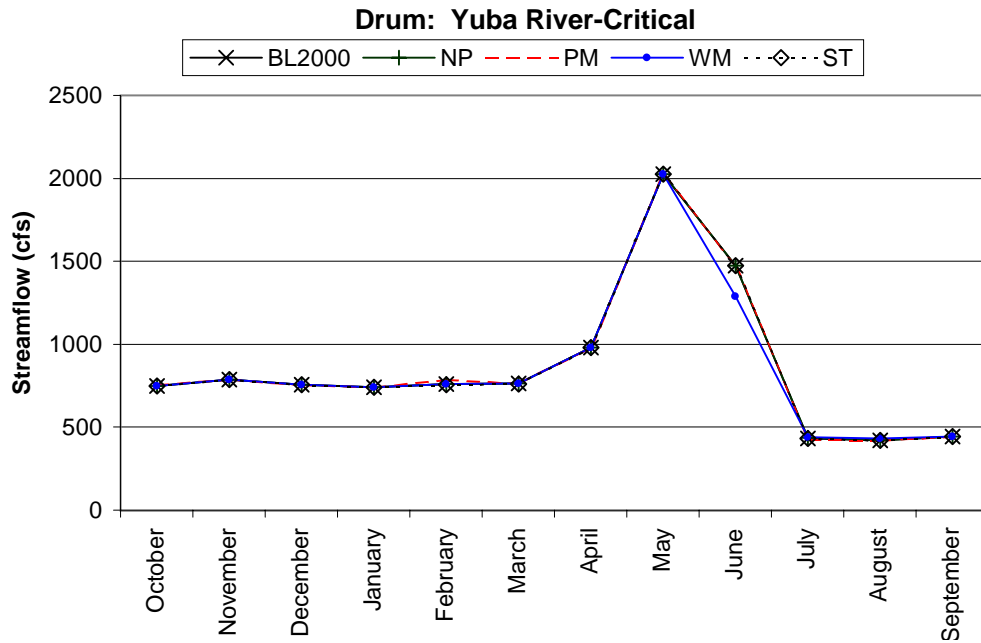


Drum: Appendix Figure-27 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

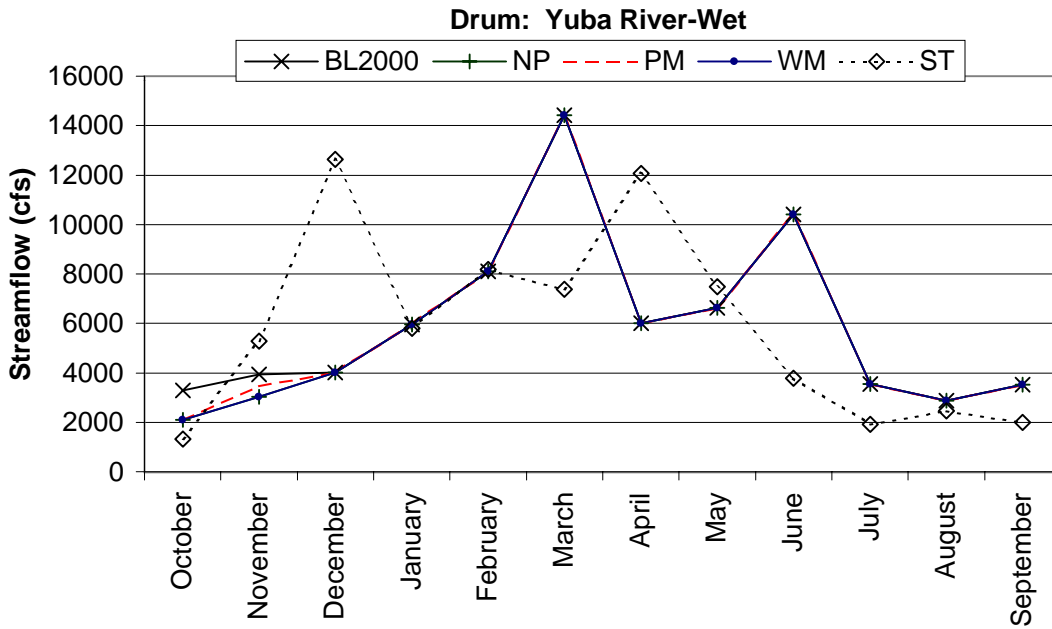
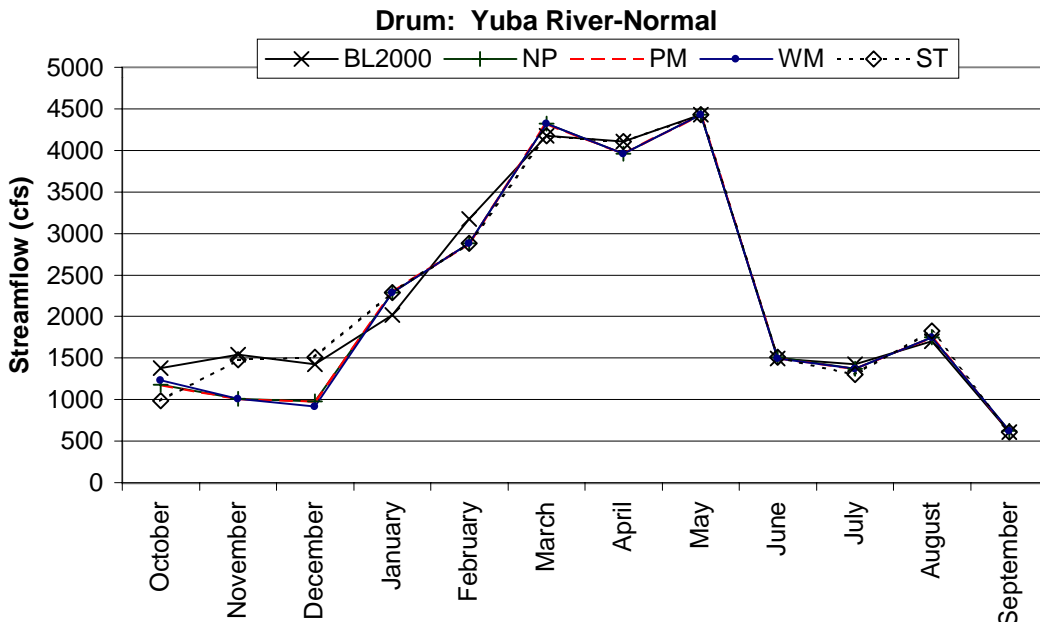




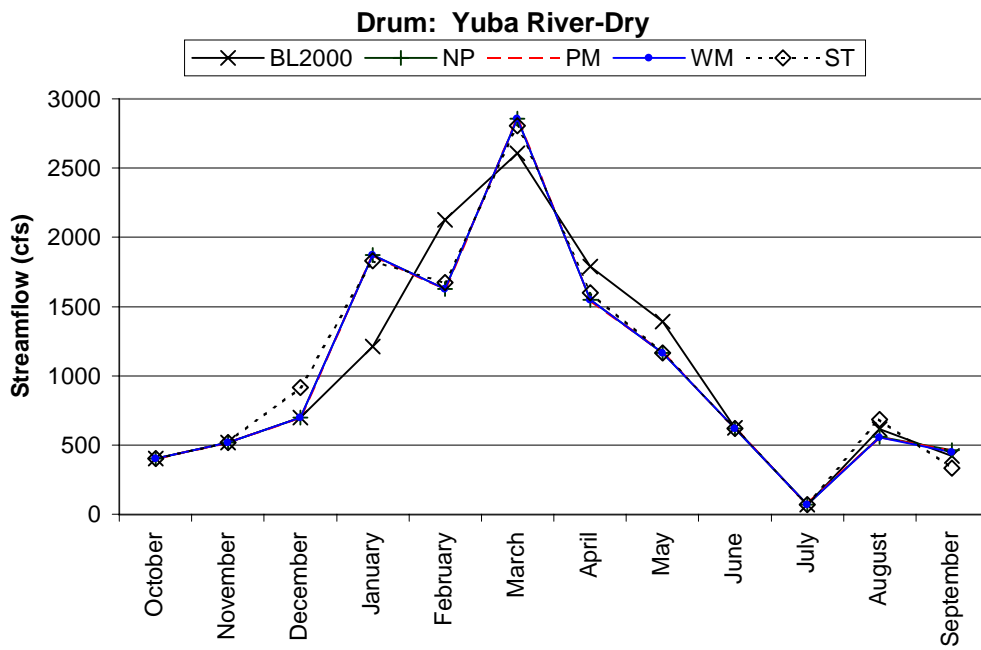
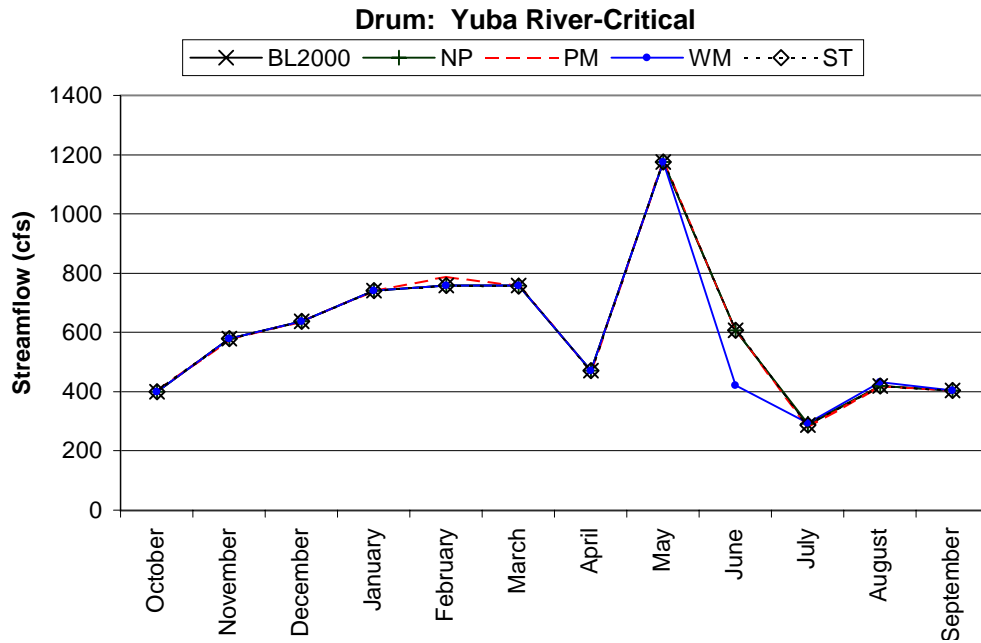
Drum: Appendix Figure-28 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



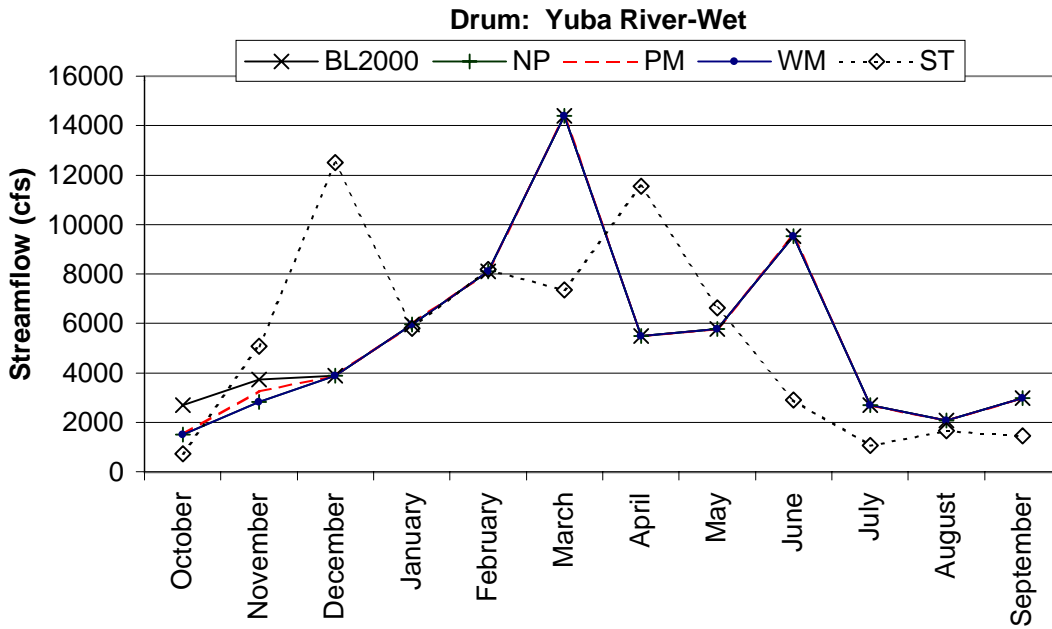
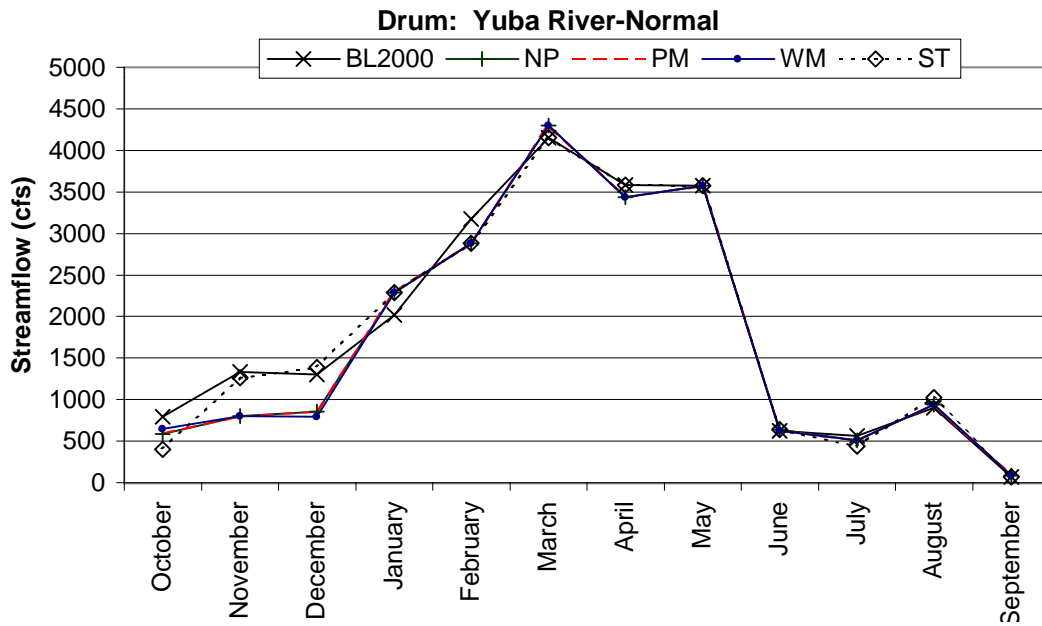
Drum: Appendix Figure-29 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



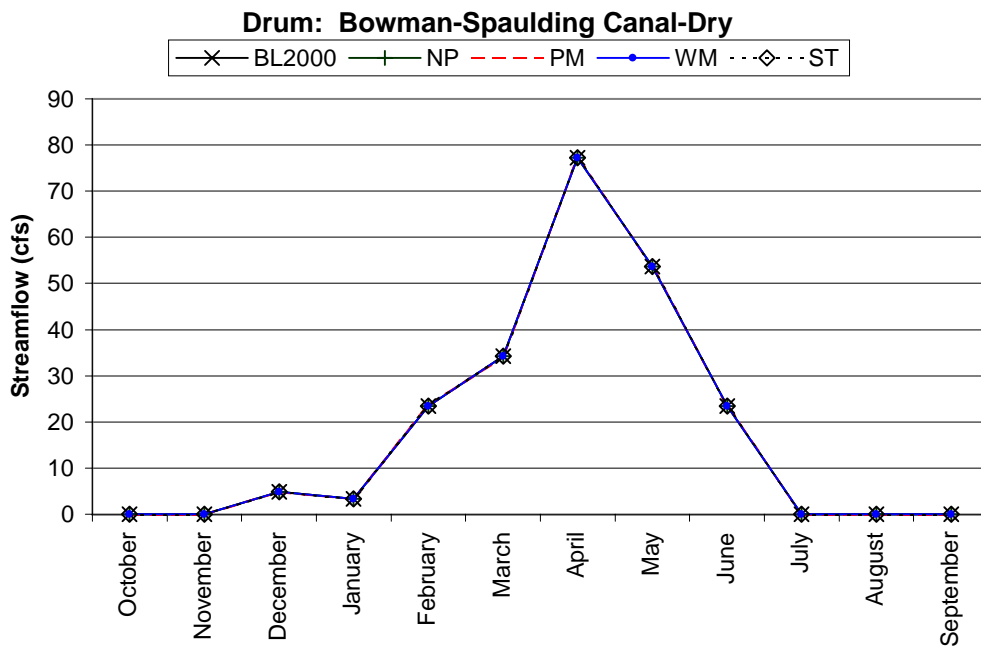
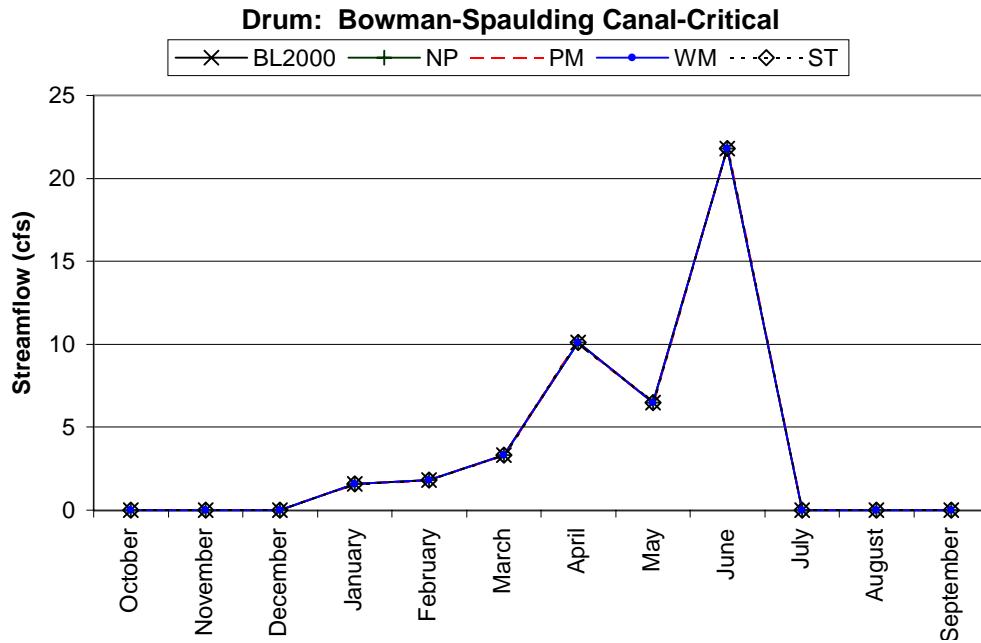
Drum: Appendix Figure-30 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



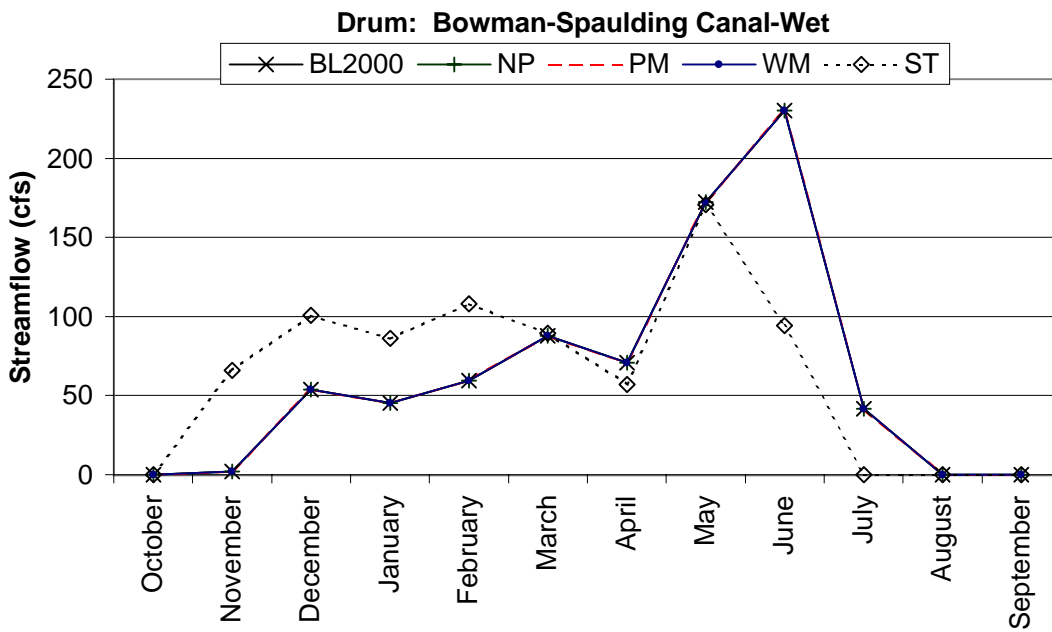
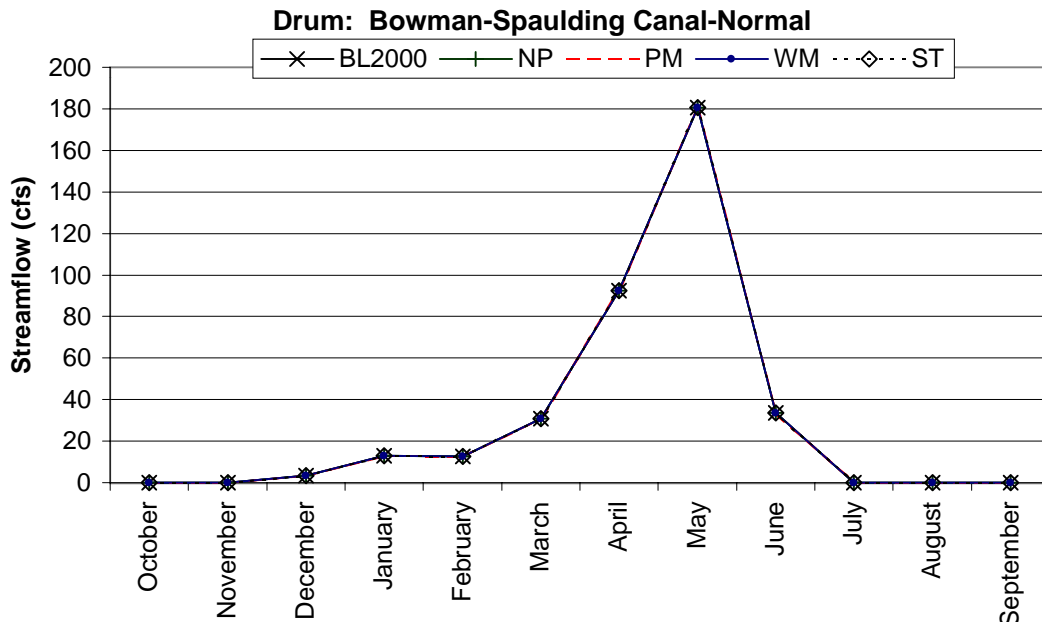
Drum: Appendix Figure-31 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



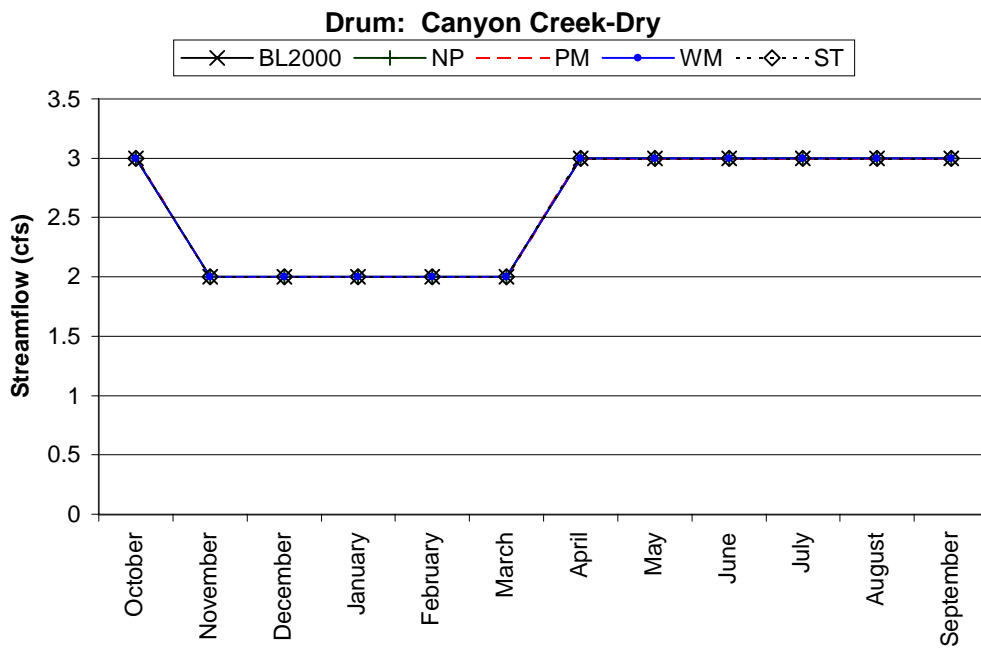
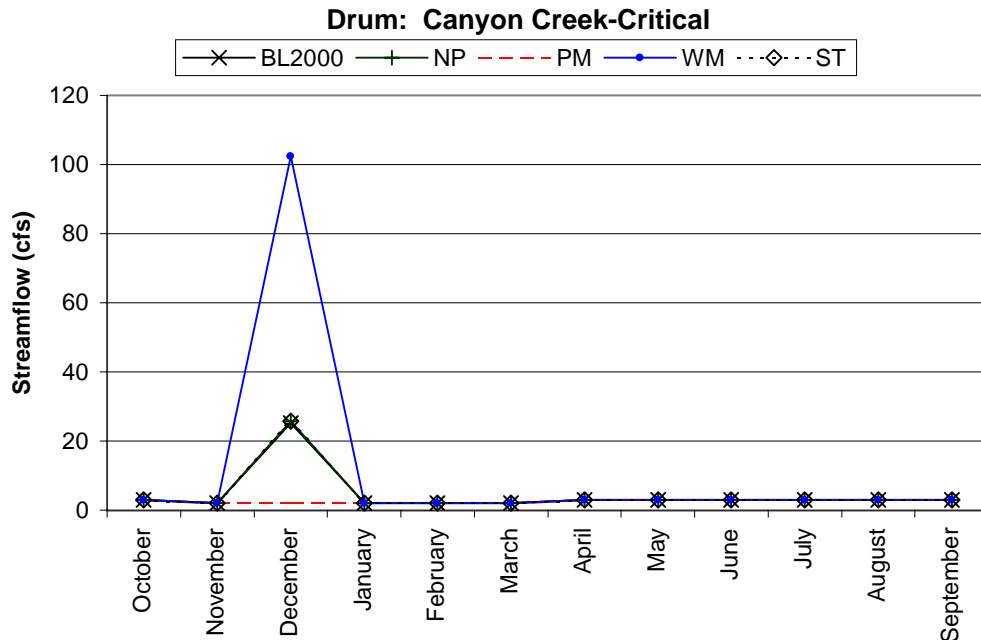
Drum: Appendix Figure-32 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



Drum: Appendix Figure-33 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

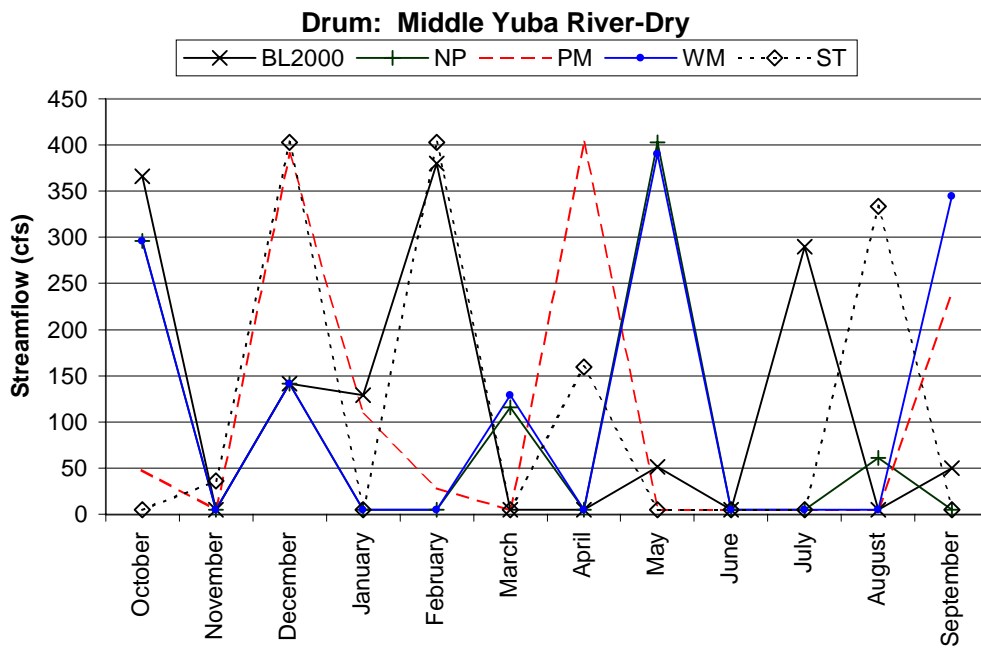
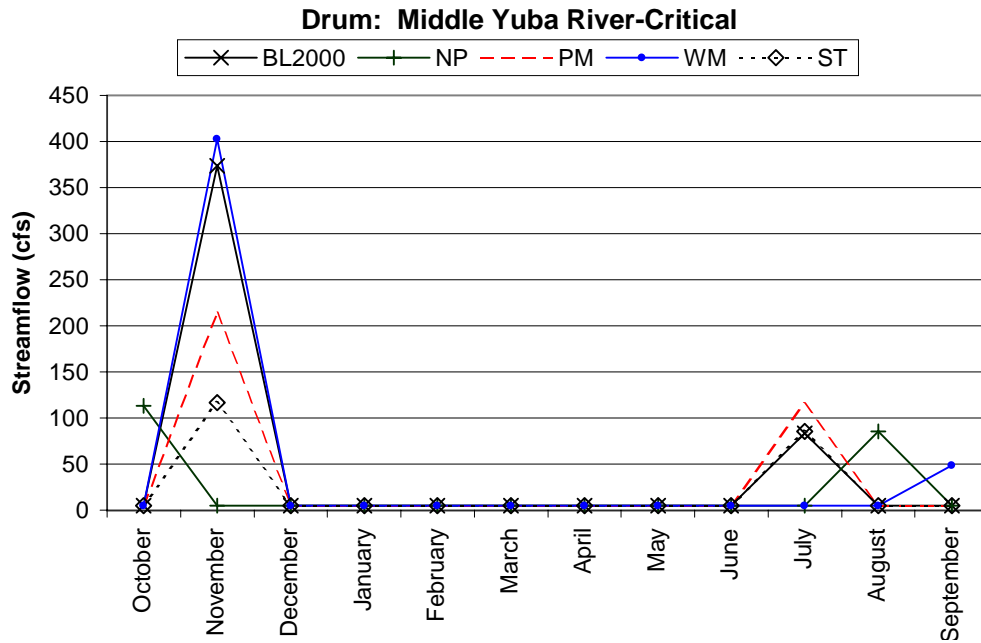


Drum: Appendix Figure-34 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

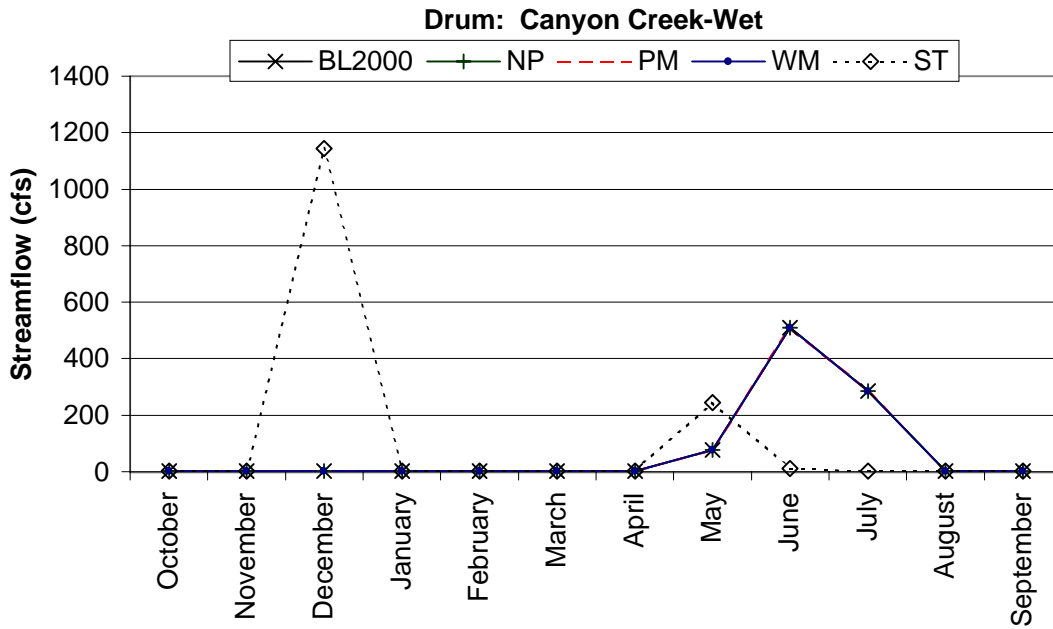
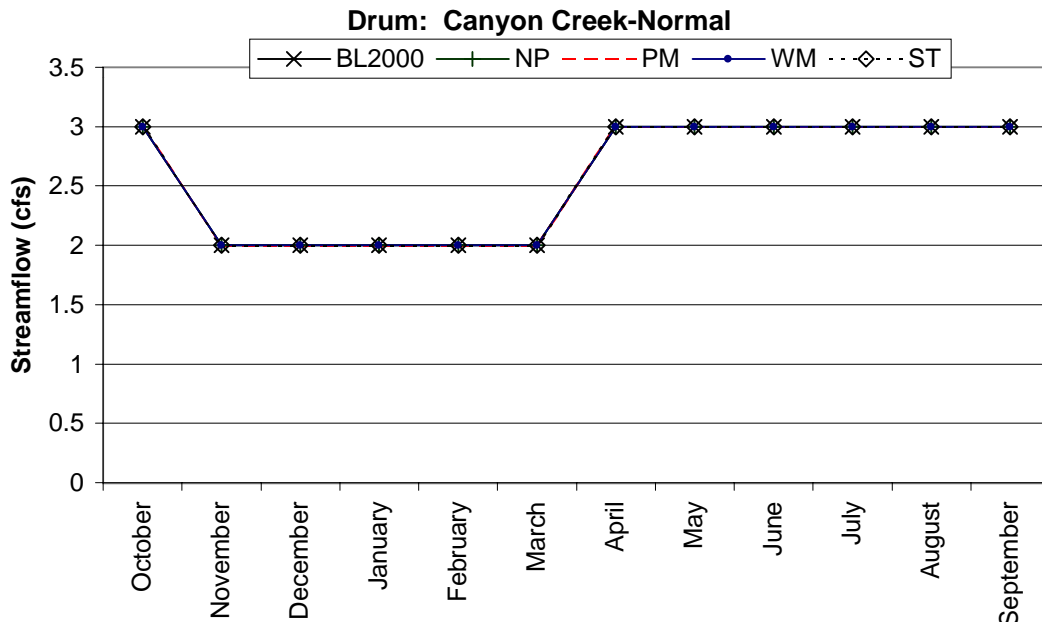


Drum: Appendix Figure-35 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

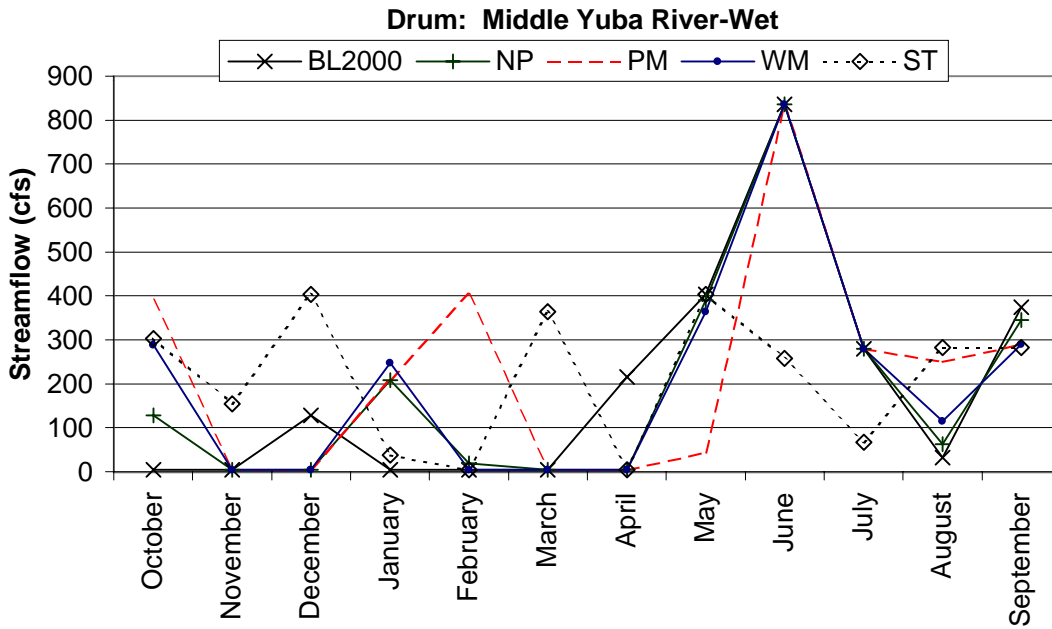
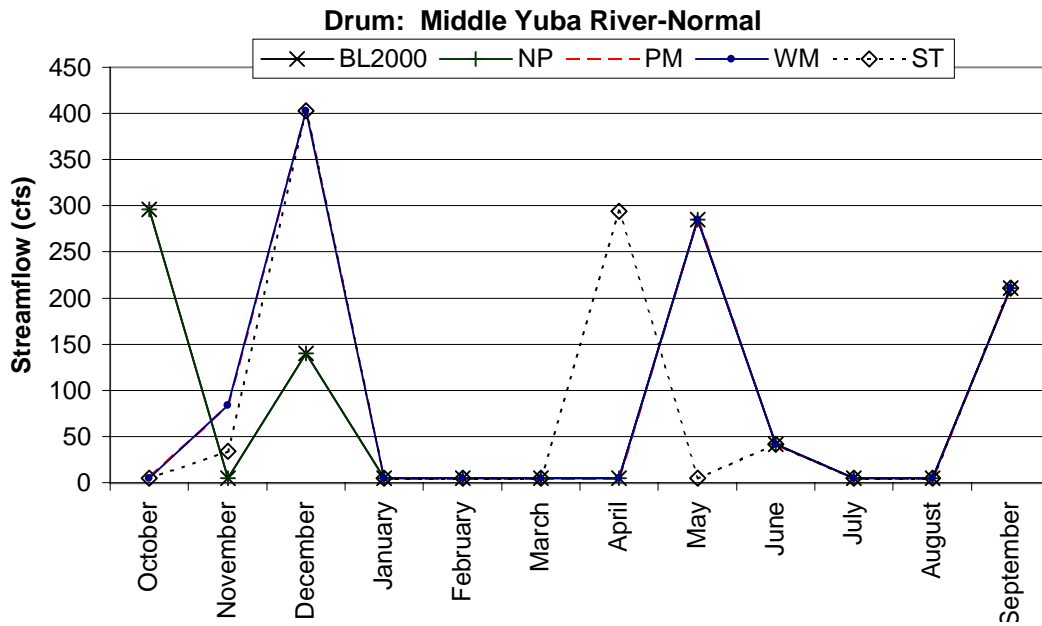




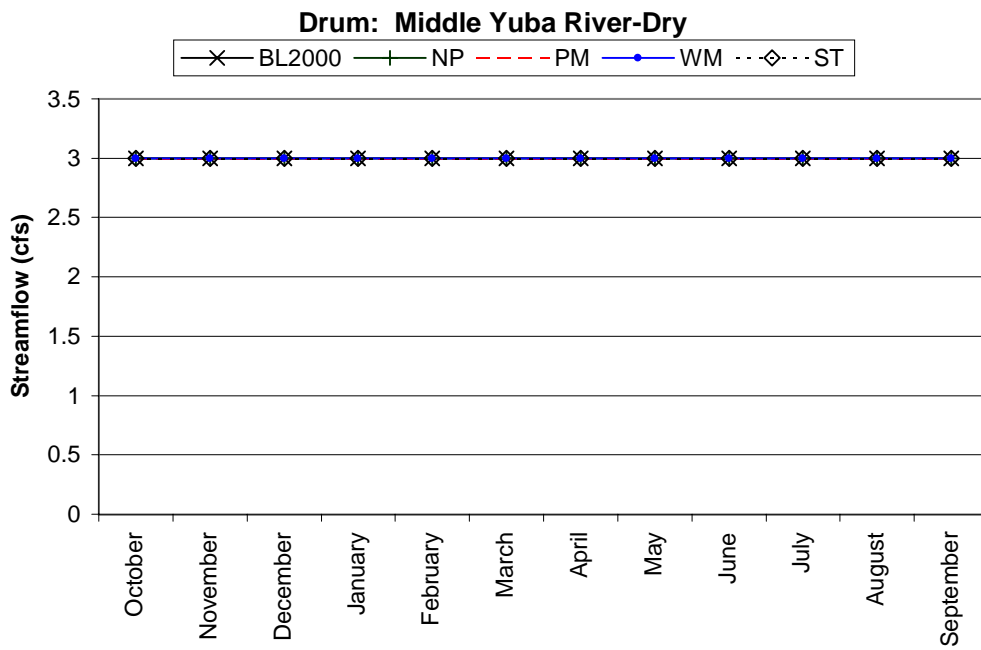
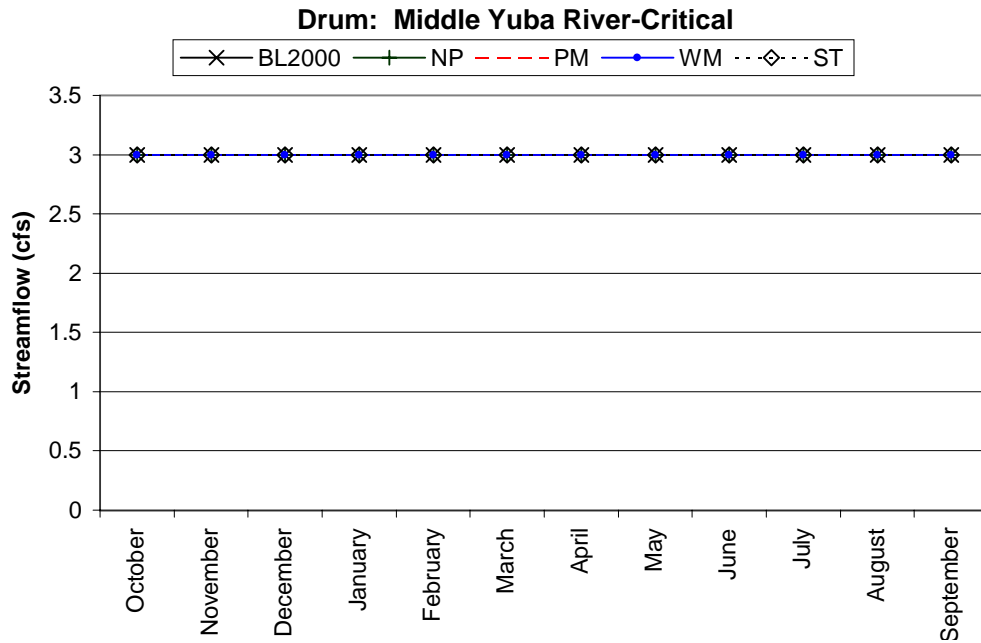
Drum: Appendix Figure-37 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



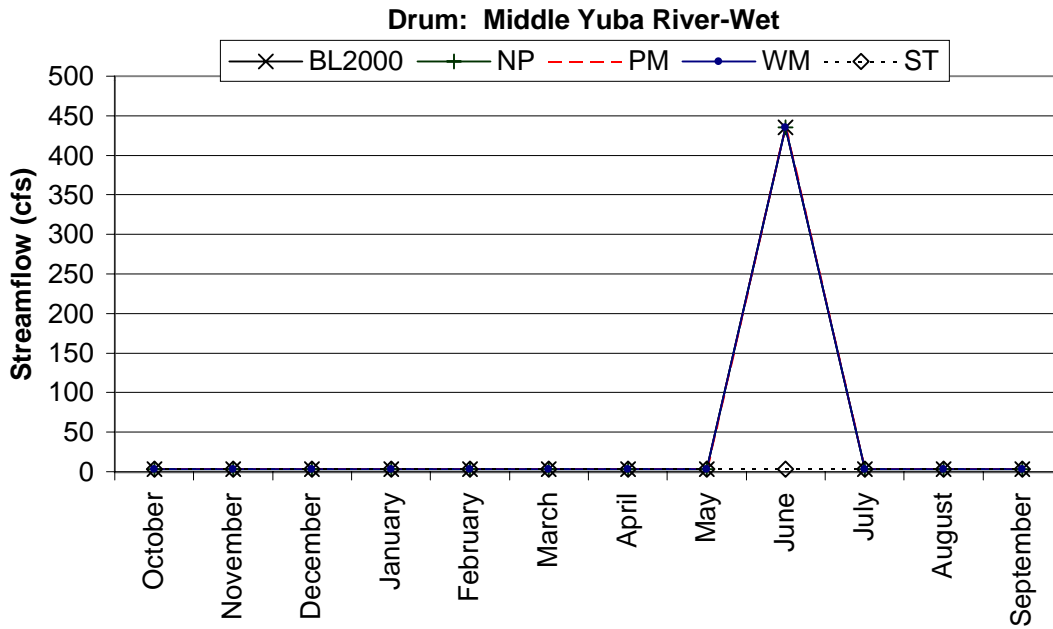
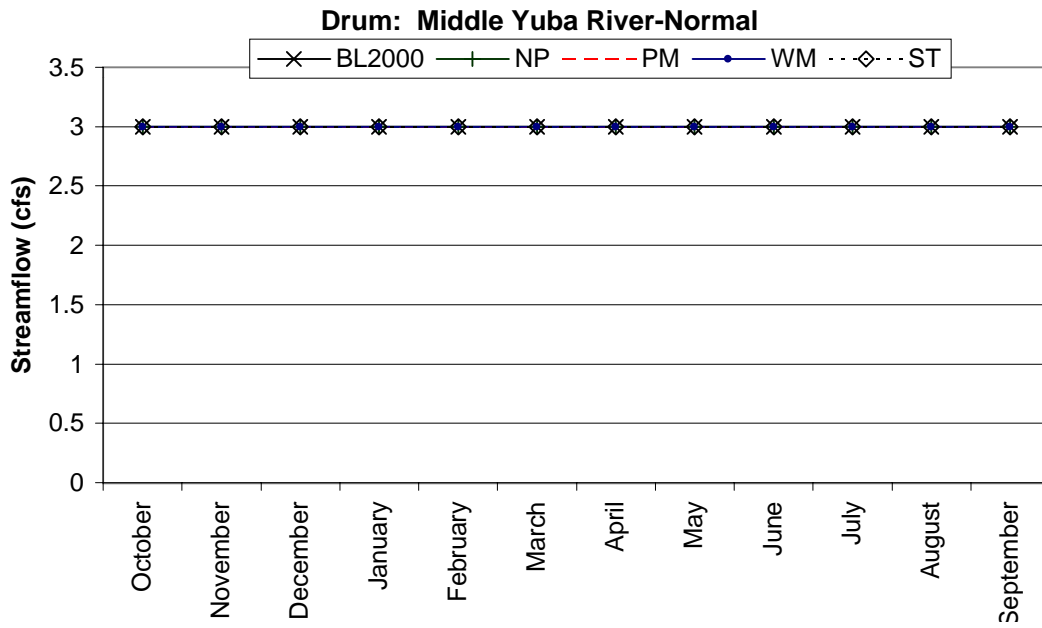
Drum: Appendix Figure-36 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



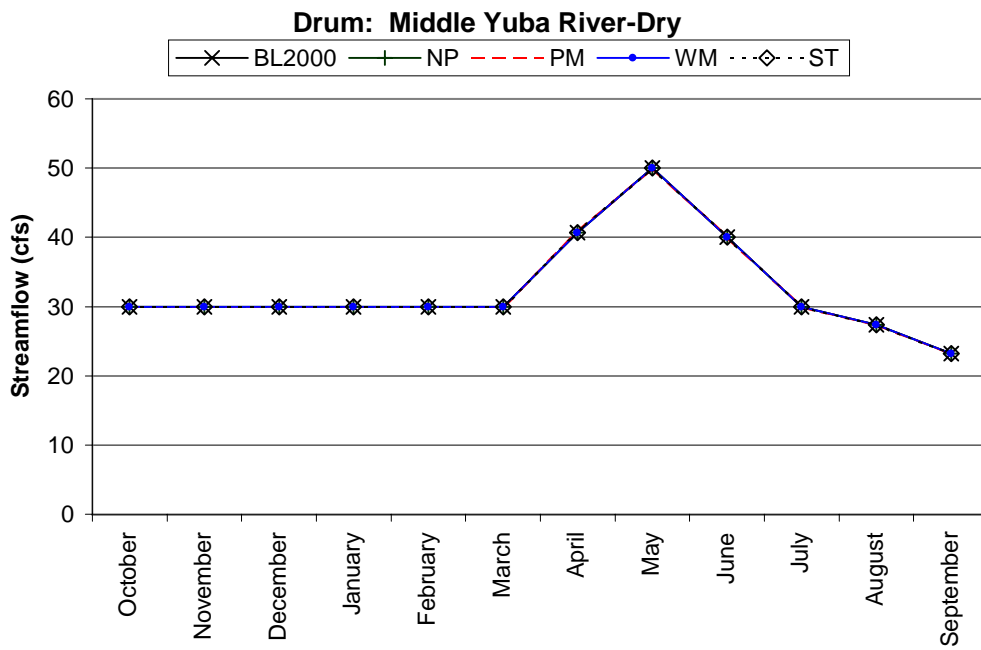
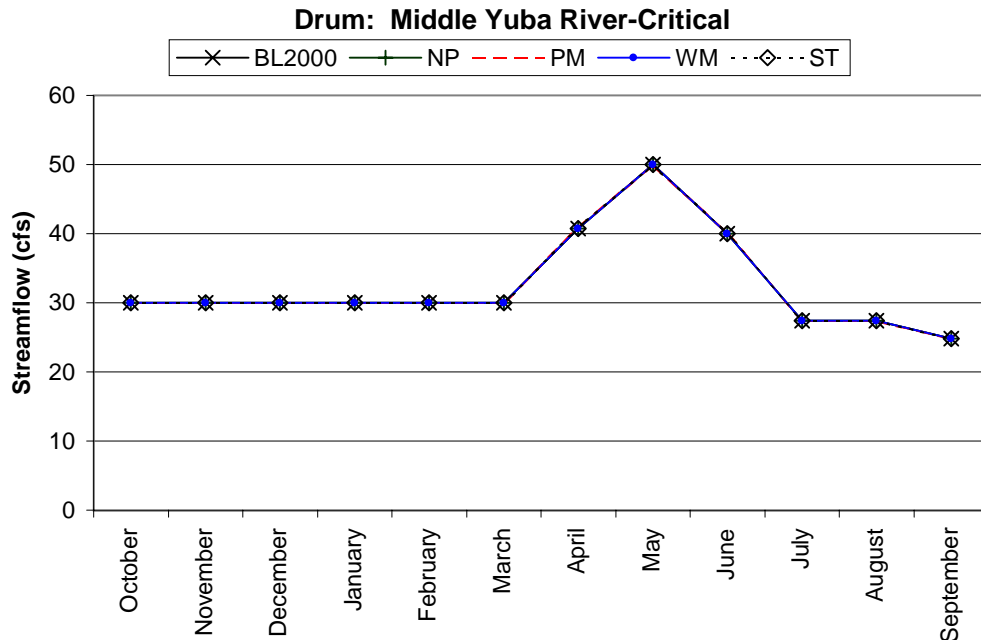
Drum: Appendix Figure-38 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



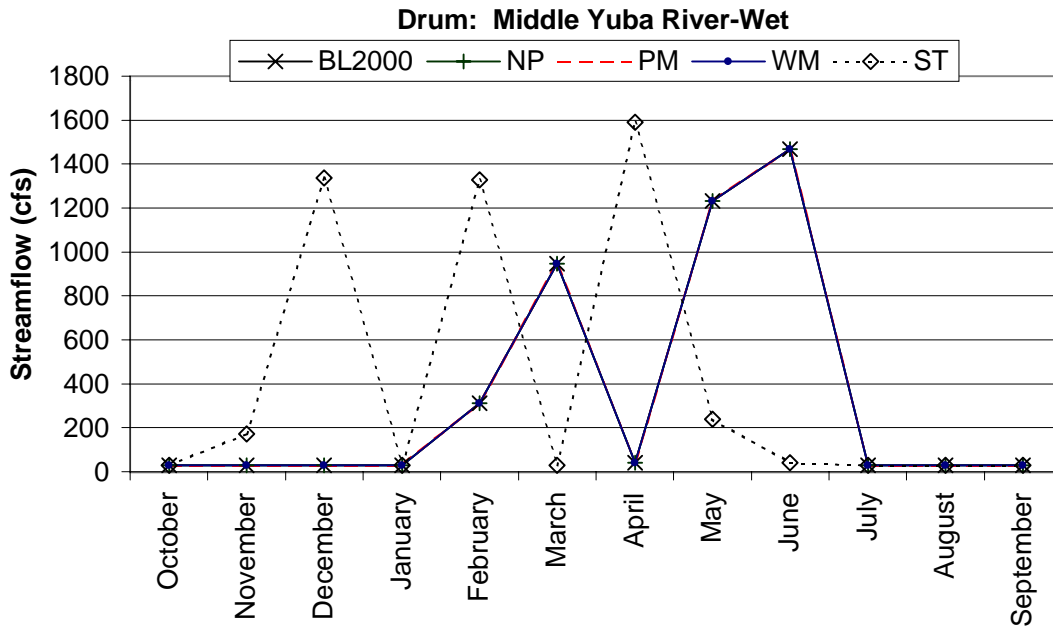
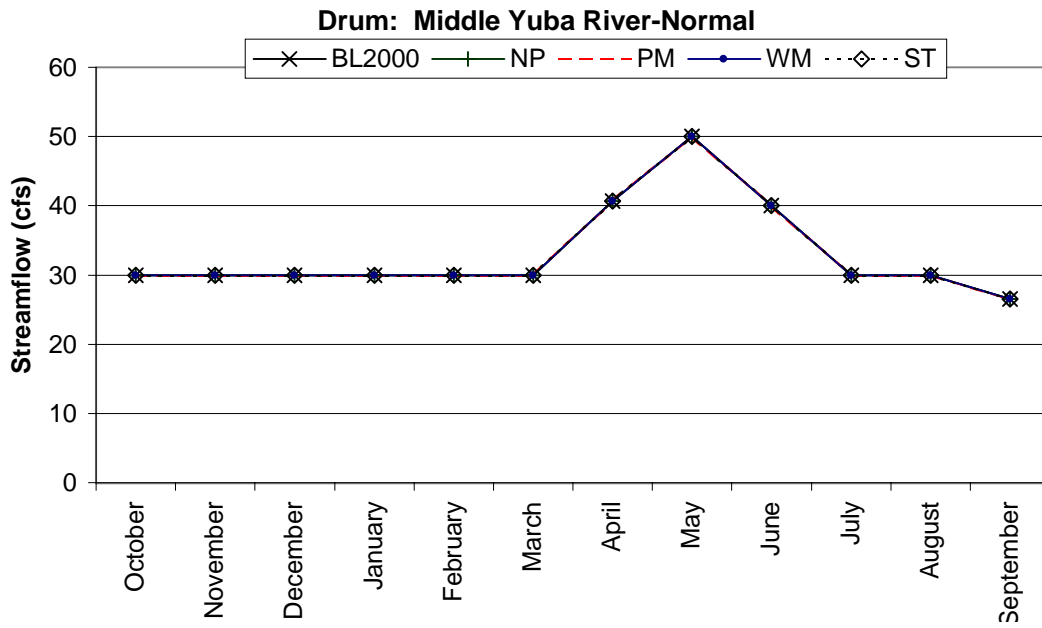
Drum: Appendix Figure-39 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



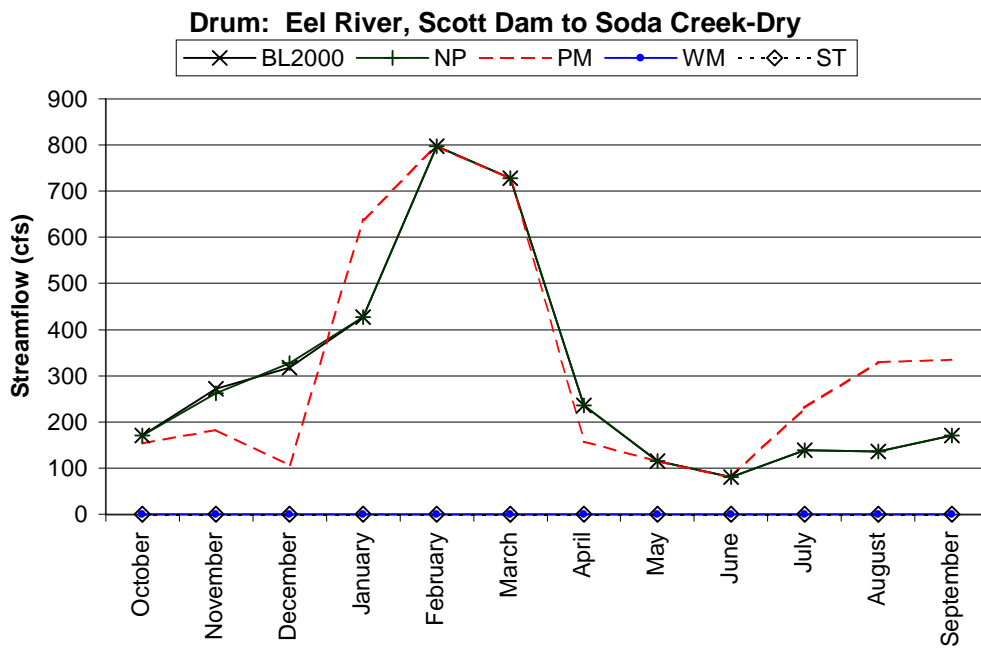
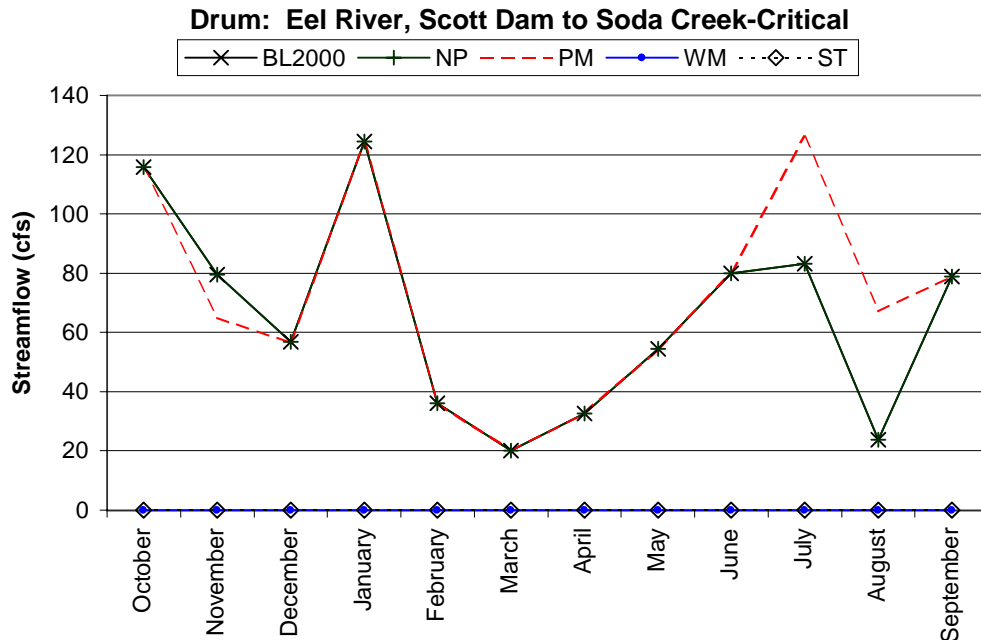
Drum: Appendix Figure-40 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



Drum: Appendix Figure-41 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

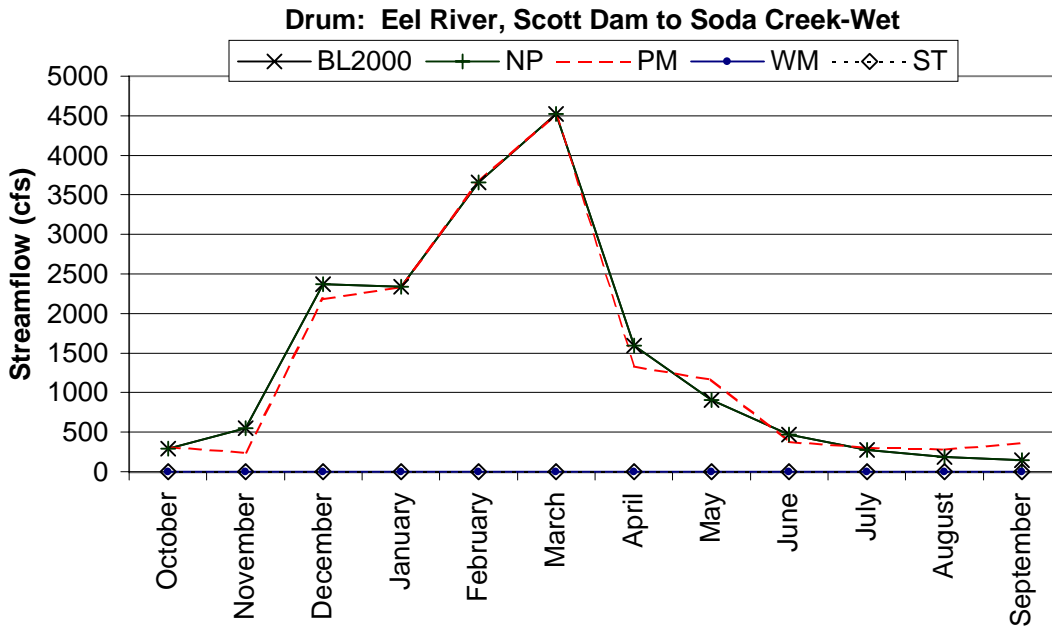
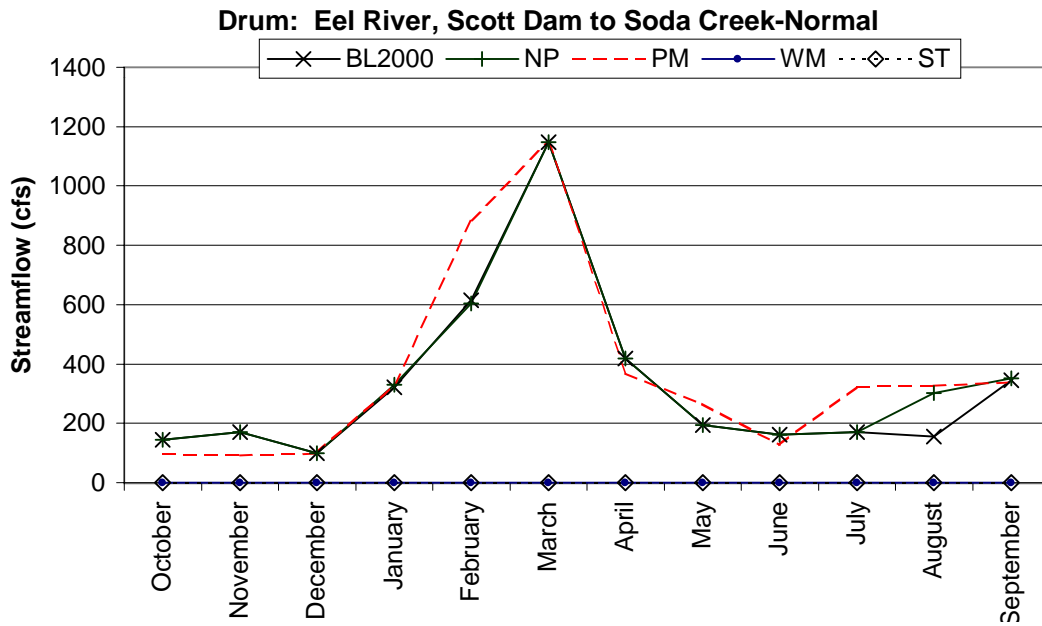


Drum: Appendix Figure-42 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

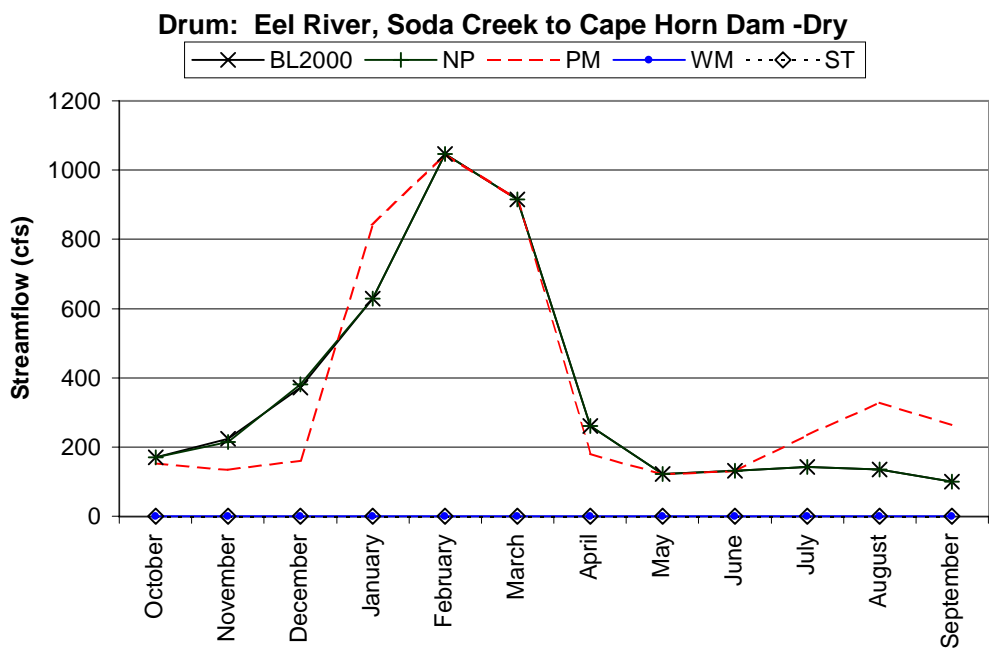
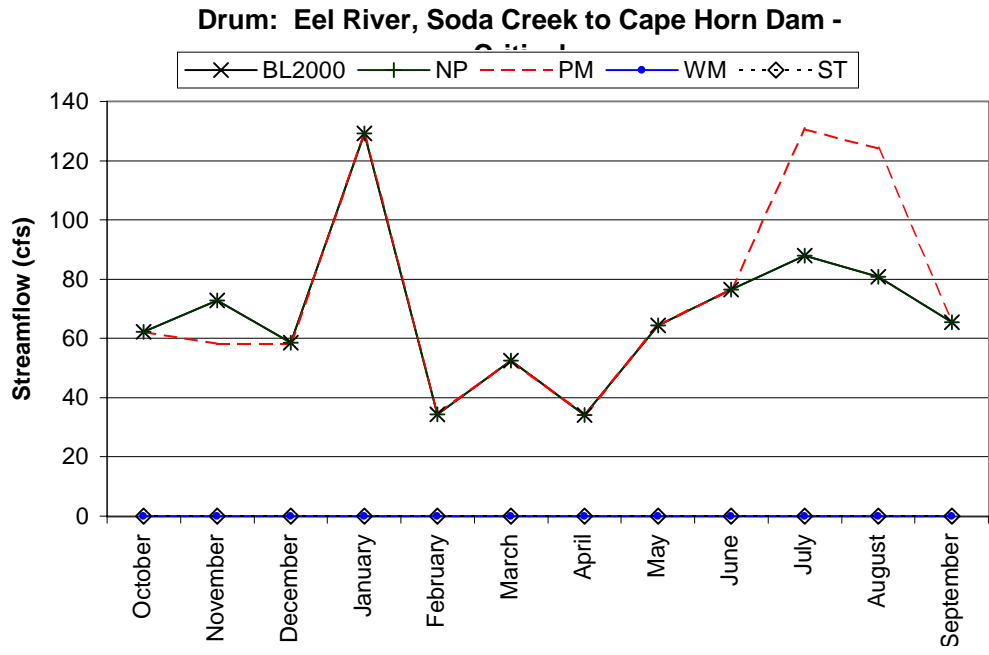


Drum: Appendix Figure-43 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

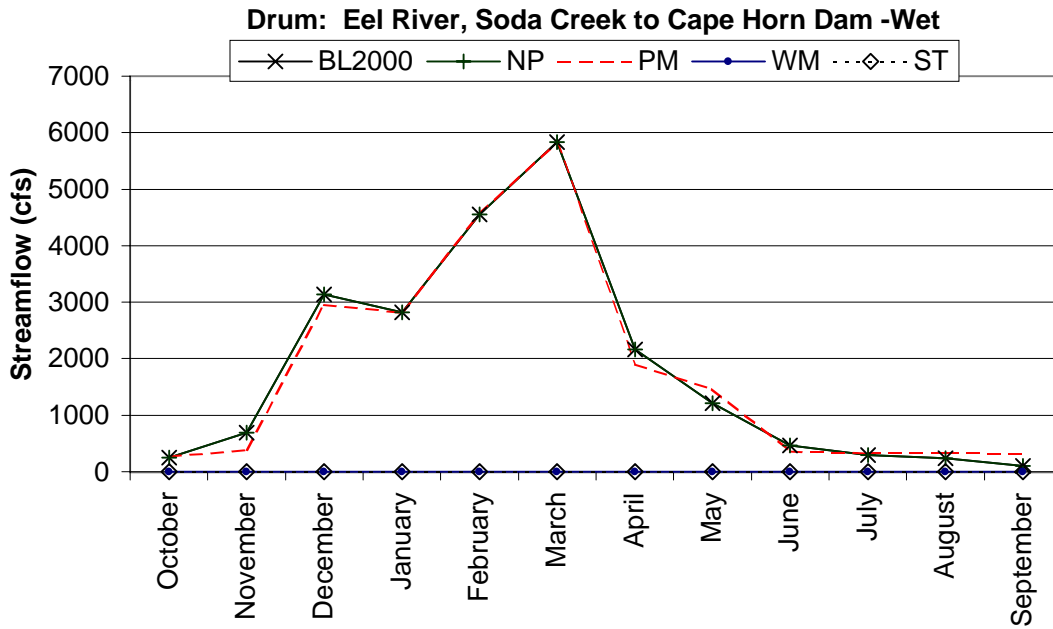
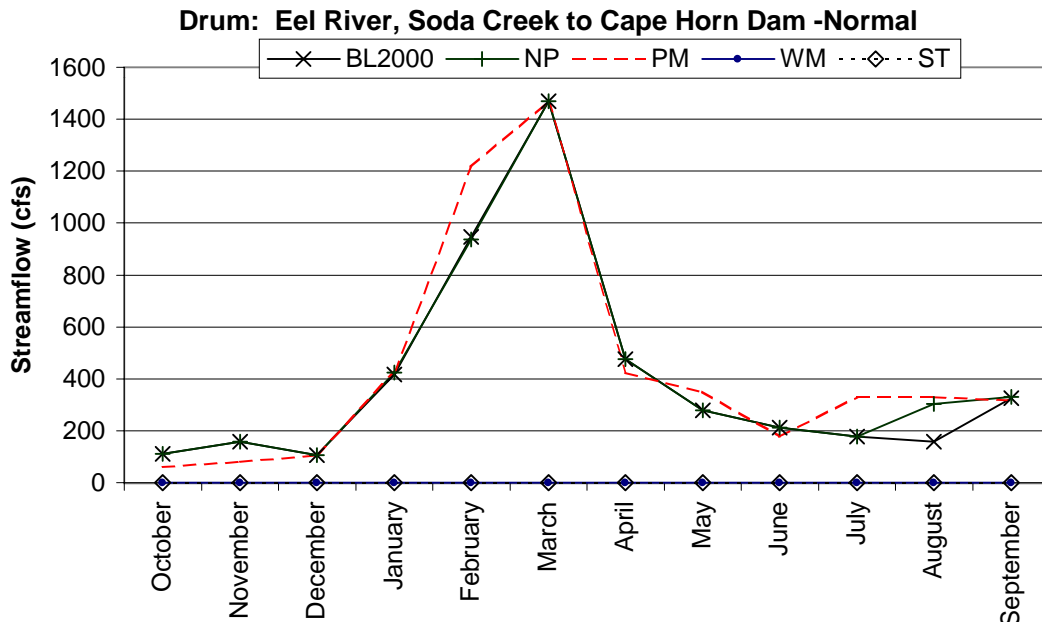




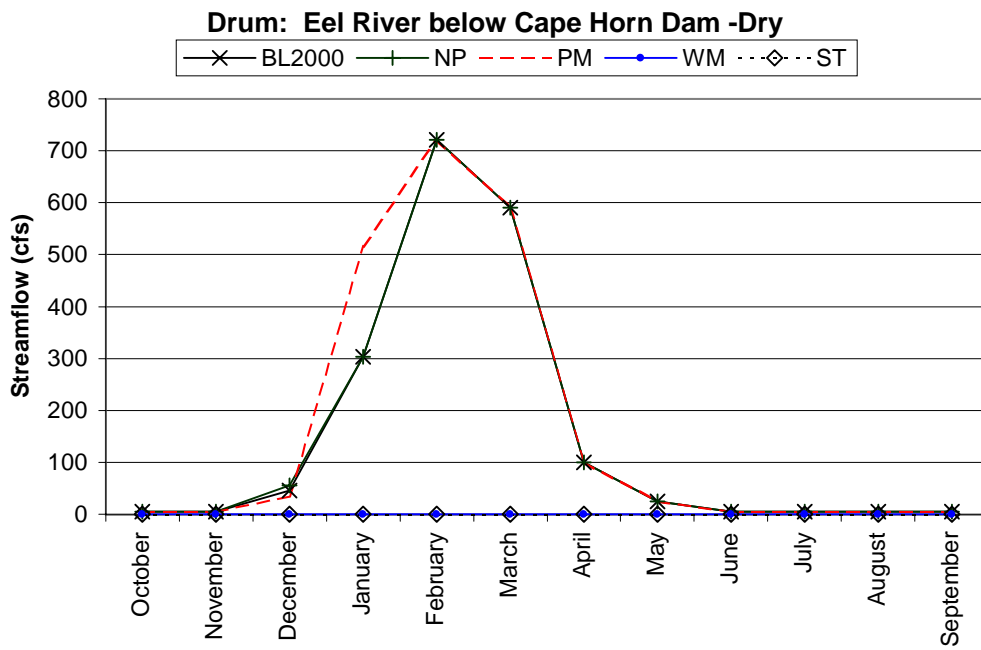
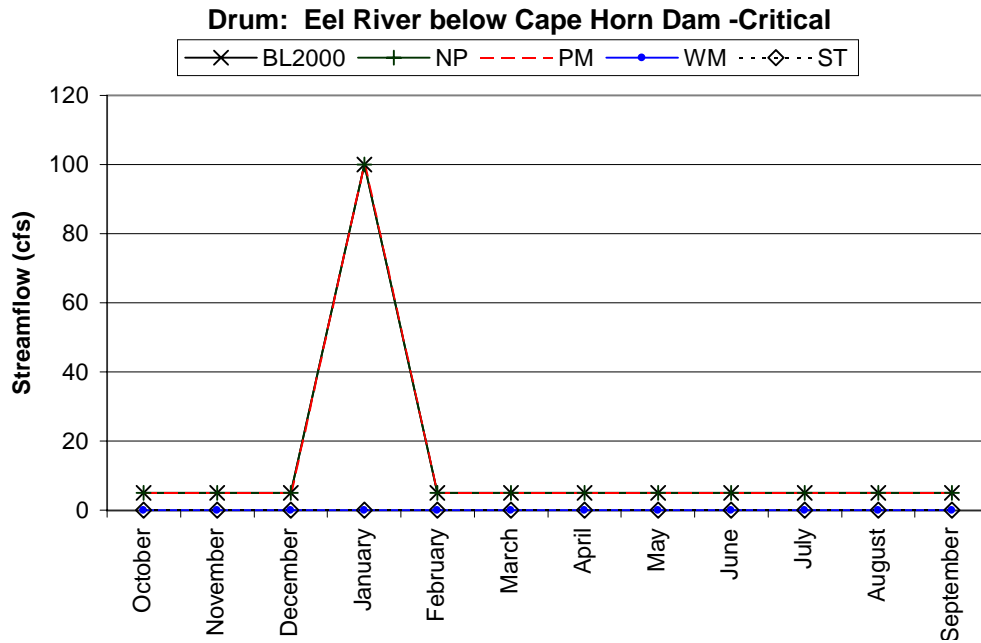
Drum: Appendix Figure-44 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



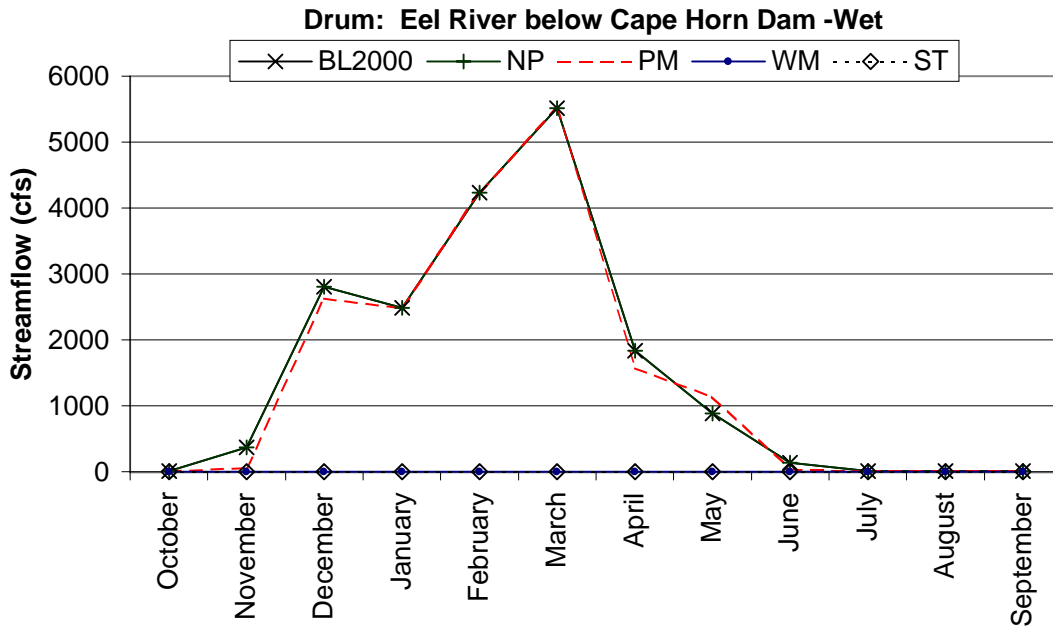
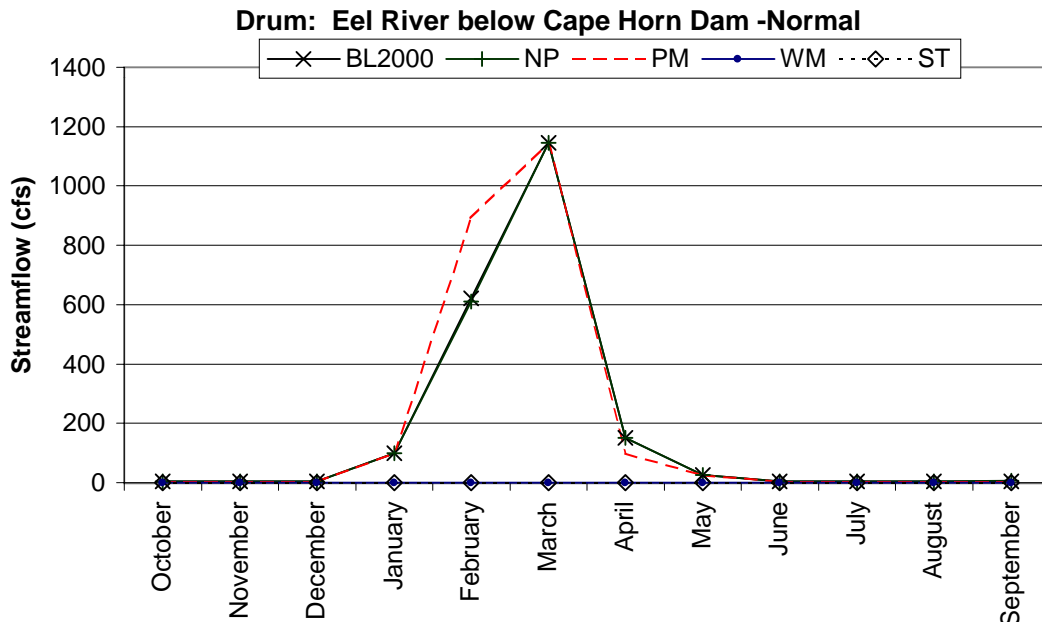
Drum: Appendix Figure-45 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



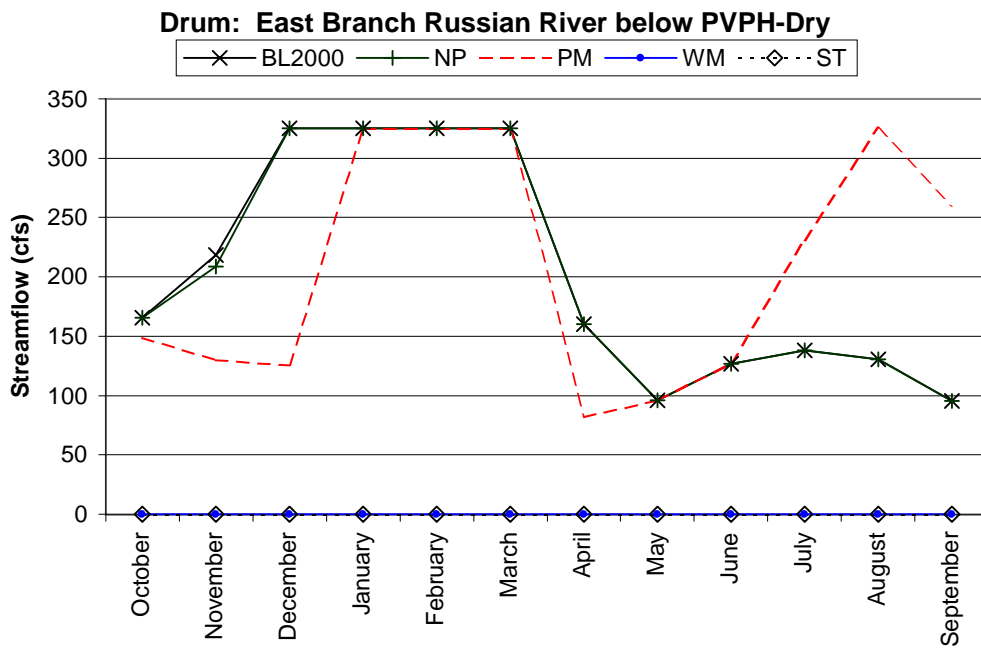
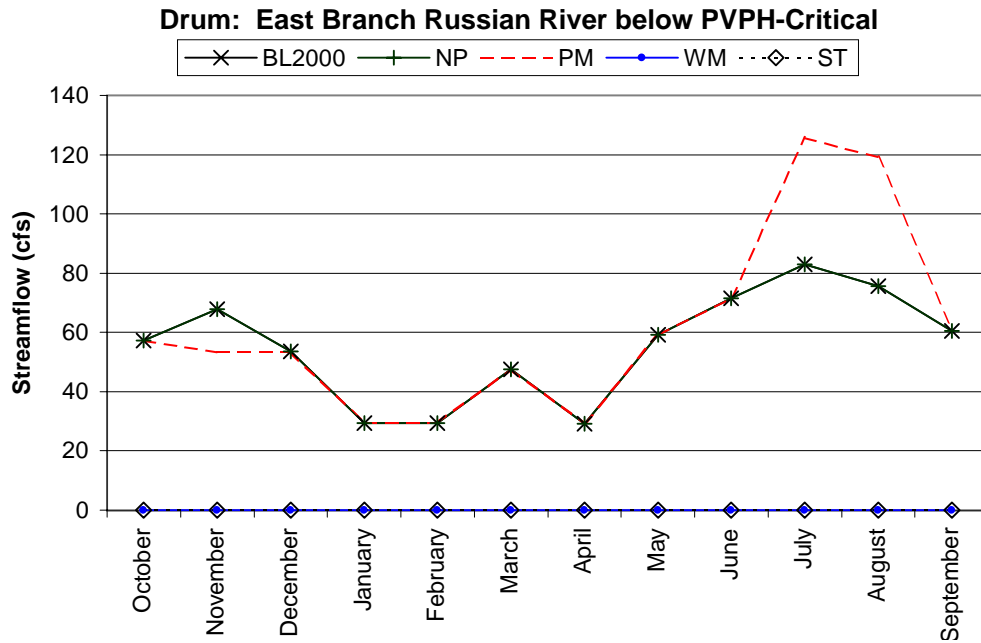
Drum: Appendix Figure-46 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



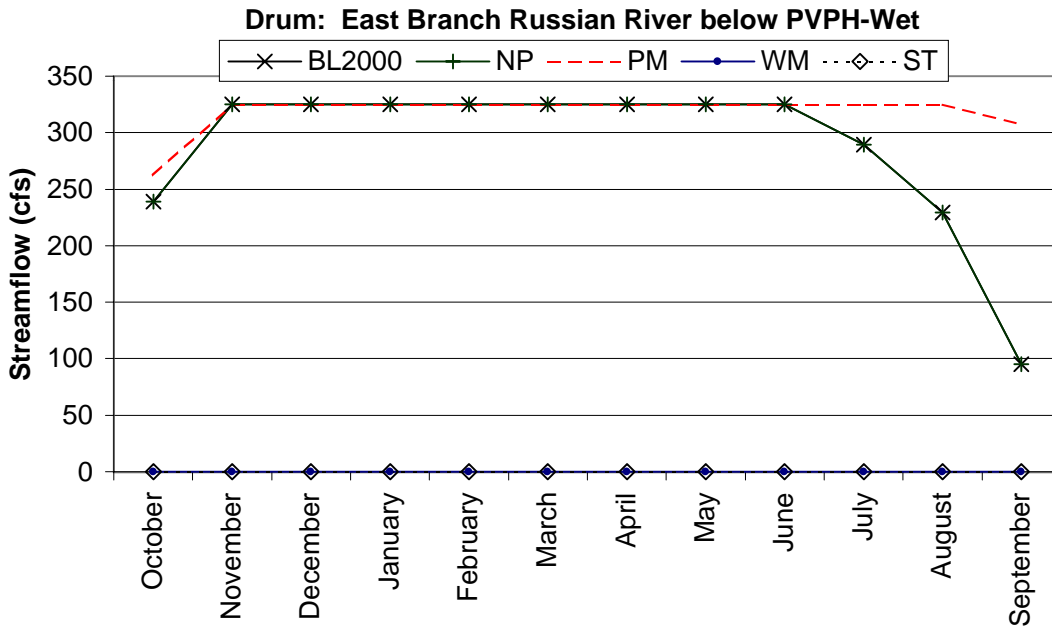
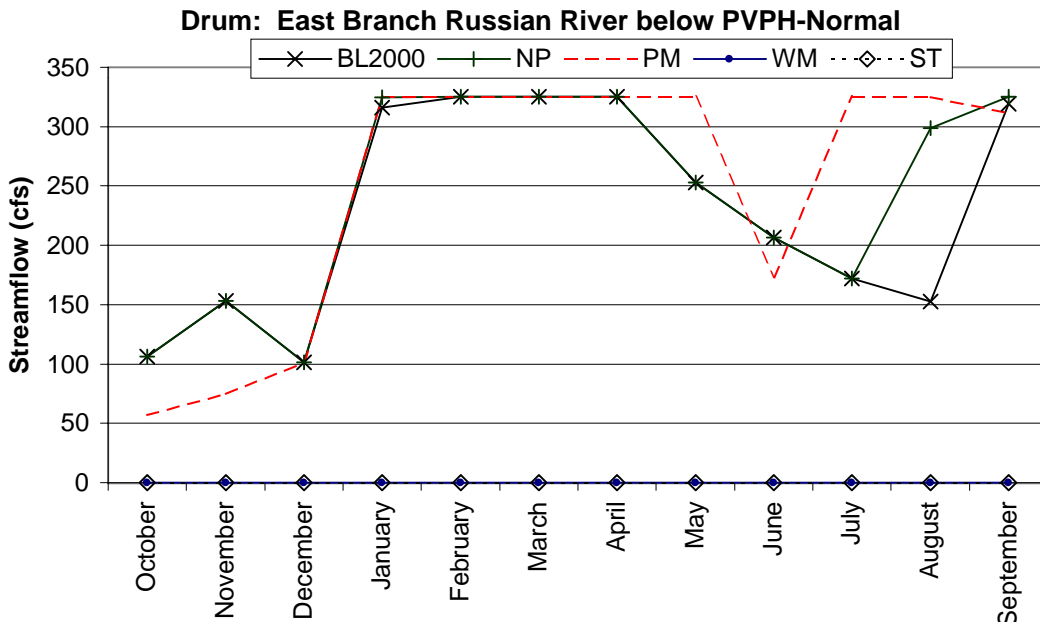
Drum: Appendix Figure-47 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.



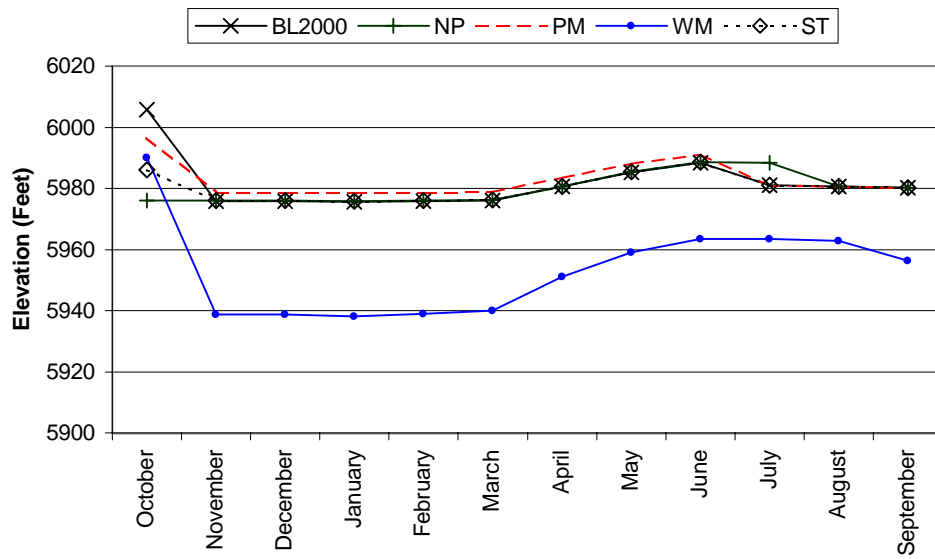
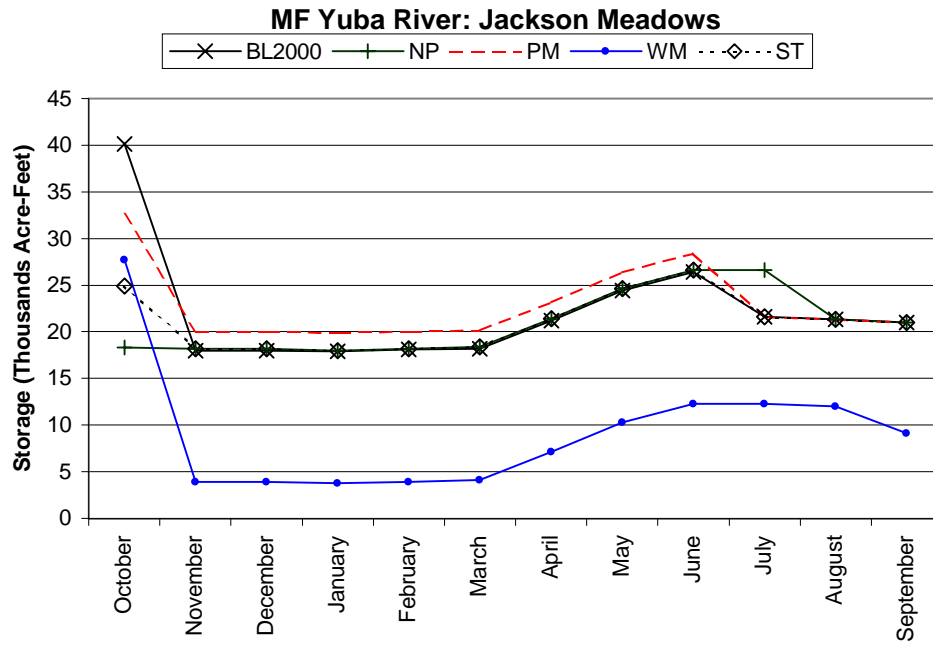
Drum: Appendix Figure-48 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



Drum: Appendix Figure-49 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

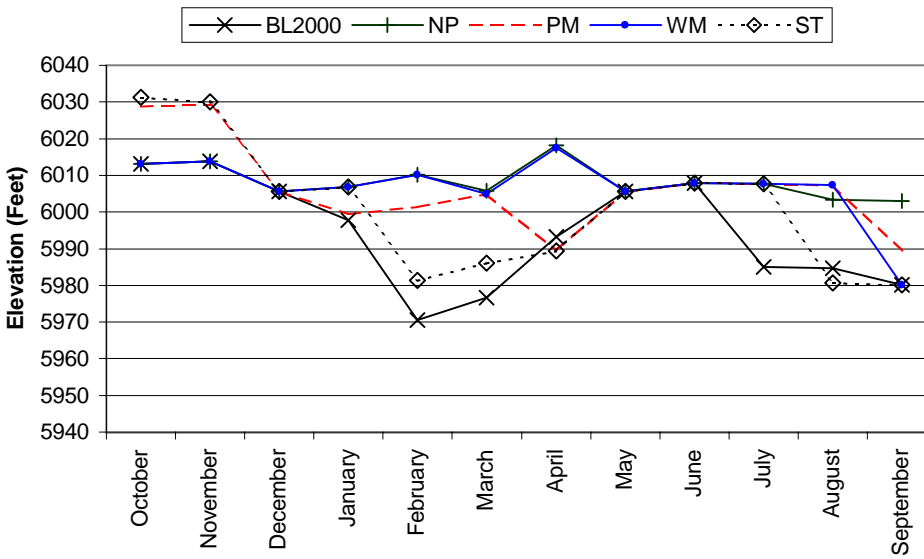
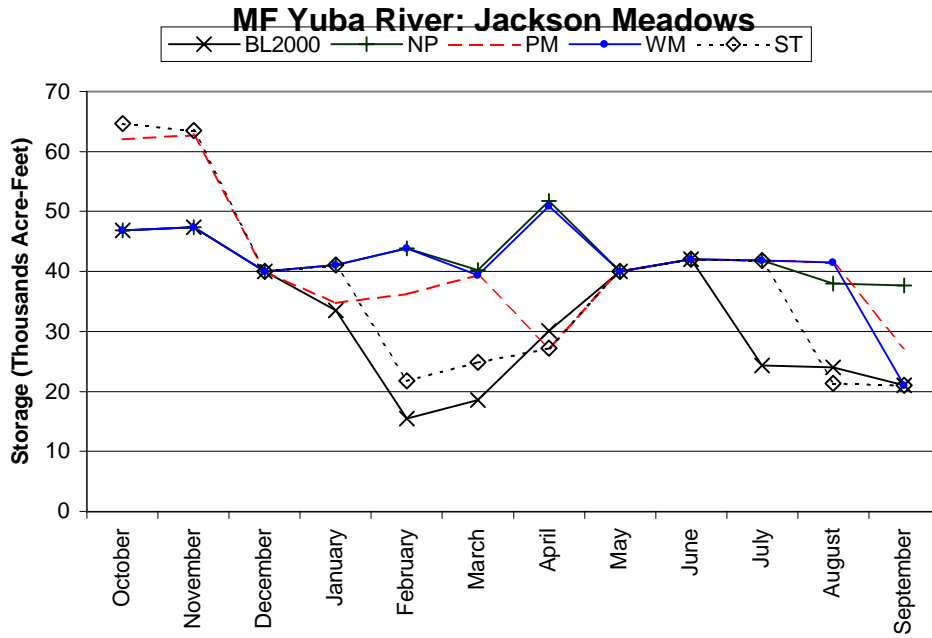


Drum: Appendix Figure-50 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.



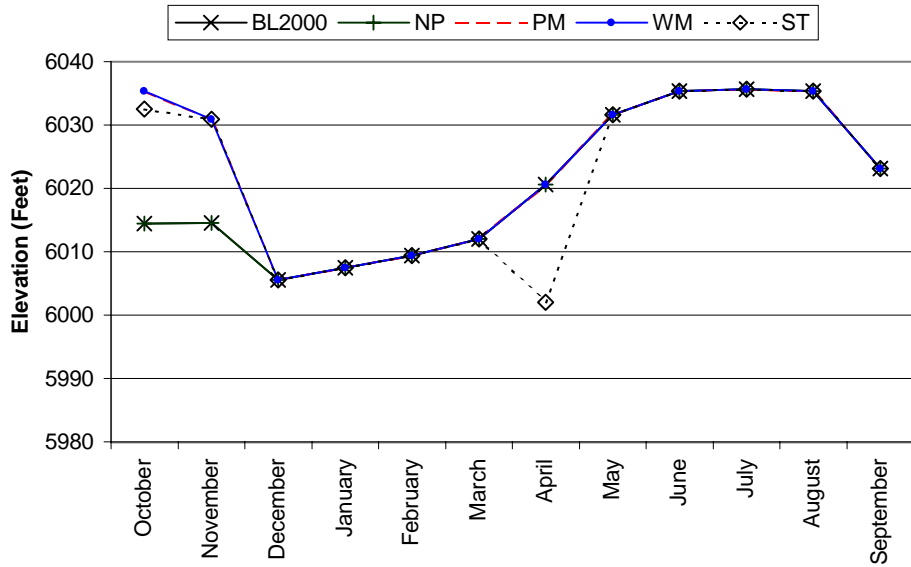
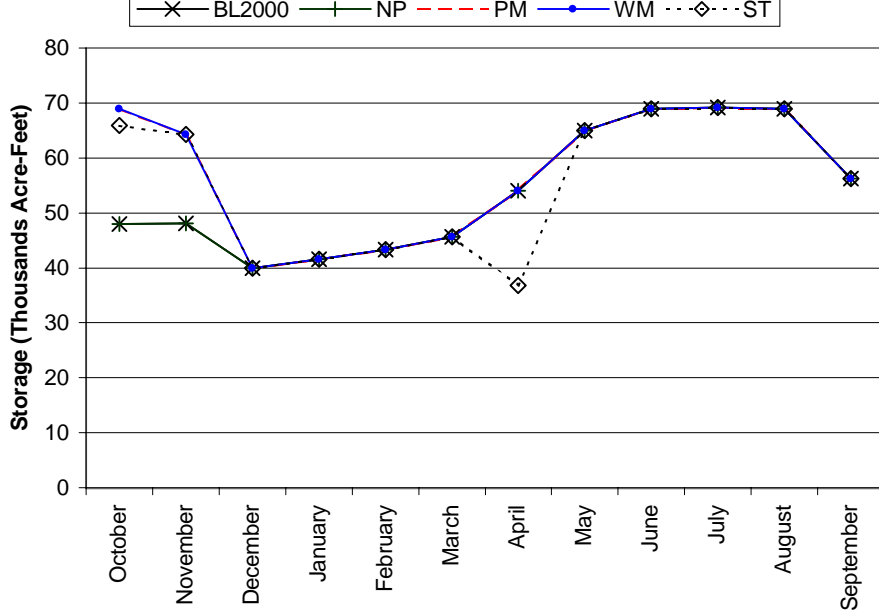
Drum: Appendix Figure-51 Modeled storage and elevations in a critically dry year, 1977.



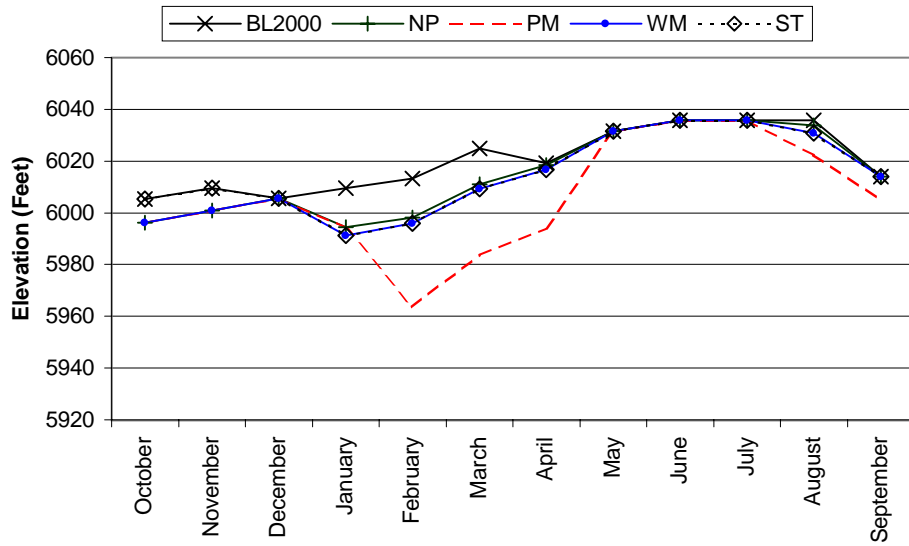
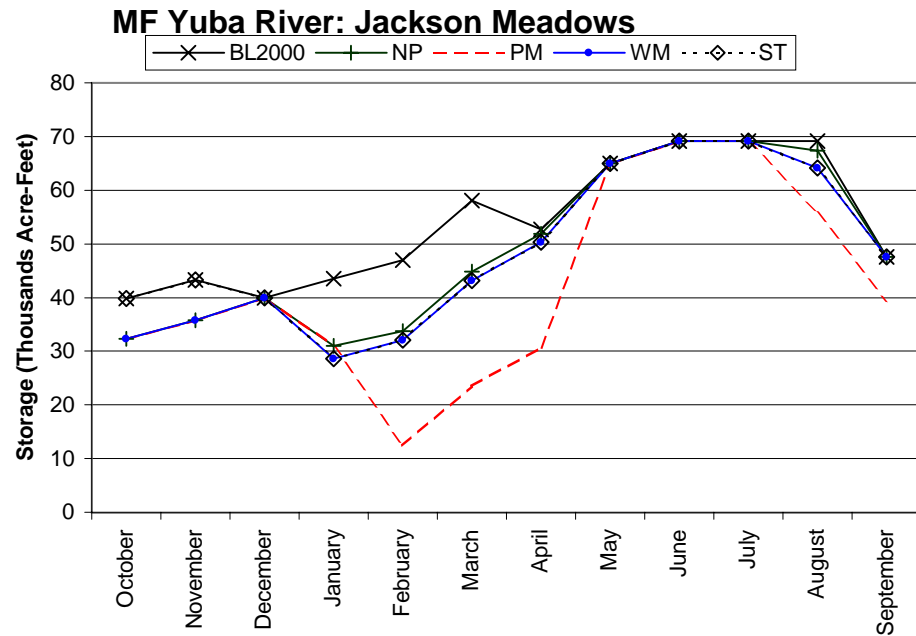


Drum: Appendix Figure-52 Modeled storage and elevations in a dry year, 1981.

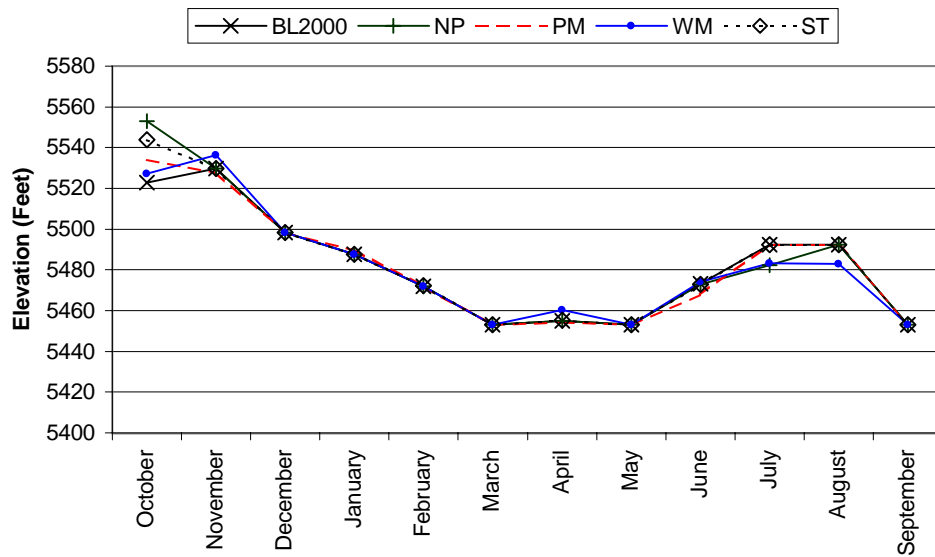
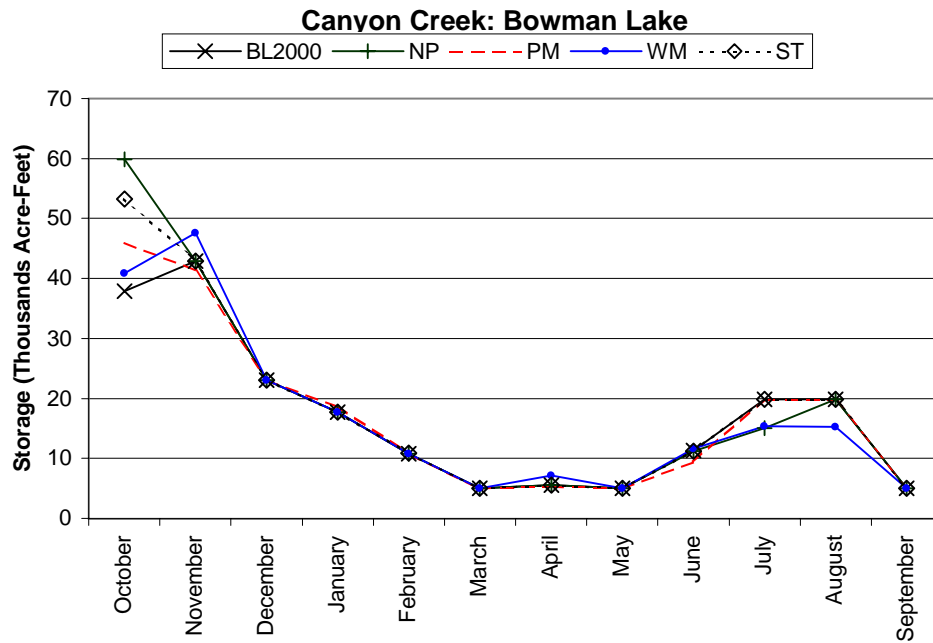
### MF Yuba River: Jackson Meadows



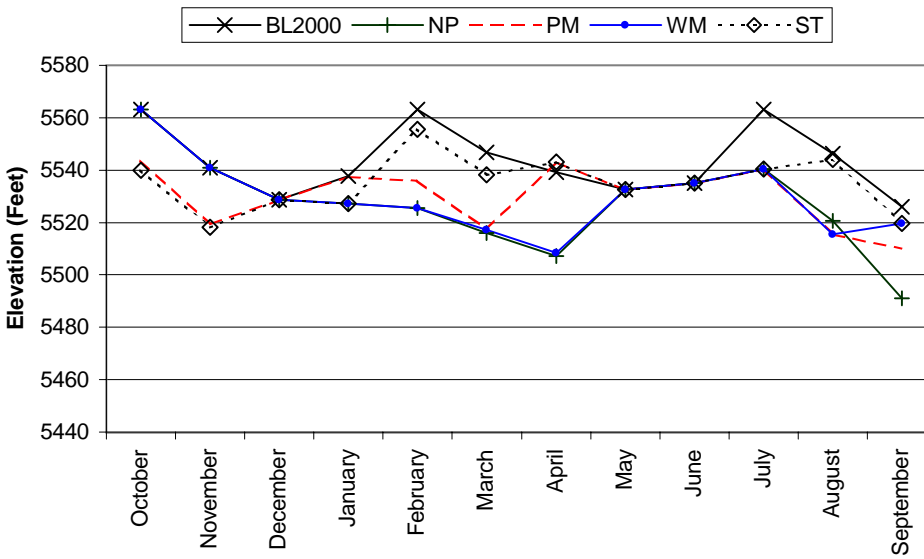
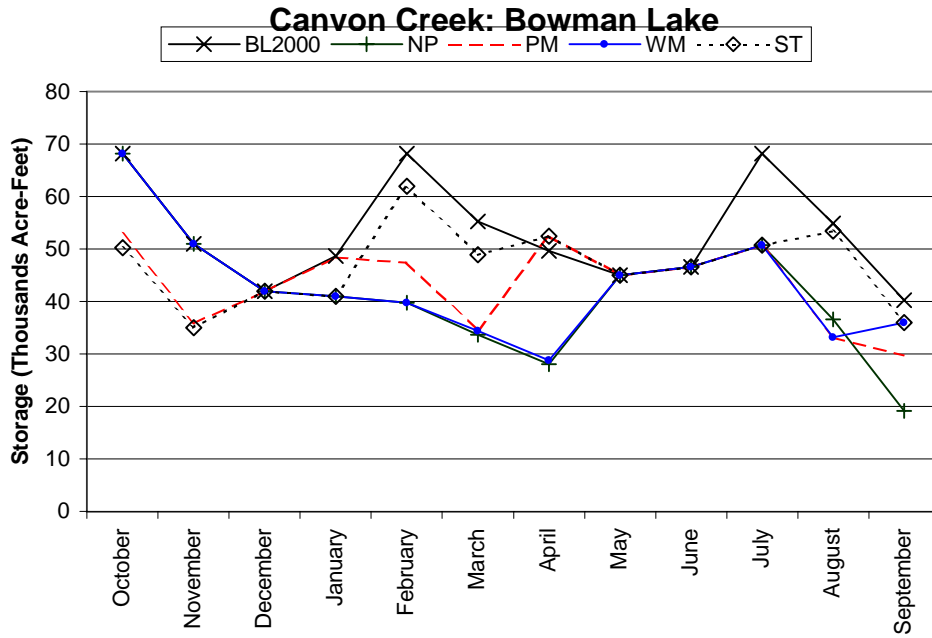
Drum: Appendix Figure-53 Modeled storage and elevations in a normal water year, 1979.



Drum: Appendix Figure-54 Modeled storage and elevations in a wet water year, 1983.

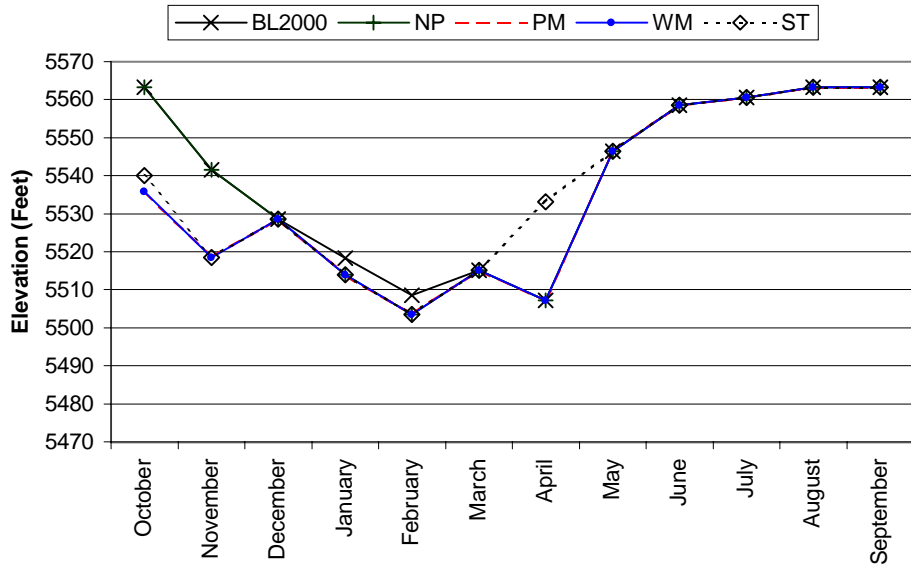
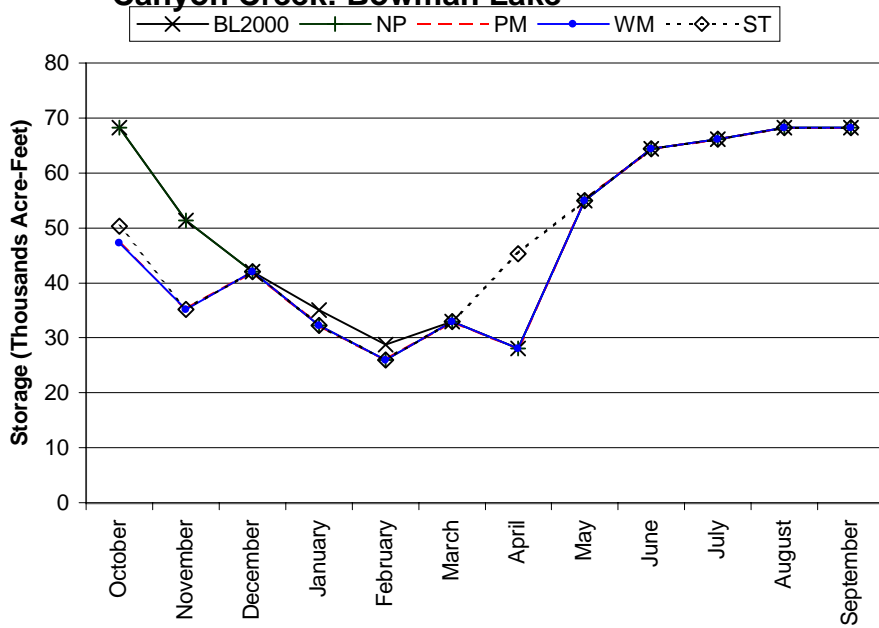


Drum : Appendix Figure-55 Modeled storage and elevations in a critically dry year, 1977.



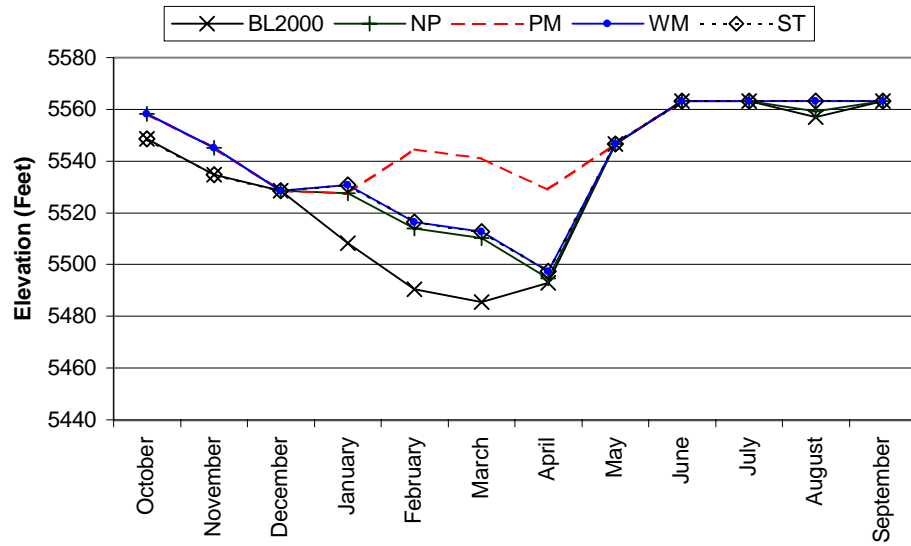
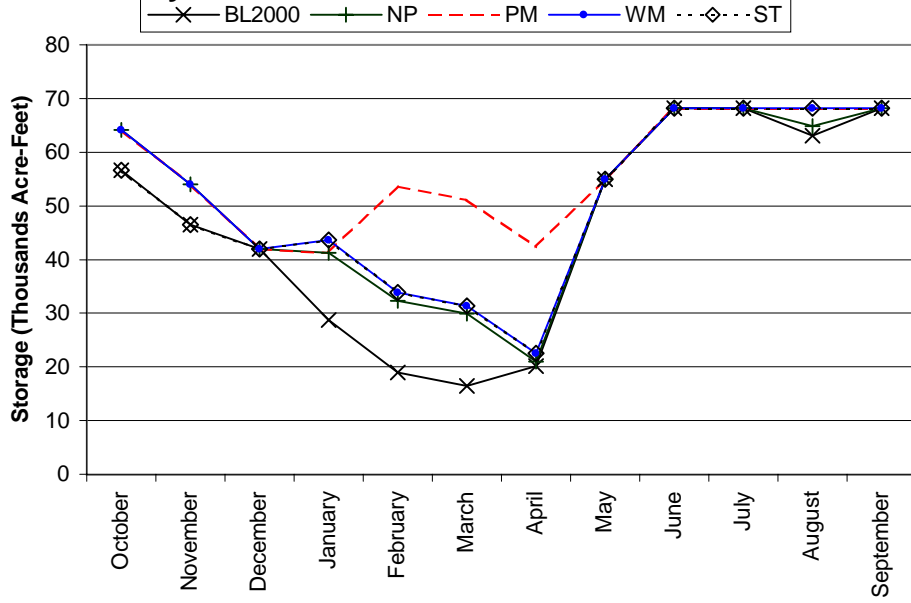
Drum : Appendix Figure-56 Modeled storage and elevations in a dry year, 1981.

### Canyon Creek: Bowman Lake

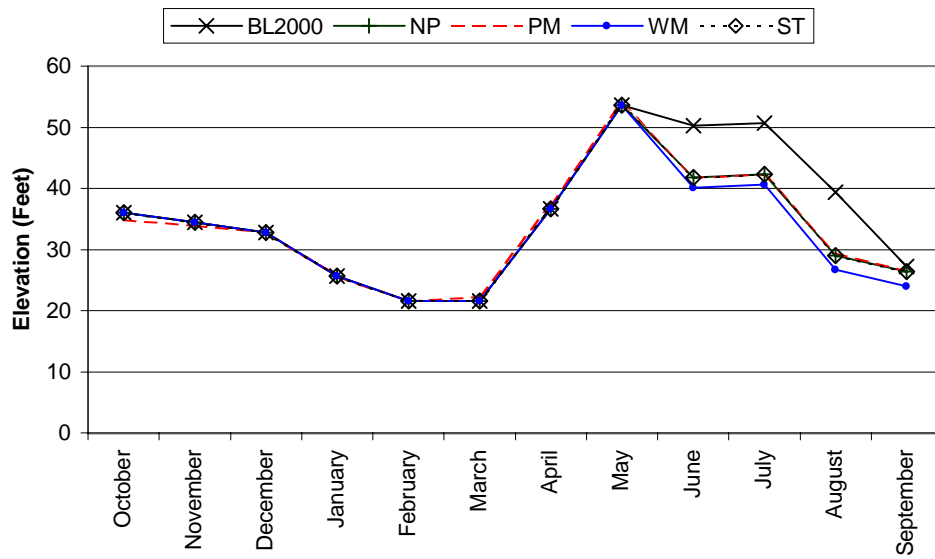
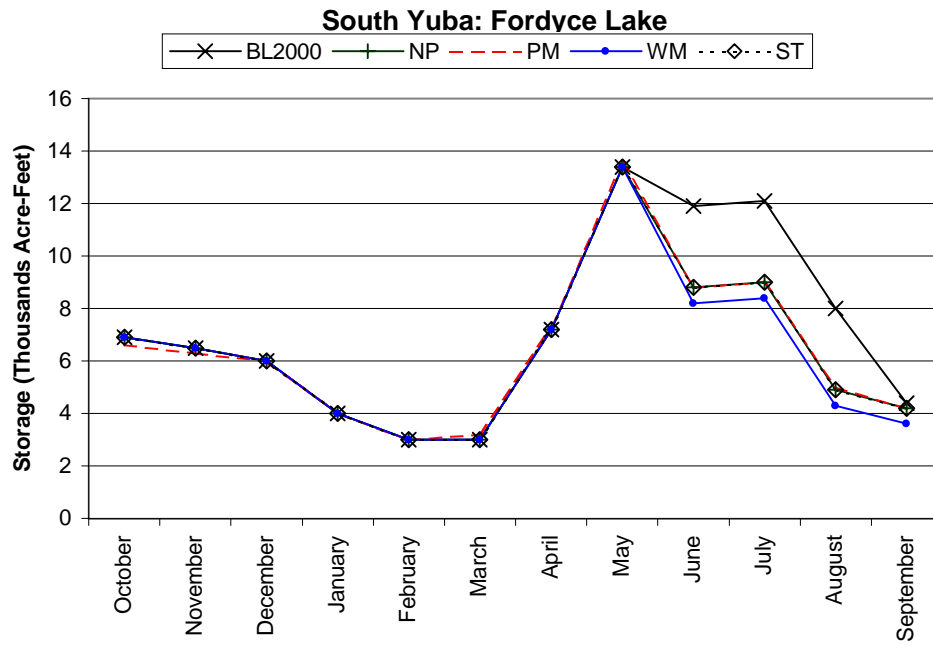


Drum : Appendix Figure-57 Modeled storage and elevations in a normal water year, 1979.

### Canyon Creek: Bowman Lake

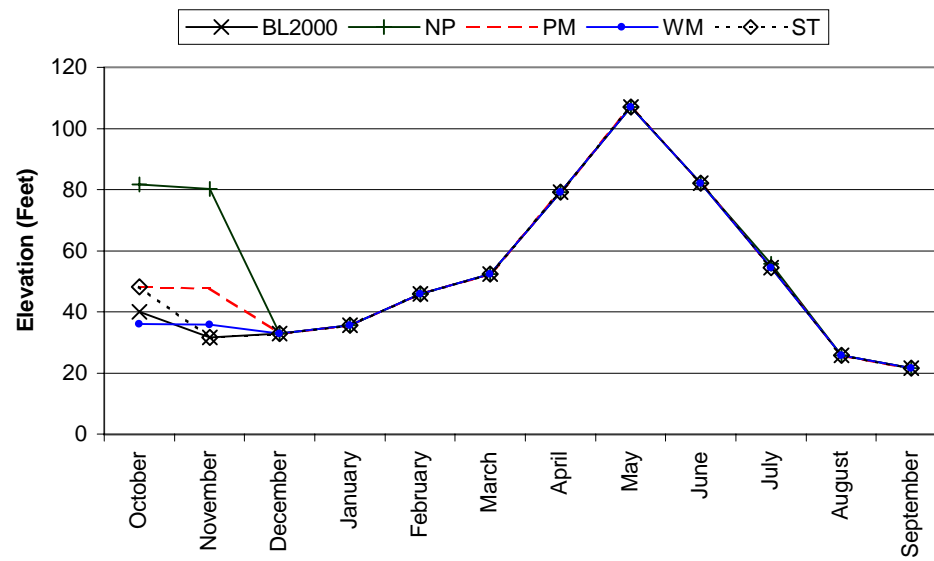
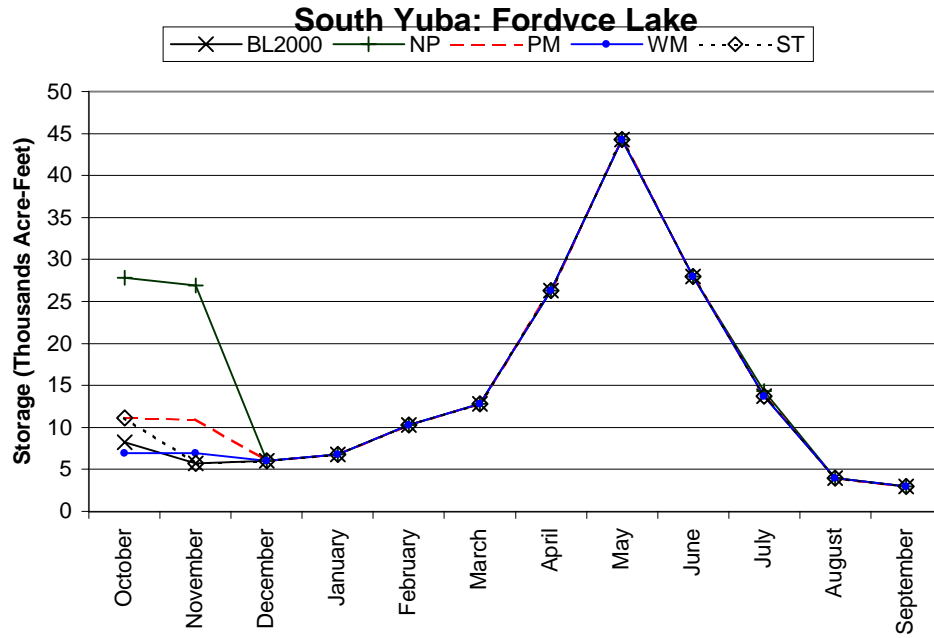


Drum : Appendix Figure-58 Modeled storage and elevations in a wet water year, 1983.

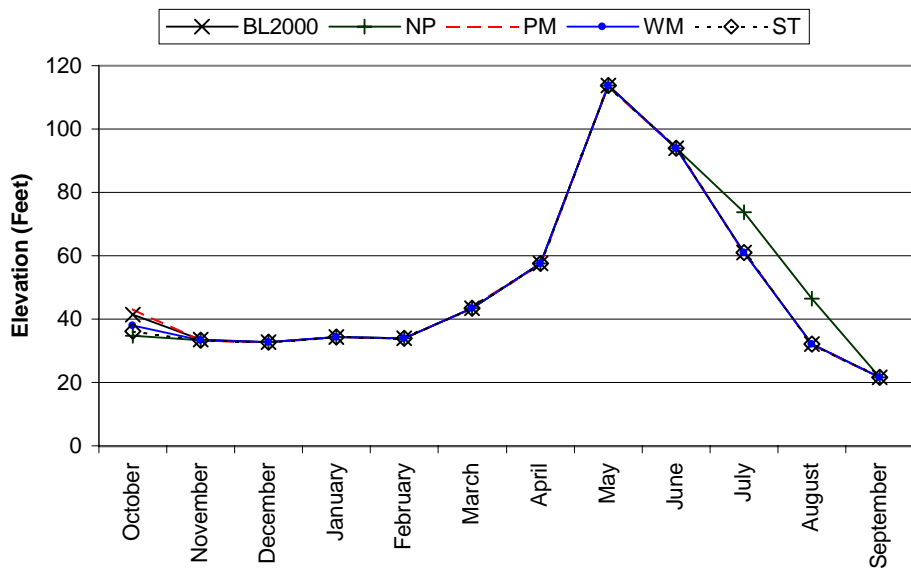
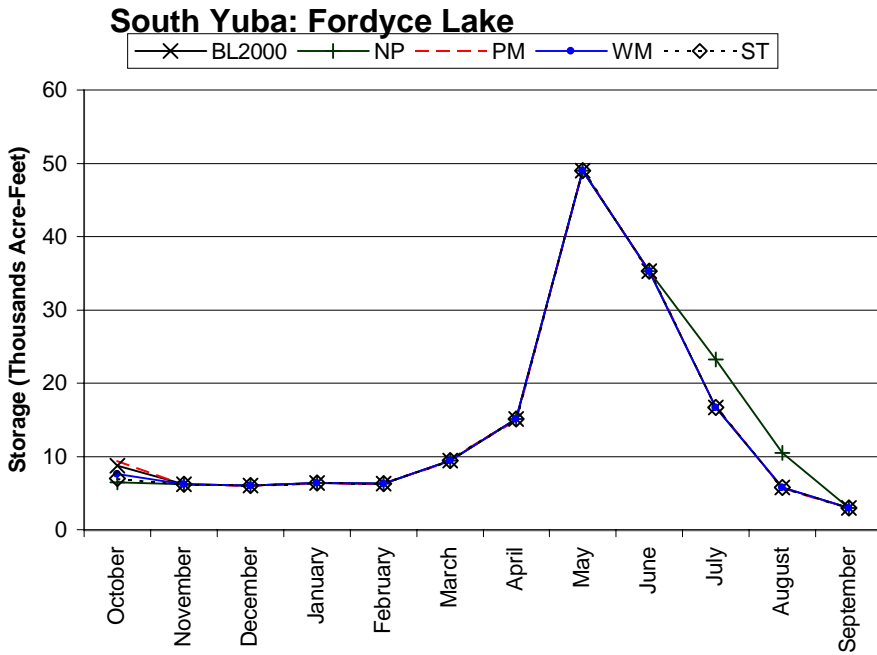


Drum: Appendix Figure-59 Modeled storage and elevations in a critically dry year, 1977.



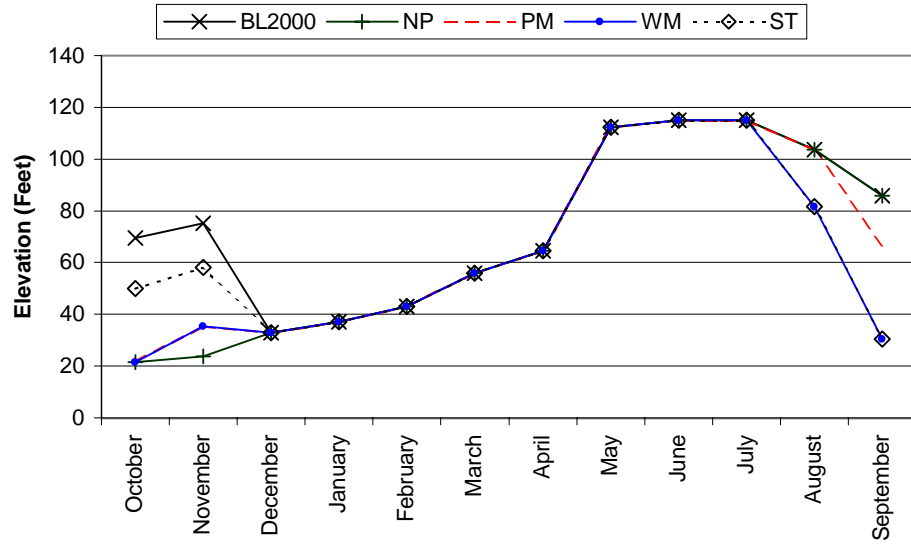
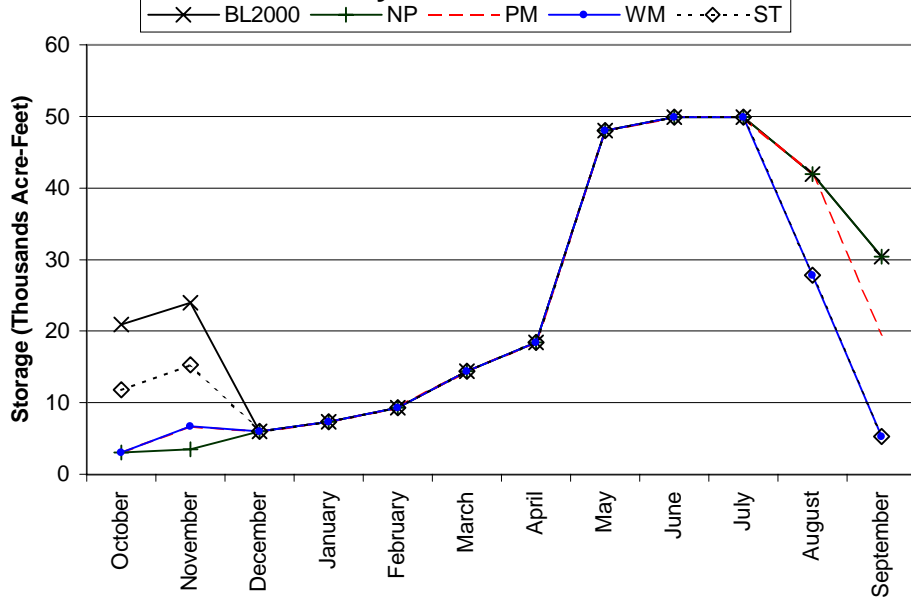


Drum: Appendix Figure-60 Modeled storage and elevations in a dry year, 1981.

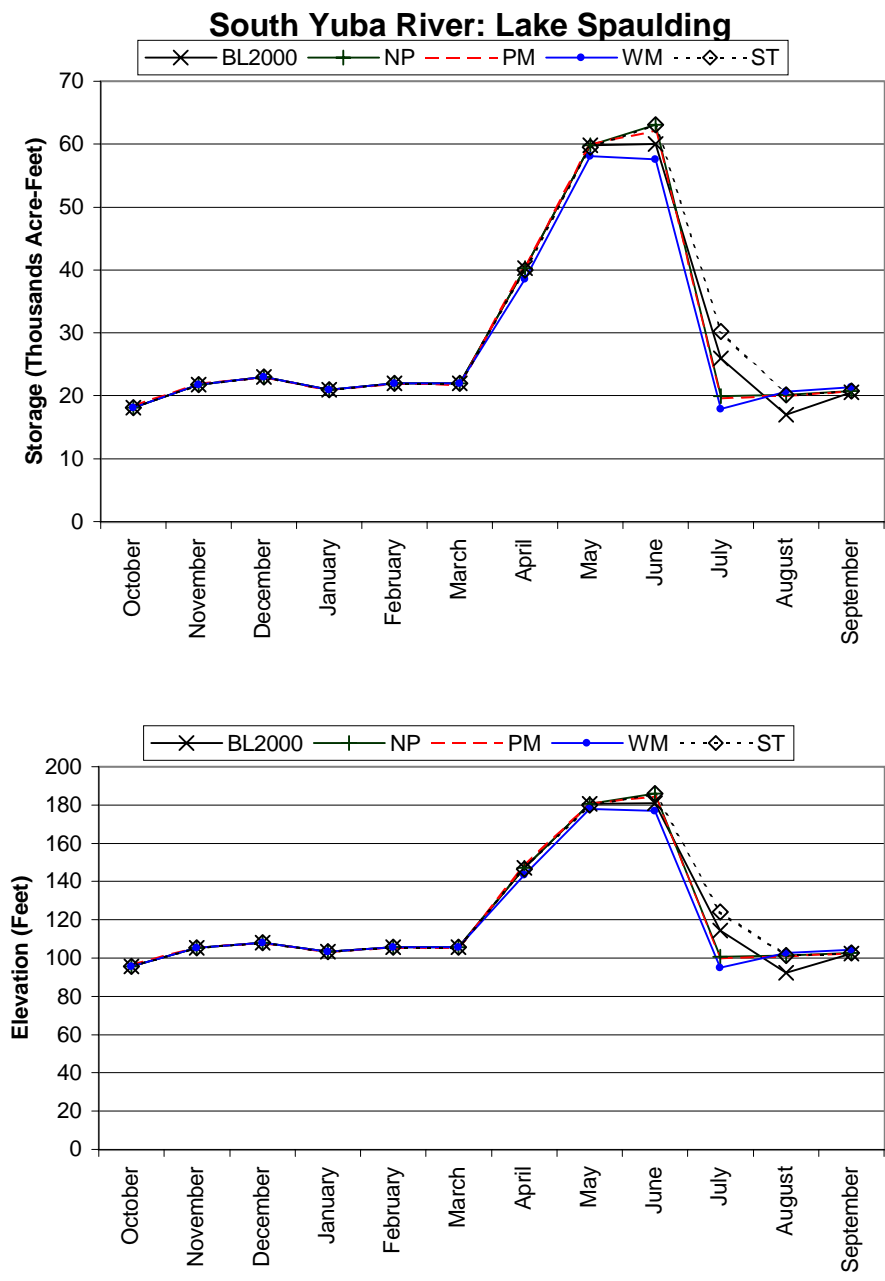


Drum: Appendix Figure-61 Modeled storage and elevations in a normal water year, 1979.

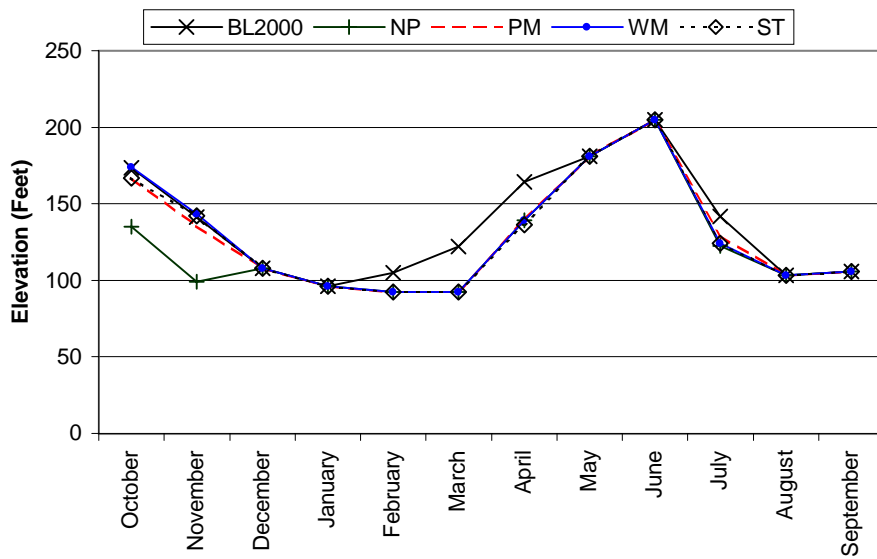
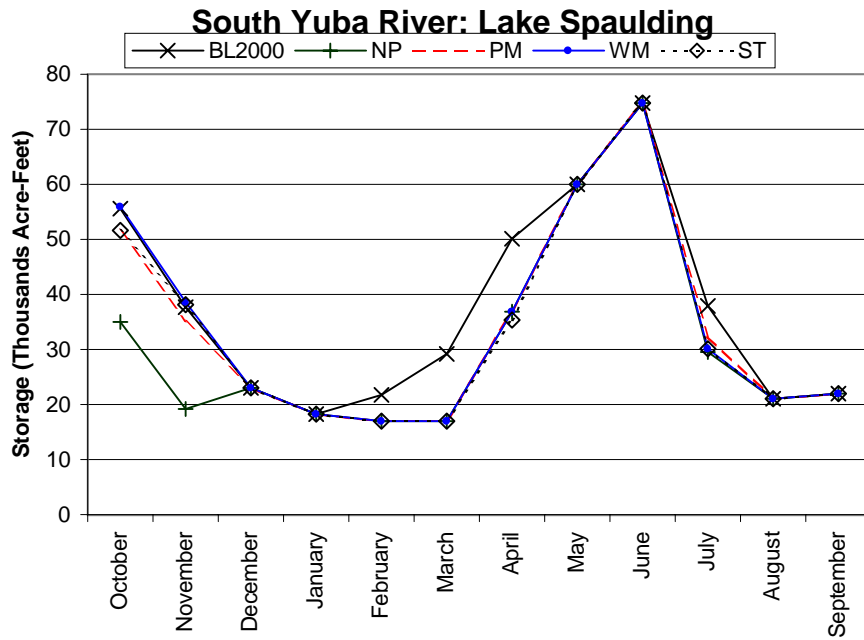
### South Yuba: Fordyce Lake



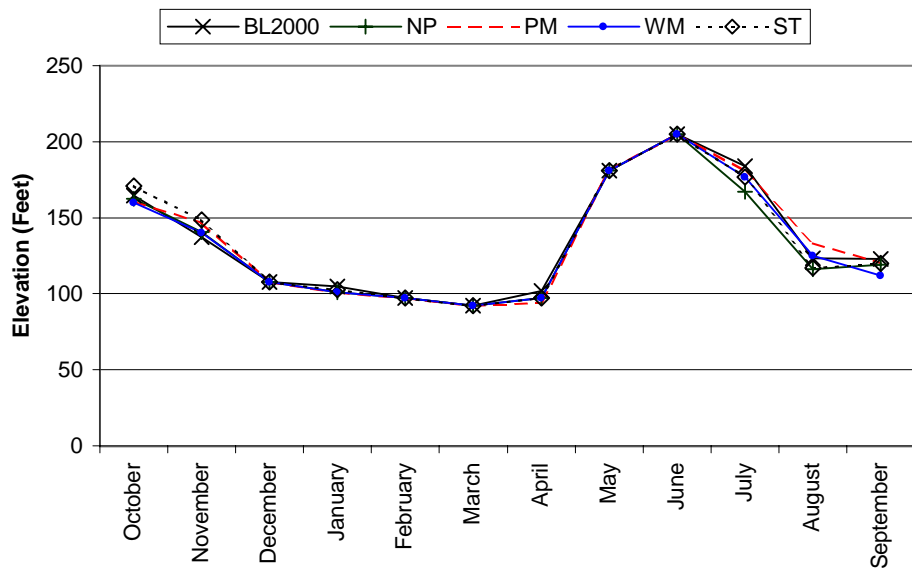
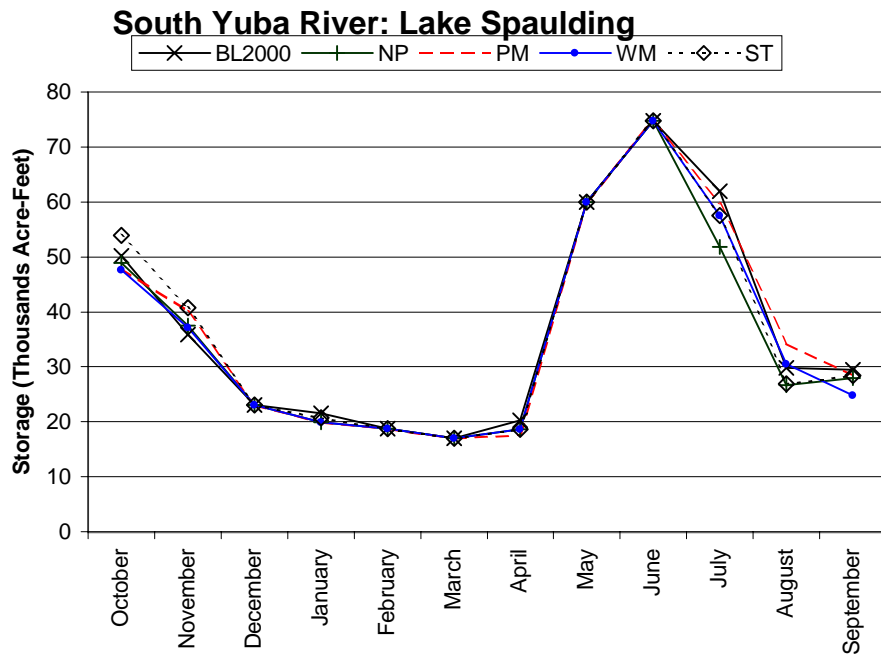
Drum: Appendix Figure-62 Modeled storage and elevations in a wet water year, 1983.



Drum: Appendix Figure-63 Modeled storage and elevations in a critically dry year, 1977.

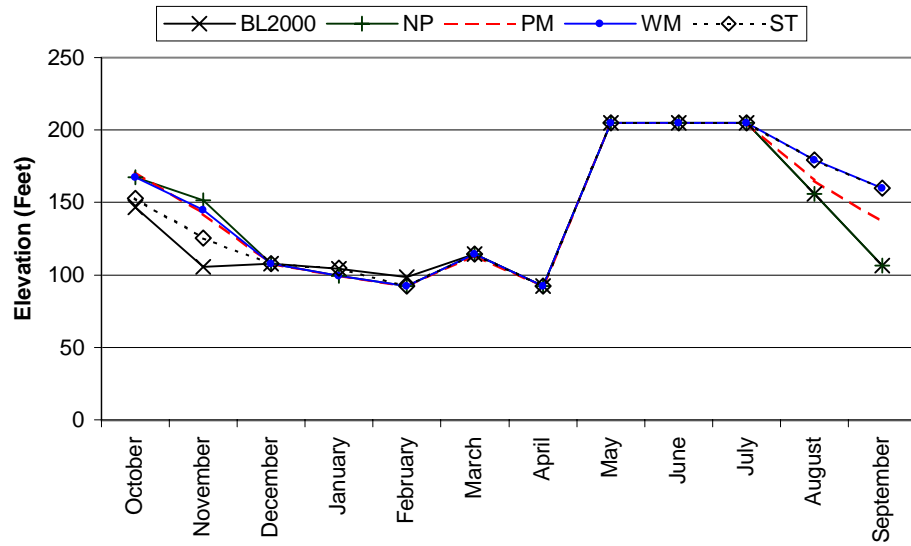
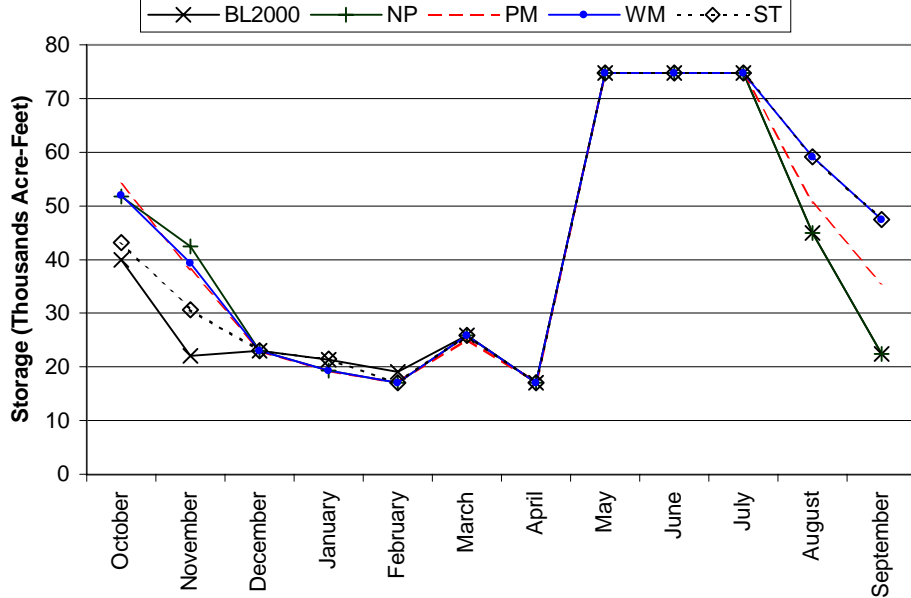


Drum: Appendix Figure-64 Modeled storage and elevations in a dry year, 1981.

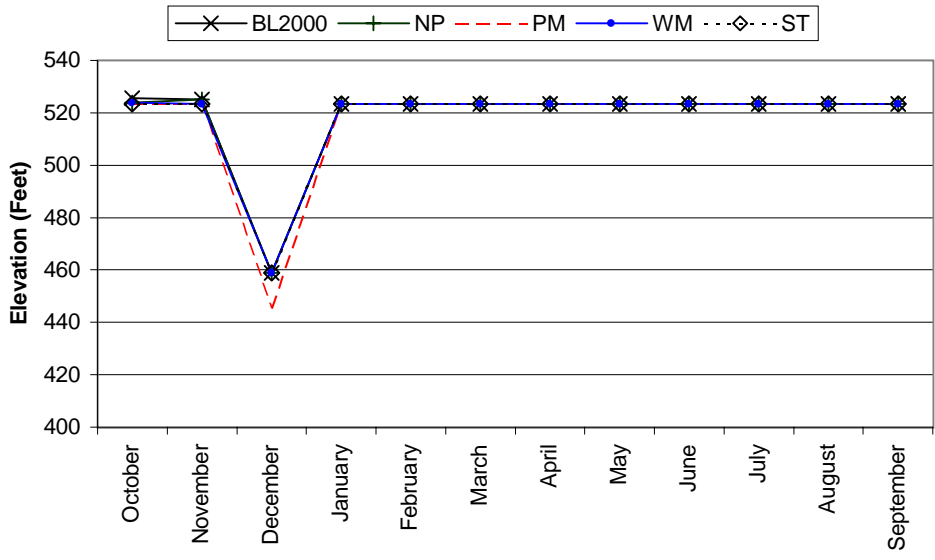
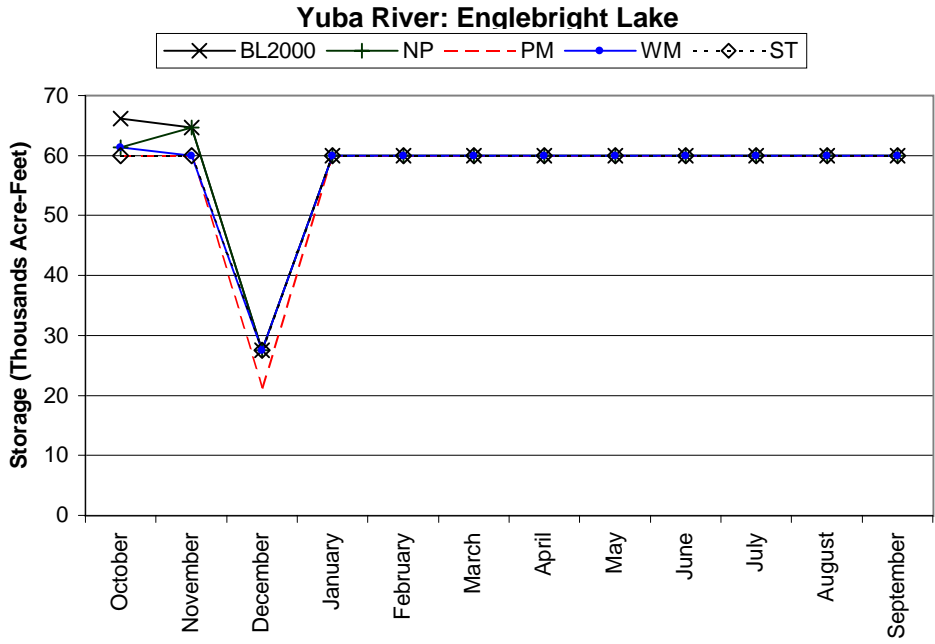


Drum: Appendix Figure-65 Modeled storage and elevations in a normal water year, 1979.

### South Yuba River: Lake Spaulding

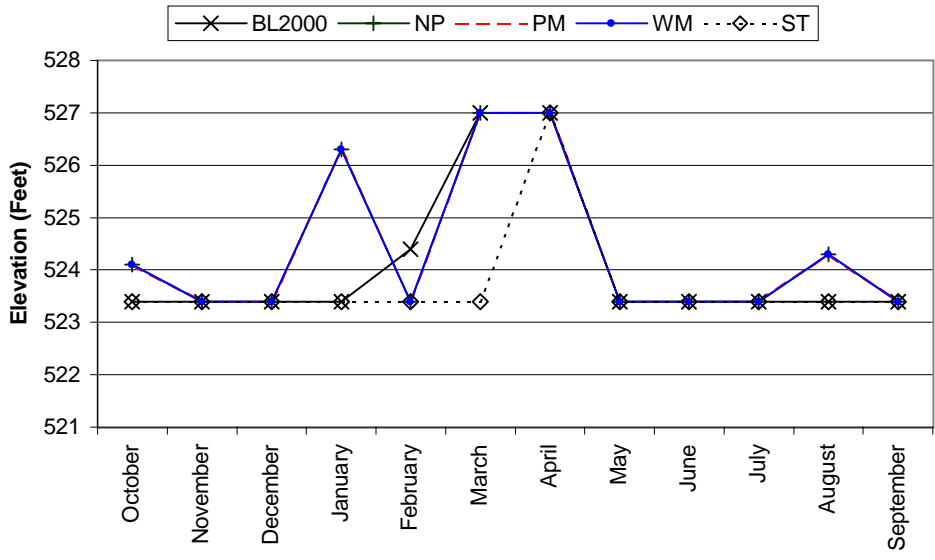
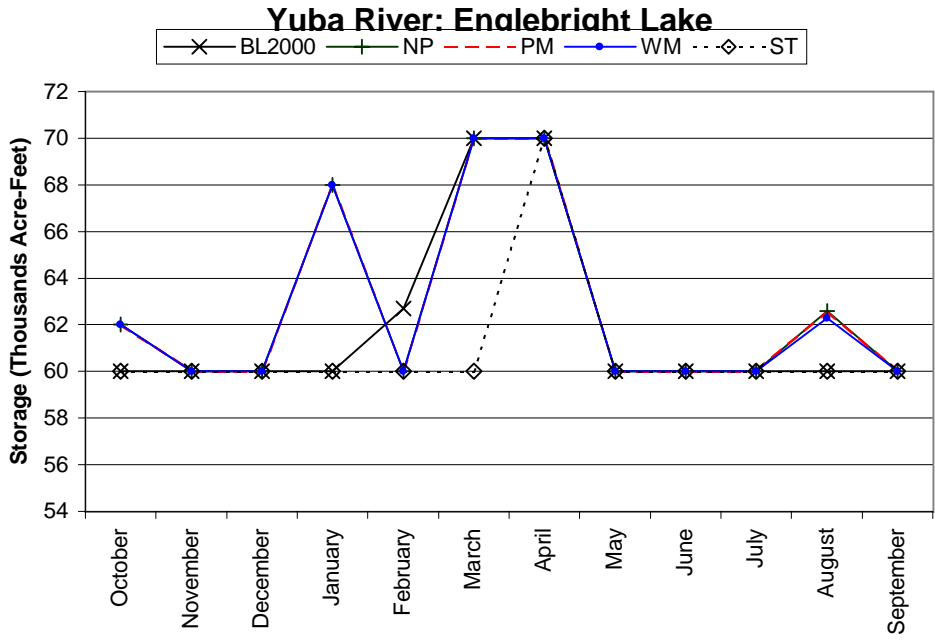


Drum: Appendix Figure-66 Modeled storage and elevations in a wet water year, 1983.

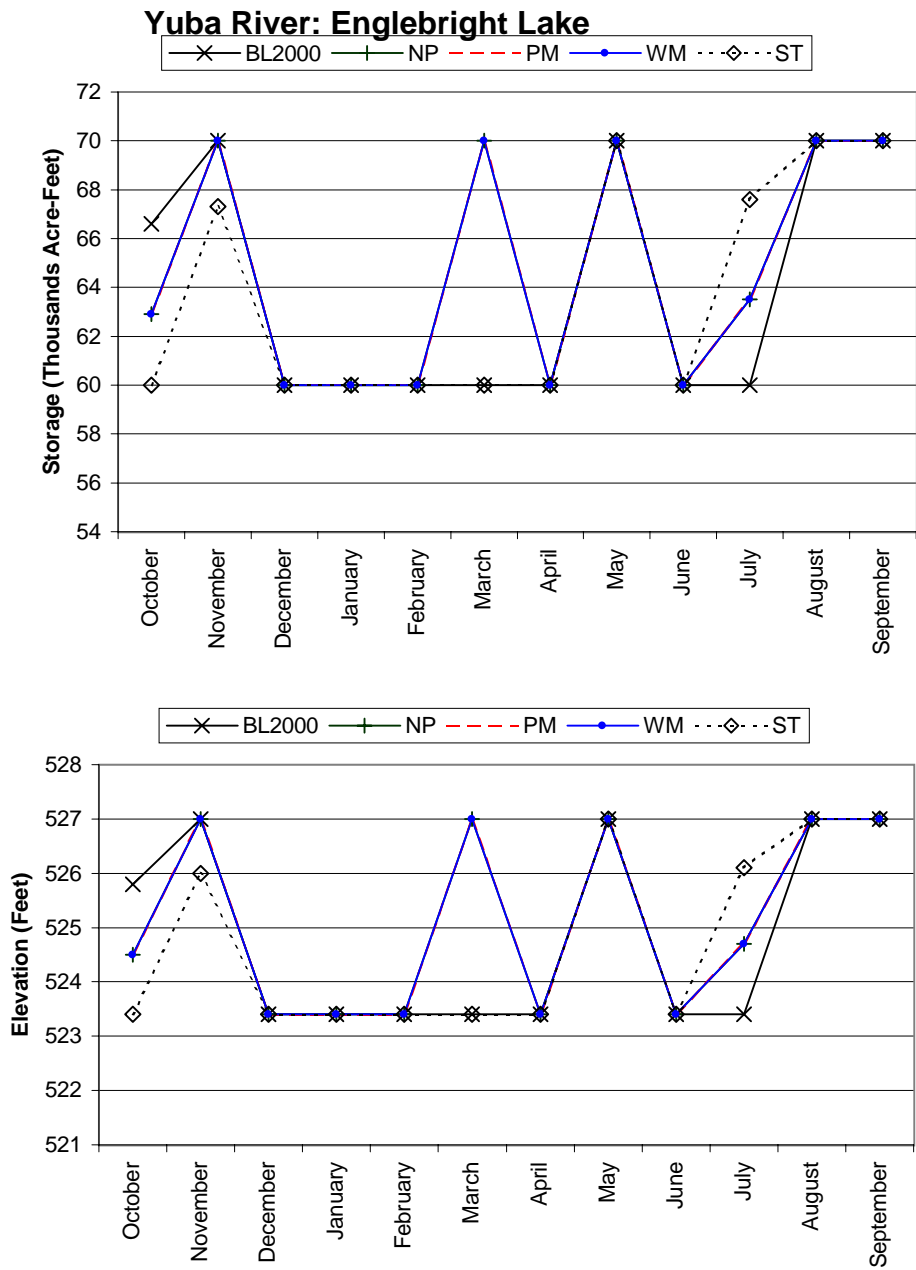


Drum : Appendix Figure-67 Modeled storage and elevations in a critically dry year, 1977.



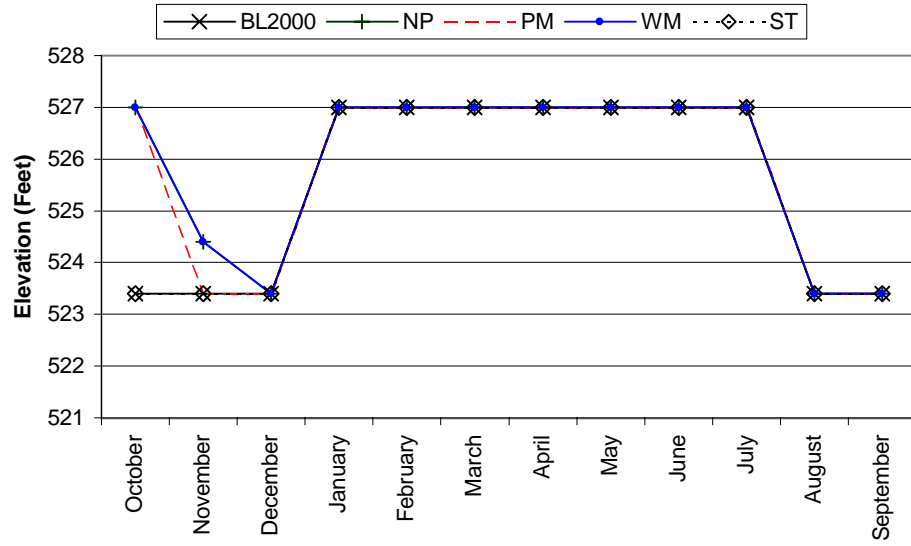
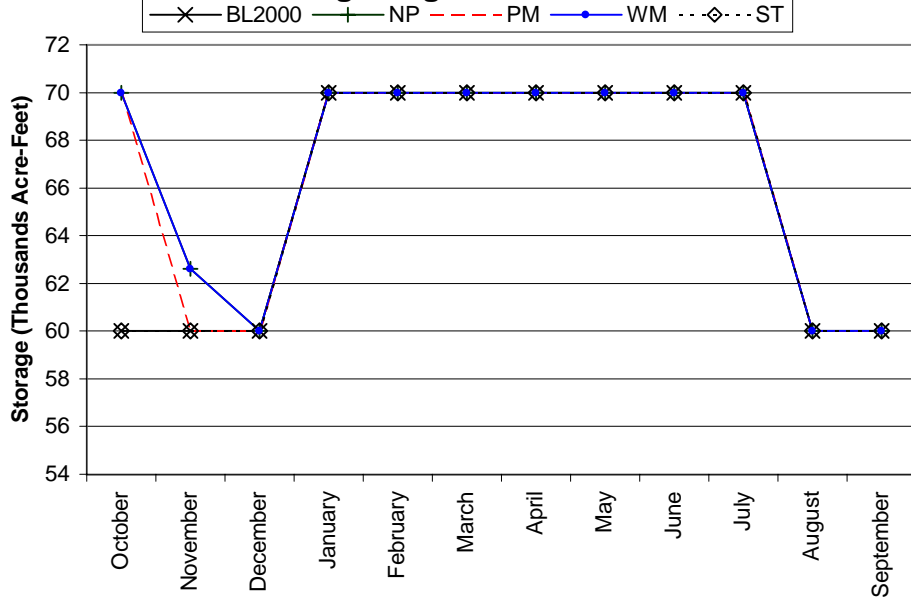


Drum : Appendix Figure-68 Modeled storage and elevations in a dry year, 1981.

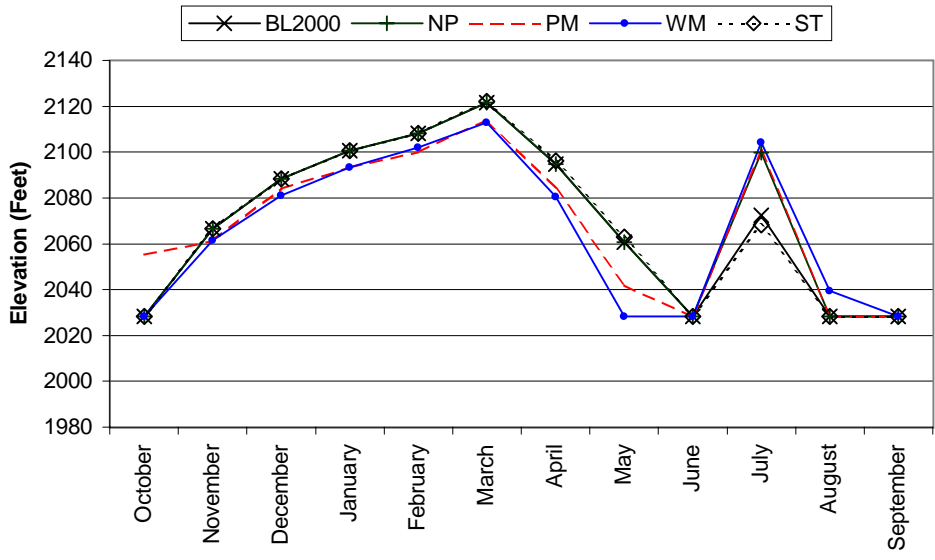
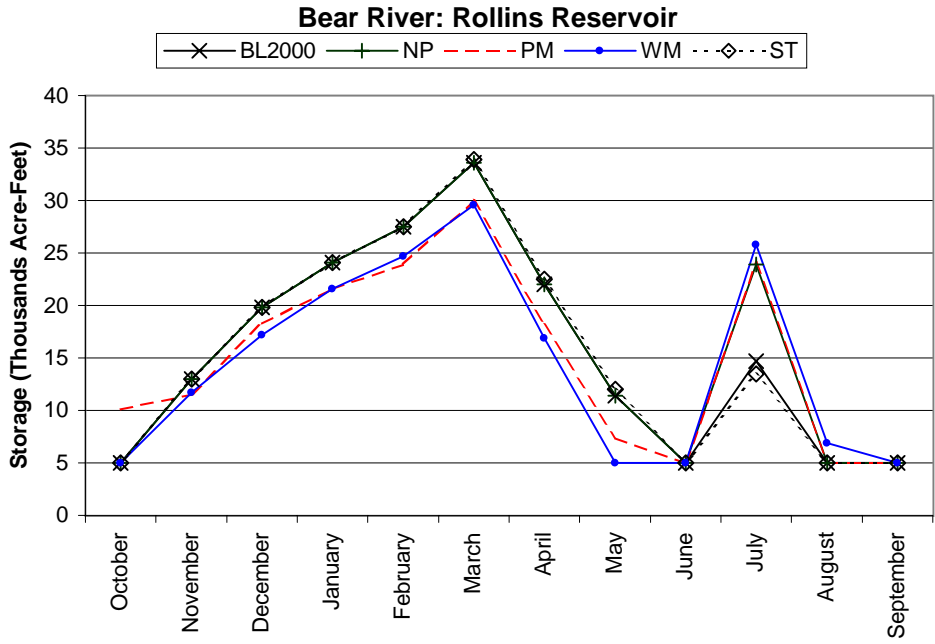


Drum : Appendix Figure-69 Modeled storage and elevations in a normal water year, 1979.

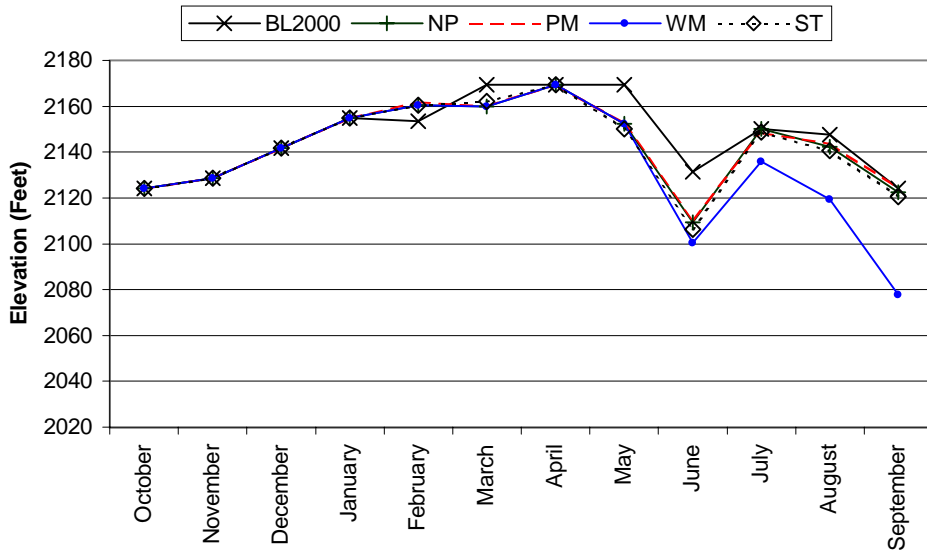
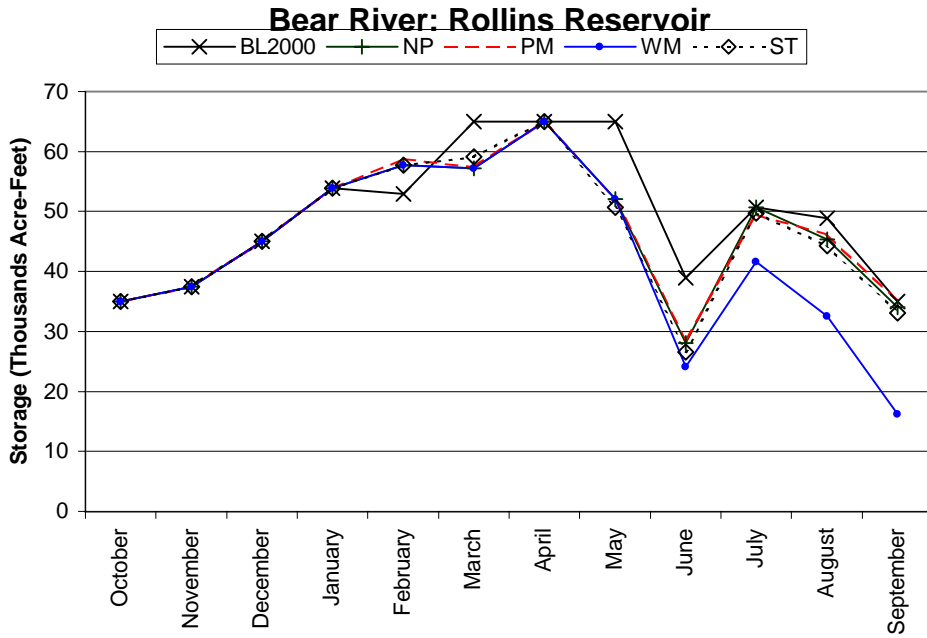
### Yuba River: Englebright Lake



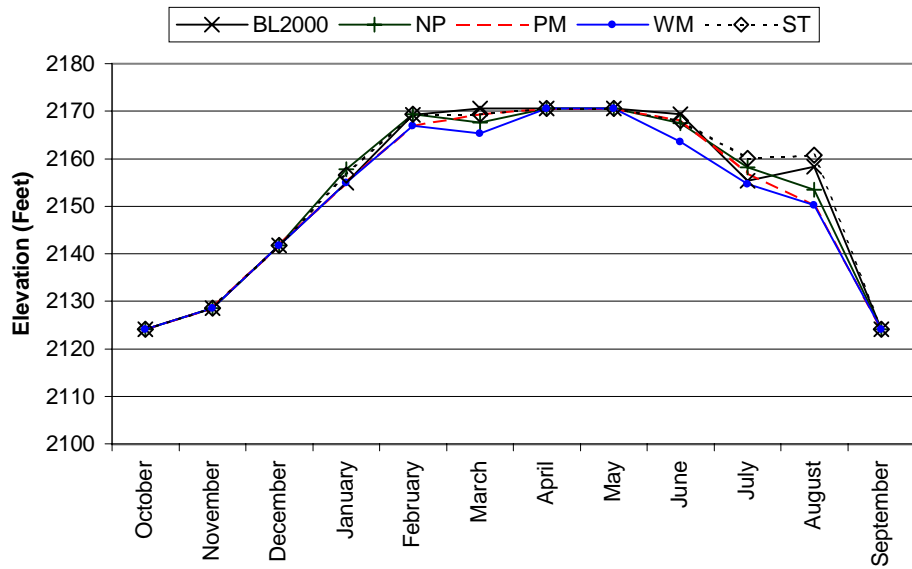
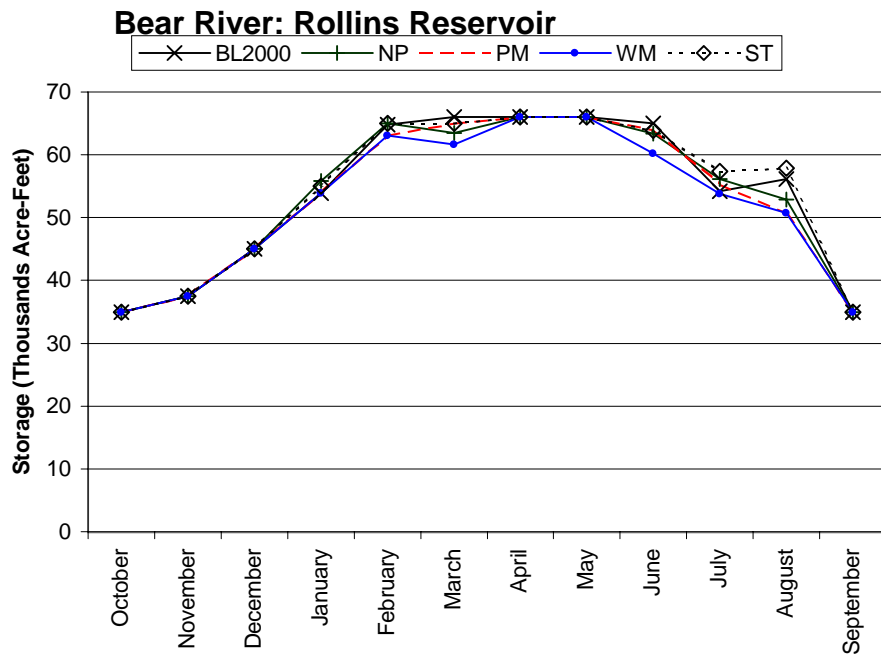
Drum : Appendix Figure-70 Modeled storage and elevations in a wet water year, 1983.



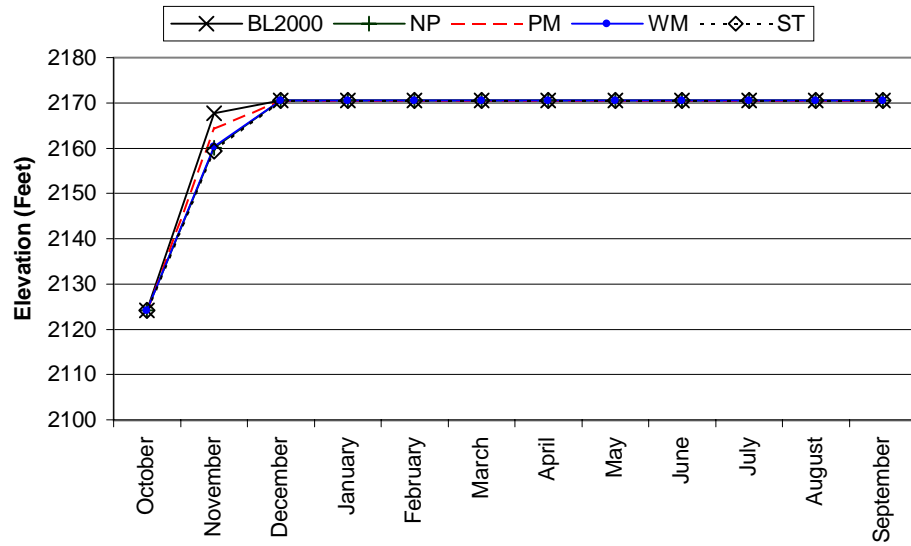
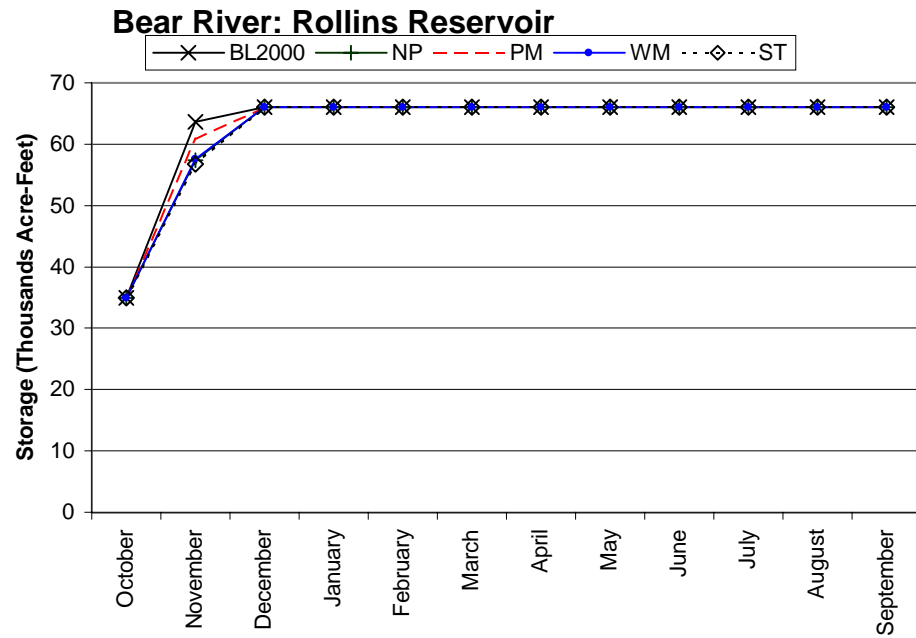
Drum: Appendix Figure-71 Modeled storage and elevations in a critically dry year, 1977.



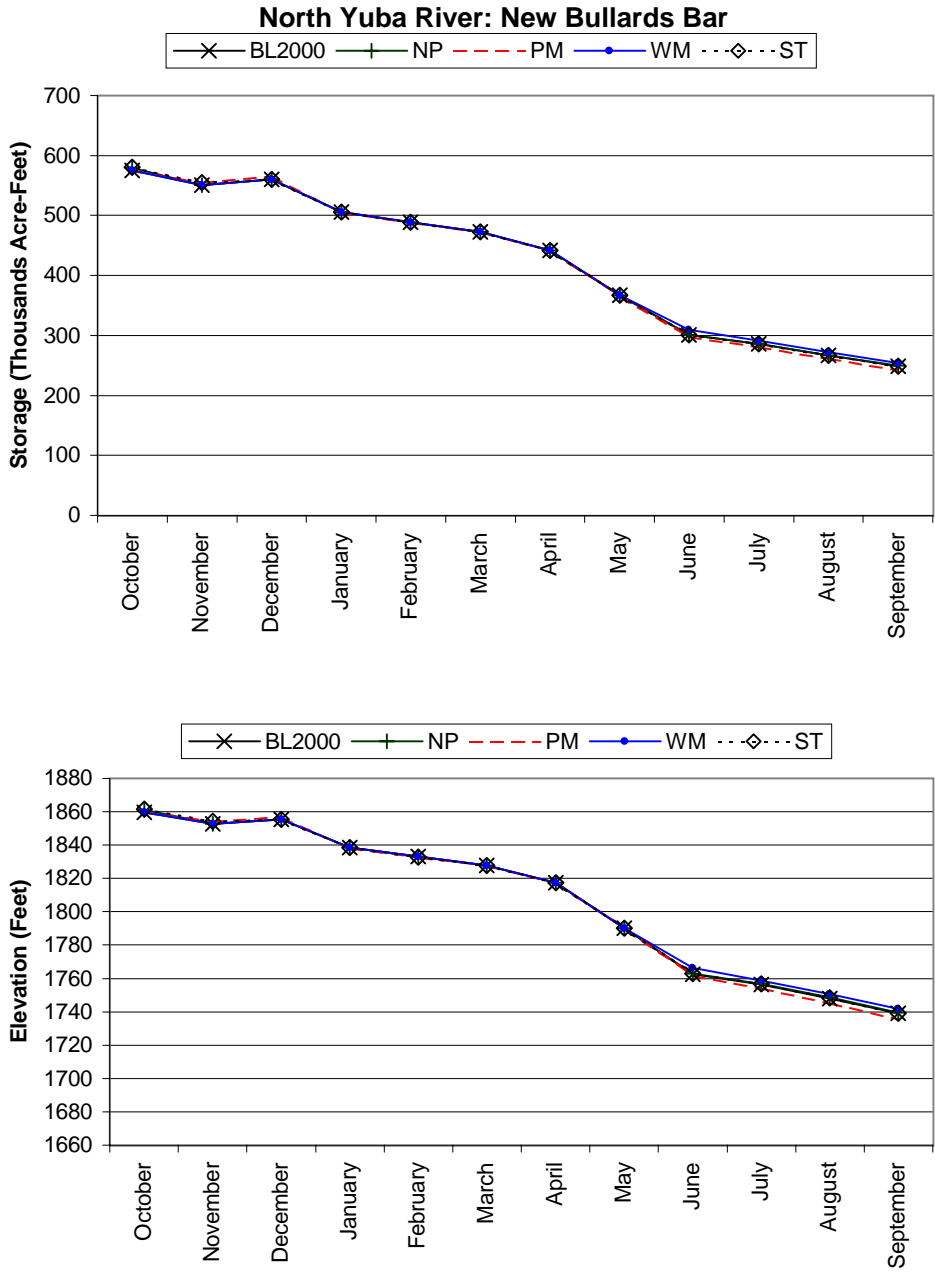
Drum: Appendix Figure-72 Modeled storage and elevations in a dry year, 1981.



Drum: Appendix Figure-73 Modeled storage and elevations in a normal water year, 1979.

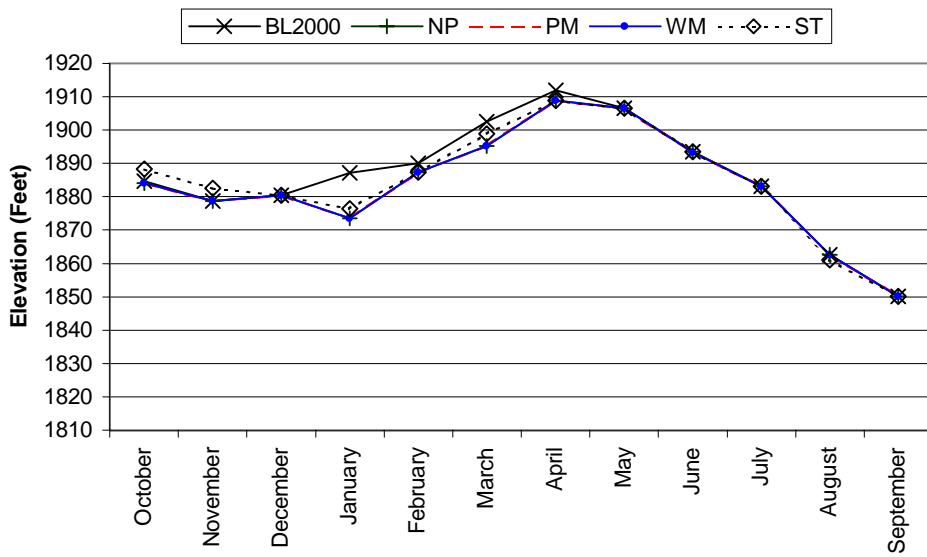
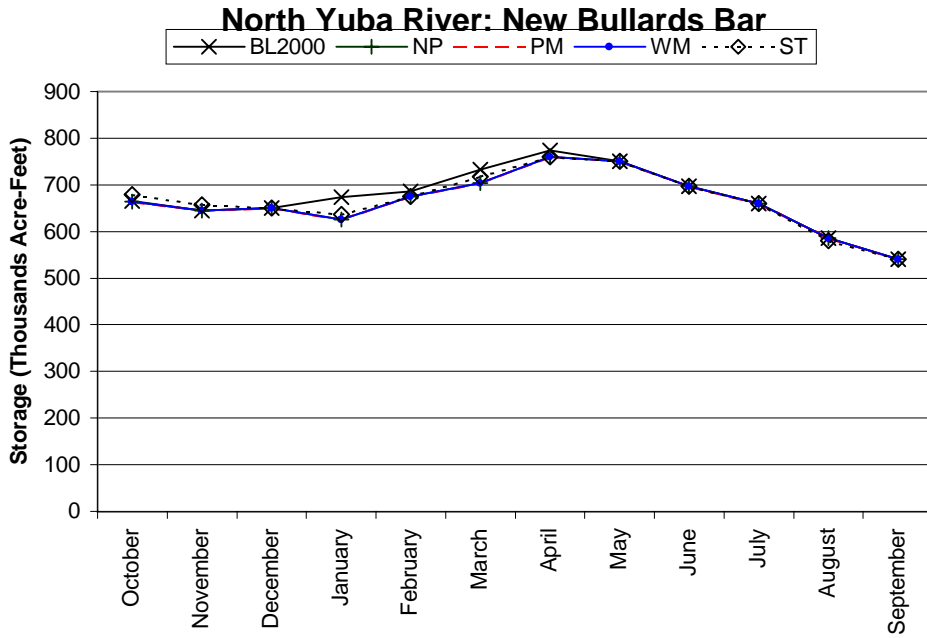


Drum: Appendix Figure-74 Modeled storage and elevations in a wet water year, 1983.



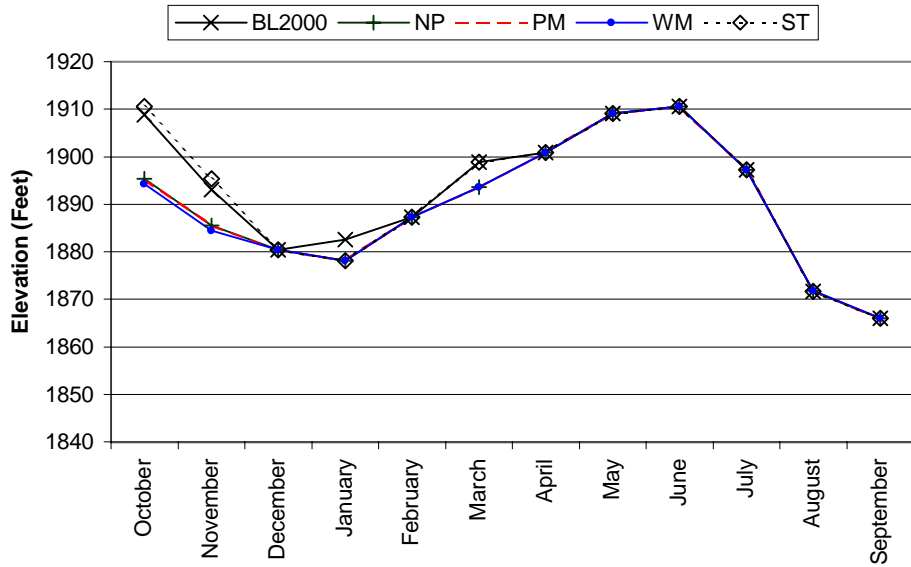
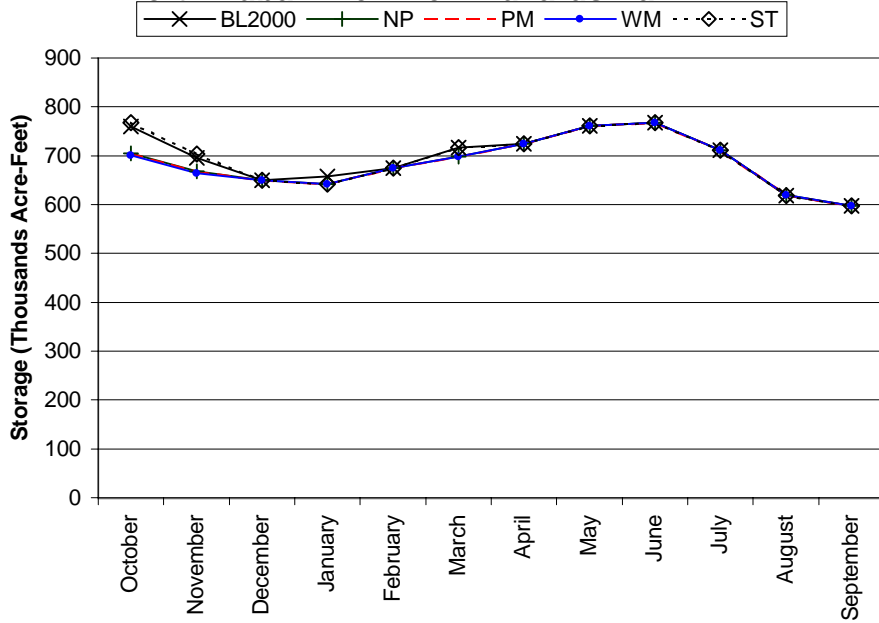
Drum: Appendix Figure-75 Modeled storage and elevations in a critically dry year, 1977.



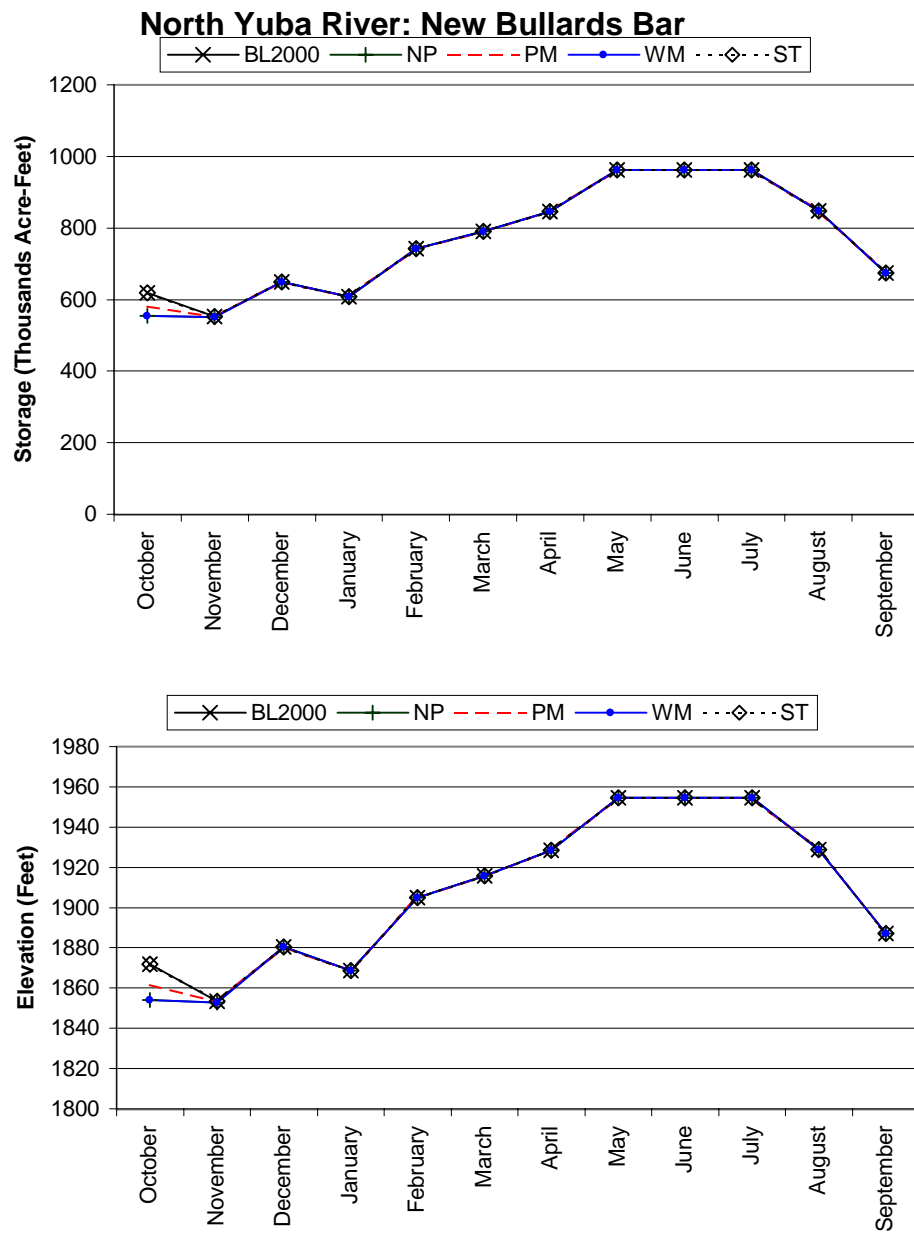


Drum: Appendix Figure-76 Modeled storage and elevations in a dry year, 1981.

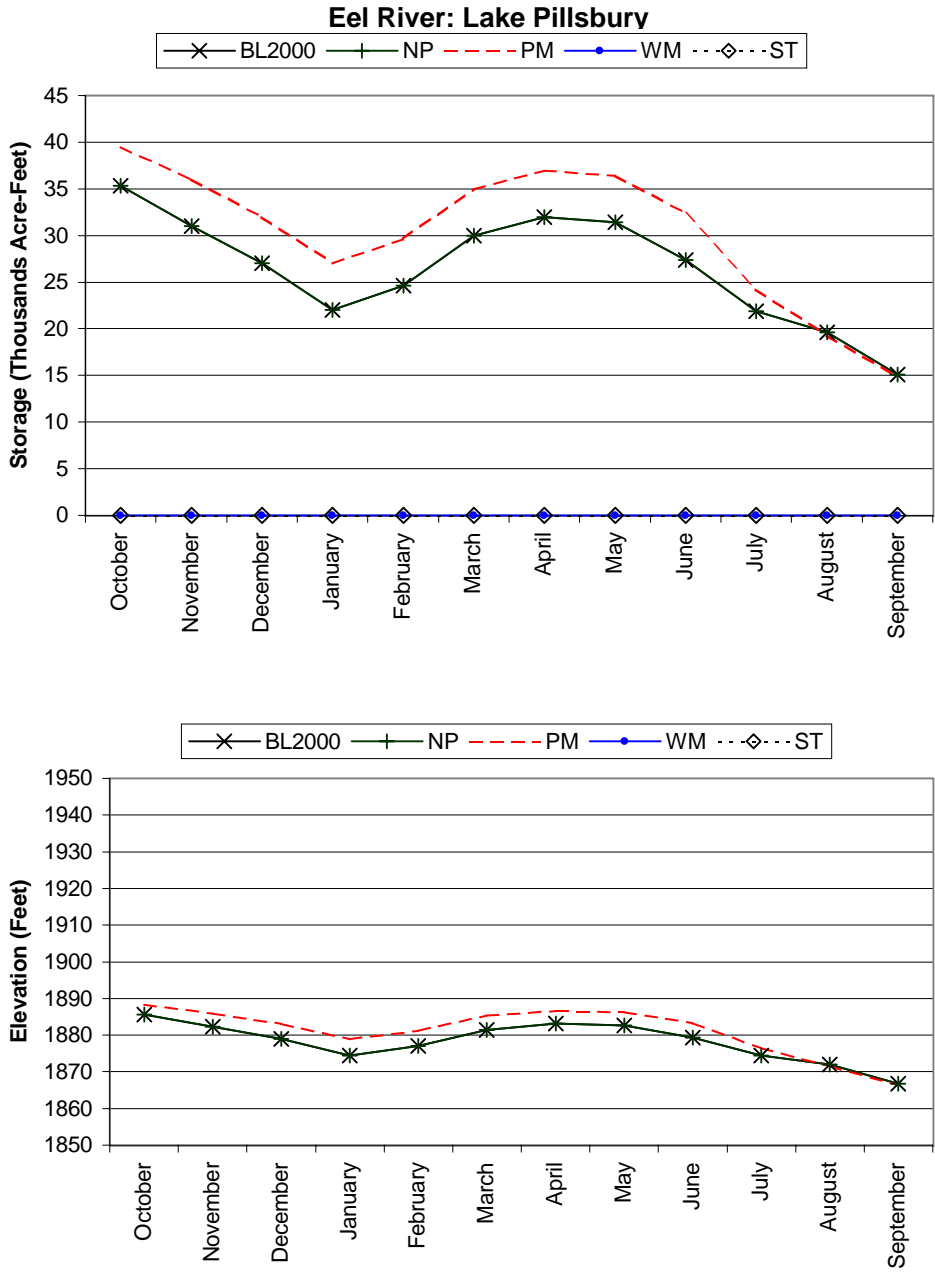
### North Yuba River: New Bullards Bar



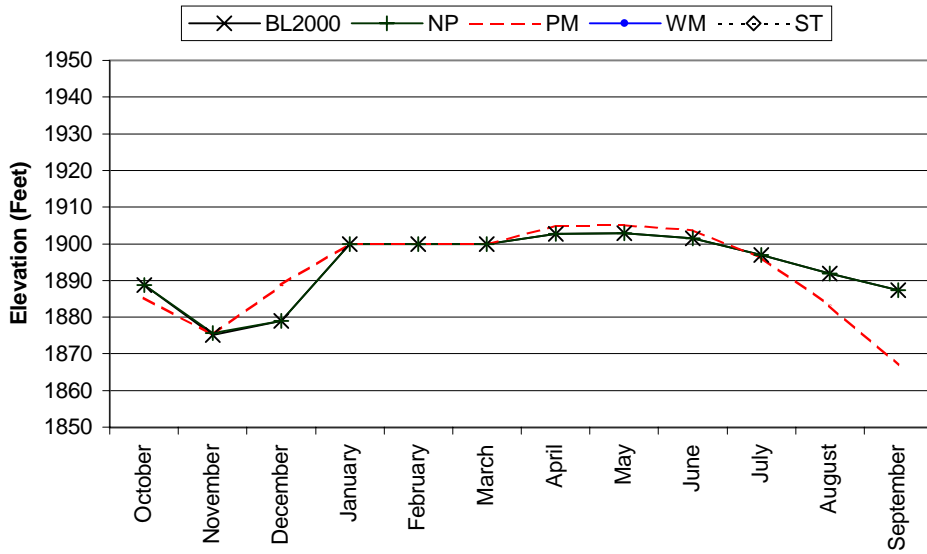
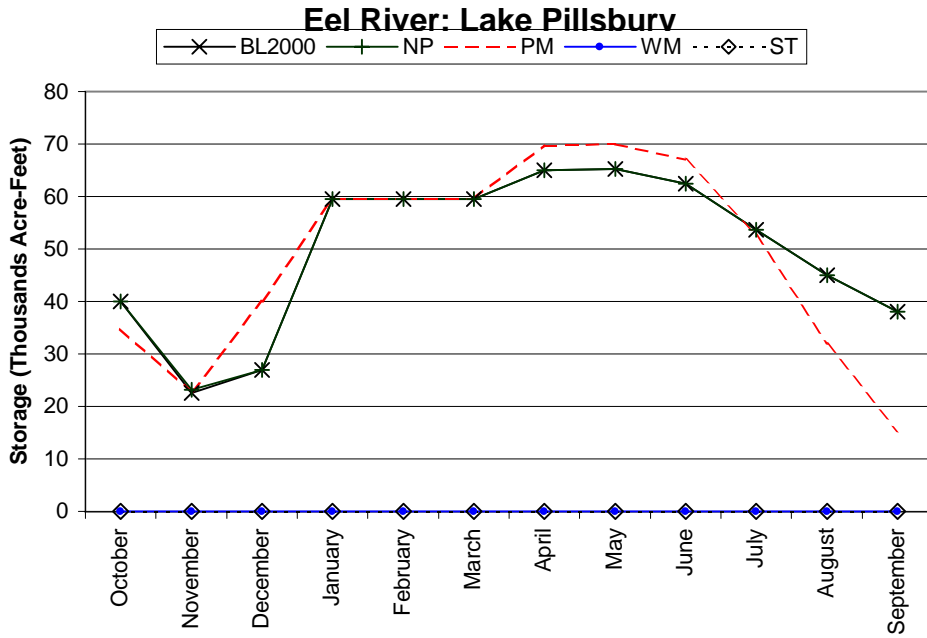
Drum: Appendix Figure-77 Modeled storage and elevations in a normal water year, 1979.



Drum: Appendix Figure-78 Modeled storage and elevations in a wet water year, 1983.

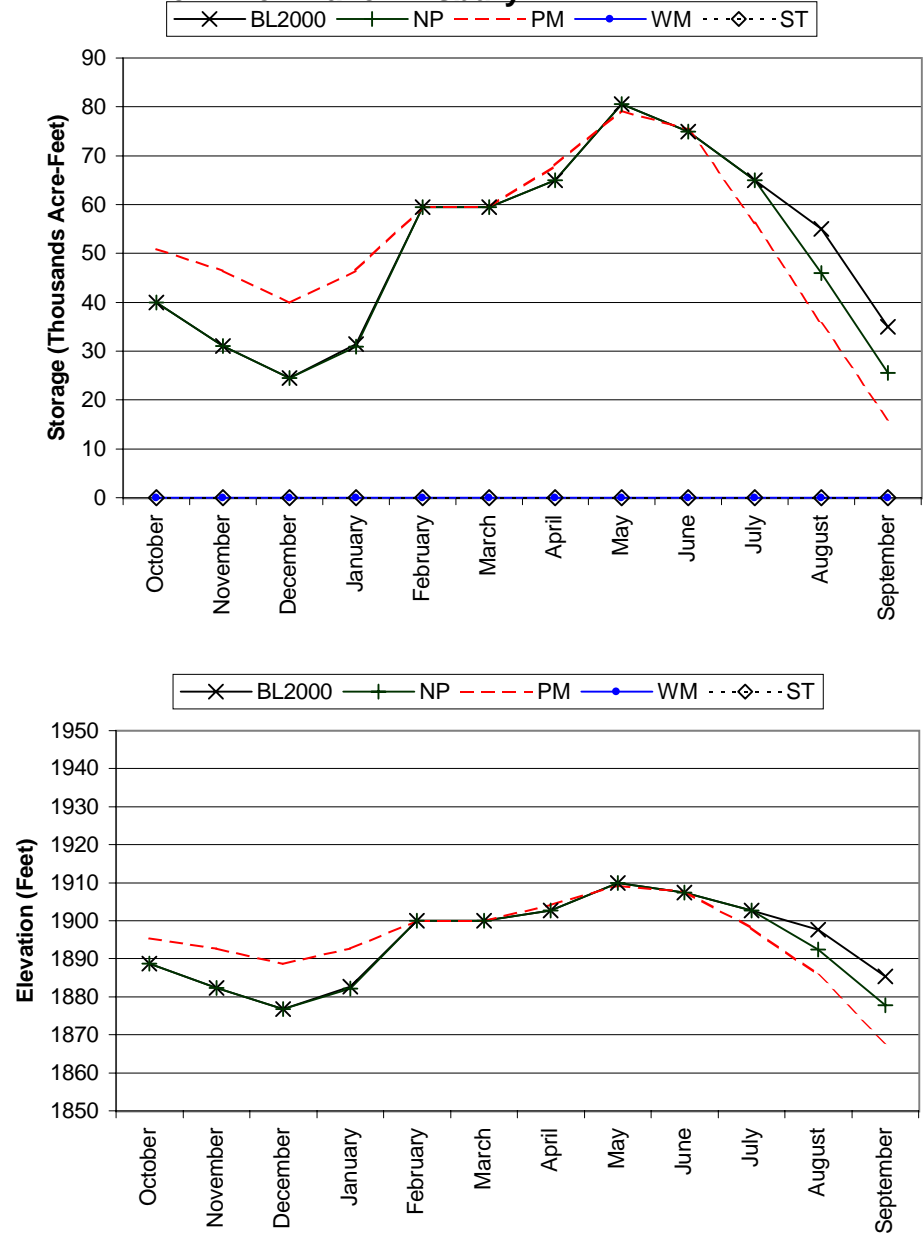


Drum: Appendix Figure-79 Modeled storage and elevations in a critically dry year, 1977.

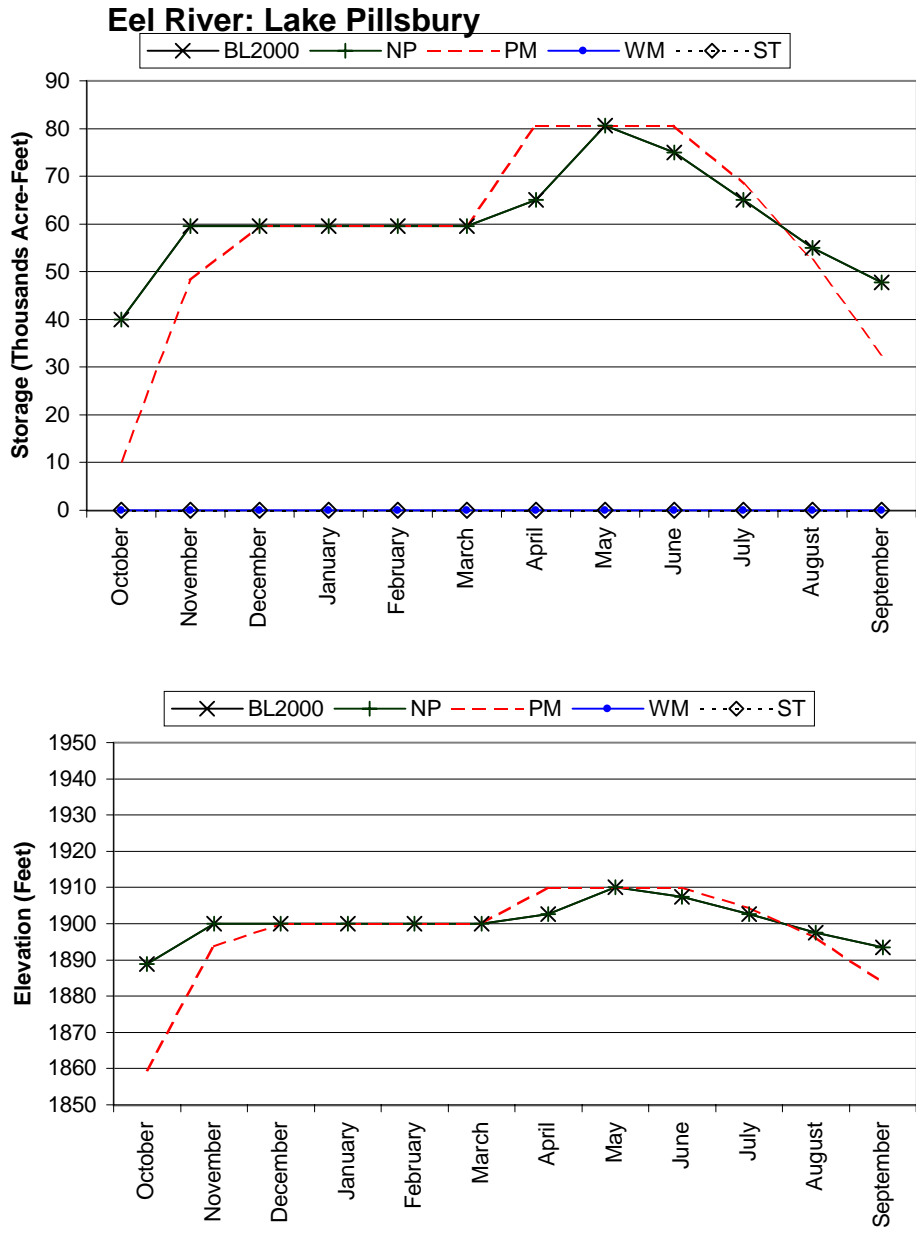


Drum: Appendix Figure-80 Modeled storage and elevations in a dry year, 1981.

### Eel River: Lake Pillsbury



Drum: Appendix Figure-81 Modeled storage and elevations in a normal water year, 1979.



Drum: Appendix Figure-82 Modeled storage and elevations in a wet water year, 1983.

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# **MOTHERLODE REGIONAL BUNDLE**

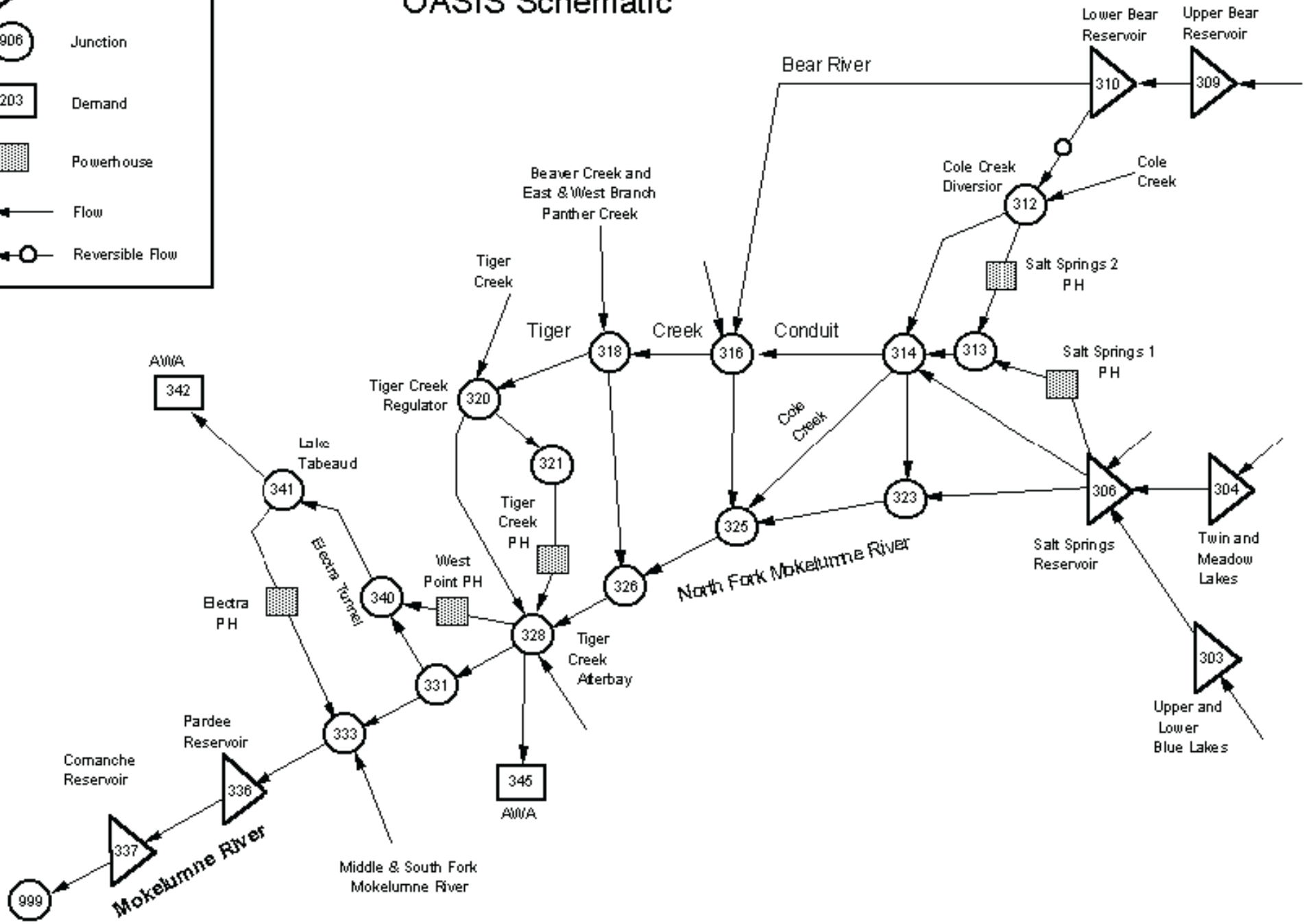
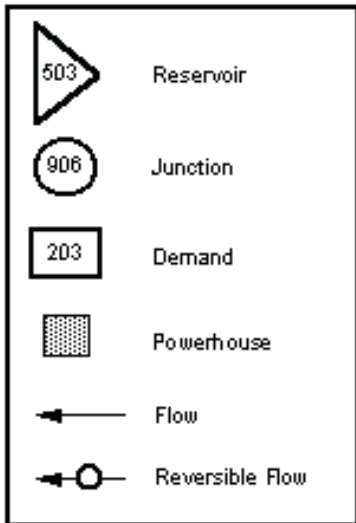
**FISHERIES TECHNICAL DATA AND FIGURES**

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# Mokelumne River Project

## OASIS Schematic





Motherlode: Appendix Table-1 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokolunne: Bear River  
 Location: odc 309-310  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 69                       | 100 | 123 | 69  | ZBF | ZBF | ZBF | ZBF | 155 | 155 | 25  | 155 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 0                        | 0   | 24  | 0   | 0   | 0   | 370 | 0   | 276 | 276 | 100 | 276 | 100 | 82  | 100 | 100 | 0   | 38  | 100 | 0   | 153 | 154 | 100 |    |
| 1980       | bove Norm       | 100                      | 111 | 100 | 100 | 36  | 100 | 100 | 36  | 225 | 100 | 100 | 225 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                      | 0   | 26  | 100 | 0   | 0   | 513 | 0   | 197 | 755 | 100 | 197 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 100 | 105 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                      | 105 | 100 | 100 | 100 | 100 | 242 | 100 | 100 | 100 | 74  | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 0   | 544 | 100 | 100 | 77  | 58  |    |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 106 | 100 | 100 | 100 | 188 | 100 | 100 | 100 | 88  |    |
| 1985       | Dry             | 100                      | 90  | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 120 | 24  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                      | 317 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 78  | 100 | 100 | 100 | 105 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                      | 162 | 100 | 100 | 86  | 51  | 100 | 86  | 120 | 171 | 100 | 120 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 82  | 121 |    |
| 1991       | Critical        | 100                      | 0   | 100 | 100 | 100 | 0   | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97  | 100 | 100 | 100 | 107 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                      | 27  | 26  | 100 | 0   | 0   | 781 | 0   | 134 | 358 | 100 | 134 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 47                       | 30  | 26  | 47  | ZBF | ZBF | ZBF | ZBF | 118 | 124 | 100 | 118 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                      | 395 | 100 | 100 | 35  | 104 | 223 | 35  | 115 | 99  | 72  | 115 | 100 | 100 | 100 | 100 | 100 | 100 | 179 | 100 | 100 | 99  | 100 |    |
| 1998       | Wet             | 100                      | 613 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 110 | 100 | 100 | 98  | 100 |    |
| 1999       | Wet             | 100                      | 28  | 24  | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 123 | 55  | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 95  | 256 | 100 | 100 | 100 | 59  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                    | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 118 | 129 | 78  | 118 | 79  | 66  | 126 | 79  | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 92                     | 85  | 78  | 92  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 107 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 120 | 100 | 100 | 56  | 0   |    |
| 1983       | Wet             | 100                    | 100 | 82  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 122 | 100 | 100 | 100 | 49  |    |
| 1984       | Wet             | 100                    | 100 | 76  | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 21  | 100 |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 83  | 100 | 100 | 100 | 24  |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 85  | 100 | 100 | 100 | 24  |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 43  |    |
| 1990       | Critical        | 118                    | 90  | 90  | 118 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 13  |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 175 | 100 | 100 | 100 | 65  | 132 | 100 | 100 | 19  | 0   |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 109 | 100 | 100 | 100 | 78  |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 83  | 100 | 100 | 100 | 23  |    |
| 1997       | Wet             | 100                    | 100 | 77  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 89  | 100 | 100 | 100 | 21  |    |
| 1998       | Wet             | 100                    | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 80  | 80  | 80  | 80  | 111 | 111 | 111 | 111 | 100 | 100 | 148 | 100 | 100 | 100 | 14  |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-2 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Mokelumne: Bear River  
 Location: Node 309-310  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1976       | Critical        | 1                        | -   | -   | 1   | ZBF | ZBF | ZBF | ZBF | -   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1978       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1979       | elow Norm       | 1                        | 1   | 1   | 1   | 1   | 1   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | 1   | 1   | -   | 1   | -   | -   | -   | -   |
| 1980       | bove Norm       | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1981       | Dry             | -                        | 1   | 1   | -   | 1   | 1   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1982       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1983       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1984       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1985       | Dry             | -                        | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | -   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1986       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1987       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   |
| 1988       | Critical        | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1989       | Dry             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1990       | Critical        | -                        | -   | -   | -   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1991       | Critical        | -                        | 1   | -   | -   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1992       | Critical        | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1993       | bove Norm       | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1994       | Critical        | -                        | 1   | 1   | -   | 1   | 1   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1995       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1996       | Wet             | 1                        | 1   | 1   | 1   | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1997       | Wet             | -                        | -   | -   | -   | 1   | -   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1998       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1999       | Wet             | -                        | 1   | 1   | -   | ZBF | ZBF | ZBF | ZBF | -   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |

Total Number of Events: 3 6 5 3 5 5 - 5 - - 5 - - 1 - 1 2 - 1 1 1 1 1

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |     |     |     |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|-----|-----|-----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |     |     |     | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM  | WM  | ST  | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | 1   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | 1   | 1  | -  | 1  | -   | -  | -  | -  |
| 1980       | bove Norm       | -                        | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | ZBF | ZBF | ZBF | ZBF | -   | -  | -  | -  | -   | -  | -  | -  |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1984       | Wet             | -                        | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1997       | Wet             | -                        | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  |

Total Number of Events: - - 3 - - - 1 - - - 1 - 1 2 - 1 - 11 7 -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | PM | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 8                              | 11 | 10 | 8  | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 2                              | 3  | 2  | 2  | Less                    | Less   | Less   | Less   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 1                              | 1  | 5  | 1  | Less                    | Less   | Less   | Less   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 4                              | 19 | 13 | 4  | Less                    | Potent | Potent | Less   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 9                              | 24 | 17 | 9  | Less                    | Potent | Less   | Less   |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 0                              | 0  | 4  | 0  | No                      | No     | Less   | No     |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 8                              | 11 | 5  | 8  | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-3 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokelumne Bear River  
 Location: odc 310-316  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | 100 | OTP | 100 | 100 | OTP | 100 | 100 | 2   | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 100 | 204 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 31  | 100 | 100 | 100 |     |    |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 2   | 1   | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 112 | 123 | 1   | 112 | 100 |     |    |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 730 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 4   | 4   | 2   | 4   | 100 | 100 |     |    |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 100 | 200 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 113 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |     |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 120 | 100 |    |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                    | 100 | 200 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 240 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1982       | Wet             | 100                    | 100 | 685 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 100 | 100 | 100 |     |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 9   | 100 | 100 | 100 |     |    |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1985       | Dry             | 100                    | 100 | 200 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1989       | Dry             | 100                    | 100 | 200 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | OTP | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 32  | 100 | 100 | 100 |     |    |
| 1996       | Wet             | 100                    | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |     |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-4 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Mokelumne: Bear River  
 Location: Node 310-316  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - - - - - 1 1 - - - - - 1 1 4 1 - - - - -

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - - - - - 1 - - - - - 2 - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |      |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|------|------|------|
|                                        |                |              | NP                             | PM | WS | ST | NP                      | HC   | WS   | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 0                              | 1  | 1  | 0  | No                      | Less | Less | No   |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 1                              | 1  | 4  | 1  | Less                    | Less | Less | Less |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 0                              | 0  | 1  | 0  | No                      | No   | Less | No   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 0                              | 0  | 3  | 0  | No                      | No   | Less | No   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 0                              | 1  | 4  | 0  | No                      | Less | Less | No   |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 0                              | 1  | 1  | 0  | No                      | Less | Less | No   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-5 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokelumne: Bear River  
 Location: odc 316-325  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 850 | 100 | 100 |    |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 1   | 1   | 1   | 1   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement





Motherlode: Appendix Table-7 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokelumne: Cole Creek Diversion  
 Location: odc 312-314  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Motherlode: Appendix Table-9 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokolunne Salt Springs PH Tailrace  
 Location: odc 314-323  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1976       | Critical        | 100                      | 100 | 113 | 229 | 100 | 233 | 100 | 100 | 57  | 24  | 8   | 57  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1978       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1979       | elow Norm       | 100                      | 100 | 100 | 100 | 17  | 17  | 17  | 17  | 29  | 29  | 29  | 29  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1980       | bove Norm       | 87                       | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 14  | 14  | 14  | 14  | OTP | OTP | 750 | 100 | 100 | OTP | OTP | 100 | 100 | 119 | 18  | 18  | 119 |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 21  | 24  | 21  | 21  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1982       | Wet             | 117                      | 100 | 100 | 100 | 100 | 11  | 11  | 11  | 100 | OTP | 100 | 100 | 6   | 100 | 6   | 100 | 4   | 4   | 81  | 100 | OTP | 100 | 100 | OTP |     |
| 1983       | Wet             | OTP                      | 100 | 100 | 100 | 100 | OTP | OTP | OTP | 7   | 7   | 97  | 100 | 297 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1984       | Wet             | 100                      | 100 | 11  | 100 | 100 | OTP | OTP | OTP | 100 | 6   | 6   | 6   | 100 | OTP | OTP | OTP | 100 | 6   | 90  | 6   | 9   | 100 | 124 | 100 |     |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 17  | 17  | 17  | 17  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1986       | Wet             | 84                       | 84  | 84  | 84  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 42  | 100 | 100 | 104 | 4   | 4   | 4   | 761 | 761 | OTP | 100 |     |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1990       | Critical        | 100                      | 100 | 86  | 100 | 100 | 100 | 100 | 100 | 16  | 16  | 16  | 16  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1991       | Critical        | 120                      | 100 | 120 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1994       | Critical        | 84                       | 84  | 84  | 84  | 22  | 22  | 22  | 22  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1996       | Wet             | 26                       | 26  | 31  | 26  | 100 | 100 | 100 | 100 | 84  | 119 | 26  | 84  | 100 | 100 | 100 | 100 | 78  | 17  | 85  | 5   | 100 | 100 | 218 | 100 |     |
| 1997       | Wet             | 120                      | 408 | 100 | 100 | 6   | 15  | 6   | 6   | OTP | OTP | 100 | 100 | 100 | 3   | 105 | 3   | 100 | 100 | 6   | 6   | OTP | 100 | 100 | 100 |     |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 31  | 31  | 31  | 31  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1999       | Wet             | 100                      | 399 | 119 | 100 | 344 | 344 | 100 | 100 | 100 | 411 | 100 | 707 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |     |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 500 | 100 | 100 | 500 | 177 | 8   | 8   | 177 | 217 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | OTP | OTP | OTP | 100 | OTP | OTP | OTP | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 77  | 77  | 77  | 77  |
| 1979       | elow Norm       | 100                    | 100 | 544 | 100 | 918 | 100 | 100 | 918 | 100 | 100 | 941 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1980       | bove Norm       | OTP                    | 100 | 100 | 100 | 100 | 100 | 500 | 100 | OTP | OTP | OTP | OTP | 100 | 13  | 100 | 13  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 88  | 88  | 88  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1982       | Wet             | 100                    | 100 | 146 | 100 | 100 | 100 | 128 | 100 | 100 | 6   | 100 | 6   | 658 | 825 | 658 | 100 | 100 | 13  | 13  | 13  | 100 | 100 | 100 | 100 |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 162 | 100 | 100 | 4   | 99  | 4   | 100 | 6   | 100 | 100 | 967 | 100 | 843 | 967 | 100 | 137 | 13  | 100 |
| 1984       | Wet             | 100                    | 13  | 13  | 100 | 500 | 100 | 100 | 100 | 100 | 120 | 103 | 18  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1985       | Dry             | 835                    | 100 | 100 | 100 | 180 | 113 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1986       | Wet             | 100                    | OTP | 100 | OTP | 100 | 100 | 100 | 100 | 16  | 118 | 100 | 16  | 100 | 119 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 124 | 13  | 13  | 124 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 346 | 346 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry             | 100                    | 100 | 124 | 7   | 500 | 500 | 100 | 500 | 100 | 100 | 521 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 113 | 113 | 100 | 100 | 100 | 100 | 84  | 84  | 84  | 84  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 113 | 32  | 100 | 32  | 32  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | bove Norm       | OTP                    | 100 | OTP | OTP | 100 | 100 | OTP | 100 | OTP | OTP | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet             | 100                    | OTP | OTP | OTP | 20  | 20  | 153 | 20  | 100 | 100 | 5   | 100 | 100 | 100 | 100 | 100 | 111 | 15  | 15  | 15  | 100 | 100 | 100 | 100 |
| 1996       | Wet             | 8                      | 8   | 175 | 100 | 100 | 100 | 100 | 100 | 101 | 110 | 11  | 11  | 119 | 190 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1997       | Wet             | 975                    | 100 | 100 | 100 | 500 | 500 | 596 | 500 | 16  | 118 | 129 | 16  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 113 | 100 | 17  | 17  | 17  | 88  | 106 | 9   | 106 | 106 | 100 | 100 | 100 | 100 | 61  | 61  | 61  | 61  |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-10 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Mokelumne Salt Springs PH Tailrace  
 Location: Node 314-323  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |     |     |     |     |     |    |    |     |     |     |     |     |     |     |    |     |    |     |    |
|------------|-----------------|--------------------------|----|----|----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|----|
|            |                 | Oct                      |    |    |    | Nov |     |     |     | Dec |     |    |    | Jan |     |     |     | Feb |     |     |    | Mar |    |     |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM  | WM  | ST  | NP  | PM  | WM | ST | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST | NP  | PM | WM  | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -   | -   | -   | 1   | 1   | 1  | 1  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | 1   | 1   | 1   | 1   | 1   | 1   | 1  | 1  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -   | -   | -   | 1   | 1   | 1  | 1  | OTP | OTP | -   | -   | -   | OTP | OTP | -  | -   | 1  | 1   |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -   | -   | -   | 1   | 1   | 1  | 1  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | 1   | 1   | 1   | -   | OTP | -  | -  | 1   | -   | 1   | -   | -   | -   | -   | -  | OTP | -  | OTP |    |
| 1983       | Wet             | OTP                      | -  | -  | -  | -   | OTP | -   | -   | 1   | 1   | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1984       | Wet             | -                        | -  | 1  | -  | -   | OTP | OTP | OTP | -   | 1   | 1  | 1  | -   | OTP | OTP | OTP | -   | 1   | -   | 1  | 1   | -  | -   |    |
| 1985       | Dry             | -                        | -  | -  | -  | 1   | 1   | 1   | 1   | -   | -   | -  | -  | -   | 1   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -  | -  | -   | 1   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -   | -   | -   | 1   | 1   | 1  | 1  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1994       | Critical        | -                        | -  | -  | -  | 1   | 1   | 1   | 1   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1996       | Wet             | 1                        | 1  | 1  | 1  | -   | -   | -   | -   | 1   | -   | 1  | 1  | -   | -   | -   | -   | 1   | 1   | -   | 1  | -   | -  | -   |    |
| 1997       | Wet             | -                        | -  | -  | -  | 1   | 1   | 1   | 1   | OTP | OTP | -  | -  | -   | 1   | -   | 1   | -   | -   | 1   | 1  | OTP | -  | -   |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -  | -   |    |

Number of Events: 1 1 2 1 4 5 5 5 8 8 8 8 1 2 1 1 2 4 2 4 1 1 1 -

| Water Year | Water Year Type | Habitat Reduction Events |     |     |     |     |     |     |    |     |     |     |     |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |     |     |     | May |     |     |    | Jun |     |     |     | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST | NP  | PM  | WM  | ST  | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -   | -   | -   | OTP | OTP | OTP | -  | OTP | OTP | OTP | OTP | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  |
| 1979       | elow Norm       | -                        | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | OTP                      | -   | -   | -   | -   | -   | -   | -  | OTP | OTP | OTP | OTP | -   | 1  | -  | 1  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -  | -   | 1   | -   | 1   | -   | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -   | -   | 1  | -  | -  | -   | -  | -  | -  | -   | 1  | -  |    |
| 1984       | Wet             | -                        | 1   | 1   | -   | -   | -   | -   | -  | -   | -   | -   | 1   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | OTP | -   | OTP | -   | -   | -   | -  | 1   | -   | -   | 1   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -   | -   | -   | -   | -   | -   | -  | -   | 1   | 1   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -   | -   | 1   | -   | -   | -   | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -   | -   | -   | -   | -   | -   | -  | OTP | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -   | -   | -   | -   | -   | -   | -  | 1   | -   | 1   | 1   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | OTP                      | -   | OTP | OTP | -   | -   | OTP | -  | OTP | OTP | OTP | OTP | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -   | -   | -   | -   | -   | -   | -  | -   | OTP | OTP | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | OTP | OTP | OTP | 1   | 1   | -   | 1  | -   | -   | 1   | -   | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  |    |
| 1996       | Wet             | 1                        | 1   | -   | -   | -   | -   | -   | -  | -   | -   | 1   | 1   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -  | 1   | -   | -   | 1   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -  | 1   | 1   | 1   | -   | -   | 1  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  |    |
| 1999       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Number of Events: 1 2 1 1 1 1 - 1 4 5 6 7 - 3 - 1 - 2 2 2 2 2 2 3 2

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 13                             | 14 | 15 | 14 | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 4                              | 7  | 4  | 5  | Less                    | Less   | Less   | Less   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 7                              | 9  | 8  | 9  | Less                    | Less   | Less   | Less   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 7                              | 13 | 13 | 13 | Less                    | Potent | Potent | Potent |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 13                             | 21 | 19 | 20 | Less                    | Potent | Less   | Potent |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 2                              | 3  | 1  | 2  | Less                    | Less   | Less   | Less   |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 5                              | 6  | 7  | 6  | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-11 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokolunne: North Fork Mokolunne River  
 Location: ode 304-306  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                      | 162 | 100 | 100 | 100 | 398 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                      | 153 | 100 | 100 | 100 | 138 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                      | 157 | 100 | 100 | 100 | 184 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                      | 161 | 100 | 100 | 100 | 486 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                      | 189 | 100 | 100 | 100 | 610 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                      | 152 | 100 | 100 | 100 | 472 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                      | 191 | 100 | 100 | 100 | 630 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 89                       | 109 | 117 | 89  | 100 | 211 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                      | 172 | 100 | 100 | 100 | 735 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 10  | 100 | 100 | 100 | 100 | 121 | 100 | 100 | 100 | 265 |    |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 14  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 138 | 100 |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 81  | 11  | 100 | 100 | 100 | 25  | 91  | 100 | 100 | 336 | 260 |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 15  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 121 | 100 |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 14  | 100 | 100 | 100 | 326 | 568 | 100 | 100 | 79  | 30  |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 60  | 11  | 100 | 100 | 100 | 480 | 102 | 100 | 100 | 241 | 100 |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 20  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 53  | 100 |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 46  | 100 | 100 | 100 | 330 | 100 | 100 | 100 | 115 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 281 | 100 | 108 | 62  | 12  |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 10  | 100 | 100 | 100 | 138 | 100 | 100 | 100 | 265 | 100 |    |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement



Motherlode: Appendix Table-13 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokolunne: Blue Creek/Deer Creek  
 Location: odc 303-306  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 89  | 100 | 100 | 100 | 120 | 100 | 100 | 100 | 100 | 100 |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 56  | 100 | 100 | 56  | 100 | 100 | 100 | 100 | 120 | 100 | 100 | 120 |
| 1978       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 120 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 94  | 100 |
| 1979       | elow Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 142 | 100 | 100 | 100 | 45  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1980       | bove Norm       | 100                      | 187 | 100 | 100 | 100 | 222 | 100 | 100 | 100 | 100 | 131 | 100 | 100 | 100 | 100 | 100 | 100 | 92  | 100 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 148 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 37  | 100 |     |
| 1982       | Wet             | 100                      | 195 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1985       | Dry             | 100                      | 175 | 100 | 100 | 100 | 165 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 145 | 145 | 100 | 100 | 130 | 100 | 100 | 100 | 93  | 96  | 100 |
| 1986       | Wet             | 100                      | 149 | 100 | 100 | 100 | 172 | 100 | 100 | 100 | 100 | 137 | 127 | 100 | 100 | 90  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 100                      | 184 | 100 | 100 | 100 | 280 | 148 | 100 | 60  | 60  | 46  | 60  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 320 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 31  | 100 |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 100                      | 165 | 100 | 100 | 100 | 232 | 100 | 100 | 100 | 100 | 132 | 100 | 40  | 140 | 40  | 40  | 100 | 945 | 100 | 100 | 116 | 10  | 10  | 116 |
| 1991       | Critical        | 100                      | 173 | 100 | 100 | 100 | 187 | 100 | 100 | 100 | 214 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 300 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 61  | 100 |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 385 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 145 | 100 | 100 | 100 | 100 | 100 | 27  | 27  | 27  | 27  | 350 | 350 | 105 | 350 |
| 1995       | Wet             | 100                      | 244 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 410 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 238 | 100 | 100 | 100 | 91  | 100 | 100 | 100 | 100 | 100 |
| 1997       | Wet             | 100                      | 57  | 100 | 100 | 100 | 176 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 100                      | 198 | 100 | 100 | 100 | 263 | 143 | 100 | 100 | 100 | 86  | 100 | 100 | 64  | 70  | 100 | 100 | 244 | 373 | 100 | 100 | 100 | 71  | 100 |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 104 | 62  | 104 | 104 | 104 | 92  | 47  | 92  | 92  | 100 | 105 | 100 | 100 |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1981       | Dry             | 100                    | 100 | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 51  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 45  | 100 | 100 |     |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 119 | 100 | 100 | 100 | 100 | 144 | 43  | 170 | 100 | 58  | 63  | 58  | 100 |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 54  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 41  | 100 | 100 |     |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 26  | 120 | 100 | 100 | 104 | 74  | 100 |     |
| 1987       | Dry             | 99                     | 113 | 100 | 99  | 114 | 100 | 100 | 114 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 33  | 70  | 70  | 70  | 100 | 100 | 227 | 227 | 100 | 107 | 100 | 100 |
| 1990       | Critical        | 100                    | 100 | 138 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 48  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 41  | 100 | 100 |     |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1994       | Critical        | 73                     | 73  | 73  | 73  | 100 | 100 | 72  | 100 | 100 | 100 | 279 | 100 | 151 | 151 | 233 | 151 | 100 | 100 | 100 | 100 | 124 | 33  | 124 | 124 |     |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 325 | 100 | 100 | 100 | 30  | 100 |     |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 49  | 100 | 100 | 100 | 100 | 71  | 100 | 100 | 104 | 100 | 100 |     |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-14 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Mokelumne: Blue Creek/Deer Creek  
 Location: Node 303-306  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - 1 - - - - - - - 1 1 1 1 2 1 3 2 1 1 1 1 - 1 5 -

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 1 1 1 1 - - - 1 - - - - - 6 1 1 - 4 - - - 1 5 3 -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 1                              | 2  | 1  | 1  | Less                    | Less   | Less   | Less |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 3                              | 3  | 9  | 3  | Less                    | Less   | Potent | Less |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 1                              | 2  | 7  | 1  | Less                    | Less   | Less   | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 1                              | 16 | 4  | 1  | Less                    | Potent | Less   | Less |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 2                              | 17 | 6  | 2  | Less                    | Less   | Less   | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 1                              | 1  | 2  | 1  | Less                    | Less   | Less   | Less |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 0                              | 1  | 0  | 0  | No                      | Less   | No     | No   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant



Motherlode: Appendix Table-15 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokelumne: North Fork Mokelumne River  
 Location: odc 306-323  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1976       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1979       | elow Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1981       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 106 | 0   | 0   | 106 | 100 | 57  | 113 | 100 | ZBF | ZBF | ZBF |    |
| 1983       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1984       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 0   | 0   | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1987       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1990       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 0   | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1994       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 99  | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1996       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1997       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 46  | 113 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1998       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1999       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 97  | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1976       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm       | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 0   | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1979       | elow Norm       | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 169 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | bove Norm       | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 116 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1981       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | 100                    | 100 | 119 | 100 | 100 | 100 | 122 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1983       | Wet             | ZBF                    | ZBF | ZBF | ZBF | 78  | 0   | 221 | 78  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1984       | Wet             | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 155 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | 100                    | 0   | 243 | 0   | 100 | 100 | 159 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1987       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 0   | 0   | 367 | 0   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1990       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 84  | 80  | 105 | 84  | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | bove Norm       | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 126 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1994       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 87  | 56  | 203 | 87  | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet             | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 163 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1996       | Wet             | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 118 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1997       | Wet             | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 162 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1998       | Wet             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-16 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Mokelumne: North Fork Mokelumne River  
 Location: Node 306-323  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1976       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1979       | elow Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1981       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 1   | 1   | -   | -   | -   | 1   | -   | -   | -   | -   | -   |    |
| 1983       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1984       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | 1   | 1   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1987       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1990       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | 1   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1994       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1996       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1997       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | 1   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1998       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1999       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |

Total Number of Events: - - - - - - - - - - - - - - - - - - - - 3 3 - - - 2 1 - - - 1 -

| Water Year | Water Year Type | Habitat Reduction Events |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                      |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1976       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | -   | -   | 1   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1979       | elow Norm       | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1981       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1983       | Wet             | ZBF                      | ZBF | ZBF | ZBF | 1   | 1   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1984       | Wet             | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | -                        | 1   | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1987       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 1   | 1   | -   | 1   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1990       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1994       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | 1   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet             | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1996       | Wet             | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1997       | Wet             | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1998       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1999       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |

Total Number of Events: - 1 - 1 1 1 1 1 1 2 - 1 - - - - - - - - - - - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |      |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|------|------|------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC   | WS   | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 5  | 5  | 0  | No                      | Less | Less | No   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 2                              | 4  | 2  | 3  | Less                    | Less | Less | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 1                              | 2  | 0  | 1  | Less                    | Less | No   | Less |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 2                              | 4  | 1  | 3  | Less                    | Less | Less | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 1                              | 2  | 1  | 2  | Less                    | Less | Less | Less |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-17 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokolunne: North Fork Mokolunne  
 Location: ode 323-325  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                      | 100 | 113 | 229 | 100 | 233 | 100 | 100 | 57  | 24  | 8   | 57  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                      | 100 | 100 | 100 | 17  | 17  | 17  | 17  | 29  | 29  | 29  | 29  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 87                       | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 14  | 14  | 14  | 14  | OTP | OTP | OTP | 100 | 100 | OTP | OTP | 100 | 100 | 119 | 119 |    |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 21  | 24  | 21  | 21  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 117                      | 100 | 100 | 100 | 100 | 11  | 11  | 11  | 100 | OTP | 100 | 100 | 63  | 43  | 2   | 103 | 56  | 33  | 98  | 100 | OTP | 100 | OTP |    |
| 1983       | Wet             | OTP                      | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 7   | 7   | 97  | 100 | 297 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                      | 100 | 11  | 100 | 100 | OTP | OTP | OTP | 100 | 6   | 6   | 6   | 100 | 177 | 201 | 263 | 100 | 6   | 90  | 6   | 9   | 100 | 124 |    |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 17  | 17  | 17  | 17  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 84                       | 84  | 84  | 84  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 42  | 100 | 100 | 100 | 104 | 3   | 3   | 11  | 136 | 121 |    |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                      | 100 | 86  | 100 | 100 | 100 | 100 | 100 | 16  | 16  | 16  | 16  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 120                      | 100 | 120 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 45  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 84                       | 84  | 84  | 84  | 22  | 22  | 22  | 22  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 26                       | 26  | 31  | 26  | 100 | 100 | 100 | 100 | 64  | 119 | 26  | 64  | 100 | 100 | 100 | 100 | 100 | 78  | 17  | 85  | 5   | 100 | 218 |    |
| 1997       | Wet             | 120                      | 408 | 100 | 100 | 6   | 15  | 6   | 6   | OTP | OTP | 100 | 100 | 100 | 27  | 110 | 58  | 100 | 100 | 6   | 6   | OTP | 100 | 100 |    |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 31  | 31  | 31  | 31  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | 100                      | 399 | 119 | 100 | 344 | 344 | 100 | 100 | 100 | 411 | 100 | 707 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 500 | 100 | 100 | 500 | 114 | 83  | 80  | 114 | 217 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 533 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 878 | 878 | OTP | 100 | 143 | 143 | 143 | 143 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 77  | 77  | 77  |    |
| 1979       | elow Norm       | 100                    | 100 | 544 | 100 | 170 | 100 | 163 | 170 | 100 | 100 | 164 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | OTP                    | 100 | 100 | 100 | 100 | 100 | 526 | 100 | 136 | 136 | 158 | 136 | 100 | 34  | 100 | 34  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 88  | 88  | 88  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                    | 100 | 135 | 100 | 100 | 100 | 124 | 100 | 100 | 73  | 100 | 73  | 658 | 825 | 658 | 100 | 100 | 13  | 13  | 13  | 100 | 100 |     |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 91  | 61  | 185 | 91  | 100 | 83  | 100 | 83  | 100 | 75  | 100 | 100 | 100 | 967 | 100 | 843 | 967 | 100 |     |    |
| 1984       | Wet             | 100                    | 13  | 13  | 100 | 137 | 100 | 150 | 100 | 100 | 105 | 101 | 80  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1985       | Dry             | 835                    | 100 | 100 | 100 | 180 | 113 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1986       | Wet             | 100                    | 195 | 222 | 195 | 100 | 100 | 153 | 100 | 85  | 103 | 100 | 85  | 100 | 119 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 11  | 73  | 103 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 346 | 346 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1989       | Dry             | 100                    | 100 | 124 | 7   | 500 | 500 | 100 | 500 | 100 | 100 | 521 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 113 | 113 | 100 | 100 | 100 | 100 | 84  | 84  | 84  | 84  | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 132 | 81  | 105 | 84  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 113 | 32  | 100 | 32  | 32  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1993       | bove Norm       | OTP                    | 100 | OTP | OTP | 100 | 100 | 190 | 100 | 132 | 132 | 100 | 132 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 88  | 126 | 252 | 88  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1995       | Wet             | 100                    | OTP | OTP | OTP | 69  | 69  | 159 | 69  | 100 | 100 | 82  | 100 | 100 | 100 | 100 | 100 | 100 | 111 | 15  | 15  | 15  | 100 |     |    |
| 1996       | Wet             | 8                      | 8   | 175 | 100 | 100 | 100 | 117 | 100 | 100 | 103 | 72  | 72  | 119 | 190 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1997       | Wet             | 975                    | 100 | 100 | 100 | 209 | 209 | 280 | 209 | 29  | 115 | 124 | 29  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |    |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 113 | 100 | 94  | 94  | 94  | 99  | 102 | 69  | 102 | 102 | 100 | 100 | 100 | 100 | 61  | 61  |     |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |     |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-18 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Mokelumne: North Fork Mokelumne  
 Location: Node 323-325  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |     |     |     |     |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |
|------------|-----------------|--------------------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|----|-----|----|
|            |                 | Oct                      |    |    |    | Nov |     |     |     | Dec |     |     |    | Jan |     |     |    | Feb |     |     |    | Mar |    |     |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST | NP  | PM  | WM  | ST | NP  | PM  | WM  | ST | NP  | PM | WM  | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -   | -   | -   | 1   | 1   | 1   | 1  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -   | -   | -   | 1   | 1   | 1   | 1  | OTP | OTP | OTP | -  | -   | OTP | OTP | -  | -   | 1  | 1   |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -   | -   | -   | 1   | 1   | 1   | 1  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | 1   | 1   | 1   | -   | OTP | -   | -  | 1   | 1   | 1   | -  | 1   | 1   | -   | -  | OTP | -  | OTP |    |
| 1983       | Wet             | OTP                      | -  | -  | -  | -   | OTP | -   | -   | 1   | 1   | -   | -  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1984       | Wet             | -                        | -  | 1  | -  | -   | OTP | OTP | OTP | -   | 1   | 1   | 1  | 1   | -   | -   | -  | 1   | -   | -   | 1  | 1   | -  | -   |    |
| 1985       | Dry             | -                        | -  | -  | -  | 1   | 1   | 1   | 1   | -   | -   | -   | -  | -   | 1   | -   | -  | -   | 1   | 1   | 1  | -   | -  | -   |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | 1   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -   | -   | -   | 1   | 1   | 1   | 1  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | 1   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1994       | Critical        | -                        | -  | -  | -  | 1   | 1   | 1   | 1   | -   | -   | -   | -  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -   | -   | -   | 1   | -   | -   | 1  | -   | -   | -   | -  | 1   | 1   | -   | -  | 1   | -  | -   |    |
| 1996       | Wet             | 1                        | 1  | 1  | 1  | -   | -   | -   | -   | -   | OTP | OTP | -  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1997       | Wet             | -                        | -  | -  | -  | 1   | 1   | 1   | 1   | OTP | OTP | -   | -  | 1   | -   | 1   | -  | -   | 1   | 1   | -  | OTP | -  | -   |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -   | -   | -   | -   | 1   | 1   | 1  | 1   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  | -   | -   | -   | -  | -   | -   | -   | -  | -   | -  | -   |    |

Number of Events: 1 1 2 1 4 5 5 5 8 8 8 8 1 3 2 1 2 4 2 4 1 1 1 -

| Water Year | Water Year Type | Habitat Reduction Events |     |     |     |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |     |     |     | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  |    |
| 1979       | elow Norm       | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | OTP                      | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | 1   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | 1  | -  | -  | 1   | -  | -  | -  | -   | 1  | 1  | 1  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -   | -   | -   | -   | 1  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | 1  | -  |    |
| 1984       | Wet             | -                        | 1   | 1   | -   | -   | -  | -  | -  | -   | -  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -   | -   | 1   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -   | -   | -   | -   | -  | -  | -  | 1   | -  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | OTP                      | -   | OTP | OTP | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | OTP | OTP | OTP | 1   | 1  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  |    |
| 1996       | Wet             | 1                        | 1   | -   | -   | -   | -  | -  | -  | -   | -  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | 1   | -  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  |    |
| 1999       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Number of Events: 1 2 1 1 1 2 - 1 2 2 3 5 - 3 - 1 - 2 2 2 2 2 2 3 2

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 13                             | 14 | 15 | 14 | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 4                              | 8  | 5  | 5  | Less                    | Potent | Less   | Less   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 5                              | 7  | 5  | 7  | Less                    | Less   | Less   | Less   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 5                              | 10 | 10 | 11 | Less                    | Less   | Less   | Less   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 11                             | 19 | 16 | 18 | Less                    | Less   | Less   | Less   |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 2                              | 4  | 1  | 2  | Less                    | Less   | Less   | Less   |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 5                              | 6  | 7  | 6  | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-19 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokolunne: North Fork Mokolunne River  
 Location: ode 325-326  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1976       | Critical        | 100                      | 100 | 54  | 100 | 91  | 41  | 19  | 91  | 58  | 25  | 9   | 58  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1978       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1979       | elow Norm       | 56                       | 97  | 56  | 56  | 20  | 40  | 20  | 20  | 34  | 44  | 34  | 34  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 35  | 35  | 35  | 35  | 17  | 17  | 17  | 17  | 172 | 100 | 119 | 172 | 100 | 93  | 62  | 100 | 118 | 22  | 259 | 118 |     |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 43  | 100 | 43  | 43  | 24  | 27  | 24  | 24  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 203 | 84  | 100 | 100 | 100 | 108 | 100 | 103 | 43  | 46  | 103 | 100 | 77  | 98  | 100 | 100 | 100 | 119 | 100 |     |
| 1983       | Wet             | 100                      | 102 | 77  | 100 | 100 | 100 | 54  | 100 | 100 | 100 | 97  | 100 | 100 | 40  | 40  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1984       | Wet             | 100                      | 100 | 70  | 100 | 100 | 100 | 64  | 100 | 100 | 100 | 108 | 100 | 100 | 68  | 77  | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 123 | 100 |     |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 21  | 21  | 100 | 85  | 9   | 9   | 85  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 55  | 55  | 55  | 55  | 100 | 45  | 100 | 100 | 100 | 104 | 99  | 52  | 104 | 100 | 89  | 132 | 100 |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 42  | 42  | 42  | 42  | 20  | 20  | 20  | 20  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 52  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 26  | 26  | 26  | 26  | 36  | 36  | 36  | 36  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1996       | Wet             | 70                       | 100 | 33  | 70  | 100 | 100 | 21  | 100 | 66  | 117 | 31  | 66  | 100 | 100 | 100 | 100 | 100 | 78  | 18  | 85  | 78  | 100 | 100 | 214 | 100 |
| 1997       | Wet             | 100                      | 316 | 100 | 100 | 90  | 17  | 14  | 90  | 109 | 90  | 69  | 109 | 100 | 67  | 110 | 100 | 100 | 100 | 84  | 100 | 100 | 100 | 100 | 121 | 100 |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 36  | 36  | 36  | 36  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1999       | Wet             | 82                       | 100 | 32  | 82  | 34  | 34  | 12  | 34  | 567 | 339 | 100 | 567 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 447 | 100 | 178 | 56  | 382 | 56  | 56  | 100 | 148 | 100 | 100 |     |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 117 | 100 | 100 | 100 | 100 | 100 | 123 | 152 | 90  | 123 | 44  | 100 | 32  | 44  | 100 | 100 | 90  | 100 |     |
| 1979       | elow Norm       | 100                    | 100 | 441 | 100 | 100 | 100 | 150 | 100 | 100 | 105 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1980       | bove Norm       | 91                     | 61  | 159 | 91  | 100 | 100 | 105 | 100 | 100 | 100 | 116 | 100 | 100 | 100 | 100 | 100 | 73  | 165 | 73  | 73  | 100 | 141 | 100 | 100 |     |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1982       | Wet             | 100                    | 100 | 134 | 100 | 100 | 100 | 124 | 100 | 100 | 100 | 100 | 100 | 100 | 125 | 100 | 100 | 100 | 100 | 157 | 71  | 100 | 100 | 255 | 167 | 100 |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 92  | 62  | 183 | 92  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 140 | 87  | 100 | 100 | 136 | 117 | 100 |     |
| 1984       | Wet             | 100                    | 55  | 201 | 100 | 100 | 100 | 136 | 100 | 100 | 105 | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 321 | 100 | 100 | 100 | 100 | 208 | 100 | 100 |
| 1985       | Dry             | 133                    | 20  | 289 | 133 | 100 | 67  | 260 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1986       | Wet             | 100                    | 100 | 184 | 100 | 100 | 100 | 138 | 100 | 100 | 103 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 13  | 144 | 103 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 139 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry             | 100                    | 100 | 124 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 406 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 145 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | bove Norm       | 100                    | 100 | 66  | 100 | 100 | 100 | 124 | 100 | 100 | 100 | 100 | 100 | 100 | 199 | 100 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 121 | 95  | 190 | 121 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet             | 100                    | 100 | 107 | 100 | 100 | 100 | 158 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 111 | 151 | 20  | 111 | 100 | 189 | 67  | 100 |     |
| 1996       | Wet             | 100                    | 100 | 173 | 100 | 100 | 100 | 123 | 100 | 100 | 103 | 101 | 100 | 100 | 153 | 100 | 100 | 100 | 496 | 100 | 100 | 100 | 100 | 263 | 100 | 100 |
| 1997       | Wet             | 100                    | 100 | 167 | 100 | 100 | 100 | 133 | 100 | 100 | 114 | 123 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 101 | 99  | 102 | 102 | 102 | 102 | 120 | 302 | 37  | 120 | 100 | 199 | 74  | 100 |     |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-20 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Mokelumne: North Fork Mokelumne River  
 Location: Node 325-326  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | 1  | -  | -   | 1  | 1  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | 1                        | -  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | 1   | -  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | 1                        | -  | 1  | 1  | -   | -  | 1  | -  | 1   | -  | 1  | 1  | -   | -  | -  | -  | 1   | 1  | -  | -  | 1   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | 1  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | 1  | -  | -   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Number of Events: 2 - 6 2 6 8 12 6 9 9 11 9 - 5 4 - 1 2 2 1 - 1 - -

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|-----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |     |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM  | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | 1   | -  | 1  | 1  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | OTP | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | 1   | -  | 1  | 1  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | 1   | -  | 1  | 1  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | 1  | -  | -  | -   | -  | 1  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  |    |

Number of Events: - 3 1 - - 2 - - - 1 - - - 3 - 6 3 - - 2 -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | PM | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 17                             | 17 | 29 | 17 | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 1                              | 8  | 6  | 1  | Less                    | Potent | Less   | Less   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 0                              | 7  | 1  | 0  | No                      | Less   | Less   | No     |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 5                              | 1  | 14 | 5  | Less                    | Less   | Potent | Less   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 11                             | 14 | 27 | 11 | Less                    | Less   | Potent | Less   |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 0                              | 5  | 1  | 0  | No                      | Potent | Less   | No     |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 8                              | 8  | 18 | 8  | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-21 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokolunne: North Fork Mokolunne  
 Location: ode 326-328  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1976       | Critical        | 100                      | 100 | 56  | 100 | 91  | 42  | 22  | 91  | 58  | 26  | 10  | 58  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1978       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1979       | elow Norm       | 59                       | 97  | 59  | 59  | 22  | 41  | 22  | 22  | 37  | 47  | 37  | 37  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 38  | 38  | 38  | 38  | 19  | 19  | 19  | 19  | 171 | 100 | 119 | 171 | 100 | 93  | 62  | 100 | 117 | 24  | 255 | 117 |     |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 47  | 100 | 47  | 47  | 27  | 30  | 27  | 27  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 201 | 84  | 100 | 100 | 100 | 108 | 100 | 103 | 44  | 46  | 103 | 100 | 77  | 98  | 100 | 100 | 100 | 100 |     |     |
| 1983       | Wet             | 100                      | 101 | 77  | 100 | 100 | 100 | 55  | 100 | 100 | 100 | 97  | 100 | 100 | 43  | 43  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1984       | Wet             | 100                      | 100 | 71  | 100 | 100 | 100 | 64  | 100 | 100 | 100 | 108 | 100 | 100 | 68  | 77  | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 100 |     |     |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 23  | 23  | 100 | 85  | 11  | 11  | 85  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 59  | 59  | 59  | 59  | 100 | 46  | 100 | 100 | 100 | 104 | 99  | 52  | 104 | 100 | 89  | 132 | 100 |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 45  | 45  | 45  | 45  | 22  | 22  | 22  | 22  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 55  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 29  | 29  | 29  | 29  | 40  | 40  | 40  | 40  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1996       | Wet             | 71                       | 100 | 36  | 71  | 100 | 100 | 24  | 100 | 68  | 117 | 34  | 68  | 100 | 100 | 100 | 100 | 100 | 78  | 19  | 85  | 78  | 100 | 100 | 211 | 100 |
| 1997       | Wet             | 100                      | 292 | 100 | 100 | 90  | 18  | 15  | 90  | 109 | 91  | 69  | 109 | 100 | 70  | 110 | 100 | 100 | 100 | 84  | 100 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 39  | 39  | 39  | 39  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1999       | Wet             | 83                       | 100 | 35  | 83  | 35  | 35  | 13  | 35  | 512 | 311 | 100 | 512 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 169 | 408 | 100 | 169 | 59  | 364 | 59  | 59  | 100 | 143 | 100 | 100 | 100 |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 888 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 117 | 100 | 100 | 100 | 100 | 100 | 122 | 150 | 90  | 122 | 46  | 100 | 35  | 46  | 100 | 100 | 91  | 100 |     |
| 1979       | elow Norm       | 100                    | 100 | 401 | 100 | 100 | 100 | 150 | 100 | 100 | 105 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1980       | bove Norm       | 91                     | 62  | 158 | 91  | 100 | 100 | 105 | 100 | 100 | 100 | 116 | 100 | 100 | 100 | 100 | 100 | 75  | 160 | 75  | 75  | 100 | 136 | 100 | 100 |     |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1982       | Wet             | 100                    | 100 | 134 | 100 | 100 | 100 | 123 | 100 | 100 | 100 | 100 | 100 | 100 | 124 | 100 | 100 | 100 | 100 | 156 | 72  | 100 | 100 | 248 | 164 | 100 |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 92  | 62  | 182 | 92  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 139 | 88  | 100 | 100 | 135 | 116 | 100 |     |
| 1984       | Wet             | 100                    | 56  | 199 | 100 | 100 | 100 | 135 | 100 | 100 | 105 | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 296 | 100 | 100 | 100 | 100 | 196 | 100 | 100 |
| 1985       | Dry             | 132                    | 22  | 284 | 132 | 100 | 69  | 248 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1986       | Wet             | 100                    | 100 | 183 | 100 | 100 | 100 | 137 | 100 | 100 | 103 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 15  | 143 | 103 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 137 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry             | 100                    | 100 | 124 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 372 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | bove Norm       | 100                    | 100 | 67  | 100 | 100 | 100 | 124 | 100 | 100 | 100 | 100 | 100 | 100 | 193 | 100 | 100 | 100 | 100 | 154 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 121 | 95  | 189 | 121 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet             | 100                    | 100 | 107 | 100 | 100 | 100 | 158 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 111 | 150 | 22  | 111 | 100 | 182 | 69  | 100 |     |
| 1996       | Wet             | 100                    | 100 | 172 | 100 | 100 | 100 | 122 | 100 | 100 | 103 | 101 | 100 | 100 | 147 | 100 | 100 | 100 | 452 | 100 | 100 | 100 | 100 | 245 | 100 | 100 |
| 1997       | Wet             | 100                    | 100 | 166 | 100 | 100 | 100 | 132 | 100 | 100 | 114 | 123 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 101 | 99  | 102 | 102 | 102 | 102 | 120 | 293 | 40  | 120 | 100 | 190 | 77  | 100 |     |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-22 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Mokelumne: North Fork Mokelumne  
 Location: Node 326-328  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | 1  | -  | -   | 1  | 1  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | 1                        | -  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | 1   | -  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | 1                        | -  | 1  | 1  | -   | -  | 1  | -  | 1   | -  | 1  | 1  | -   | -  | -  | -  | 1   | 1  | -  | -  | 1   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 2 - 6 2 6 8 12 6 9 9 11 9 - 5 4 - 1 2 2 1 - 1 - -

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | 1  | 1  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | 1  | 1  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | 1  | 1  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | 1  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  |    |

Total Number of Events: - 3 1 - - 2 - - - 1 - - - 3 - 6 3 - - 2 -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 17                             | 17 | 29 | 17 | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 1                              | 8  | 6  | 1  | Less                    | Potent | Less   | Less   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 0                              | 7  | 1  | 0  | No                      | Less   | Less   | No     |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 5                              | 1  | 14 | 5  | Less                    | Less   | Potent | Less   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 11                             | 14 | 27 | 11 | Less                    | Less   | Potent | Less   |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 0                              | 5  | 1  | 0  | No                      | Potent | Less   | No     |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 8                              | 8  | 18 | 8  | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant



Motherlode: Appendix Table-23 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokolunne: North Fork Mokolunne River  
 Location: ode 328-331  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 86  | 12  | 12  | 86  | 46  | 5   | 5   | 46  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1978       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1979       | elow Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 112 | 100 | 103 | 112 | 100 | 97  | 84  | 100 | 104 | 81  | 139 | 104 |     |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |     |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 192 | 86  | 100 | 100 | 100 | 106 | 100 | 103 | 58  | 60  | 103 | 100 | 88  | 99  | 100 | 100 | 100 | 106 | 100 |     |
| 1983       | Wet             | 100                      | 102 | 73  | 100 | 100 | 100 | 69  | 100 | 100 | 100 | 99  | 100 | 100 | 90  | 90  | 100 | 100 | 71  | 97  | 100 | 102 | 102 | 102 | 102 |     |
| 1984       | Wet             | 100                      | 100 | 51  | 100 | 100 | 100 | 78  | 100 | 100 | 100 | 103 | 100 | 100 | 83  | 88  | 100 | 100 | 100 | 94  | 100 | 100 | 100 | 110 | 100 |     |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 14  | 14  | 100 | 100 | 80  | 5   | 5   | 80  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 56  | 56  | 56  | 56  | 100 | 55  | 100 | 100 | 100 | 101 | 100 | 86  | 101 | 100 | 111 | 100 |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 27  | 100 | 100 |     |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 86  | 9   | 9   | 86  | 17  | 8   | 8   | 17  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 92  | 100 | 100 |     |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 75  | 100 | 100 |     |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 52  | 125 | 17  | 52  | 100 | 100 | 100 | 100 | 100 | 89  | 61  | 93  | 89  | 100 | 100 | 128 | 100 |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 88  | 3   | 3   | 88  | 103 | 96  | 88  | 103 | 100 | 88  | 104 | 100 | 100 | 100 | 94  | 100 | 100 | 100 | 110 | 100 |     |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 9   | 5   | 100 | 166 | 135 | 204 | 166 |     |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 6   | 6   | 6   | 6   | 934 | 340 | 100 | 934 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |     |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 178 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1978       | bove Norm       | 100                    | 100 | 93  | 100 | 100 | 100 | 110 | 100 | 100 | 100 | 100 | 100 | 140 | 191 | 83  | 140 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1979       | elow Norm       | 100                    | 100 | 124 | 100 | 100 | 100 | 131 | 100 | 100 | 105 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1980       | bove Norm       | 95                     | 79  | 133 | 95  | 100 | 100 | 101 | 100 | 100 | 100 | 115 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 100                    | 100 | 966 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1982       | Wet             | 100                    | 100 | 114 | 100 | 100 | 100 | 112 | 100 | 100 | 100 | 100 | 100 | 100 | 129 | 100 | 100 | 100 | 212 | 44  | 100 | 100 | 239 | 160 | 100 |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 98  | 92  | 118 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 146 | 86  | 100 | 100 | 138 | 118 | 100 |
| 1984       | Wet             | 100                    | 83  | 139 | 100 | 100 | 100 | 120 | 100 | 100 | 104 | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1985       | Dry             | 116                    | 62  | 191 | 116 | 100 | 68  | 145 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1986       | Wet             | 100                    | 100 | 149 | 100 | 100 | 100 | 128 | 100 | 100 | 104 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 107 | 13  | 210 | 107 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 222 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry             | 100                    | 100 | 115 | 100 | 100 | 100 | 100 | 100 | 100 | 473 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | bove Norm       | 100                    | 100 | 84  | 100 | 100 | 100 | 125 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 126 | 94  | 210 | 126 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet             | 100                    | 100 | 102 | 100 | 100 | 100 | 124 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 120 | 192 | 16  | 120 | 100 | 100 | 100 |
| 1996       | Wet             | 100                    | 100 | 128 | 100 | 100 | 100 | 116 | 100 | 100 | 103 | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 468 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1997       | Wet             | 100                    | 100 | 133 | 100 | 100 | 100 | 148 | 100 | 100 | 114 | 122 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 103                    | 95  | 133 | 103 | 77  | 77  | 100 | 77  | 99  | 99  | 101 | 99  | 102 | 102 | 102 | 102 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-24 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Mokelumne: North Fork Mokelumne River  
 Location: Node 328-331  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |     |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|-----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |     |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM  | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -   |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | OTP |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -   |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1983       | Wet             | -                        | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -   |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -   |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1   |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | 1  | 1  | 1  | 1   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -   |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1   |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -   |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -   |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | 1  | 1  | 1  | 1   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |

Total Number of Events: - - 2 - 2 5 7 2 6 5 6 6 - 2 1 - - 3 1 - - - 2 -

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | 1  | 1  | -  | 1   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - 2 - - 1 2 - 1 - 1 - - - - - 2 - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 8                              | 10 | 15 | 8  | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 5  | 4  | 0  | No                      | Less   | Less   | No     |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 1                              | 5  | 2  | 1  | Less                    | Less   | Less   | Less   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 0                              | 1  | 4  | 0  | No                      | Less   | Less   | No     |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 3                              | 10 | 11 | 3  | Less                    | Less   | Less   | Less   |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 1                              | 4  | 0  | 1  | Less                    | Less   | No     | Less   |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 2                              | 5  | 9  | 2  | Less                    | Potent | Potent | Less   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-25 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokelumne: North Fork Mokelumne River  
 Location: odc 331-333  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline <sup>A</sup> |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                                 |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                                  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                                  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1976       | Critical        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1977       | Critical        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1978       | bove Norm       | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 28  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1979       | elow Norm       | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1980       | bove Norm       | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 114 | 100 | 104 | 114 | 100 | 96  | 80  | 100 | 107 | 67  | 167 | 107 |
| 1981       | Dry             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1982       | Wet             | 100                                 | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 109 | 100 | 103 | 48  | 51  | 103 | 100 | 87  | 99  | 100 | 100 | 100 | 108 | 100 |
| 1983       | Wet             | 100                                 | 106 | 16  | 100 | 100 | 100 | 49  | 100 | 100 | 100 | 99  | 100 | 100 | 79  | 79  | 100 | 100 | 62  | 96  | 100 | 103 | 102 | 103 | 103 |
| 1984       | Wet             | 100                                 | 100 | 100 | 100 | 100 | 100 | 71  | 100 | 100 | 100 | 103 | 100 | 100 | 78  | 84  | 100 | 100 | 100 | 91  | 100 | 100 | 100 | 116 | 100 |
| 1985       | Dry             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1986       | Wet             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 100 | 84  | 101 | 100 | 95  | 113 | 100 |
| 1987       | Dry             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 11  | 100 | 100 |
| 1990       | Critical        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1991       | Critical        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | bove Norm       | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 70  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 69  | 100 | 100 |
| 1996       | Wet             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 87  | 50  | 91  | 87  | 100 | 100 | 141 | 100 |
| 1997       | Wet             | 100                                 | 100 | 100 | 100 | 65  | 10  | 10  | 65  | 104 | 95  | 85  | 104 | 100 | 87  | 104 | 100 | 100 | 100 | 92  | 100 | 100 | 100 | 116 | 100 |
| 1998       | Wet             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 914 | 531 | OTP | 914 |
| 1999       | Wet             | 100                                 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1978       | bove Norm       | 100                    | 100 | 88  | 100 | 100 | 100 | 114 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1979       | elow Norm       | 100                    | 100 | 153 | 100 | 100 | 100 | 139 | 100 | 100 | 107 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1980       | bove Norm       | 91                     | 60  | 162 | 91  | 100 | 100 | 102 | 100 | 100 | 100 | 117 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1982       | Wet             | 100                    | 100 | 116 | 100 | 100 | 100 | 114 | 100 | 100 | 100 | 100 | 100 | 100 | 141 | 100 | 100 | 100 | 397 | 100 | 100 | 100 | 565 | 100 | 100 |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 98  | 90  | 121 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 309 | 35  | 100 | 100 | 651 | 357 | 100 |
| 1984       | Wet             | 100                    | 66  | 176 | 100 | 100 | 100 | 126 | 100 | 100 | 106 | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1985       | Dry             | 159                    | 14  | 443 | 159 | 100 | 100 | 740 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1986       | Wet             | 100                    | 100 | 185 | 100 | 100 | 100 | 143 | 100 | 100 | 104 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry             | 100                    | 100 | 124 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 109 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | bove Norm       | 100                    | 100 | 78  | 100 | 100 | 100 | 132 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 148 | 89  | 303 | 148 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet             | 100                    | 100 | 103 | 100 | 100 | 100 | 130 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1996       | Wet             | 100                    | 100 | 141 | 100 | 100 | 100 | 119 | 100 | 100 | 104 | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1997       | Wet             | 100                    | 100 | 164 | 100 | 100 | 100 | 270 | 100 | 100 | 176 | 223 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 107                    | 90  | 169 | 107 | 62  | 62  | 100 | 62  | 99  | 99  | 101 | 99  | 103 | 103 | 103 | 103 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-26 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Mokelumne: North Fork Mokelumne River  
 Location: Node 331-333  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |     |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |     |    |
|------------|-----------------|--------------------------|----|----|----|-----|-----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|-----|----|
|            |                 | Oct                      |    |    |    | Nov |     |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |     |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM  | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM  | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -   |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | OTP | -  | -  | -   | -  | -  | -  | 1   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1983       | Wet             | -                        | -  | 1  | -  | -   | -   | 1  | -  | -   | -  | -  | -  | 1   | 1  | -  | -  | -   | 1  | -  | -  | -   | -  | -   |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -   | 1  | -  | -   | -  | -  | -  | 1   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -   |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | 1   |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -   | 1  | 1  | 1   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | OTP |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -   | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -   |    |

Total Number of Events: - - 1 - 1 1 3 1 - - - - 3 4 - - 2 1 - - 1 2 -

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | 1  | 1  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - 3 1 - 1 1 - 1 - - - - - - - - 1 - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |      |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|------|------|------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC   | WS   | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 1                              | 1  | 4  | 1  | Less                    | Less | Less | Less |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 6  | 7  | 0  | No                      | Less | Less | No   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 1                              | 5  | 3  | 1  | Less                    | Less | Less | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 0                              | 0  | 2  | 0  | No                      | No   | Less | No   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 2                              | 5  | 6  | 2  | Less                    | Less | Less | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 1                              | 4  | 1  | 1  | Less                    | Less | Less | Less |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 1                              | 1  | 4  | 1  | Less                    | Less | Less | Less |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-27 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokolunne: North Fork Mokolunne River  
 Location: odc 333-336  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                      | 100 | 89  | 100 | 98  | 90  | 77  | 98  | 87  | 77  | 72  | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 134                      | 100 | 134 | 134 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 79  | 99  | 102 | 100 | 100 | 100 | 100 | 100 | 104 | 104 |    |
| 1978       | bove Norm       | 283                      | 283 | 283 | 283 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 95                       | 100 | 83  | 95  | 86  | 89  | 75  | 86  | 92  | 93  | 79  | 92  | 158 | 148 | 148 | 158 | 107 | 79  | 71  | 107 | 100 | 96  | 146 |    |
| 1980       | bove Norm       | 100                      | 120 | 100 | 100 | 93  | 93  | 75  | 93  | 84  | 84  | 65  | 84  | 108 | 100 | 102 | 108 | 100 | 98  | 90  | 100 | 102 | 92  | 117 |    |
| 1981       | Dry             | 100                      | 100 | 83  | 100 | 95  | 100 | 82  | 95  | 89  | 89  | 75  | 89  | 100 | 100 | 100 | 100 | 115 | 100 | 115 | 115 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                      | 118 | 100 | 100 | 100 | 122 | 97  | 100 | 100 | 100 | 103 | 100 | 102 | 74  | 75  | 102 | 100 | 91  | 99  | 100 | 100 | 100 | 103 |    |
| 1983       | Wet             | 100                      | 101 | 91  | 100 | 100 | 100 | 86  | 100 | 100 | 100 | 99  | 100 | 100 | 96  | 96  | 100 | 100 | 84  | 98  | 100 | 101 | 101 | 101 |    |
| 1984       | Wet             | 100                      | 100 | 90  | 100 | 100 | 100 | 87  | 100 | 100 | 100 | 102 | 100 | 100 | 91  | 94  | 100 | 100 | 100 | 97  | 100 | 100 | 100 | 104 |    |
| 1985       | Dry             | 100                      | 121 | 100 | 100 | 100 | 86  | 69  | 100 | 95  | 72  | 68  | 95  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 123 |    |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97  | 86  | 74  | 97  | 100 | 90  | 100 | 100 | 101 | 100 | 89  | 101 | 100 | 97  | 108 |    |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 99  | 95  | 95  | 99  | 100 | 90  | 90  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 92  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 113                      | 113 | 113 | 113 | 103 | 103 | 103 | 103 | 100 | 100 | 100 | 100 | 100 | 100 | 86  | 100 | 100 | 100 | 80  | 100 | 100 | 100 | 78  |    |
| 1990       | Critical        | 100                      | 115 | 100 | 100 | 95  | 87  | 65  | 95  | 87  | 85  | 63  | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 64  | 122 |    |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 95  | 100 | 100 | 100 | 86  | 150 | 100 | 131 | 98  | 140 | 131 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 164                      | 164 | 164 | 164 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 80  | 100 | 100 | 100 | 98  |    |
| 1994       | Critical        | 93                       | 100 | 85  | 93  | 90  | 90  | 75  | 90  | 93  | 93  | 78  | 93  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 165                      | 165 | 165 | 165 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 85  | 100 |    |
| 1996       | Wet             | 95                       | 100 | 88  | 95  | 100 | 100 | 75  | 100 | 100 | 102 | 85  | 96  | 131 | 139 | 107 | 131 | 94  | 77  | 96  | 94  | 100 | 100 | 114 |    |
| 1997       | Wet             | 100                      | 135 | 100 | 100 | 96  | 70  | 68  | 96  | 102 | 98  | 93  | 102 | 100 | 90  | 103 | 100 | 100 | 100 | 97  | 100 | 100 | 100 | 104 |    |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 99  | 99  | 100 | 93  | 83  | 77  | 93  | 100 | 105 | 100 | 100 | 100 | 78  | 69  | 100 | 116 | 109 | 126 |    |
| 1999       | Wet             | 97                       | 100 | 88  | 97  | 82  | 82  | 63  | 82  | 151 | 139 | 119 | 151 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 104 | 120 | 100 | 104 | 95  | 130 | 95  | 95  | 100 | 103 | 95  |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 117 | 100 | 264 | 117 | 100 | 93  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 15  | 15  | 15  | 15  | 52  | 44  | 56  | 52  | OTP | OTP | OTP |    |
| 1978       | bove Norm       | 100                    | 100 | 97  | 100 | 100 | 100 | 105 | 100 | 100 | 100 | 100 | 100 | 105 | 111 | 98  | 105 | 89  | 100 | 80  | 89  | 100 | 100 | 81  |    |
| 1979       | elow Norm       | 100                    | 100 | 109 | 100 | 100 | 100 | 119 | 100 | 100 | 102 | 100 | 100 | 100 | 117 | 100 | 100 | 100 | 117 | 100 | 100 | 100 | 116 | 100 |    |
| 1980       | bove Norm       | 98                     | 92  | 113 | 98  | 100 | 100 | 101 | 100 | 100 | 100 | 110 | 100 | 100 | 100 | 100 | 100 | 98  | 106 | 84  | 98  | 100 | 103 | 83  |    |
| 1981       | Dry             | 139                    | 133 | 172 | 139 | 78  | 67  | 137 | 78  | 100 | 173 | 100 | 100 | 100 | 116 | 100 | 100 | 100 | 115 | 100 | 100 | 100 | 116 | 100 |    |
| 1982       | Wet             | 100                    | 100 | 110 | 100 | 100 | 100 | 109 | 100 | 100 | 100 | 100 | 100 | 100 | 106 | 100 | 100 | 100 | 118 | 91  | 100 | 100 | 121 | 109 |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 99  | 94  | 113 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 113 | 96  | 100 | 100 | 110 | 104 |    |
| 1984       | Wet             | 100                    | 93  | 115 | 100 | 100 | 100 | 111 | 100 | 100 | 102 | 100 | 100 | 100 | 121 | 100 | 100 | 100 | 131 | 100 | 100 | 100 | 124 | 100 |    |
| 1985       | Dry             | 105                    | 89  | 127 | 105 | 100 | 92  | 111 | 100 | 100 | 106 | 100 | 100 | 100 | 115 | 100 | 100 | 100 | 114 | 100 | 100 | 100 | 117 | 100 |    |
| 1986       | Wet             | 100                    | 100 | 120 | 100 | 100 | 100 | 113 | 100 | 100 | 102 | 100 | 100 | 100 | 120 | 100 | 100 | 100 | 114 | 100 | 100 | 100 | 118 | 100 |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 71  | 111 | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 104 | 100 | 100 | 100 | 100 | 100 | 90  | 90  | 90  | 90  | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                    | 100 | 106 | 100 | 100 | 100 | 100 | 100 | 100 | 115 | 136 | 100 | 100 | 115 | 100 | 100 | 100 | 114 | 100 | 100 | 100 | 117 | 100 |    |
| 1990       | Critical        | 151                    | 100 | 278 | 151 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 100 | 100 | 100 | 100 | 100 | 70  | 70  | 70  | 70  | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                    | 100 | 92  | 100 | 100 | 100 | 115 | 100 | 100 | 100 | 100 | 100 | 100 | 112 | 100 | 100 | 100 | 104 | 88  | 100 | 108 | 108 | 90  |    |
| 1994       | Critical        | 100                    | 100 | 125 | 100 | 100 | 100 | 100 | 100 | 110 | 98  | 144 | 110 | 100 | 100 | 100 | 100 | 70  | 70  | 70  | 70  | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 101 | 100 | 100 | 100 | 115 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 103 | 114 | 79  | 103 | 100 | 109 | 97  |    |
| 1996       | Wet             | 100                    | 100 | 114 | 100 | 100 | 100 | 111 | 100 | 100 | 102 | 100 | 100 | 100 | 134 | 100 | 100 | 100 | 147 | 100 | 100 | 100 | 134 | 100 |    |
| 1997       | Wet             | 100                    | 100 | 113 | 100 | 100 | 100 | 110 | 100 | 100 | 104 | 106 | 100 | 100 | 120 | 100 | 100 | 100 | 120 | 100 | 100 | 100 | 120 | 100 |    |
| 1998       | Wet             | 101                    | 98  | 112 | 101 | 90  | 90  | 100 | 90  | 99  | 99  | 101 | 99  | 101 | 101 | 101 | 101 | 103 | 134 | 89  | 103 | 100 | 109 | 98  |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-28 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Mokelumne: North Fork Mokelumne River  
 Location: Node 333-336  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | 1  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - - - - - 1 9 - - 2 9 - - 3 1 - - 3 4 - - 1 1 -

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - - - - - 1 1 - 1 - 1 - - 1 1 1 1 3 3 4 3 - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |        |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|------|--------|------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC   | WS     | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 0                              | 3  | 18 | 0  | No                      | Less | Potent | No   |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 7  | 6  | 0  | No                      | Less | Less   | No   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 1                              | 3  | 1  | 1  | Less                    | Less | Less   | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 4                              | 5  | 5  | 4  | Less                    | Less | Less   | Less |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 5                              | 7  | 14 | 5  | Less                    | Less | Less   | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 1                              | 1  | 0  | 1  | Less                    | Less | No     | Less |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 0                              | 1  | 9  | 0  | No                      | Less | Potent | No   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-29 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Mokelumne: Panther Creek  
 Location: odc 318-326  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 218 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement





Motherlode: Appendix Table-31 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Stanislaus: MF Stanislaus River  
 Location: odc 440-445  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1976       | Critical        | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm       | 100                      | 100 | 100 | 118 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1979       | elow Norm       | ZBF                      | ZBF | ZBF | ZBF | 0   | 0   | 0   | 0   | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 104 | 104 | 102 | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 0                        | 0   | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 75  | 75  | 75  | 77  | 62  | 62  | 62  | 62  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 |    |
| 1985       | Dry             | ZBF                      | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 0   | 0   | 0   |    |
| 1986       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 85  | 85  | 85  | 86  | 100 | 100 | 100 |    |
| 1987       | Dry             | ZBF                      | ZBF | ZBF | ZBF | 0   | 0   | 0   | 0   | 9   | 8   | 0   | 0   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 |    |
| 1990       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 5   | 5   | 5   |    |
| 1994       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 21  | 21  | 21  | 11  | 100 | 100 | 100 |    |
| 1996       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 88  | 88  | 87  | 88  | 100 | 100 | 100 |    |
| 1997       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 6   | 6   | 6   |    |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 6   | 6   | 6   | 6   | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1976       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | bove Norm       | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 99  | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1979       | elow Norm       | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1981       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 97  | 97  | 97  | 97  | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1987       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1990       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 39  | 36  | 40  | 39  | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | bove Norm       | 87                     | 87  | 87  | 88  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1994       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1998       | Wet             | 48                     | 48  | 48  | 52  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-32 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Stanislaus: MF Stanislaus River  
 Location: Node 440-445  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1976       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1978       | bove Norm       | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1979       | elow Norm       | ZBF                      | ZBF | ZBF | ZBF | 1   | 1   | 1   | 1   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1980       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1981       | Dry             | 1                        | 1   | 1   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1982       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 1983       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1984       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | -   |
| 1985       | Dry             | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1986       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1987       | Dry             | ZBF                      | ZBF | ZBF | ZBF | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 1988       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1989       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1990       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1991       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1992       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1993       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1994       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1995       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 1   | 1   | 1   | 1   | -   |
| 1996       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 1   | 1   | 1   | 1   | -   |
| 1997       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   |
| 1998       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 1   | 1   | 1   | 1   | -   |
| 1999       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | 1   | 1   | 1   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |

Total Number of Events: 1 1 1 1 2 2 2 2 3 3 3 3 1 1 1 1 2 2 2 2 3 3 3 3

| Water Year | Water Year Type | Habitat Reduction Events |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                      |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1976       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1978       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1979       | elow Norm       | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1980       | bove Norm       | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1981       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1982       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1983       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1984       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1985       | Dry             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1986       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1987       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1988       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1989       | Dry             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1990       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1991       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 1   | 1   | 1   | 1   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1992       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1993       | bove Norm       | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1994       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1995       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1996       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1997       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1998       | Wet             | 1                        | 1   | 1   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1999       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |

Total Number of Events: 1 1 1 1 - - - - 1 1 1 1 - - - - - - - - - - - - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |      |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|------|------|------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC   | WS   | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 6                              | 6  | 6  | 6  | Less                    | Less | Less | Less |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 6                              | 6  | 6  | 6  | Less                    | Less | Less | Less |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 5                              | 5  | 5  | 5  | Less                    | Less | Less | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 2                              | 2  | 2  | 2  | Less                    | Less | Less | Less |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 5                              | 5  | 5  | 5  | Less                    | Less | Less | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 1                              | 1  | 1  | 1  | Less                    | Less | Less | Less |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 3                              | 3  | 3  | 3  | Less                    | Less | Less | Less |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-33 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Stanislaus: MF Stanislaus River  
 Location: odc 445-450  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                      | 100 | 100 | 117 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 104 | 104 | 102 | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 75  | 75  | 75  | 77  | 65  | 65  | 65  | 65  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 85  | 85  | 85  | 86  | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 8   | 8   | 8   |    |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 28  | 28  | 27  | 21  | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 88  | 88  | 87  | 88  | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 10  | 10  | 10  |    |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 99  | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | elow Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | bove Norm       | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 97  | 97  | 97  | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 40  | 38  | 41  | 40  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | bove Norm       | 87                     | 87  | 88  | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 50                     | 50  | 50  | 54  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-34 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Stanislaus: MF Stanislaus River  
 Location: Node 445-450  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - - - - - 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | elow Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 1 1 1 1 - - - - 1 1 1 1 - - - - - - - - - - - - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |      |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|------|------|------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC   | WS   | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 1                              | 1  | 1  | 1  | Less                    | Less | Less | Less |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 5                              | 5  | 5  | 5  | Less                    | Less | Less | Less |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 4                              | 4  | 4  | 4  | Less                    | Less | Less | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 1                              | 1  | 1  | 1  | Less                    | Less | Less | Less |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 2                              | 2  | 2  | 2  | Less                    | Less | Less | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 1                              | 1  | 1  | 1  | Less                    | Less | Less | Less |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-35 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Stanislaus: MF Stanislaus River  
 Location: Iode 450-451  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 141 | 141 | 141 | 143 | 159 | 159 | 159 | 161 | 61  | 61  | 52  | 51  |
| 1976       | Critical        | 117                      | 119 | 116 | 113 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 163 | 158 | 141 | 155 | 100 | 100 | 100 | 103 | 100 | 100 | 100 | 140 |
| 1977       | Critical        | 77                       | 70  | 67  | 75  | 70  | 70  | 68  | 68  | 95  | 97  | 88  | 85  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 140 |
| 1978       | above Norm      | 100                      | 100 | 100 | 105 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 98  | 260 | 260 | 217 | 259 | 69  | 69  | 58  | 67  | 79  | 79  | 78  | 78  |
| 1979       | below Norm      | 100                      | 100 | 97  | 100 | 98  | 97  | 94  | 98  | 100 | 100 | 98  | 100 | 244 | 244 | 241 | 244 | 100 | 100 | 100 | 103 | 62  | 61  | 59  | 60  |
| 1980       | above Norm      | 86                       | 86  | 86  | 89  | 87  | 88  | 85  | 86  | 118 | 118 | 113 | 118 | 102 | 102 | 101 | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 98                       | 95  | 94  | 98  | 99  | 99  | 97  | 99  | 100 | 100 | 95  | 100 | 154 | 154 | 154 | 159 | 101 | 101 | 100 | 103 | 61  | 61  | 59  | 56  |
| 1982       | Wet             | 81                       | 87  | 77  | 81  | 77  | 77  | 78  | 75  | 90  | 90  | 90  | 91  | 93  | 93  | 93  | 93  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 104 | 100 | 100 | 100 | 100 | 100 |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 100 | 100 | 100 | 100 | 100 |
| 1985       | Dry             | 93                       | 93  | 93  | 97  | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 230 | 211 | 191 | 206 | 128 | 132 | 129 | 126 | 51  | 50  | 49  | 54  |
| 1986       | Wet             | 84                       | 84  | 74  | 77  | 92  | 93  | 83  | 88  | 91  | 91  | 95  | 92  | 223 | 223 | 211 | 219 | 89  | 89  | 89  | 90  | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 100                      | 100 | 100 | 103 | 100 | 96  | 92  | 95  | 98  | 96  | 93  | 98  | 153 | 153 | 153 | 153 | 70  | 70  | 70  | 70  | 462 | 462 | 462 | 462 |
| 1988       | Critical        | 76                       | 67  | 66  | 69  | 81  | 73  | 72  | 81  | 100 | 97  | 91  | 100 | 148 | 147 | 146 | 151 | 97  | 97  | 96  | 94  | 124 | 127 | 125 | 124 |
| 1989       | Dry             | 100                      | 90  | 99  | 100 | 100 | 91  | 75  | 100 | 100 | 104 | 119 | 100 | 106 | 101 | 73  | 106 | 94  | 94  | 90  | 94  | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 86                       | 89  | 82  | 85  | 90  | 90  | 90  | 90  | 110 | 115 | 103 | 102 | 140 | 131 | 130 | 140 | 75  | 65  | 63  | 75  | 131 | 131 | 133 | 135 |
| 1991       | Critical        | 78                       | 81  | 67  | 77  | 55  | 55  | 55  | 57  | 88  | 83  | 80  | 85  | 147 | 147 | 144 | 147 | 55  | 55  | 55  | 55  | 100 | 100 | 100 | 100 |
| 1992       | Critical        | 99                       | 99  | 99  | 101 | 67  | 64  | 62  | 67  | 86  | 89  | 69  | 73  | 124 | 124 | 124 | 124 | 82  | 82  | 80  | 82  | 129 | 129 | 126 | 129 |
| 1993       | above Norm      | 77                       | 77  | 67  | 77  | 100 | 89  | 86  | 100 | 100 | 98  | 93  | 100 | 204 | 204 | 201 | 200 | 145 | 146 | 146 | 144 | 71  | 71  | 71  | 71  |
| 1994       | Critical        | 100                      | 84  | 96  | 100 | 76  | 82  | 76  | 78  | 107 | 117 | 98  | 105 | 123 | 123 | 123 | 123 | 74  | 74  | 74  | 74  | 107 | 107 | 103 | 107 |
| 1995       | Wet             | 81                       | 76  | 70  | 81  | 100 | 98  | 96  | 100 | 100 | 96  | 91  | 100 | 124 | 124 | 124 | 126 | 86  | 83  | 88  | 84  | 100 | 100 | 100 | 100 |
| 1996       | Wet             | 102                      | 102 | 103 | 103 | 93  | 93  | 89  | 91  | 100 | 100 | 100 | 100 | 244 | 244 | 239 | 244 | 84  | 84  | 84  | 83  | 100 | 100 | 100 | 100 |
| 1997       | Wet             | 100                      | 100 | 100 | 95  | 89  | 94  | 80  | 88  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 100                      | 100 | 100 | 103 | 96  | 96  | 96  | 97  | 94  | 96  | 90  | 95  | 234 | 230 | 227 | 229 | 126 | 126 | 127 | 126 | 76  | 76  | 76  | 76  |
| 1999       | Wet             | 99                       | 97  | 95  | 99  | 100 | 99  | 96  | 99  | 200 | 200 | 198 | 200 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet             | 50                     | 50  | 50  | 52  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 97  | 100 | 100 | 100 | 100 | 103 |     |
| 1976       | Critical        | 66                     | 70  | 86  | 49  | 19  | 19  | 19  | 26  | 100 | 100 | 100 | 104 | 179 | 179 | 179 | 185 | 100 | 100 | 100 | 103 | 110 | 118 | 113 | 110 |     |
| 1977       | Critical        | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 38  | 38  | 38  | 54  | 89  | 89  | 89  | 89  | 127 | 127 | 127 | 108 | 139 | 139 | 139 | 131 |     |
| 1978       | above Norm      | 100                    | 100 | 96  | 96  | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 101 | 100 | 100 | 105 | 105 | 101 | 105 |
| 1979       | below Norm      | 98                     | 98  | 98  | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 105 | 99  | 103 | 95  | 95  | 95  | 99  | 100 | 100 | 100 | 103 |     |
| 1980       | above Norm      | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 97  | 100 | 100 | 109 | 111 | 108 | 109 |
| 1981       | Dry             | 126                    | 126 | 126 | 123 | 80  | 80  | 80  | 83  | 100 | 100 | 100 | 100 | 179 | 179 | 179 | 185 | 100 | 100 | 100 | 103 | 139 | 139 | 133 | 129 |     |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 101 | 100 | 100 | 100 | 100 | 97  | 100 |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 102 | 100 | 101 | 107 | 112 | 107 | 107 | 100 | 100 | 100 | 100 | 103 |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 99  | 99  | 99  | 99  | 100 | 100 | 100 | 100 | 143 | 143 | 143 | 148 | 100 | 100 | 100 | 103 | 108 | 108 | 108 | 112 |     |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 99  | 100 | 111 | 113 | 108 | 111 | 100 | 100 | 100 | 103 |     |
| 1987       | Dry             | 132                    | 133 | 153 | 117 | 19  | 20  | 25  | 27  | 100 | 105 | 100 | 100 | 143 | 143 | 143 | 148 | 100 | 100 | 100 | 103 | 112 | 135 | 112 | 112 |     |
| 1988       | Critical        | 126                    | 129 | 135 | 126 | 55  | 63  | 70  | 55  | 127 | 127 | 119 | 124 | 100 | 101 | 100 | 100 | 61  | 65  | 63  | 59  | 131 | 131 | 131 | 139 |     |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 100 | 100 | 100 | 103 | 122 | 122 | 122 | 126 |     |
| 1990       | Critical        | 130                    | 130 | 130 | 127 | 50  | 50  | 63  | 48  | 100 | 100 | 99  | 100 | 179 | 179 | 179 | 185 | 100 | 100 | 100 | 103 | 138 | 138 | 138 | 129 |     |
| 1991       | Critical        | 102                    | 102 | 116 | 102 | 162 | 165 | 161 | 161 | 76  | 75  | 76  | 76  | 152 | 152 | 152 | 157 | 100 | 100 | 100 | 103 | 120 | 120 | 120 | 124 |     |
| 1992       | Critical        | 137                    | 137 | 139 | 130 | 42  | 42  | 55  | 48  | 100 | 102 | 100 | 106 | 100 | 100 | 100 | 103 | 100 | 100 | 100 | 103 | 133 | 141 | 134 | 118 |     |
| 1993       | above Norm      | 93                     | 94  | 94  | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 97  | 100 | 122 | 125 | 120 | 122 |     |
| 1994       | Critical        | 161                    | 161 | 176 | 160 | 51  | 51  | 58  | 52  | 100 | 100 | 99  | 100 | 145 | 145 | 145 | 150 | 100 | 100 | 100 | 103 | 87  | 102 | 91  | 79  |     |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 106 | 106 | 100 | 106 |     |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 109 | 109 | 109 | 113 |     |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 105 | 100 | 101 | 109 | 106 | 97  | 101 | 100 | 100 | 100 | 103 |     |
| 1998       | Wet             | 89                     | 89  | 89  | 90  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 103 | 100 | 101 | 100 | 100 | 99  | 100 |     |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-36 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Stanislaus: MF Stanislaus River  
 Location: Node 450-451  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | 1                        | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  |    |
| 1979       | below Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1980       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1982       | Wet             | -                        | -  | 1  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1986       | Wet             | -                        | -  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  |    |
| 1988       | Critical        | 1                        | 1  | 1  | 1  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  | -  | -   | -  | -  |    |
| 1991       | Critical        | 1                        | -  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | above Normal    | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1994       | Critical        | -                        | -  | -  | -  | 1   | -  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

al Number of Events: 4 4 7 5 5 5 7 5 - - 1 1 - - 1 - 5 5 5 5 7 7 7 7

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | 1                        | 1  | -  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | below Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

al Number of Events: 2 2 1 2 7 7 7 6 2 2 2 2 - - - - 1 1 1 1 - - - 1

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 9                              | 9  | 15 | 11 | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 12                             | 12 | 13 | 12 | Potent                  | Potent | Potent | Potent |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 18                             | 18 | 17 | 17 | Potent                  | Potent | Potent | Potent |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 7                              | 7  | 10 | 9  | Less                    | Less   | Less   | Less   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 21                             | 21 | 25 | 22 | Potent                  | Potent | Potent | Potent |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 9                              | 9  | 8  | 8  | Potent                  | Potent | Potent | Potent |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 9                              | 9  | 14 | 10 | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-37 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Stanislaus: MF Stanislaus River  
 Location: Iode 451-480  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1976       | Critical        | 275                      | 306 | 270 | 240 | 100 | 100 | 87  | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1977       | Critical        | 100                      | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1978       | above Norm      | 100                      | 100 | 100 | 112 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 109 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1979       | below Norm      | 100                      | 100 | 87  | 100 | 92  | 90  | 80  | 92  | 100 | 100 | 94  | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |     |
| 1980       | above Norm      | 36                       | 36  | 36  | 50  | 35  | 38  | 20  | 28  | 216 | 216 | 186 | 216 | 103 | 103 | 102 | 101 | 100 | 100 | 101 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 94                       | 83  | 79  | 94  | 97  | 97  | 89  | 98  | 99  | 99  | 82  | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1982       | Wet             | 100                      | 100 | 100 | 140 | 37  | 37  | 37  | 52  | 82  | 82  | 82  | 84  | 83  | 83  | 83  | 83  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 95  | 100 | 100 | 100 | 111 | 100 | 100 | 100 | 100 | 100 |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 149 | 100 | 100 | 100 | 100 | 100 |
| 1985       | Dry             | 55                       | 55  | 55  | 76  | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 12  | 12  | 12  | 17  |
| 1986       | Wet             | 31                       | 31  | 31  | 43  | 100 | 100 | 100 | 140 | 62  | 62  | 77  | 68  | 100 | 100 | 100 | 140 | 86  | 86  | 86  | 87  | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 100                      | 100 | 100 | 140 | 101 | 86  | 71  | 82  | 93  | 84  | 73  | 91  | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1988       | Critical        | 100                      | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1989       | Dry             | 100                      | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1990       | Critical        | 44                       | 55  | 28  | 39  | 30  | 30  | 30  | 42  | 221 | 276 | 138 | 121 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1991       | Critical        | 100                      | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1992       | Critical        | 87                       | 87  | 87  | 121 | 23  | 23  | 23  | 33  | 85  | 85  | 85  | 119 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1993       | above Norm      | 100                      | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 41  | 41  | 41  | 41  |
| 1994       | Critical        | 100                      | 39  | 85  | 100 | 13  | 32  | 13  | 18  | 157 | 239 | 87  | 144 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1995       | Wet             | 100                      | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 60  | 53  | 66  | 56  | 100 | 100 | 100 | 100 |
| 1996       | Wet             | 126                      | 126 | 132 | 140 | 70  | 70  | 54  | 66  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 140 | 75  | 75  | 74  | 74  | 100 | 100 | 100 | 100 |
| 1997       | Wet             | 100                      | 100 | 100 | 140 | 53  | 76  | 16  | 46  | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 100                      | 100 | 100 | 140 | 49  | 49  | 49  | 69  | 75  | 82  | 59  | 77  | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 47  | 47  | 47  | 47  |
| 1999       | Wet             | 95                       | 89  | 85  | 95  | 99  | 98  | 86  | 98  | 836 | 836 | 798 | 836 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 87  | 100 | 100 | 100 | 100 | 140 |
| 1976       | Critical        | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1977       | Critical        | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1978       | above Norm      | 100                    | 100 | 90  | 126 | 100 | 100 | 99  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 102 | 100 | 123 | 123 | 104 | 123 |
| 1979       | below Norm      | 87                     | 87  | 87  | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 150 | 150 | 92  | 129 | 65  | 65  | 65  | 91  | 100 | 100 | 100 | 140 |
| 1980       | above Norm      | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 104 | 89  | 100 | 151 | 163 | 145 | 151 |
| 1981       | Dry             | 451                    | 451 | 451 | 402 | 26  | 26  | 26  | 36  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 101 | 100 | 100 | 99  | 90  | 100 |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 105 | 101 | 102 | 140 | 169 | 137 | 140 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 140 |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 98  | 98  | 98  | 98  | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 107 | 98  | 100 | 160 | 171 | 146 | 160 | 100 | 100 | 100 | 140 |
| 1987       | Dry             | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1988       | Critical        | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1990       | Critical        | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 95  | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1991       | Critical        | 100                    | 100 | 100 | 140 | 391 | 418 | 384 | 388 | 56  | 55  | 58  | 57  | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1992       | Critical        | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1993       | above Norm      | 90                     | 90  | 90  | 91  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 104 | 89  | 100 | 354 | 388 | 333 | 354 |
| 1994       | Critical        | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 92  | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 125 | 125 | 101 | 125 |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 112 | 144 | 96  | 111 | 184 | 154 | 75  | 105 | 100 | 100 | 100 | 140 |
| 1998       | Wet             | 74                     | 74  | 74  | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 107 | 100 | 103 | 100 | 100 | 97  | 100 |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-38 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Stanislaus: MF Stanislaus River  
 Location: Node 451-480  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year                     | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|--------------------------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|                                |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|                                |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978                           | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979                           | below Normal    | -                        | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980                           | above Normal    | 1                        | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981                           | Dry             | -                        | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982                           | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985                           | Dry             | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1986                           | Wet             | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987                           | Dry             | -                        | -  | -  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989                           | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990                           | Critical        | 1                        | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992                           | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993                           | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1994                           | Critical        | -                        | 1  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  | -  | -   | -  | -  |    |
| 1996                           | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  | -  | -   | -  | -  |    |
| 1997                           | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998                           | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | -  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1999                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| <b>Total Number of Events:</b> |                 | 4                        | 5  | 5  | 4  | 8   | 8  | 10 | 8  | 2   | 1  | 3  | 2  | -   | -  | -  | -  | 2   | 2  | 2  | 2  | 3   | 3  | 3  | 3  |

| Water Year                     | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |   |
|--------------------------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|---|
|                                |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |   |
|                                |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |   |
| 1975                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1976                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1977                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1978                           | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1979                           | below Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | -  | -  | -   | -  | -  |    |   |
| 1980                           | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1981                           | Dry             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1982                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1983                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1984                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1985                           | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1986                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1987                           | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1988                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1989                           | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1990                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1991                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1992                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1993                           | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1994                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1995                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1996                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1997                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1998                           | Wet             | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  |    |   |
| 1999                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| <b>Total Number of Events:</b> |                 | 1                        | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | 1   | 1  | 2  | -  | -   | -  | -  | -  | - |

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 14                             | 14 | 18 | 14 | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 5                              | 5  | 5  | 5  | Less                    | Less   | Less   | Less   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 6                              | 6  | 6  | 6  | Less                    | Less   | Less   | Less   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 6                              | 7  | 8  | 5  | Less                    | Less   | Less   | Less   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 16                             | 17 | 20 | 15 | Less                    | Less   | Potent | Less   |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 2                              | 2  | 2  | 2  | Less                    | Less   | Less   | Less   |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 12                             | 13 | 15 | 12 | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant



Motherlode: Appendix Table-39 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Stanislaus: MF Stanislaus River  
 Location: Iode 480-999  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1976       | Critical        | 275                      | 306 | 270 | 240 | 100 | 100 | 87  | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1977       | Critical        | 100                      | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1978       | above Norm      | 100                      | 100 | 100 | 112 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 109 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1979       | below Norm      | 100                      | 100 | 87  | 100 | 92  | 90  | 80  | 92  | 100 | 100 | 94  | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1980       | above Norm      | 36                       | 36  | 36  | 50  | 35  | 38  | 20  | 28  | 216 | 216 | 186 | 216 | 103 | 103 | 102 | 101 | 100 | 100 | 101 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 94                       | 83  | 79  | 94  | 97  | 97  | 89  | 98  | 99  | 99  | 82  | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1982       | Wet             | 100                      | 100 | 100 | 140 | 37  | 37  | 37  | 52  | 82  | 82  | 82  | 84  | 83  | 83  | 83  | 83  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 95  | 100 | 100 | 100 | 111 | 100 | 100 | 100 | 100 | 100 |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 149 | 100 | 100 | 100 | 100 | 100 |
| 1985       | Dry             | 55                       | 55  | 55  | 76  | 100 | 100 | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 12  | 12  | 12  | 17  |
| 1986       | Wet             | 31                       | 31  | 31  | 43  | 100 | 100 | 100 | 140 | 62  | 62  | 77  | 68  | 100 | 100 | 100 | 140 | 86  | 86  | 86  | 87  | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 100                      | 100 | 100 | 140 | 101 | 86  | 71  | 82  | 93  | 84  | 73  | 91  | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1988       | Critical        | 100                      | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1989       | Dry             | 100                      | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1990       | Critical        | 44                       | 55  | 28  | 39  | 30  | 30  | 30  | 42  | 221 | 276 | 138 | 121 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1991       | Critical        | 100                      | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1992       | Critical        | 87                       | 87  | 87  | 121 | 23  | 23  | 23  | 33  | 85  | 85  | 85  | 119 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1993       | above Norm      | 100                      | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 41  | 41  | 41  | 41  |
| 1994       | Critical        | 100                      | 39  | 85  | 100 | 13  | 32  | 13  | 18  | 157 | 239 | 87  | 144 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1995       | Wet             | 100                      | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 60  | 53  | 66  | 56  | 100 | 100 | 100 | 100 |
| 1996       | Wet             | 126                      | 126 | 132 | 140 | 70  | 70  | 54  | 66  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 140 | 75  | 75  | 74  | 74  | 100 | 100 | 100 | 100 |
| 1997       | Wet             | 100                      | 100 | 100 | 140 | 53  | 76  | 16  | 46  | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 105 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 100                      | 100 | 100 | 140 | 49  | 49  | 49  | 69  | 75  | 82  | 59  | 77  | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 47  | 47  | 47  | 47  |
| 1999       | Wet             | 95                       | 89  | 85  | 95  | 99  | 98  | 86  | 98  | 836 | 836 | 798 | 836 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 87  | 100 | 100 | 100 | 100 | 140 |
| 1976       | Critical        | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1977       | Critical        | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1978       | above Norm      | 100                    | 100 | 90  | 126 | 100 | 100 | 99  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 102 | 100 | 123 | 123 | 104 | 123 |
| 1979       | below Norm      | 87                     | 87  | 87  | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 150 | 150 | 92  | 129 | 65  | 65  | 65  | 91  | 100 | 100 | 100 | 140 |
| 1980       | above Norm      | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 104 | 89  | 100 | 151 | 163 | 145 | 151 |
| 1981       | Dry             | 451                    | 451 | 451 | 402 | 26  | 26  | 26  | 36  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 101 | 101 | 100 | 100 | 99  | 90  | 100 |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 102 | 105 | 101 | 102 | 140 | 169 | 137 | 140 | 100 | 100 | 100 | 140 |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 98  | 98  | 98  | 98  | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 107 | 98  | 100 | 160 | 171 | 146 | 160 | 100 | 100 | 100 | 140 |
| 1987       | Dry             | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1988       | Critical        | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1990       | Critical        | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 95  | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1991       | Critical        | 100                    | 100 | 100 | 140 | 391 | 418 | 384 | 388 | 56  | 55  | 58  | 57  | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1992       | Critical        | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1993       | above Norm      | 90                     | 90  | 90  | 91  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 104 | 89  | 100 | 354 | 388 | 333 | 354 |
| 1994       | Critical        | 100                    | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 92  | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 125 | 125 | 101 | 125 |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 140 | 100 | 100 | 100 | 140 |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 112 | 144 | 96  | 111 | 184 | 154 | 75  | 105 | 100 | 100 | 100 | 140 |
| 1998       | Wet             | 74                     | 74  | 74  | 76  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 103 | 107 | 100 | 103 | 100 | 100 | 97  | 100 |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-40 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Stanislaus: MF Stanislaus River  
 Location: Node 480-999  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year                     | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|--------------------------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|                                |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|                                |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978                           | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979                           | below Normal    | -                        | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980                           | above Normal    | 1                        | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981                           | Dry             | -                        | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982                           | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985                           | Dry             | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1986                           | Wet             | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987                           | Dry             | -                        | -  | -  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989                           | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990                           | Critical        | 1                        | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992                           | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993                           | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1994                           | Critical        | -                        | 1  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  | -  | -   | -  | -  |    |
| 1996                           | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  | -  | -   | -  | -  |    |
| 1997                           | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998                           | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | -  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | 1  |    |
| 1999                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| <b>Total Number of Events:</b> |                 | 4                        | 5  | 5  | 4  | 8   | 8  | 10 | 8  | 2   | 1  | 3  | 2  | -   | -  | -  | -  | 2   | 2  | 2  | 2  | 3   | 3  | 3  | 3  |

| Water Year                     | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |   |
|--------------------------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|---|
|                                |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |   |
|                                |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |   |
| 1975                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1976                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1977                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1978                           | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1979                           | below Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | 1  | -  | -  | -   | -  | -  |    |   |
| 1980                           | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1981                           | Dry             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1982                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1983                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1984                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1985                           | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1986                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1987                           | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1988                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1989                           | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1990                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1991                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1992                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1993                           | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1994                           | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1995                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1996                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1997                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| 1998                           | Wet             | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  |    |   |
| 1999                           | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |   |
| <b>Total Number of Events:</b> |                 | 1                        | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | 1   | 1  | 2  | -  | -   | -  | -  | -  | - |

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 14                             | 14 | 18 | 14 | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 5                              | 5  | 5  | 5  | Less                    | Less   | Less   | Less   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 6                              | 6  | 6  | 6  | Less                    | Less   | Less   | Less   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 6                              | 7  | 8  | 5  | Less                    | Less   | Less   | Less   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 16                             | 17 | 20 | 15 | Less                    | Less   | Potent | Less   |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 2                              | 2  | 2  | 2  | Less                    | Less   | Less   | Less   |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 12                             | 13 | 15 | 12 | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-41 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Stanislaus: MF Stanislaus River  
 Location: Iode 430-435  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 18  | 18  | 18  | 18  | 55  | 55  | 55  | 55  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | above Norm      | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 386 | 428 | 100 | 100 | 100 | 90  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | below Norm      | 100                      | 100 | 100 | 100 | 112 | 112 | 112 | 112 | 97  | 97  | 97  | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | above Norm      | 100                      | 100 | 100 | 100 | 13  | 13  | 13  | 13  | 310 | 310 | 310 | 310 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 59  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 228                      | 228 | 228 | 228 | 644 | 644 | 644 | 644 | 18  | 18  | 18  | 18  | 49  | 49  | 49  | 49  | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 64                       | 64  | 64  | 64  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 69  | 69  | 69  | 69  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 63                       | 63  | 63  | 63  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 199                      | 199 | 100 | 199 | 69  | 69  | 100 | 69  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 111 | 111 | 111 | 111 | 72  | 72  | 72  | 72  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 97  | 97  | 97  | 97  | 111 | 111 | 111 | 111 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | above Norm      | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 116                      | 22  | 116 | 116 | 107 | 143 | 107 | 107 | 15  | 15  | 15  | 15  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 143 | 143 | 143 | 143 | 82  | 82  | 82  | 82  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 27  | 27  | 27  | 27  | 37  | 37  | 37  | 37  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 91                       | 91  | 91  | 91  | 14  | 14  | 14  | 14  | 42  | 42  | 42  | 42  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 334 | 334 | 334 | 334 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 107 | 107 | 107 | 107 | 92  | 92  | 92  | 92  | 123 | 123 | 123 | 123 |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1978       | above Norm      | 100                    | 100 | 17  | 17  | 100 | 100 | 95  | 92  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1979       | below Norm      | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 93  | 100 | 100 | 100 | 100 | 100 |     |
| 1980       | above Norm      | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 69  | 69  | 69  | 69  | 227 | 227 | 227 | 227 |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 116 | 116 | 116 | 116 |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 246 | 246 | 246 | 246 | 40  | 40  | 40  | 40  | 786 | 786 | 786 | 786 |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 110 | 110 | 100 | 110 | 110 | 110 | 124 | 110 |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical        | 266                    | 266 | 266 | 266 | 79  | 79  | 79  | 79  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 537 | 537 | 537 | 537 | 71  | 71  | 71  | 71  | 98  | 98  | 98  | 98  |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 58  | 58  | 58  | 58  | 227 | 227 | 227 | 227 |
| 1992       | Critical        | 196                    | 196 | 196 | 196 | 40  | 40  | 40  | 40  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | above Norm      | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 492                    | 492 | 492 | 492 | 39  | 39  | 39  | 39  | 100 | 100 | 100 | 100 | 53  | 53  | 53  | 100 | 129 | 129 | 129 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 47  | 47  | 47  | 47  | OTP | OTP | OTP | OTP |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 95  | 99  | 993 | 993 | 993 | 993 |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-42 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Stanislaus: MF Stanislaus River  
 Location: Node 430-435  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | below Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | above Normal    | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | 1   | 1  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | 1  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 2 3 2 2 5 5 4 5 7 7 8 7 1 1 1 1 - - - - - - - - - -

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |     |     |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|-----|-----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |     |     |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM  | WM  | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1978       | above Normal    | -                        | -  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1979       | below Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1980       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -   | -   |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -   | -   |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1988       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -   | -   |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -   | -   |    |
| 1992       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1993       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1994       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | OTP | OTP | OTP |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   |    |

Total Number of Events: - - 1 1 3 3 3 3 - - - - 1 1 1 - 5 5 5 5 - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 14                             | 15 | 14 | 14 | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 1                              | 1  | 1  | 1  | Less                    | Less   | Less   | Less   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 3                              | 3  | 4  | 4  | Less                    | Less   | Less   | Less   |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 8                              | 9  | 8  | 7  | Less                    | Less   | Less   | Less   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 16                             | 17 | 16 | 16 | Less                    | Less   | Less   | Less   |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 3                              | 3  | 4  | 4  | Less                    | Less   | Less   | Less   |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 7                              | 8  | 6  | 7  | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-43 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Stanislaus: MF Stanislaus River  
 Location: Iode 435-440  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1976       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1978       | above Norm      | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1979       | below Norm      | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1980       | above Norm      | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1983       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 82  | 82  | 82  | 82  | 100 | 100 | 100 | 100 |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1993       | above Norm      | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 46  | 46  | 46  | 46  | 100 | 100 | 100 | 100 |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 89  | 89  | 89  | 89  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |     |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | above Norm      | 100                    | 100 | 100 | 100 | 100 | 100 | 99  | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | below Norm      | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | above Norm      | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | above Norm      | 98                     | 98  | 98  | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 17                     | 17  | 17  | 21  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-44 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Stanislaus: MF Stanislaus River  
 Location: Node 435-440  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | below Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: - - - - - - - - - - - - - - - - - - - - - - 1 1 1 1 - - - - -

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | below Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

Total Number of Events: 1 1 1 1 - - - - - - - - - - - - - - - - - - - - - - - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |      |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|------|------|------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC   | WS   | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 1                              | 1  | 1  | 1  | Less                    | Less | Less | Less |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 1                              | 1  | 1  | 1  | Less                    | Less | Less | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 1                              | 1  | 1  | 1  | Less                    | Less | Less | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 1                              | 1  | 1  | 1  | Less                    | Less | Less | Less |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-45 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Stanislaus: SF Stanislaus River  
 Location: Iode 400-405  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 151 | 100 | 56  | 151 | 138 | 173 | 178 | 198 | 20  | 81  | 141 | 45  |
| 1976       | Critical        | 100                      | 77  | 88  | 100 | 100 | 100 | 54  | 100 | 100 | 100 | 97  | 100 | 201 | 190 | 73  | 190 | 127 | 101 | 90  | 154 | 65  | 57  | 78  | 57  |
| 1977       | Critical        | 94                       | 31  | 8   | 94  | 80  | 25  | 8   | 58  | 146 | 76  | 6   | 183 | 100 | 100 | 100 | 100 | 100 | 41  | 66  | 100 | 100 | OTP | OTP | 100 |
| 1978       | above Norm      | 19                       | 19  | 14  | 23  | 100 | 100 | 124 | 82  | 100 | 100 | 38  | 100 | 142 | 142 | 0   | 159 | 83  | 83  | 60  | 75  | 100 | 100 | 137 | 99  |
| 1979       | below Norm      | 103                      | 100 | 72  | 103 | 98  | 92  | 54  | 98  | 100 | 100 | 81  | 100 | 263 | 263 | 230 | 263 | 138 | 134 | 153 | 211 | 98  | 99  | 108 | 85  |
| 1980       | above Norm      | 100                      | 70  | 25  | 100 | 100 | 50  | 82  | 93  | 100 | 100 | 51  | 102 | 100 | 94  | 110 | 103 | 100 | 100 | 112 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 108                      | 73  | 47  | 96  | 87  | 87  | 94  | 103 | 89  | 89  | 32  | 91  | 45  | 45  | 232 | 68  | 253 | 253 | 268 | 248 | 64  | 64  | 64  | 64  |
| 1982       | Wet             | 88                       | 62  | 7   | 88  | 112 | 74  | 116 | 112 | 100 | 92  | 69  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 168 | 100 | 100 | 100 | 98  | 98  |
| 1983       | Wet             | 100                      | 98  | 102 | 100 | 100 | 100 | 87  | 100 | 100 | 100 | 64  | 100 | 100 | 100 | 69  | 100 | 100 | 100 | 233 | 100 | 100 | 100 | 100 | 100 |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 62  | 100 | 100 | 100 | 100 | 100 | 211 | 100 | 318 | 211 | 100 | 100 | 101 | 100 |
| 1985       | Dry             | 100                      | 69  | 52  | 100 | 100 | 100 | 55  | 100 | 100 | 100 | 100 | 100 | 77  | 82  | 35  | 85  | 151 | 69  | 80  | 87  | 78  | 79  | 78  | 127 |
| 1986       | Wet             | 100                      | 55  | 54  | 100 | 108 | 67  | 23  | 100 | 100 | 100 | 82  | 100 | 290 | 290 | 239 | 290 | 72  | 72  | 120 | 72  | 84  | 81  | 100 | 86  |
| 1987       | Dry             | 83                       | 67  | 47  | 83  | 137 | 75  | 74  | 137 | 88  | 58  | 28  | 88  | 28  | 28  | 28  | 28  | 200 | 176 | OTP | 200 | 100 | 95  | 27  | 100 |
| 1988       | Critical        | 118                      | 40  | 18  | 100 | 83  | 40  | 25  | 100 | 100 | 100 | 42  | 100 | 70  | 100 | 75  | 73  | 237 | 178 | 275 | 233 | 94  | 94  | 94  | 94  |
| 1989       | Dry             | 62                       | 9   | 5   | 62  | 100 | 32  | 62  | 100 | 100 | 100 | 9   | 100 | 100 | 100 | 17  | 100 | 100 | 100 | 125 | 100 | 100 | 140 | 185 | 100 |
| 1990       | Critical        | 100                      | 82  | 60  | 100 | 100 | 95  | 55  | 100 | 100 | 100 | 69  | 100 | 212 | 127 | 99  | 212 | 100 | 61  | 80  | 100 | 89  | 89  | 85  | 89  |
| 1991       | Critical        | 105                      | 49  | 7   | 89  | 71  | 38  | 4   | 112 | 136 | 100 | 8   | 109 | 70  | 70  | 30  | 70  | 128 | 128 | 254 | 128 | 100 | 100 | 112 | 100 |
| 1992       | Critical        | 101                      | 69  | 17  | 86  | 83  | 55  | 81  | 85  | 123 | 100 | 13  | 148 | 100 | 100 | 182 | 100 | 119 | 119 | 130 | 119 | 91  | 91  | 91  | 91  |
| 1993       | above Norm      | 103                      | 49  | 36  | 88  | 99  | 40  | 17  | 120 | 94  | 94  | 23  | 94  | 219 | 263 | 345 | 222 | 71  | 53  | 53  | 53  | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                      | 100 | 77  | 100 | 50  | 50  | 38  | 50  | 151 | 95  | 40  | 151 | 100 | 100 | 114 | 100 | 48  | 48  | 83  | 48  | 120 | 120 | 120 | 120 |
| 1995       | Wet             | 116                      | 55  | 23  | 100 | 100 | 84  | 52  | 100 | 95  | 78  | 44  | 100 | 150 | 176 | 189 | 150 | 46  | 0   | 77  | 40  | 100 | 90  | 127 | 111 |
| 1996       | Wet             | 98                       | 98  | 99  | 98  | 100 | 100 | 55  | 100 | 100 | 100 | 100 | 100 | 320 | 320 | 182 | 439 | 99  | 99  | 100 | 78  | 100 | 100 | 167 | 100 |
| 1997       | Wet             | 78                       | 55  | 13  | 78  | 100 | 100 | 57  | 100 | 120 | 71  | 91  | 120 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 112                      | 64  | 60  | 112 | 77  | 59  | 23  | 83  | 102 | 78  | 42  | 100 | 361 | 297 | 256 | 337 | 187 | 187 | 205 | 187 | 100 | 100 | 122 | 100 |
| 1999       | Wet             | 83                       | 59  | 43  | 102 | 96  | 93  | 84  | 93  | 511 | 465 | 393 | 465 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet             | 72                     | 72  | 81  | 23  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 133 | 58  | 100 | 100 | 100 | 132 | 185 | 100 |
| 1976       | Critical        | 826                    | 971 | OTP | 794 | 14  | 2   | 60  | 17  | 696 | 868 | 514 | 699 | 13  | 103 | 118 | 13  | 70  | 364 | 138 | 49  | 84  | 61  | 152 | 91  |     |
| 1977       | Critical        | 100                    | 11  | 235 | 27  | 100 | 134 | 100 | 298 | 100 | 100 | 90  | 100 | 598 | 217 | 737 | 100 | 23  | 71  | 58  | 80  | 831 | 798 | OTP | 831 |     |
| 1978       | above Norm      | 100                    | 100 | 100 | 100 | 100 | 100 | 119 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 110 | 107 | 100 | 100 | 100 | 99  | 100 |     |
| 1979       | below Norm      | 99                     | 100 | 109 | 99  | 92  | 92  | 105 | 89  | 100 | 100 | 100 | 100 | 124 | 243 | 180 | 82  | 78  | 154 | 78  | 78  | 100 | 82  | 126 | 132 |     |
| 1980       | above Norm      | 100                    | 129 | 153 | 100 | 100 | 94  | 107 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 115 | 62  | 100 | 119 | 159 | 171 | 119 |     |
| 1981       | Dry             | 100                    | 171 | 115 | 100 | 100 | 72  | 141 | 100 | 100 | 100 | 100 | 100 | 25  | 237 | 394 | 148 | 80  | 102 | 179 | 80  | 143 | 197 | 68  | 100 |     |
| 1982       | Wet             | 100                    | 100 | 101 | 101 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 109 | 142 | 100 | 100 | 96  | 55  | 100 |     |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1984       | Wet             | 100                    | 100 | 115 | 100 | 97  | 100 | 104 | 97  | 100 | 100 | 100 | 100 | 148 | 203 | 118 | 148 | 100 | 242 | 248 | 100 | 84  | 71  | 75  | 84  |     |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 137 | 100 | 100 | 100 | 100 | 100 | 133 | 326 | 141 | 133 | 82  | 200 | 295 | 82  | 100 | 65  | 51  | 100 |     |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 164 | 100 | 100 | 97  | 179 | 155 | 97  | 104 | 73  | 56  | 104 |     |
| 1987       | Dry             | OTP                    | 789 | OTP | 576 | 1   | 68  | 25  | 74  | 100 | 76  | 121 | 76  | 100 | 246 | 119 | 128 | 100 | 233 | 514 | 100 | 100 | 178 | 12  | 105 |     |
| 1988       | Critical        | 104                    | 156 | 266 | 129 | 77  | 103 | 132 | 59  | 136 | 90  | 212 | 100 | 100 | OTP | 717 | 100 | 100 | 417 | 100 | 706 | 182 | 132 | 146 | 131 |     |
| 1989       | Dry             | 99                     | 69  | 111 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 98  | 181 | 243 | 98  | 104 | 269 | 209 | 104 | 100 | 115 | 95  | 100 |     |
| 1990       | Critical        | 235                    | 235 | 256 | 235 | 18  | 18  | 187 | 18  | 100 | 100 | 100 | 100 | 645 | OTP | OTP | 436 | 78  | 142 | 78  | 98  | 83  | 132 | 154 | 83  |     |
| 1991       | Critical        | 39                     | 39  | 445 | 100 | 108 | 111 | 107 | 100 | 100 | 97  | 100 | 100 | 94  | 139 | 251 | 94  | 104 | 168 | 161 | 104 | 100 | 133 | 56  | 100 |     |
| 1992       | Critical        | 123                    | 123 | 161 | 100 | 48  | 48  | 209 | 100 | 92  | 220 | 48  | 48  | 127 | 188 | 187 | 146 | 75  | 119 | 150 | 75  | 100 | 77  | 77  | 100 |     |
| 1993       | above Norm      | 100                    | 100 | 100 | 100 | 100 | 101 | 126 | 103 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 115 | 61  | 100 | 129 | 178 | 182 | 129 |     |
| 1994       | Critical        | 170                    | 170 | 535 | 336 | 70  | 70  | 63  | 0   | 100 | 100 | 100 | 100 | 100 | 221 | 123 | 101 | 100 | 195 | 220 | 99  | 100 | 194 | 187 | 100 |     |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 109 | 100 | 100 | 100 | 62  | 100 |     |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 93  | 93  | 100 | 92  | 100 | 100 | 100 | 100 | 100 | 128 | 187 | 100 | 90  | 241 | 79  | 90  | 109 | 101 | 185 | 109 |     |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 99  | 104 | 100 | 100 | 100 | 100 | 100 | 132 | 574 | 100 | 255 | 93  | 140 | 188 | 65  | 100 | 90  | 70  | 100 |     |
| 1998       | Wet             | 100                    | 96  | 96  | 100 | 70  | 70  | 116 | 71  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 162 | 132 | 100 | 103 | 100 | 78  | 103 |     |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-46 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Stanislaus: SF Stanislaus River  
 Location: Node 400-405  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   |    |
| 1976       | Critical        | -                        | 1  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -   | -   | -   | 1   | -   | -   | 1  |
| 1977       | Critical        | -                        | 1  | 1  | -  | 1   | -  | 1  | 1  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | 1   | 1   | -   | -   | OTP | OTP | -  |
| 1978       | above Normal    | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -   | 1   | 1   | -   | -   | -   | -  |
| 1979       | below Normal    | -                        | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  |
| 1980       | above Normal    | -                        | 1  | 1  | -  | -   | 1  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  |
| 1981       | Dry             | -                        | 1  | 1  | -  | -   | 1  | -  | -  | -   | 1  | -  | -  | 1   | -  | -  | 1  | -   | -   | -   | -   | 1   | 1   | 1   | 1  |
| 1982       | Wet             | -                        | 1  | 1  | -  | -   | 1  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | 1  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  |
| 1985       | Dry             | -                        | 1  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | 1  | -   | 1  | -  | -  | 1   | 1   | -   | -   | 1   | 1   | 1   | -  |
| 1986       | Wet             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | -   | 1   | -   | -   | -   | -   | -  |
| 1987       | Dry             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | 1   | 1  | 1  | 1  | -   | -   | OTP | -   | -   | -   | 1   | -  |
| 1988       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | -  | 1  | -  | 1   | -  | 1  | 1  | -   | -   | -   | -   | -   | -   | -   | -  |
| 1989       | Dry             | 1                        | 1  | 1  | 1  | -   | 1  | 1  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -   | -   | -   | -   | -   | -   | -  |
| 1990       | Critical        | -                        | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | 1   | 1   | -   | -   | -   | -   | -   | -  |
| 1991       | Critical        | -                        | 1  | 1  | -  | 1   | -  | 1  | 1  | -   | -  | -  | 1  | -   | 1  | 1  | 1  | -   | -   | -   | -   | -   | -   | -   | -  |
| 1992       | Critical        | -                        | 1  | 1  | -  | -   | 1  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  |
| 1993       | above Normal    | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | 1   | 1   | 1   | 1   | -   | -   | -   | -  |
| 1994       | Critical        | -                        | -  | 1  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | 1  | -   | -  | -  | -  | 1   | 1   | 1   | 1   | -   | -   | -   | -  |
| 1995       | Wet             | -                        | 1  | 1  | -  | -   | -  | 1  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | 1   | 1   | 1   | 1   | -   | -   | -   | -  |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | 1   | -   | -   | -  |
| 1997       | Wet             | 1                        | 1  | 1  | 1  | -   | -  | 1  | -  | -   | 1  | -  | -  | -   | -  | -  | -  | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -  |
| 1998       | Wet             | -                        | 1  | 1  | -  | 1   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  |
| 1999       | Wet             | -                        | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -  |

Total Number of Events: 3 18 20 3 4 12 16 2 - 5 17 - 5 3 9 4 4 7 6 6 4 3 4 3

| Water Year | Water Year Type | Habitat Reduction Events |    |     |    |     |    |    |    |     |    |    |    |     |     |     |    |     |    |    |    |     |    |     |    |
|------------|-----------------|--------------------------|----|-----|----|-----|----|----|----|-----|----|----|----|-----|-----|-----|----|-----|----|----|----|-----|----|-----|----|
|            |                 | Apr                      |    |     |    | May |    |    |    | Jun |    |    |    | Jul |     |     |    | Aug |    |    |    | Sep |    |     |    |
|            |                 | NP                       | PM | WM  | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM  | WM  | ST | NP  | PM | WM | ST | NP  | PM | WM  | ST |
| 1975       | Wet             | 1                        | 1  | -   | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | -  | -  | -   | -  | -   | -  |
| 1976       | Critical        | -                        | -  | OTP | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | 1   | -   | -   | -  | 1   | -  | -  | -  | 1   | -  | -   | -  |
| 1977       | Critical        | -                        | 1  | -   | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | 1   | 1  | 1  | -  | -   | -  | OTP | -  |
| 1978       | above Normal    | -                        | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | -  | -  | -   | -  | -   | -  |
| 1979       | below Normal    | -                        | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | 1   | -  | 1  | 1  | -   | -  | -   | -  |
| 1980       | above Normal    | -                        | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | 1  | -  | -   | -  | -   | -  |
| 1981       | Dry             | -                        | -  | -   | -  | -   | 1  | -  | -  | -   | -  | -  | 1  | -   | -   | -   | -  | -   | -  | -  | -  | -   | -  | 1   | -  |
| 1982       | Wet             | -                        | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | -  | -  | -   | -  | 1   | -  |
| 1983       | Wet             | -                        | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | -  | -  | -   | -  | -   | -  |
| 1984       | Wet             | -                        | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | -  | -  | -   | 1  | 1   | -  |
| 1985       | Dry             | -                        | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | -  | -  | -   | 1  | 1   | -  |
| 1986       | Wet             | -                        | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | -  | -  | -   | 1  | 1   | -  |
| 1987       | Dry             | OTP                      | -  | OTP | -  | 1   | 1  | 1  | 1  | -   | 1  | -  | 1  | -   | -   | -   | -  | -   | -  | -  | -  | -   | -  | 1   | -  |
| 1988       | Critical        | -                        | -  | -   | -  | 1   | -  | -  | 1  | -   | -  | -  | -  | -   | OTP | -   | -  | -   | -  | -  | -  | -   | -  | -   | -  |
| 1989       | Dry             | -                        | 1  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | -  | -  | -   | -  | -   | -  |
| 1990       | Critical        | -                        | -  | -   | -  | 1   | 1  | -  | 1  | -   | -  | -  | -  | -   | OTP | OTP | -  | 1   | -  | 1  | -  | -   | -  | -   | -  |
| 1991       | Critical        | 1                        | 1  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | -  | -  | -   | -  | 1   | -  |
| 1992       | Critical        | -                        | -  | -   | -  | 1   | 1  | -  | -  | -   | -  | 1  | 1  | -   | -   | -   | 1  | -   | -  | 1  | -  | -   | 1  | 1   | -  |
| 1993       | above Normal    | -                        | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | 1  | -  | -   | -  | -   | -  |
| 1994       | Critical        | -                        | -  | -   | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | -  | -  | -   | -  | -   | -  |
| 1995       | Wet             | -                        | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | -  | -  | -   | -  | 1   | -  |
| 1996       | Wet             | -                        | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | 1  | -  | -   | -  | -   | -  |
| 1997       | Wet             | -                        | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | -  | 1  | -   | -  | -   | -  |
| 1998       | Wet             | -                        | -  | -   | -  | 1   | 1  | -  | 1  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | -  | -  | -   | -  | 1   | -  |
| 1999       | Wet             | -                        | -  | -   | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -   | -   | -  | -   | -  | -  | -  | -   | -  | 1   | -  |

Total Number of Events: 2 4 - 2 7 7 3 6 - 1 1 2 2 - - 1 5 1 7 4 - 5 11 -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 7                              | 35 | 53 | 5  | Less                    | Potent | Potent | Less   |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 13                             | 13 | 19 | 13 | Potent                  | Potent | Potent | Potent |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 13                             | 15 | 8  | 13 | Potent                  | Potent | Potent | Potent |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 10                             | 25 | 39 | 10 | Less                    | Potent | Potent | Less   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 23                             | 48 | 58 | 20 | Potent                  | Potent | Potent | Potent |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 9                              | 11 | 3  | 8  | Potent                  | Potent | Less   | Potent |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 7                              | 30 | 36 | 5  | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant



Motherlode: Appendix Table-47 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Stanislaus: SF Stanislaus River  
 Location: Iode 405-410  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 110 | 12  | 16  | 110 | 100 | 487 | OTP | OTP | 79  | 214 | 275 | 86  |
| 1976       | Critical        | 100                      | 24  | 59  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 119 | 617 | 264 | 65  | 58  | 78  | 58  |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 507 | 100 | 130 | 100 | 29  | 100 | 18  | 100 | 100 | 100 | 100 | 100 | 100 | 42  | 67  | 100 | 100 | 990 | OTP | 100 |
| 1978       | above Norm      | 19                       | 19  | 16  | 16  | 100 | 100 | 122 | 83  | 100 | 100 | 26  | 91  | 100 | 100 | 183 | 250 | 100 | 100 | 470 | 100 | 100 | 100 | 694 | 88  |
| 1979       | below Norm      | 138                      | 100 | 223 | 138 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 94  | 94  | 94  | 94  | 100 | 100 | 470 | 737 | 89  | 96  | 202 | 24  |
| 1980       | above Norm      | 100                      | 100 | 100 | 100 | 100 | 38  | 301 | 38  | 100 | 100 | 100 | 143 | 100 | 90  | 116 | 105 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 215                      | 215 | 100 | 100 | 100 | 100 | 693 | 290 | 40  | 40  | 40  | 40  | 64  | 64  | 187 | 79  | 96  | 96  | 148 | 100 | 100 | 100 | 107 | 100 |
| 1982       | Wet             | 40                       | 40  | 40  | 40  | 141 | 13  | 154 | 141 | 100 | 88  | 54  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 250 | 100 | 100 | 100 | 83  | 83  |
| 1983       | Wet             | 100                      | 98  | 103 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 9   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1984       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 41  | 100 | 100 | 100 | 100 | 100 | 543 | 100 | 100 | 543 | 100 | 100 | 120 | 100 |
| 1985       | Dry             | 100                      | 100 | 212 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 8   | 36  | 8   | 8   | 163 | 11  | 67  | 45  | 217 | OTP | OTP | OTP |
| 1986       | Wet             | 100                      | 100 | 377 | 100 | 267 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 40  | 40  | 264 | 40  | 15  | 15  | 159 | 15  | 78  | 74  | 100 | 82  |
| 1987       | Dry             | 230                      | 100 | 100 | 230 | 100 | 100 | 617 | 100 | 29  | 29  | 29  | 29  | 42  | 42  | 42  | 42  | 177 | 158 | 796 | 177 | 100 | 95  | 29  | 100 |
| 1988       | Critical        | 292                      | 100 | 208 | 100 | 22  | 24  | 79  | 100 | 91  | 400 | 345 | 100 | 12  | 48  | 28  | 12  | 593 | 297 | 950 | 630 | 91  | 72  | 87  | 91  |
| 1989       | Dry             | 15                       | 13  | 13  | 15  | 100 | 116 | 371 | 100 | 100 | 100 | 25  | 100 | 100 | 100 | 47  | 100 | 100 | 100 | 197 | 100 | 100 | 537 | OTP | 100 |
| 1990       | Critical        | 100                      | 30  | 125 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 170 | 223 | 100 | 100 | 217 | 295 | 100 | 89  | 89  | 53  | 89  |
| 1991       | Critical        | 129                      | 43  | 43  | 43  | 68  | 88  | 68  | 380 | 70  | 121 | 34  | 55  | 73  | 73  | 38  | 73  | 126 | 126 | 244 | 126 | 100 | 100 | 112 | 100 |
| 1992       | Critical        | 104                      | 80  | 36  | 36  | 100 | 100 | 980 | 100 | 87  | 162 | 106 | 304 | 100 | 100 | 171 | 100 | 100 | 100 | 165 | 100 | 83  | 83  | 103 | 83  |
| 1993       | above Norm      | 117                      | 40  | 142 | 40  | 100 | 207 | 217 | 477 | 70  | 172 | 116 | 77  | 100 | 100 | 633 | 110 | 41  | 9   | 9   | 9   | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                      | 100 | 330 | 100 | 34  | 34  | 34  | 34  | 283 | 283 | 100 | 283 | 101 | 101 | 115 | 101 | 50  | 50  | 83  | 50  | 87  | 87  | 109 | 87  |
| 1995       | Wet             | 268                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 48  | 100 | 86  | 100 | 24  | 96  | 140 | 24  | 197 | 100 | 94  | 94  | 100 | 81  | 153 | 121 |
| 1996       | Wet             | 85                       | 85  | 179 | 85  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 477 | 100 | 100 | 100 | 100 | 100 | 100 | OTP | 100 |
| 1997       | Wet             | 270                      | 100 | 100 | 270 | 100 | 100 | 173 | 100 | 160 | 13  | 73  | 160 | 100 | 99  | 100 | 100 | 100 | 196 | 318 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 320                      | 100 | 453 | 320 | 15  | 35  | 15  | 30  | 147 | 217 | 163 | 100 | 71  | 71  | 71  | 71  | 100 | 100 | 100 | 100 | 100 | 100 | 447 | 100 |
| 1999       | Wet             | 100                      | 108 | 100 | 300 | 100 | 100 | 797 | 100 | 214 | 70  | 70  | 70  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |    |
| 1975       | Wet             | 100                    | 100 | 91  | 10  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 355 | 100 | 100 | 80  | 48  | 385 | 80  |    |
| 1976       | Critical        | 615                    | 717 | OTP | 592 | 25  | 14  | 65  | 27  | 622 | 773 | 463 | 624 | 17  | 17  | 76  | 17  | 252 | 727 | 100 | 183 | 100 | 13  | 159 | 106 |    |
| 1977       | Critical        | 100                    | 19  | 222 | 35  | 100 | 130 | 100 | 265 | 100 | 100 | 90  | 100 | 482 | 190 | 588 | 100 | 25  | 72  | 59  | 80  | 758 | 728 | 970 | 758 |    |
| 1978       | above Norm      | 100                    | 100 | 100 | 100 | 100 | 100 | 124 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 112 | 100 | 100 | 100 | 100 | 550 | 100 |    |
| 1979       | below Norm      | 83                     | 100 | 239 | 83  | 91  | 91  | 106 | 88  | 100 | 100 | 100 | 100 | 165 | 262 | 354 | 51  | 100 | 315 | 100 | 100 | 75  | 19  | 105 | 119 |    |
| 1980       | above Norm      | 100                    | 603 | OTP | 100 | 100 | 93  | 108 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 517 | 100 |    |
| 1981       | Dry             | 100                    | OTP | 377 | 100 | 100 | 56  | 165 | 100 | 100 | 100 | 100 | 100 | 36  | 36  | 267 | 140 | 51  | 51  | 339 | 51  | 162 | 191 | 22  | 96  |    |
| 1982       | Wet             | 100                    | 100 | 102 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 410 | 100 | 100 | 100 | 100 | 100 |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 112 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | Wet             | 100                    | 100 | 380 | 100 | 96  | 100 | 105 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 178 | 412 | OTP | 178 | 81  | 24  | 63  | 81  |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 151 | 100 | 100 | 100 | 109 | 100 | 100 | 550 | 100 | 100 | 100 | 327 | OTP | 100 | 100 | 15  | 15  | 100 |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 57  | 172 | 100 | 78  | 475 | 679 | 78  | 109 | 31  | 31  | 109 |    |
| 1987       | Dry             | OTP                    | 100 | OTP | 100 | 13  | 100 | 13  | 100 | 100 | 31  | 119 | 78  | 147 | 317 | 100 | 237 | 68  | 197 | 922 | 68  | 100 | 105 | 13  | 105 |    |
| 1988       | Critical        | 230                    | 537 | OTP | 520 | 240 | 240 | 100 | 100 | 132 | 91  | 198 | 100 | 100 | 638 | 460 | 100 | 100 | 100 | 100 | 585 | 180 | 131 | 145 | 130 |    |
| 1989       | Dry             | 98                     | 11  | 132 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 685 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 89  | 100 |    |
| 1990       | Critical        | 623                    | 623 | 307 | 623 | 61  | 61  | 324 | 61  | 100 | 100 | 136 | 100 | 215 | 100 | 417 | 100 | 100 | 100 | 100 | 215 | 84  | 118 | 168 | 84  |    |
| 1991       | Critical        | 55                     | 55  | 126 | 100 | 116 | 116 | 108 | 100 | 100 | 95  | 101 | 100 | 27  | 27  | 177 | 27  | 250 | 100 | 582 | 250 | 137 | 180 | 28  | 137 |    |
| 1992       | Critical        | 128                    | 128 | 207 | 128 | 100 | 100 | 103 | 100 | 100 | 100 | 62  | 100 | 172 | 189 | 338 | 227 | 100 | 320 | 690 | 100 | 62  | 16  | 16  | 62  |    |
| 1993       | above Norm      | 100                    | 100 | 100 | 100 | 100 | 102 | 130 | 104 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 582 | 100 |    |
| 1994       | Critical        | 373                    | 373 | OTP | OTP | 132 | 132 | 20  | 21  | 100 | 100 | 131 | 100 | 100 | 100 | 100 | 103 | 100 | 51  | 231 | 98  | 100 | 115 | 180 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 143 | 100 | 100 | 100 | 177 | 100 |    |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 92  | 92  | 100 | 91  | 100 | 100 | 100 | 100 | 100 | 123 | 173 | 100 | 100 | 377 | 100 | 100 | 100 | 36  | 255 | 100 |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 98  | 104 | 100 | 100 | 100 | 100 | 100 | 57  | 256 | 126 | 173 | 134 | 118 | 443 | 44  | 100 | 34  | 34  | 100 |    |
| 1998       | Wet             | 100                    | 58  | 58  | 100 | 56  | 56  | 123 | 58  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 32  | 100 | 179 | 32  | 118 | 100 | 100 | 118 |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-48 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Stanislaus: SF Stanislaus River  
 Location: Node 405-410  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | -  | 1  |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | -  | 1  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | 1  | 1  |
| 1978       | above Normal    | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1979       | below Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  |
| 1980       | above Normal    | -                        | -  | -  | -  | -   | 1  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  |
| 1982       | Wet             | 1                        | 1  | 1  | 1  | -   | 1  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  |
| 1988       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  |
| 1989       | Dry             | 1                        | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1990       | Critical        | -                        | 1  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  |
| 1991       | Critical        | -                        | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  |
| 1992       | Critical        | -                        | -  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1993       | above Normal    | -                        | 1  | -  | 1  | -   | -  | -  | -  | 1   | -  | -  | 1  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  |
| 1994       | Critical        | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  | -  | 1   | -  | -  | -  | 1   | -  | -  | -  | -   | -  | -  | -  |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1998       | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  | 1   | 1  | 1  | 1  |

Total Number of Events: 3 7 6 6 4 6 4 3 6 4 11 5 8 8 7 8 3 5 3 4 3 3 3 2

| Water Year | Water Year Type | Habitat Reduction Events |    |    |     |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|-----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |     | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST  | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | 1   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1976       | Critical        | -                        | -  | -  | OTP | 1   | 1  | 1  | 1  | -   | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | 1  | -  | -  |
| 1977       | Critical        | -                        | 1  | -  | 1   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | -  | -   | -  | -  | -  |
| 1978       | above Normal    | -                        | -  | -  | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1979       | below Normal    | -                        | -  | -  | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | -  | -  |
| 1980       | above Normal    | -                        | -  | -  | OTP | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1981       | Dry             | -                        | -  | -  | -   | -   | 1  | -  | -  | -   | -  | -  | -  | 1   | 1  | -  | -  | 1   | 1  | -  | 1  | -   | -  | 1  | -  |
| 1982       | Wet             | -                        | -  | -  | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1983       | Wet             | -                        | -  | -  | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1984       | Wet             | -                        | -  | -  | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  |
| 1985       | Dry             | -                        | -  | -  | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  |
| 1986       | Wet             | -                        | -  | -  | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  | -   | 1  | -  | -  | 1   | -  | 1  | -  |
| 1987       | Dry             | OTP                      | -  | -  | -   | 1   | -  | 1  | -  | -   | 1  | -  | 1  | -   | -  | -  | -  | 1   | -  | -  | 1  | -   | 1  | -  | -  |
| 1988       | Critical        | -                        | -  | -  | OTP | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1989       | Dry             | -                        | 1  | -  | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1990       | Critical        | -                        | -  | -  | -   | 1   | 1  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1991       | Critical        | 1                        | 1  | -  | -   | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | -  | 1  | -   | -  | -  | -  | -   | -  | 1  | -  |
| 1992       | Critical        | -                        | -  | -  | -   | -   | -  | -  | -  | -   | -  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | 1  | 1  |
| 1993       | above Normal    | -                        | -  | -  | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1994       | Critical        | -                        | -  | -  | OTP | OTP | -  | -  | 1  | 1   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  | -  | -   | -  | -  | -  |
| 1995       | Wet             | -                        | -  | -  | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1996       | Wet             | -                        | -  | -  | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  | -  |
| 1997       | Wet             | -                        | -  | -  | -   | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  | -  | -   | -  | -  | -  | 1   | 1  | -  | -  |
| 1998       | Wet             | -                        | 1  | 1  | -   | 1   | 1  | -  | 1  | -   | -  | -  | -  | 1   | -  | -  | -  | 1   | -  | -  | 1  | -   | 1  | -  | -  |
| 1999       | Wet             | -                        | -  | -  | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |

Total Number of Events: 1 4 1 2 4 4 3 4 - 1 1 2 4 4 1 3 5 3 1 5 2 9 8 1

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |        |        |        |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|--------|--------|--------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC     | WS     | ST     |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 13                             | 17 | 21 | 14 | Potent                  | Potent | Potent | Potent |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 14                             | 16 | 13 | 14 | Potent                  | Potent | Potent | Potent |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 8                              | 12 | 8  | 10 | Less                    | Potent | Less   | Potent |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 14                             | 24 | 17 | 17 | Potent                  | Potent | Potent | Potent |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 23                             | 38 | 25 | 26 | Potent                  | Potent | Potent | Potent |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 5                              | 8  | 4  | 6  | Potent                  | Potent | Less   | Potent |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 7                              | 13 | 10 | 9  | Potent                  | Potent | Potent | Potent |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-49 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Stanislaus: SF Stanislaus River  
 Location: Iode 410-999  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1976       | Critical        | 77                       | 18  | 83  | 77  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1977       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1978       | above Norm      | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1979       | below Norm      | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1980       | above Norm      | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96  | 107 | 100 | 100 | 100 | 100 | 54  | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1982       | Wet             | 100                      | 100 | 100 | 100 | 100 | 35  | 89  | 100 | 100 | 90  | 58  | 100 | 100 | 100 | 58  | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 100 |     |
| 1983       | Wet             | 100                      | 98  | 98  | 100 | 100 | 100 | 38  | 100 | 100 | 100 | 28  | 100 | 100 | 100 | 65  | 100 | 100 | 100 | 30  | 100 | 100 | 73  | 100 |     |
| 1984       | Wet             | 100                      | 100 | 82  | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 55  | 100 | 100 | 100 | 65  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1985       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1986       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 67  | 73  | 139 | 56  | 82  | 79  | 95  | 85  |
| 1987       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1988       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1989       | Dry             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1990       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1991       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1992       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1993       | above Norm      | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1995       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 86  | 114 | 100 |
| 1996       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 635 | 64  | 64  | 245 | 103 |     |
| 1997       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 187 | 66  | 65  | 187 | 100 | 100 | 99  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1998       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 82  | 82  | 14  | 92  |
| 1999       | Wet             | 100                      | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1976       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1977       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1978       | above Norm      | 100                    | 100 | 100 | 100 | 100 | 100 | 117 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 92  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1979       | below Norm      | 100                    | 100 | 100 | 100 | 92  | 92  | 104 | 92  | 100 | 100 | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1980       | above Norm      | 100                    | 100 | 100 | 100 | 100 | 100 | 111 | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 94  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 176 | 100 | 100 | 100 | 60  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1982       | Wet             | 100                    | 100 | 88  | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 88  | 100 | 100 | 100 | 100 | 100 | 100 | 49  | 100 |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 106 | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 78  | 100 | 100 | 66  | 100 |    |
| 1984       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1985       | Dry             | 100                    | 100 | 100 | 100 | 88  | 88  | 129 | 88  | 100 | 100 | 31  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1986       | Wet             | 100                    | 100 | 91  | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1987       | Dry             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1988       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1989       | Dry             | 100                    | 100 | OTP | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 85  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1990       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 92  | 87  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1991       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1992       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 530 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1993       | above Norm      | 100                    | 100 | 100 | 100 | 94  | 93  | 108 | 94  | 100 | 100 | 98  | 100 | 100 | 100 | 86  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1995       | Wet             | 100                    | 100 | 82  | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 99  | 100 | 100 | 100 | 97  | 100 | 100 | 100 | 30  | 100 | 100 | 100 | 100 |    |
| 1996       | Wet             | 100                    | 100 | 50  | 100 | 94  | 94  | 99  | 94  | 100 | 100 | 97  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1997       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 101 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 66  | 64  | 109 | 68  | 100 | 100 | 99  | 100 | 100 | 100 | 98  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Motherlode: Appendix Table-50 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Stanislaus: SF Stanislaus River  
 Location: Node 410-999  
 Watershed: Sacramento

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | 1                        | 1  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | below Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | 1  | -  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | 1  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | -  | -  | 1  | -   | 1  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | 1  | 1   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

**Total Number of Events:** 1 1 - 1 - 1 1 - - 1 4 - - - 3 - 1 1 2 1 1 2 2 -

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1977       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1978       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1979       | below Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1980       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1981       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | -  |    |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  |    |
| 1984       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1985       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1986       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1987       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1988       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1989       | Dry             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1990       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1991       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1992       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1993       | above Normal    | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1994       | Critical        | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1996       | Wet             | -                        | -  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1997       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1998       | Wet             | -                        | -  | -  | -  | 1   | 1  | -  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |

**Total Number of Events:** - - 1 - 1 1 - 1 - - 2 - - - 1 - - - 2 - - - 3 -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |      |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|------|------|------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC   | WS   | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 1                              | 3  | 5  | 1  | Less                    | Less | Less | Less |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 2                              | 3  | 7  | 1  | Less                    | Less | Less | Less |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 2                              | 3  | 5  | 1  | Less                    | Less | Less | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 1                              | 1  | 8  | 1  | Less                    | Less | Less | Less |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 2                              | 3  | 10 | 2  | Less                    | Less | Less | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 1                              | 1  | 1  | 1  | Less                    | Less | Less | Less |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 1                              | 2  | 1  | 1  | Less                    | Less | Less | Less |

**Footnotes:** ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Motherlode: Appendix Table-51 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: Bear River: Upper Bear Reservoir  
 Location: Node 309  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A<br>Thousands of Acre-feet |      |      |      |      | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |    |
|------------|-----------------|--------------------------------------------------------------|------|------|------|------|------------------------|--------|--------|--------|-------------------------|-----|-----|----|
|            |                 | BL2000                                                       | NP   | PM   | WM   | ST   | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST |
| 1975       | Wet             | 23.3                                                         | 24   | 24.7 | 25.4 | 24   | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No |
| 1976       | Critical        | 21.3                                                         | 21.3 | 21.3 | 21.3 | 21.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No |
| 1977       | Critical        | 20.6                                                         | 20.6 | 20.6 | 20.6 | 20.6 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No |
| 1978       | bove Norm       | 25.2                                                         | 25.5 | 25   | 27.1 | 25.5 | >100%                  | 99.2%  | >100%  | >100%  | No                      | LTS | No  | No |
| 1979       | elow Norm       | 22.4                                                         | 22.4 | 22.6 | 22.4 | 22.4 | 100.0%                 | >100%  | 100.0% | 100.0% | No                      | No  | No  | No |
| 1980       | bove Norm       | 27.5                                                         | 27.5 | 28.6 | 28   | 27.5 | 100.0%                 | >100%  | >100%  | 100.0% | No                      | No  | No  | No |
| 1981       | Dry             | 21.3                                                         | 21.3 | 21.3 | 21.3 | 21.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No |
| 1982       | Wet             | 26.2                                                         | 26.2 | 26.5 | 25.5 | 26.2 | 100.0%                 | >100%  | 97.3%  | 100.0% | No                      | No  | LTS | No |
| 1983       | Wet             | 28.4                                                         | 28.4 | 28.4 | 27   | 28.4 | 100.0%                 | 100.0% | 95.1%  | 100.0% | No                      | No  | LTS | No |
| 1984       | Wet             | 22.4                                                         | 22.4 | 25.3 | 22.4 | 22.4 | 100.0%                 | >100%  | 100.0% | 100.0% | No                      | No  | No  | No |
| 1985       | Dry             | 21.1                                                         | 21.1 | 22.8 | 21.1 | 21.1 | 100.0%                 | >100%  | 100.0% | 100.0% | No                      | No  | No  | No |
| 1986       | Wet             | 23                                                           | 23   | 24.5 | 23   | 23   | 100.0%                 | >100%  | 100.0% | 100.0% | No                      | No  | No  | No |
| 1987       | Dry             | 21.1                                                         | 21.1 | 21.1 | 21.1 | 21.1 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No |
| 1988       | Critical        | 20.6                                                         | 20.6 | 20.6 | 20.6 | 20.6 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No |
| 1989       | Dry             | 22.4                                                         | 22.4 | 23.3 | 22.4 | 22.4 | 100.0%                 | >100%  | 100.0% | 100.0% | No                      | No  | No  | No |
| 1990       | Critical        | 21                                                           | 21   | 23.2 | 21   | 21   | 100.0%                 | >100%  | 100.0% | 100.0% | No                      | No  | No  | No |
| 1991       | Critical        | 22.7                                                         | 22.7 | 22.7 | 22.7 | 22.7 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No |
| 1992       | Critical        | 20.6                                                         | 20.6 | 20.6 | 20.6 | 20.6 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No |
| 1993       | bove Norm       | 27.8                                                         | 27.8 | 25.8 | 27.9 | 27.8 | 100.0%                 | 92.8%  | >100%  | 100.0% | No                      | LTS | No  | No |
| 1994       | Critical        | 21.1                                                         | 21.1 | 21.1 | 21.1 | 21.1 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No |
| 1995       | Wet             | 28.5                                                         | 29.4 | 29.6 | 29.3 | 29.4 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No |
| 1996       | Wet             | 22.4                                                         | 22.4 | 24.1 | 22.4 | 22.4 | 100.0%                 | >100%  | 100.0% | 100.0% | No                      | No  | No  | No |
| 1997       | Wet             | 22.4                                                         | 22.4 | 24   | 22.4 | 22.4 | 100.0%                 | >100%  | 100.0% | 100.0% | No                      | No  | No  | No |
| 1998       | Wet             | 26.4                                                         | 27.7 | 28.9 | 27.2 | 27.7 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Motherlode: Appendix Table-52 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: Bear River: Upper Bear Reservoir  
 Location: Node 309  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1976       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1977       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1978       | bove Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1979       | elow Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1980       | bove Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1981       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1982       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1983       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1984       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1985       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1986       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1987       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1988       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1989       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1990       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1991       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1992       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1993       | bove Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1994       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1995       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1996       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1997       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1998       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |

**Footnote:**

- A BL2000 = Baseline 2000
- NP = No Project
- PM = PowerMax
- WM =WaterMax
- ST =PG&E Co.'s proposed Settlement Agreement
- ND =No Data

Motherlode: Appendix Table-53 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: Bear River: Lower Bear Reservoir  
 Location: Node 310  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A |       |       |       |       | Percentage of Baseline |        |       |        | Significance Evaluation |     |    |     |
|------------|-----------------|------------------------------------|-------|-------|-------|-------|------------------------|--------|-------|--------|-------------------------|-----|----|-----|
|            |                 | BL2000                             | NP    | PM    | WM    | ST    | NP                     | PM     | WM    | ST     | NP                      | PM  | WM | ST  |
| 1975       | Wet             | 250                                | 250   | 250   | 263   | 250   | 100.0%                 | 100.0% | >100% | 100.0% | No                      | No  | No | No  |
| 1976       | Critical        | 108.2                              | 106.3 | 106.3 | 149.9 | 108.8 | 98.2%                  | 98.2%  | >100% | >100%  | LTS                     | LTS | No | No  |
| 1977       | Critical        | 103.8                              | 88.3  | 88.3  | 111.3 | 96.6  | 85.1%                  | 85.1%  | >100% | 93.1%  | LTS                     | LTS | No | LTS |
| 1978       | bove Norm       | 253                                | 253   | 253   | 263   | 253   | 100.0%                 | 100.0% | >100% | 100.0% | No                      | No  | No | No  |
| 1979       | elow Norm       | 238.6                              | 253   | 253   | 238.7 | 238.7 | >100%                  | >100%  | >100% | >100%  | No                      | No  | No | No  |
| 1980       | bove Norm       | 246                                | 246   | 246   | 259.8 | 246   | 100.0%                 | 100.0% | >100% | 100.0% | No                      | No  | No | No  |
| 1981       | Dry             | 164.1                              | 235.8 | 235.8 | 208.4 | 172.6 | >100%                  | >100%  | >100% | >100%  | No                      | No  | No | No  |
| 1982       | Wet             | 253                                | 253   | 253   | 263   | 253   | 100.0%                 | 100.0% | >100% | 100.0% | No                      | No  | No | No  |
| 1983       | Wet             | 253                                | 253   | 253   | 263   | 253   | 100.0%                 | 100.0% | >100% | 100.0% | No                      | No  | No | No  |
| 1984       | Wet             | 244.4                              | 246   | 246   | 248.8 | 244.4 | >100%                  | >100%  | >100% | 100.0% | No                      | No  | No | No  |
| 1985       | Dry             | 173.9                              | 244.4 | 244.4 | 188.4 | 167.6 | >100%                  | >100%  | >100% | 96.4%  | No                      | No  | No | LTS |
| 1986       | Wet             | 244.1                              | 246   | 246   | 246.2 | 244.1 | >100%                  | >100%  | >100% | 100.0% | No                      | No  | No | No  |
| 1987       | Dry             | 114.7                              | 110   | 110   | 152.4 | 122.9 | 95.9%                  | 95.9%  | >100% | >100%  | LTS                     | LTS | No | No  |
| 1988       | Critical        | 117                                | 111.9 | 111.9 | 156.6 | 113.3 | 95.6%                  | 95.6%  | >100% | 96.8%  | LTS                     | LTS | No | LTS |
| 1989       | Dry             | 220                                | 246   | 246   | 231.7 | 217.7 | >100%                  | >100%  | >100% | 99.0%  | No                      | No  | No | LTS |
| 1990       | Critical        | 163.7                              | 213.7 | 213.7 | 179.1 | 152.5 | >100%                  | >100%  | >100% | 93.2%  | No                      | No  | No | LTS |
| 1991       | Critical        | 122.6                              | 126.2 | 126.2 | 165.6 | 124.5 | >100%                  | >100%  | >100% | >100%  | No                      | No  | No | No  |
| 1992       | Critical        | 116.9                              | 121.6 | 121.6 | 155.9 | 118.2 | >100%                  | >100%  | >100% | >100%  | No                      | No  | No | No  |
| 1993       | bove Norm       | 253                                | 253   | 253   | 263   | 253   | 100.0%                 | 100.0% | >100% | 100.0% | No                      | No  | No | No  |
| 1994       | Critical        | 121.9                              | 119.7 | 119.7 | 172.4 | 128.3 | 98.2%                  | 98.2%  | >100% | >100%  | LTS                     | LTS | No | No  |
| 1995       | Wet             | 253                                | 253   | 253   | 263   | 253   | 100.0%                 | 100.0% | >100% | 100.0% | No                      | No  | No | No  |
| 1996       | Wet             | 254.1                              | 252.4 | 252.4 | 259.9 | 253.7 | 99.3%                  | 99.3%  | >100% | 99.8%  | LTS                     | LTS | No | LTS |
| 1997       | Wet             | 227.6                              | 249.8 | 249.8 | 230.8 | 227.6 | >100%                  | >100%  | >100% | 100.0% | No                      | No  | No | No  |
| 1998       | Wet             | 246                                | 246   | 246   | 258.9 | 246   | 100.0%                 | 100.0% | >100% | 100.0% | No                      | No  | No | No  |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Motherlode: Appendix Table-54 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: Bear River: Lower Bear Reservoir  
 Location: Node 310  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1976       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1977       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1978       | bove Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1979       | elow Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1980       | bove Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1981       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1982       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1983       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1984       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1985       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1986       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1987       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1988       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1989       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1990       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1991       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1992       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1993       | bove Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1994       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1995       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1996       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1997       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1998       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |

**Footnote:**

- A BL2000 = Baseline 2000
- NP = No Project
- PM = PowerMax
- WM =WaterMax
- ST =PG&E Co.'s proposed Settlement Agreement
- ND =No Data



Motherlode: Appendix Table-55 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: NF Mokelumne: Twin and Meadows Lakes  
 Location: Node 304  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Type | Cumulative Storage (May-October) <sup>A</sup> |      |      |      |      | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|------------|-----------------------------------------------|------|------|------|------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |            | BL2000                                        | NP   | PM   | WM   | ST   | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST  |
| 1975       | Wet        | 29.7                                          | 29.7 | 29.7 | 29.7 | 29.7 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1976       | Critical   | 17.1                                          | 17.1 | 17.1 | 17.1 | 17.1 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1977       | Critical   | 16.7                                          | 16.7 | 16.7 | 16.7 | 16.7 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1978       | bove Norm  | 29.7                                          | 29.7 | 29.7 | 29.7 | 29.7 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1979       | ielow Norm | 21.3                                          | 21.3 | 29.1 | 21.3 | 21.3 | 100.0%                 | 0.0%   | 100.0% | 100.0% | No                      | SIG | No  | No  |
| 1980       | bove Norm  | 29.7                                          | 29.7 | 29.7 | 29.7 | 29.7 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1981       | Dry        | 19.7                                          | 19.7 | 25.7 | 19.7 | 19.7 | 100.0%                 | 0.0%   | 100.0% | 100.0% | No                      | SIG | No  | No  |
| 1982       | Wet        | 29.7                                          | 29.7 | 29.7 | 29.7 | 29.7 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1983       | Wet        | 29.8                                          | 29.8 | 29.8 | 29.8 | 29.8 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1984       | Wet        | 21.7                                          | 23.7 | 29.2 | 21.7 | 21.7 | 0.0%                   | 0.0%   | 100.0% | 100.0% | SIG                     | SIG | No  | No  |
| 1985       | Dry        | 19.5                                          | 19.5 | 25.3 | 19.5 | 19.5 | 100.0%                 | 0.0%   | 100.0% | 100.0% | No                      | SIG | No  | No  |
| 1986       | Wet        | 23.8                                          | 23.8 | 29.1 | 22.4 | 23.8 | 100.0%                 | 0.0%   | 94.1%  | 100.0% | No                      | SIG | LTS | No  |
| 1987       | Dry        | 17.2                                          | 17.2 | 17.2 | 17.2 | 17.2 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1988       | Critical   | 17.5                                          | 17.5 | 17.5 | 17.5 | 17.5 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1989       | Dry        | 20.3                                          | 21.4 | 27.9 | 20.3 | 20.3 | 0.0%                   | 0.0%   | 100.0% | 100.0% | SIG                     | SIG | No  | No  |
| 1990       | Critical   | 18.6                                          | 18.6 | 23.3 | 18.6 | 18.6 | 100.0%                 | 0.0%   | 100.0% | 100.0% | No                      | SIG | No  | No  |
| 1991       | Critical   | 17.7                                          | 17.7 | 17.7 | 17.7 | 17.7 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1992       | Critical   | 16.8                                          | 16.8 | 16.8 | 16.8 | 16.8 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1993       | bove Norm  | 29.7                                          | 29.7 | 29.7 | 29.7 | 29.7 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1994       | Critical   | 17.6                                          | 17.6 | 17.6 | 18.5 | 17.6 | 100.0%                 | 100.0% | 0.0%   | 100.0% | No                      | No  | SIG | No  |
| 1995       | Wet        | 29.8                                          | 29.8 | 29.8 | 29.8 | 29.8 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1996       | Wet        | 27.4                                          | 27.2 | 29.2 | 25.7 | 27.2 | 99.3%                  | 0.0%   | 93.8%  | 99.3%  | LTS                     | SIG | LTS | LTS |
| 1997       | Wet        | 20.8                                          | 20.8 | 28.6 | 20.8 | 20.8 | 100.0%                 | 0.0%   | 100.0% | 100.0% | No                      | SIG | No  | No  |
| 1998       | Wet        | 29.8                                          | 29.8 | 29.8 | 29.8 | 29.8 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |

**Footnote:**

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Motherlode: Appendix Table-56 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: NF Mokelumne: Twin and Meadows Lakes  
 Location: Node 304  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1976       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1977       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1978       | bove Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1979       | elow Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1980       | bove Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1981       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1982       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1983       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1984       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1985       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1986       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1987       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1988       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1989       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1990       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1991       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1992       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1993       | bove Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1994       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1995       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1996       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1997       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1998       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

Motherlode: Appendix Table-57 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: NF Mokelumne: Blue Lakes  
 Location: Node 303  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Type | Cumulative Storage (May-October) A |      |      |      |      | Percentage of Baseline |        |        |        | Significance Evaluation |    |     |     |
|------------|------------|------------------------------------|------|------|------|------|------------------------|--------|--------|--------|-------------------------|----|-----|-----|
|            |            | Thousands of Acre-feet             |      |      |      |      | NP                     | PM     | WM     | ST     | NP                      | PM | WM  | ST  |
|            |            | BL2000                             | NP   | PM   | WM   | ST   |                        |        |        |        |                         |    |     |     |
| 1975       | Wet        | 45.8                               | 45.8 | 45.8 | 45.8 | 45.8 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No | No  | No  |
| 1976       | Critical   | 18.8                               | 18.8 | 18.8 | 18.8 | 18.8 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No | No  | No  |
| 1977       | Critical   | 19.1                               | 19.1 | 19.1 | 19.1 | 19.1 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No | No  | No  |
| 1978       | bove Norm  | 46                                 | 46   | 46   | 46   | 46   | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No | No  | No  |
| 1979       | elow Norm  | 32.5                               | 32.4 | 40.7 | 32.4 | 32.4 | 99.7%                  | >100%  | 99.7%  | 99.7%  | LTS                     | No | LTS | LTS |
| 1980       | bove Norm  | 45.1                               | 45.1 | 45.1 | 45.1 | 45.1 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No | No  | No  |
| 1981       | Dry        | 26.4                               | 26.4 | 30.2 | 26.4 | 26.4 | 100.0%                 | >100%  | 100.0% | 100.0% | No                      | No | No  | No  |
| 1982       | Wet        | 50.1                               | 50.1 | 50.1 | 50.1 | 50.1 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No | No  | No  |
| 1983       | Wet        | 51.2                               | 51.2 | 51.2 | 51.2 | 51.2 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No | No  | No  |
| 1984       | Wet        | 35.1                               | 33.1 | 40.3 | 33.6 | 35.1 | 94.3%                  | >100%  | 95.7%  | 100.0% | LTS                     | No | LTS | No  |
| 1985       | Dry        | 26.8                               | 26.8 | 31.9 | 26.8 | 26.8 | 100.0%                 | >100%  | 100.0% | 100.0% | No                      | No | No  | No  |
| 1986       | Wet        | 41.2                               | 41.2 | 47.8 | 40.5 | 41.2 | 100.0%                 | >100%  | 98.3%  | 100.0% | No                      | No | LTS | No  |
| 1987       | Dry        | 19.4                               | 19.4 | 19.4 | 19.4 | 19.4 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No | No  | No  |
| 1988       | Critical   | 20.9                               | 20.9 | 20.9 | 20.9 | 20.9 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No | No  | No  |
| 1989       | Dry        | 29.8                               | 29.8 | 39   | 30.9 | 30.9 | 100.0%                 | >100%  | >100%  | >100%  | No                      | No | No  | No  |
| 1990       | Critical   | 27                                 | 27   | 32.8 | 27   | 27   | 100.0%                 | >100%  | 100.0% | 100.0% | No                      | No | No  | No  |
| 1991       | Critical   | 23.9                               | 23.9 | 23.9 | 23.9 | 23.9 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No | No  | No  |
| 1992       | Critical   | 19.4                               | 19.4 | 19.4 | 19.4 | 19.4 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No | No  | No  |
| 1993       | bove Norm  | 50                                 | 50   | 50   | 49.7 | 50   | 100.0%                 | 100.0% | 99.4%  | 100.0% | No                      | No | LTS | No  |
| 1994       | Critical   | 21.9                               | 23.9 | 25.4 | 25.5 | 23.9 | >100%                  | >100%  | >100%  | >100%  | No                      | No | No  | No  |
| 1995       | Wet        | 52.2                               | 52.2 | 52.2 | 50.9 | 52.2 | 100.0%                 | 100.0% | 97.5%  | 100.0% | No                      | No | LTS | No  |
| 1996       | Wet        | 45.9                               | 45.9 | 47.4 | 43.8 | 45.9 | 100.0%                 | >100%  | 95.4%  | 100.0% | No                      | No | LTS | No  |
| 1997       | Wet        | 33.2                               | 33.2 | 42   | 33.2 | 33.2 | 100.0%                 | >100%  | 100.0% | 100.0% | No                      | No | No  | No  |
| 1998       | Wet        | 47.8                               | 47.8 | 47.8 | 47.8 | 47.8 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No | No  | No  |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Motherlode: Appendix Table-58 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: NF Mokelumne: Blue Lakes  
 Location: Node 303  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1976       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1977       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1978       | bove Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1979       | elow Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1980       | bove Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1981       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1982       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1983       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1984       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1985       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1986       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1987       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1988       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1989       | Dry        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1990       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1991       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1992       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1993       | bove Norm  | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1994       | Critical   | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1995       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1996       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1997       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |
| 1998       | Wet        | ND                                                       | ND   | ND  | ND   | ND  | ND   | ND  | ND   | ND  | ND   |

**Footnote:**

- A BL2000 = Baseline 2000
- NP = No Project
- PM = PowerMax
- WM =WaterMax
- ST =PG&E Co.'s proposed Settlement Agreement
- ND =No Data

Motherlode: Appendix Table-59 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: NF Mokelumne: Salt Springs Reservoir  
 Location: Node 306  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A |       |       |       |       | Percentage of Baseline |       |        |        | Significance Evaluation |     |     |     |
|------------|-----------------|------------------------------------|-------|-------|-------|-------|------------------------|-------|--------|--------|-------------------------|-----|-----|-----|
|            |                 | Thousands of Acre-feet             |       |       |       |       | NP                     | PM    | WM     | ST     | NP                      | PM  | WM  | ST  |
|            |                 | BL2000                             | NP    | PM    | WM    | ST    |                        |       |        |        |                         |     |     |     |
| 1975       | Wet             | 721.7                              | 719.2 | 646.9 | 721.1 | 719.2 | 99.7%                  | 89.6% | 99.9%  | 99.7%  | LTS                     | LTS | LTS | LTS |
| 1976       | Critical        | 310.6                              | 337.1 | 285.5 | 322.3 | 337.1 | >100%                  | 91.9% | >100%  | >100%  | No                      | LTS | No  | No  |
| 1977       | Critical        | 107.3                              | 162.6 | 166.2 | 149.8 | 162.6 | >100%                  | >100% | >100%  | >100%  | No                      | No  | No  | No  |
| 1978       | bove Norm       | 735.1                              | 740.5 | 714.5 | 772   | 740.5 | >100%                  | 97.2% | >100%  | >100%  | No                      | LTS | No  | No  |
| 1979       | elow Norm       | 708.8                              | 708.8 | 615.8 | 708.8 | 708.8 | 100.0%                 | 86.9% | 100.0% | 100.0% | No                      | LTS | No  | No  |
| 1980       | bove Norm       | 725.5                              | 728.2 | 715.9 | 759.7 | 728.2 | >100%                  | 98.7% | >100%  | >100%  | No                      | LTS | No  | No  |
| 1981       | Dry             | 662.2                              | 663.9 | 477.4 | 644.4 | 663.9 | >100%                  | 72.1% | 97.3%  | >100%  | No                      | SIG | LTS | No  |
| 1982       | Wet             | 746.7                              | 746.7 | 688.7 | 746.7 | 746.7 | 100.0%                 | 92.2% | 100.0% | 100.0% | No                      | LTS | No  | No  |
| 1983       | Wet             | 743                                | 743   | 711.2 | 741.7 | 743   | 100.0%                 | 95.7% | 99.8%  | 100.0% | No                      | LTS | LTS | No  |
| 1984       | Wet             | 708.8                              | 708.8 | 606.6 | 706.2 | 708.8 | 100.0%                 | 85.6% | 99.6%  | 100.0% | No                      | LTS | LTS | No  |
| 1985       | Dry             | 658.4                              | 664.9 | 528.8 | 679   | 664.9 | >100%                  | 80.3% | >100%  | >100%  | No                      | LTS | No  | No  |
| 1986       | Wet             | 708.8                              | 708.8 | 636   | 708.8 | 708.8 | 100.0%                 | 89.7% | 100.0% | 100.0% | No                      | LTS | No  | No  |
| 1987       | Dry             | 346.5                              | 338.6 | 338.5 | 313.7 | 338.6 | 97.7%                  | 97.7% | 90.5%  | 97.7%  | LTS                     | LTS | LTS | LTS |
| 1988       | Critical        | 326.7                              | 334.9 | 336.3 | 293.4 | 334.9 | >100%                  | >100% | 89.8%  | >100%  | No                      | No  | LTS | No  |
| 1989       | Dry             | 700.9                              | 702.1 | 581.3 | 701.8 | 702.1 | >100%                  | 82.9% | >100%  | >100%  | No                      | LTS | No  | No  |
| 1990       | Critical        | 651.5                              | 677.4 | 561.4 | 681.1 | 677.4 | >100%                  | 86.2% | >100%  | >100%  | No                      | LTS | No  | No  |
| 1991       | Critical        | 349.5                              | 347.6 | 346   | 306.6 | 347.6 | 99.5%                  | 99.0% | 87.7%  | 99.5%  | LTS                     | LTS | LTS | LTS |
| 1992       | Critical        | 332                                | 346.6 | 343.2 | 310.6 | 346.6 | >100%                  | >100% | 93.6%  | >100%  | No                      | No  | LTS | No  |
| 1993       | bove Norm       | 734.9                              | 732.4 | 710.2 | 749.5 | 732.4 | 99.7%                  | 96.6% | >100%  | 99.7%  | LTS                     | LTS | No  | LTS |
| 1994       | Critical        | 337.9                              | 352   | 350.8 | 327.3 | 352   | >100%                  | >100% | 96.9%  | >100%  | No                      | No  | LTS | No  |
| 1995       | Wet             | 743.3                              | 740.5 | 716.8 | 769.7 | 740.5 | 99.6%                  | 96.4% | >100%  | 99.6%  | LTS                     | LTS | No  | LTS |
| 1996       | Wet             | 710.6                              | 710.2 | 582.6 | 710.7 | 710.2 | 99.9%                  | 82.0% | >100%  | 99.9%  | LTS                     | LTS | No  | LTS |
| 1997       | Wet             | 708.8                              | 708.8 | 604.6 | 708.8 | 708.8 | 100.0%                 | 85.3% | 100.0% | 100.0% | No                      | LTS | No  | No  |
| 1998       | Wet             | 723.9                              | 721.1 | 675.9 | 733.8 | 721.1 | 99.6%                  | 93.4% | >100%  | 99.6%  | LTS                     | LTS | No  | LTS |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Motherlode: Appendix Table-60 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: NF Mokelumne: Salt Springs Reservoir  
 Location: Node 306  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 93                                                       | 9    | 93  | 9    | 93  | 9    | 94  | 12   | 93  | 9    |
| 1976       | Critical   | 49                                                       | -16  | 46  | -19  | 51  | -17  | 41  | -53  | 46  | -19  |
| 1977       | Critical   | 19                                                       | 36   | 19  | 36   | 19  | 36   | 19  | 36   | 19  | 36   |
| 1978       | bove Norm  | 91                                                       | 0    | 91  | 0    | 91  | 0    | 92  | 0    | 91  | 0    |
| 1979       | elow Norm  | 91                                                       | 0    | 91  | 0    | 91  | 0    | 72  | 0    | 91  | 0    |
| 1980       | bove Norm  | 76                                                       | 8    | 76  | 8    | 76  | 8    | 72  | -2   | 76  | 8    |
| 1981       | Dry        | 59                                                       | 7    | 68  | 7    | 72  | -7   | 47  | 9    | 68  | 7    |
| 1982       | Wet        | 72                                                       | 0    | 72  | 0    | 72  | 0    | 59  | 0    | 72  | 0    |
| 1983       | Wet        | 108                                                      | -4   | 111 | -4   | 121 | -4   | 94  | -4   | 111 | -4   |
| 1984       | Wet        | 86                                                       | 0    | 86  | 0    | 86  | 0    | 72  | 0    | 86  | 0    |
| 1985       | Dry        | 50                                                       | 5    | 50  | 5    | 55  | 4    | 42  | 10   | 50  | 5    |
| 1986       | Wet        | 72                                                       | 0    | 72  | 0    | 72  | 0    | 59  | 0    | 72  | 0    |
| 1987       | Dry        | 48                                                       | -46  | 42  | -42  | 43  | -30  | 40  | -53  | 42  | -42  |
| 1988       | Critical   | 46                                                       | -32  | 46  | -32  | 46  | -28  | 43  | -35  | 46  | -32  |
| 1989       | Dry        | 43                                                       | 7    | 43  | 7    | 43  | 3    | 42  | 0    | 43  | 7    |
| 1990       | Critical   | 41                                                       | 7    | 41  | 7    | 41  | 7    | 41  | 9    | 41  | 7    |
| 1991       | Critical   | 99                                                       | -63  | 93  | -52  | 93  | -49  | 93  | -68  | 93  | -52  |
| 1992       | Critical   | 27                                                       | -40  | 25  | -38  | 23  | -33  | 25  | -43  | 25  | -38  |
| 1993       | bove Norm  | 86                                                       | 0    | 86  | 0    | 86  | 0    | 72  | 0    | 86  | 0    |
| 1994       | Critical   | 59                                                       | -63  | 52  | -59  | 53  | -50  | 46  | -91  | 52  | -59  |
| 1995       | Wet        | 85                                                       | -4   | 85  | -4   | 85  | -4   | 72  | -4   | 85  | -4   |
| 1996       | Wet        | 74                                                       | 0    | 74  | 0    | 74  | 0    | 64  | 0    | 74  | 0    |
| 1997       | Wet        | 72                                                       | 0    | 72  | 0    | 72  | 0    | 68  | 0    | 72  | 0    |
| 1998       | Wet        | 59                                                       | 9    | 69  | 9    | 69  | 9    | 59  | 9    | 69  | 9    |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

Motherlode: Appendix Table-61 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: MF Stanislaus River: Relief Reservoir  
 Location: Node 430  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A |      |      |      |      | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|-----------------|------------------------------------|------|------|------|------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |                 | Thousands of Acre-feet             |      |      |      |      | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST  |
|            |                 | BL2000                             | NP   | PM   | WM   | ST   |                        |        |        |        |                         |     |     |     |
| 1975       | Wet             | 71.6                               | 62.8 | 62.8 | 62.8 | 62.8 | 87.7%                  | 87.7%  | 87.7%  | 87.7%  | LTS                     | LTS | LTS | LTS |
| 1976       | Critical        | 45.1                               | 45.5 | 45.5 | 45.5 | 45.5 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1977       | Critical        | 32                                 | 32   | 32   | 32   | 32   | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1978       | bove Norm       | 76.4                               | 76.4 | 76.4 | 76.4 | 76.4 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1979       | elow Norm       | 58.6                               | 58.6 | 59.2 | 58.6 | 58.6 | 100.0%                 | >100%  | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1980       | bove Norm       | 76.4                               | 76.4 | 76.4 | 76.4 | 76.4 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1981       | Dry             | 54.9                               | 57   | 57   | 57   | 57   | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1982       | Wet             | 76.4                               | 76.4 | 76.4 | 76.4 | 76.4 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1983       | Wet             | 73.3                               | 73.3 | 73.3 | 73.3 | 73.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1984       | Wet             | 76.4                               | 75.7 | 75.7 | 75.7 | 75.7 | 99.1%                  | 99.1%  | 99.1%  | 99.1%  | LTS                     | LTS | LTS | LTS |
| 1985       | Dry             | 56.3                               | 53.8 | 53.8 | 53.8 | 53.8 | 95.6%                  | 95.6%  | 95.6%  | 95.6%  | LTS                     | LTS | LTS | LTS |
| 1986       | Wet             | 75.2                               | 74.1 | 74.1 | 74.5 | 74.1 | 98.5%                  | 98.5%  | 99.1%  | 98.5%  | LTS                     | LTS | LTS | LTS |
| 1987       | Dry             | 47.2                               | 46.6 | 46.6 | 47.2 | 46.6 | 98.7%                  | 98.7%  | 100.0% | 98.7%  | LTS                     | LTS | No  | LTS |
| 1988       | Critical        | 41.3                               | 41.3 | 41.3 | 41.3 | 41.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1989       | Dry             | 51.8                               | 51.8 | 51.8 | 51.8 | 51.8 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1990       | Critical        | 52.5                               | 49.8 | 49.8 | 49.8 | 49.8 | 94.9%                  | 94.9%  | 94.9%  | 94.9%  | LTS                     | LTS | LTS | LTS |
| 1991       | Critical        | 57.5                               | 61.3 | 61.3 | 61.3 | 61.3 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1992       | Critical        | 47.5                               | 47.5 | 47.5 | 47.5 | 47.5 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1993       | bove Norm       | 76.4                               | 71.1 | 72.8 | 71.1 | 71.1 | 93.1%                  | 95.3%  | 93.1%  | 93.1%  | LTS                     | LTS | LTS | LTS |
| 1994       | Critical        | 48.9                               | 50.6 | 50.6 | 50.6 | 48.9 | >100%                  | >100%  | >100%  | 100.0% | No                      | No  | No  | No  |
| 1995       | Wet             | 73.3                               | 73.3 | 73.3 | 73.3 | 73.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1996       | Wet             | 67.8                               | 63.3 | 63.3 | 63.3 | 63.3 | 93.4%                  | 93.4%  | 93.4%  | 93.4%  | LTS                     | LTS | LTS | LTS |
| 1997       | Wet             | 70.7                               | 60.2 | 60.2 | 61.1 | 60.2 | 85.1%                  | 85.1%  | 86.4%  | 85.1%  | LTS                     | LTS | LTS | LTS |
| 1998       | Wet             | 75.2                               | 75.2 | 75.2 | 75.2 | 75.2 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Motherlode: Appendix Table-62 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: MF Stanislaus River: Relief Reservoir  
 Location: Node 430  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 39                                                       | 20   | 39  | 20   | 39  | 20   | 39  | 20   | 39  | 20   |
| 1976       | Critical   | 32                                                       | 6    | 32  | 6    | 32  | 6    | 32  | 6    | 32  | 6    |
| 1977       | Critical   | 11                                                       | 15   | 11  | 15   | 11  | 15   | 11  | 15   | 11  | 15   |
| 1978       | bove Norm  | 32                                                       | 20   | 32  | 20   | 32  | 20   | 34  | 20   | 35  | 20   |
| 1979       | elow Norm  | 32                                                       | 20   | 32  | 20   | 32  | 20   | 32  | 20   | 32  | 20   |
| 1980       | bove Norm  | 18                                                       | 20   | 18  | 20   | 18  | 20   | 18  | 20   | 18  | 20   |
| 1981       | Dry        | 18                                                       | 16   | 18  | 16   | 18  | 16   | 18  | 16   | 18  | 16   |
| 1982       | Wet        | 18                                                       | 20   | 18  | 20   | 18  | 20   | 18  | 20   | 18  | 20   |
| 1983       | Wet        | 18                                                       | 5    | 18  | 5    | 18  | 5    | 18  | 5    | 18  | 5    |
| 1984       | Wet        | 18                                                       | 20   | 18  | 20   | 18  | 20   | 18  | 20   | 18  | 20   |
| 1985       | Dry        | 18                                                       | 16   | 18  | 16   | 18  | 16   | 18  | 16   | 18  | 16   |
| 1986       | Wet        | 18                                                       | 20   | 18  | 20   | 18  | 20   | 18  | 20   | 18  | 20   |
| 1987       | Dry        | 22                                                       | 6    | 22  | 6    | 22  | 6    | 22  | 6    | 22  | 6    |
| 1988       | Critical   | 10                                                       | 12   | 13  | 12   | 13  | 12   | 13  | 12   | 13  | 12   |
| 1989       | Dry        | 18                                                       | 20   | 18  | 20   | 18  | 20   | 18  | 20   | 18  | 20   |
| 1990       | Critical   | 18                                                       | 13   | 18  | 13   | 18  | 13   | 18  | 13   | 18  | 13   |
| 1991       | Critical   | 36                                                       | 20   | 36  | 20   | 36  | 20   | 36  | 20   | 36  | 20   |
| 1992       | Critical   | 18                                                       | 5    | 24  | 5    | 24  | 5    | 24  | 5    | 24  | 5    |
| 1993       | bove Norm  | 18                                                       | 20   | 18  | 20   | 18  | 20   | 18  | 20   | 18  | 20   |
| 1994       | Critical   | 24                                                       | 12   | 32  | 12   | 32  | 12   | 32  | 12   | 32  | 12   |
| 1995       | Wet        | 18                                                       | 5    | 18  | 5    | 18  | 5    | 18  | 5    | 18  | 5    |
| 1996       | Wet        | 18                                                       | 20   | 18  | 20   | 18  | 20   | 18  | 20   | 18  | 20   |
| 1997       | Wet        | 18                                                       | 20   | 18  | 20   | 18  | 20   | 18  | 20   | 18  | 20   |
| 1998       | Wet        | 18                                                       | 14   | 18  | 14   | 18  | 14   | 18  | 14   | 18  | 14   |

**Footnote:**

- A BL2000 = Baseline 2000
- NP = No Project
- PM = PowerMax
- WM =WaterMax
- ST =PG&E Co.'s proposed Settlement Agreement
- ND =No Data



Motherlode: Appendix Table-63 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: SF Stanislaus River: Strawberry Reservoir  
 Location: Node 400  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A<br>Thousands of Acre-feet |      |      |      |      | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|-----------------|--------------------------------------------------------------|------|------|------|------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |                 | BL2000                                                       | NP   | PM   | WM   | ST   | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST  |
| 1975       | Wet             | 92.5                                                         | 92.5 | 88.5 | 93.4 | 92.5 | 100.0%                 | 95.7%  | >100%  | 100.0% | No                      | LTS | No  | No  |
| 1976       | Critical        | 87.9                                                         | 84.6 | 65.3 | 77.3 | 84.8 | 96.2%                  | 74.3%  | 87.9%  | 96.5%  | LTS                     | SIG | LTS | LTS |
| 1977       | Critical        | 52.7                                                         | 49.9 | 50.9 | 50.6 | 51.2 | 94.7%                  | 96.6%  | 96.0%  | 97.2%  | LTS                     | LTS | LTS | LTS |
| 1978       | bove Norm       | 93.1                                                         | 93   | 92.2 | 93.6 | 93   | 99.9%                  | 99.0%  | >100%  | 99.9%  | LTS                     | LTS | No  | LTS |
| 1979       | elow Norm       | 89.7                                                         | 89.2 | 77.1 | 86.4 | 90.9 | 99.4%                  | 86.0%  | 96.3%  | >100%  | LTS                     | LTS | LTS | No  |
| 1980       | bove Norm       | 91                                                           | 89.9 | 88.1 | 93.9 | 90.3 | 98.8%                  | 96.8%  | >100%  | 99.2%  | LTS                     | LTS | No  | LTS |
| 1981       | Dry             | 89.4                                                         | 91.8 | 81.3 | 79.7 | 89.6 | >100%                  | 90.9%  | 89.1%  | >100%  | No                      | LTS | LTS | No  |
| 1982       | Wet             | 94.1                                                         | 94.1 | 93.6 | 92.9 | 94.1 | 100.0%                 | 99.5%  | 98.7%  | 100.0% | No                      | LTS | LTS | No  |
| 1983       | Wet             | 98                                                           | 98   | 98   | 98   | 98   | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1984       | Wet             | 92                                                           | 91   | 82   | 85.1 | 91   | 98.9%                  | 89.1%  | 92.5%  | 98.9%  | LTS                     | LTS | LTS | LTS |
| 1985       | Dry             | 90.5                                                         | 90.2 | 78.1 | 81.7 | 90.2 | 99.7%                  | 86.3%  | 90.3%  | 99.7%  | LTS                     | LTS | LTS | LTS |
| 1986       | Wet             | 91                                                           | 91.6 | 80.1 | 89.9 | 91.6 | >100%                  | 88.0%  | 98.8%  | >100%  | No                      | LTS | LTS | No  |
| 1987       | Dry             | 87.8                                                         | 87.1 | 76.7 | 77.5 | 88.6 | 99.2%                  | 87.4%  | 88.3%  | >100%  | LTS                     | LTS | LTS | No  |
| 1988       | Critical        | 78.5                                                         | 74   | 57.3 | 61.6 | 74.3 | 94.3%                  | 73.0%  | 78.5%  | 94.6%  | LTS                     | SIG | SIG | LTS |
| 1989       | Dry             | 90.1                                                         | 90.1 | 81.2 | 81.2 | 90.1 | 100.0%                 | 90.1%  | 90.1%  | 100.0% | No                      | LTS | LTS | No  |
| 1990       | Critical        | 89.7                                                         | 87.8 | 79.3 | 80.9 | 88.9 | 97.9%                  | 88.4%  | 90.2%  | 99.1%  | LTS                     | LTS | LTS | LTS |
| 1991       | Critical        | 86.3                                                         | 86.3 | 79   | 80.2 | 87   | 100.0%                 | 91.5%  | 92.9%  | >100%  | No                      | LTS | LTS | No  |
| 1992       | Critical        | 89.2                                                         | 88.5 | 71.4 | 81.8 | 89.8 | 99.2%                  | 80.0%  | 91.7%  | >100%  | LTS                     | LTS | LTS | No  |
| 1993       | bove Norm       | 91.4                                                         | 90.1 | 86.6 | 92.7 | 90.1 | 98.6%                  | 94.7%  | >100%  | 98.6%  | LTS                     | LTS | No  | LTS |
| 1994       | Critical        | 89.6                                                         | 88.9 | 77.6 | 81.9 | 89.6 | 99.2%                  | 86.6%  | 91.4%  | 100.0% | LTS                     | LTS | LTS | No  |
| 1995       | Wet             | 96                                                           | 96.1 | 96.1 | 97.6 | 96.1 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1996       | Wet             | 90.6                                                         | 91.7 | 82.5 | 87.8 | 91.7 | >100%                  | 91.1%  | 96.9%  | >100%  | No                      | LTS | LTS | No  |
| 1997       | Wet             | 90.6                                                         | 90   | 78.1 | 86.4 | 89.3 | 99.3%                  | 86.2%  | 95.4%  | 98.6%  | LTS                     | LTS | LTS | LTS |
| 1998       | Wet             | 90.5                                                         | 91   | 86.9 | 90.9 | 90.3 | >100%                  | 96.0%  | >100%  | 99.8%  | No                      | LTS | No  | LTS |

**Footnote:**

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Motherlode: Appendix Table-64 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: SF Stanislaus River: Strawberry Reservoir  
 Location: Node 400  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 39                                                       | 0    | 39  | 0    | 39  | 0    | 39  | 0    | 39  | 0    |
| 1976       | Critical   | 35                                                       | 2    | 44  | -10  | 45  | -13  | 39  | -6   | 44  | -10  |
| 1977       | Critical   | 20                                                       | -8   | 20  | -8   | 20  | -8   | 20  | -6   | 18  | -8   |
| 1978       | bove Norm  | 30                                                       | 0    | 30  | 0    | 30  | 0    | 19  | 0    | 30  | 0    |
| 1979       | elow Norm  | 29                                                       | 0    | 35  | 0    | 35  | 0    | 25  | 0    | 37  | 0    |
| 1980       | bove Norm  | 21                                                       | 0    | 21  | 0    | 25  | 0    | 17  | 0    | 21  | 0    |
| 1981       | Dry        | 29                                                       | 0    | 29  | 0    | 39  | 0    | 15  | 0    | 29  | 0    |
| 1982       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1983       | Wet        | 27                                                       | 0    | 27  | 0    | 27  | 0    | 21  | 0    | 27  | 0    |
| 1984       | Wet        | 12                                                       | 0    | 15  | 0    | 12  | 0    | 8   | 0    | 15  | 0    |
| 1985       | Dry        | 21                                                       | 0    | 21  | 0    | 21  | 0    | 6   | 0    | 21  | 0    |
| 1986       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1987       | Dry        | 22                                                       | -2   | 39  | -2   | 28  | 0    | 35  | -3   | 27  | 0    |
| 1988       | Critical   | 21                                                       | 3    | 23  | 0    | 21  | 3    | 18  | -6   | 26  | 3    |
| 1989       | Dry        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1990       | Critical   | 15                                                       | 0    | 23  | 0    | 23  | 0    | 8   | 0    | 23  | 0    |
| 1991       | Critical   | 30                                                       | 11   | 28  | 11   | 27  | 12   | 28  | 11   | 30  | 11   |
| 1992       | Critical   | 22                                                       | -3   | 25  | -2   | 25  | -9   | 15  | 0    | 22  | 0    |
| 1993       | bove Norm  | 24                                                       | 0    | 24  | 0    | 23  | 0    | 8   | 0    | 22  | 0    |
| 1994       | Critical   | 26                                                       | 0    | 29  | 0    | 29  | 0    | 30  | 0    | 37  | 0    |
| 1995       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1996       | Wet        | 0                                                        | 0    | 5   | 0    | 5   | 0    | 0   | 0    | 5   | 0    |
| 1997       | Wet        | 28                                                       | 0    | 28  | 0    | 29  | 0    | 24  | 0    | 28  | 0    |
| 1998       | Wet        | 14                                                       | 0    | 25  | 0    | 25  | 0    | 9   | 0    | 24  | 0    |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

Motherlode: Appendix Table-65 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: SF Stanislaus River: Lyons Reservoir  
 Location: Node 410  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A |      |      |      |      | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|-----------------|------------------------------------|------|------|------|------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |                 | BL2000                             | NP   | PM   | WM   | ST   | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST  |
| 1975       | Wet             | 28.7                               | 28.5 | 30.1 | 28.8 | 28.5 | 99.3%                  | >100%  | >100%  | 99.3%  | LTS                     | No  | No  | LTS |
| 1976       | Critical        | 21.4                               | 20.1 | 23.3 | 25.6 | 20.2 | 93.9%                  | >100%  | >100%  | 94.4%  | LTS                     | No  | No  | LTS |
| 1977       | Critical        | 10.4                               | 13.2 | 12.2 | 15   | 11.7 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1978       | bove Norm       | 29.2                               | 29.3 | 29.3 | 29.3 | 29.3 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1979       | elow Norm       | 24.9                               | 25.8 | 29   | 26.3 | 24.2 | >100%                  | >100%  | >100%  | 97.2%  | No                      | No  | No  | LTS |
| 1980       | bove Norm       | 27.6                               | 28.1 | 28.1 | 27.1 | 27.6 | >100%                  | >100%  | 98.2%  | 100.0% | No                      | No  | LTS | No  |
| 1981       | Dry             | 25.9                               | 23.7 | 24.7 | 28.6 | 25.9 | 91.5%                  | 95.4%  | >100%  | 100.0% | LTS                     | LTS | No  | No  |
| 1982       | Wet             | 30                                 | 30   | 30   | 30.5 | 30   | 100.0%                 | 100.0% | >100%  | 100.0% | No                      | No  | No  | No  |
| 1983       | Wet             | 30.7                               | 30.7 | 30.7 | 30.7 | 30.7 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1984       | Wet             | 25.3                               | 25.6 | 26.5 | 28.9 | 25.6 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1985       | Dry             | 23.9                               | 23.9 | 29   | 27.7 | 23.9 | 100.0%                 | >100%  | >100%  | 100.0% | No                      | No  | No  | No  |
| 1986       | Wet             | 25.9                               | 26.3 | 28.5 | 28.2 | 26.3 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1987       | Dry             | 23.4                               | 24.3 | 21.1 | 26.3 | 22.8 | >100%                  | 90.2%  | >100%  | 97.4%  | No                      | LTS | No  | LTS |
| 1988       | Critical        | 13                                 | 17.6 | 18.9 | 20.6 | 17.3 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1989       | Dry             | 25.5                               | 25.5 | 24.6 | 27.8 | 25.5 | 100.0%                 | 96.5%  | >100%  | 100.0% | No                      | LTS | No  | No  |
| 1990       | Critical        | 24                                 | 25.2 | 24.5 | 25.6 | 23.9 | >100%                  | >100%  | >100%  | 99.6%  | No                      | No  | No  | LTS |
| 1991       | Critical        | 24.4                               | 23.1 | 22.2 | 25.3 | 22.4 | 94.7%                  | 91.0%  | >100%  | 91.8%  | LTS                     | LTS | No  | LTS |
| 1992       | Critical        | 25.4                               | 27.2 | 27.7 | 28.1 | 25.9 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1993       | bove Norm       | 28                                 | 28   | 28   | 28.8 | 28   | 100.0%                 | 100.0% | >100%  | 100.0% | No                      | No  | No  | No  |
| 1994       | Critical        | 23.7                               | 24.4 | 23.4 | 24.4 | 23.7 | >100%                  | 98.7%  | >100%  | 100.0% | No                      | LTS | No  | No  |
| 1995       | Wet             | 30.7                               | 30.6 | 30.6 | 30.7 | 30.6 | 99.7%                  | 99.7%  | 100.0% | 99.7%  | LTS                     | LTS | No  | LTS |
| 1996       | Wet             | 26.5                               | 27.2 | 29.6 | 27.4 | 27.2 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1997       | Wet             | 25.5                               | 26.1 | 28.6 | 28.5 | 26.9 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1998       | Wet             | 29.5                               | 27.3 | 29.6 | 28.6 | 28.1 | 92.5%                  | >100%  | 96.9%  | 95.3%  | LTS                     | No  | LTS | LTS |

**Footnote:**

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Motherlode: Appendix Table-66 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: SF Stanislaus River: Lyons Reservoir  
 Location: Node 410  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 23                                                       | 2    | 23  | 2    | 23  | 2    | 23  | 2    | 23  | 2    |
| 1976       | Critical   | 23                                                       | -10  | 10  | 11   | 8   | 17   | 13  | 2    | 10  | 11   |
| 1977       | Critical   | -35                                                      | 67   | -35 | 67   | -33 | 67   | -15 | 30   | -20 | 67   |
| 1978       | bove Norm  | 20                                                       | 2    | 20  | 2    | 20  | 2    | 23  | 2    | 20  | 2    |
| 1979       | elow Norm  | 23                                                       | 2    | 23  | 2    | 23  | 2    | 23  | 2    | 18  | 2    |
| 1980       | bove Norm  | 7                                                        | 2    | 7   | 2    | 2   | 2    | 2   | 2    | 7   | 2    |
| 1981       | Dry        | 22                                                       | 2    | 22  | 2    | 5   | 2    | 23  | 2    | 22  | 2    |
| 1982       | Wet        | 2                                                        | 2    | 2   | 2    | 2   | 2    | 2   | 2    | 2   | 2    |
| 1983       | Wet        | 7                                                        | 2    | 7   | 2    | 7   | 2    | 10  | 2    | 7   | 2    |
| 1984       | Wet        | 17                                                       | 2    | 11  | 2    | 17  | 2    | 23  | 2    | 11  | 2    |
| 1985       | Dry        | 8                                                        | 2    | 15  | 2    | 15  | 2    | 17  | 2    | 15  | 2    |
| 1986       | Wet        | 2                                                        | 2    | 2   | 2    | 2   | 2    | 2   | 2    | 2   | 2    |
| 1987       | Dry        | 23                                                       | 2    | 4   | 2    | 23  | -7   | 2   | 2    | 23  | -1   |
| 1988       | Critical   | 2                                                        | 7    | 7   | 11   | 7   | 5    | 0   | 18   | 2   | 7    |
| 1989       | Dry        | 2                                                        | 2    | 2   | 2    | 2   | 2    | 2   | 2    | 2   | 2    |
| 1990       | Critical   | 5                                                        | 2    | 2   | 2    | 2   | 2    | 23  | 2    | 2   | 2    |
| 1991       | Critical   | 7                                                        | 18   | 12  | 18   | 12  | 18   | 7   | 18   | 7   | 18   |
| 1992       | Critical   | 6                                                        | 2    | 6   | 2    | 6   | 2    | 2   | -5   | 6   | -2   |
| 1993       | bove Norm  | 3                                                        | 2    | 10  | 2    | 14  | 2    | 20  | 2    | 14  | 2    |
| 1994       | Critical   | 18                                                       | 2    | 23  | 2    | 23  | 2    | 5   | 2    | 7   | 2    |
| 1995       | Wet        | 2                                                        | 2    | 2   | 2    | 2   | 2    | 2   | 2    | 2   | 2    |
| 1996       | Wet        | 2                                                        | 2    | 2   | 2    | 2   | 2    | 2   | 2    | 2   | 2    |
| 1997       | Wet        | 12                                                       | 2    | 12  | 2    | 10  | 2    | 15  | 2    | 12  | 2    |
| 1998       | Wet        | 2                                                        | 2    | 2   | 2    | 3   | 2    | 4   | 2    | 2   | 2    |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

Motherlode: Appendix Table-67 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: MF Stanislaus River: Beardsley Reservoir  
 Location: Node 440  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A |       |       |       |       | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|-----------------|------------------------------------|-------|-------|-------|-------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |                 | Thousands of Acre-feet             |       |       |       |       | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST  |
| 1975       | Wet             | 539.4                              | 547.2 | 548.3 | 547.1 | 546   | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1976       | Critical        | 494                                | 431.1 | 444.4 | 438.9 | 418.8 | 87.3%                  | 90.0%  | 88.8%  | 84.8%  | LTS                     | LTS | LTS | LTS |
| 1977       | Critical        | 275.9                              | 288.5 | 288.5 | 288.5 | 280.6 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1978       | bove Norm       | 547.7                              | 547.5 | 547.5 | 547.8 | 547.5 | 100.0%                 | 100.0% | >100%  | 100.0% | LTS                     | LTS | No  | LTS |
| 1979       | elow Norm       | 530.7                              | 537.2 | 545.8 | 541.2 | 532.8 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1980       | bove Norm       | 550.3                              | 553.2 | 553.2 | 553.2 | 553.2 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1981       | Dry             | 507                                | 432.5 | 439.8 | 437.5 | 428.7 | 85.3%                  | 86.7%  | 86.3%  | 84.6%  | LTS                     | LTS | LTS | LTS |
| 1982       | Wet             | 553.5                              | 553.5 | 553.5 | 553.5 | 553.5 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1983       | Wet             | 553.5                              | 553.5 | 553.5 | 553.5 | 553.5 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1984       | Wet             | 543.3                              | 545.1 | 545   | 543.2 | 541.5 | >100%                  | >100%  | 100.0% | 99.7%  | No                      | No  | LTS | LTS |
| 1985       | Dry             | 520.2                              | 489.9 | 496.8 | 492.4 | 481.8 | 94.2%                  | 95.5%  | 94.7%  | 92.6%  | LTS                     | LTS | LTS | LTS |
| 1986       | Wet             | 541                                | 540.9 | 540.9 | 539.3 | 537.3 | 100.0%                 | 100.0% | 99.7%  | 99.3%  | LTS                     | LTS | LTS | LTS |
| 1987       | Dry             | 462.7                              | 426.2 | 428.4 | 428.4 | 419.8 | 92.1%                  | 92.6%  | 92.6%  | 90.7%  | LTS                     | LTS | LTS | LTS |
| 1988       | Critical        | 357.9                              | 339.6 | 338.6 | 337.6 | 341.7 | 94.9%                  | 94.6%  | 94.3%  | 95.5%  | LTS                     | LTS | LTS | LTS |
| 1989       | Dry             | 520.3                              | 518.3 | 526.9 | 520.5 | 507.7 | 99.6%                  | >100%  | >100%  | 97.6%  | LTS                     | No  | No  | LTS |
| 1990       | Critical        | 509.1                              | 439.4 | 447.2 | 443.4 | 435.6 | 86.3%                  | 87.8%  | 87.1%  | 85.6%  | LTS                     | LTS | LTS | LTS |
| 1991       | Critical        | 522.8                              | 443.9 | 453.7 | 442   | 433.7 | 84.9%                  | 86.8%  | 84.5%  | 83.0%  | LTS                     | LTS | LTS | LTS |
| 1992       | Critical        | 436.3                              | 427.4 | 437.6 | 427.4 | 420.1 | 98.0%                  | >100%  | 98.0%  | 96.3%  | LTS                     | No  | LTS | LTS |
| 1993       | bove Norm       | 539                                | 538.9 | 544.5 | 538.9 | 538.9 | 100.0%                 | >100%  | 100.0% | 100.0% | LTS                     | No  | LTS | LTS |
| 1994       | Critical        | 456.8                              | 426.6 | 430.9 | 428.9 | 424.7 | 93.4%                  | 94.3%  | 93.9%  | 93.0%  | LTS                     | LTS | LTS | LTS |
| 1995       | Wet             | 549.5                              | 552.9 | 552.9 | 553.4 | 552.5 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1996       | Wet             | 523.6                              | 528.2 | 534.8 | 525.6 | 523.9 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1997       | Wet             | 529.4                              | 532.9 | 541.1 | 543.6 | 539.6 | >100%                  | >100%  | >100%  | >100%  | No                      | No  | No  | No  |
| 1998       | Wet             | 553.3                              | 553.3 | 553.3 | 553.3 | 553.3 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

Motherlode: Appendix Table-68 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: MF Stanislaus River: Beardsley Reservoir  
 Location: Node 440  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 87                                                       | 0    | 87  | 0    | 87  | 0    | 87  | 0    | 87  | 0    |
| 1976       | Critical   | 45                                                       | 0    | 68  | 0    | 68  | 0    | 68  | 0    | 66  | -1   |
| 1977       | Critical   | 20                                                       | 7    | 20  | 15   | 20  | 15   | 20  | 15   | 20  | 9    |
| 1978       | bove Norm  | 87                                                       | 0    | 87  | 0    | 87  | 0    | 87  | 0    | 87  | 0    |
| 1979       | elow Norm  | 87                                                       | 0    | 87  | 0    | 87  | 0    | 87  | 0    | 87  | 0    |
| 1980       | bove Norm  | 23                                                       | 0    | 23  | 0    | 23  | 0    | 23  | 0    | 23  | 0    |
| 1981       | Dry        | 50                                                       | 0    | 65  | 0    | 65  | 0    | 65  | 0    | 63  | 0    |
| 1982       | Wet        | 23                                                       | 0    | 23  | 0    | 23  | 0    | 23  | 0    | 23  | 0    |
| 1983       | Wet        | 23                                                       | 0    | 23  | 0    | 23  | 0    | 23  | 0    | 23  | 0    |
| 1984       | Wet        | 23                                                       | 0    | 23  | 0    | 23  | 0    | 23  | 0    | 23  | 0    |
| 1985       | Dry        | 26                                                       | 0    | 27  | 0    | 27  | 0    | 27  | 0    | 27  | 0    |
| 1986       | Wet        | 23                                                       | 0    | 23  | 0    | 23  | 0    | 23  | 0    | 23  | 0    |
| 1987       | Dry        | 38                                                       | 0    | 55  | 0    | 55  | 0    | 55  | 0    | 53  | 0    |
| 1988       | Critical   | 32                                                       | 5    | 43  | -1   | 42  | -1   | 42  | 1    | 43  | -1   |
| 1989       | Dry        | 23                                                       | 0    | 23  | 0    | 23  | 0    | 23  | 0    | 23  | 0    |
| 1990       | Critical   | 27                                                       | 0    | 40  | 0    | 40  | 0    | 37  | 0    | 41  | 0    |
| 1991       | Critical   | 74                                                       | 12   | 49  | 38   | 48  | 39   | 50  | 37   | 49  | 38   |
| 1992       | Critical   | 33                                                       | -4   | 47  | -4   | 47  | -2   | 47  | -4   | 46  | -6   |
| 1993       | bove Norm  | 23                                                       | 0    | 23  | 0    | 23  | 0    | 23  | 0    | 23  | 0    |
| 1994       | Critical   | 64                                                       | 0    | 68  | 0    | 68  | 0    | 69  | 0    | 68  | 0    |
| 1995       | Wet        | 23                                                       | 0    | 23  | 0    | 23  | 0    | 23  | 0    | 23  | 0    |
| 1996       | Wet        | 23                                                       | 0    | 23  | 0    | 23  | 0    | 23  | 0    | 23  | 0    |
| 1997       | Wet        | 23                                                       | 0    | 23  | 0    | 23  | 0    | 23  | 0    | 23  | 0    |
| 1998       | Wet        | 23                                                       | 0    | 23  | 0    | 23  | 0    | 23  | 0    | 23  | 0    |

**Footnote:**

- A BL2000 = Baseline 2000
- NP = No Project
- PM = PowerMax
- WM =WaterMax
- ST =PG&E Co.'s proposed Settlement Agreement
- ND =No Data

Motherlode: Appendix Table-69 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: MF Stanislaus River: Donnell's Reservoir  
 Location: Node 435  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Year Type | Cumulative Storage (May-October) A |       |       |       |       | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|-----------------|------------------------------------|-------|-------|-------|-------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |                 | Thousands of Acre-feet             |       |       |       |       | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST  |
|            |                 | BL2000                             | NP    | PM    | WM    | ST    |                        |        |        |        |                         |     |     |     |
| 1975       | Wet             | 345.4                              | 340.9 | 340.9 | 340.9 | 340.9 | 98.7%                  | 98.7%  | 98.7%  | 98.7%  | LTS                     | LTS | LTS | LTS |
| 1976       | Critical        | 339                                | 338.8 | 338.8 | 338.8 | 338.8 | 99.9%                  | 99.9%  | 99.9%  | 99.9%  | LTS                     | LTS | LTS | LTS |
| 1977       | Critical        | 306.8                              | 309.2 | 309.2 | 309.2 | 304.6 | >100%                  | >100%  | >100%  | 99.3%  | No                      | No  | No  | LTS |
| 1978       | bove Norm       | 356.7                              | 352.6 | 352.6 | 352.6 | 352.6 | 98.9%                  | 98.9%  | 98.9%  | 98.9%  | LTS                     | LTS | LTS | LTS |
| 1979       | elow Norm       | 342.1                              | 338.9 | 338.9 | 338.9 | 338.9 | 99.1%                  | 99.1%  | 99.1%  | 99.1%  | LTS                     | LTS | LTS | LTS |
| 1980       | bove Norm       | 358                                | 349.6 | 349.6 | 349.6 | 349.6 | 97.7%                  | 97.7%  | 97.7%  | 97.7%  | LTS                     | LTS | LTS | LTS |
| 1981       | Dry             | 339.1                              | 336.4 | 336.4 | 336.4 | 336.4 | 99.2%                  | 99.2%  | 99.2%  | 99.2%  | LTS                     | LTS | LTS | LTS |
| 1982       | Wet             | 354.2                              | 354.2 | 354.2 | 354.2 | 354.2 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1983       | Wet             | 360.1                              | 360.1 | 360.1 | 360.1 | 360.1 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1984       | Wet             | 353.1                              | 344.9 | 344.9 | 344.9 | 344.9 | 97.7%                  | 97.7%  | 97.7%  | 97.7%  | LTS                     | LTS | LTS | LTS |
| 1985       | Dry             | 346.5                              | 338.8 | 338.8 | 338.8 | 338.8 | 97.8%                  | 97.8%  | 97.8%  | 97.8%  | LTS                     | LTS | LTS | LTS |
| 1986       | Wet             | 352.4                              | 340   | 340   | 339.6 | 340   | 96.5%                  | 96.5%  | 96.4%  | 96.5%  | LTS                     | LTS | LTS | LTS |
| 1987       | Dry             | 339                                | 336.2 | 336.2 | 336.4 | 336.2 | 99.2%                  | 99.2%  | 99.2%  | 99.2%  | LTS                     | LTS | LTS | LTS |
| 1988       | Critical        | 326.5                              | 326.5 | 325.6 | 325.4 | 326.5 | 100.0%                 | 99.7%  | 99.7%  | 100.0% | No                      | LTS | LTS | No  |
| 1989       | Dry             | 342.5                              | 338.4 | 338.4 | 338.4 | 338.4 | 98.8%                  | 98.8%  | 98.8%  | 98.8%  | LTS                     | LTS | LTS | LTS |
| 1990       | Critical        | 336.4                              | 336.2 | 336.2 | 336.2 | 336.2 | 99.9%                  | 99.9%  | 99.9%  | 99.9%  | LTS                     | LTS | LTS | LTS |
| 1991       | Critical        | 335.6                              | 335.5 | 333.1 | 335.4 | 333.9 | 100.0%                 | 99.3%  | 99.9%  | 99.5%  | LTS                     | LTS | LTS | LTS |
| 1992       | Critical        | 336.2                              | 336.2 | 336.2 | 336.2 | 336.2 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1993       | bove Norm       | 347.9                              | 339.5 | 339.5 | 339.5 | 339.5 | 97.6%                  | 97.6%  | 97.6%  | 97.6%  | LTS                     | LTS | LTS | LTS |
| 1994       | Critical        | 336.2                              | 336.2 | 336.2 | 336.2 | 336.2 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1995       | Wet             | 360.1                              | 351.3 | 351.3 | 351.3 | 351.3 | 97.6%                  | 97.6%  | 97.6%  | 97.6%  | LTS                     | LTS | LTS | LTS |
| 1996       | Wet             | 346.9                              | 339.4 | 339.4 | 339.4 | 339.4 | 97.8%                  | 97.8%  | 97.8%  | 97.8%  | LTS                     | LTS | LTS | LTS |
| 1997       | Wet             | 350.6                              | 345.4 | 345.4 | 344.6 | 344.8 | 98.5%                  | 98.5%  | 98.3%  | 98.3%  | LTS                     | LTS | LTS | LTS |
| 1998       | Wet             | 354.8                              | 354.8 | 354.8 | 354.8 | 354.8 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND = No Data for this location

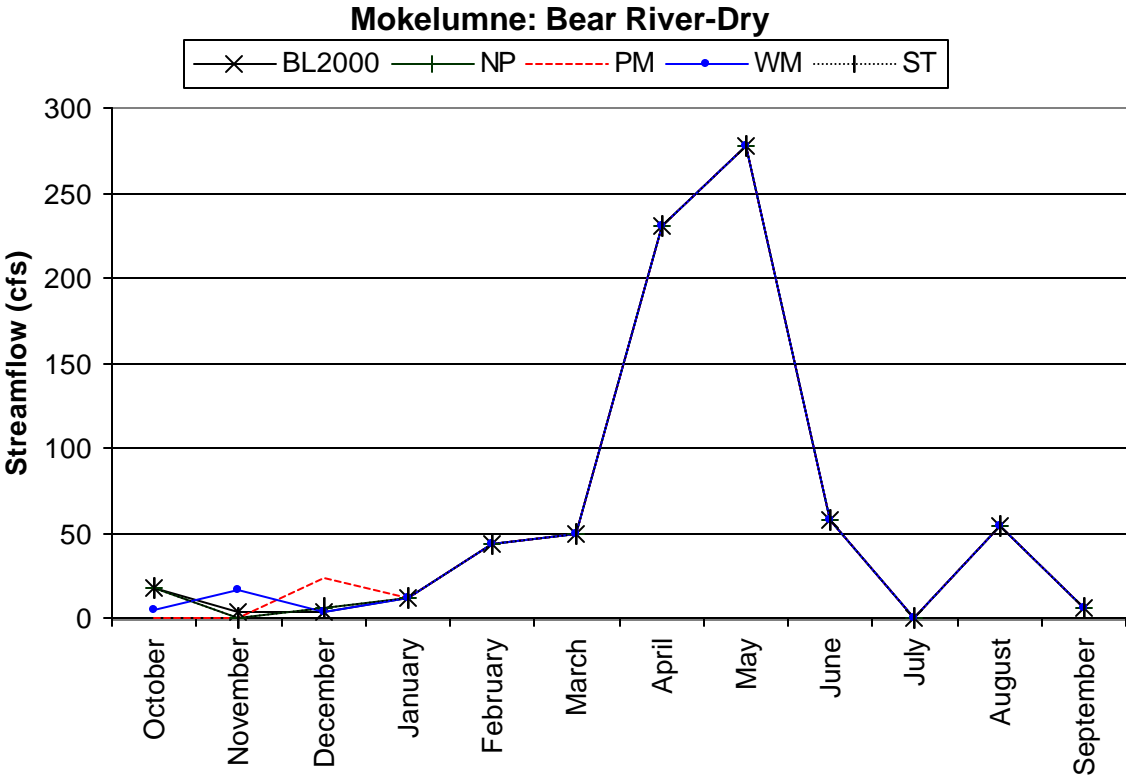
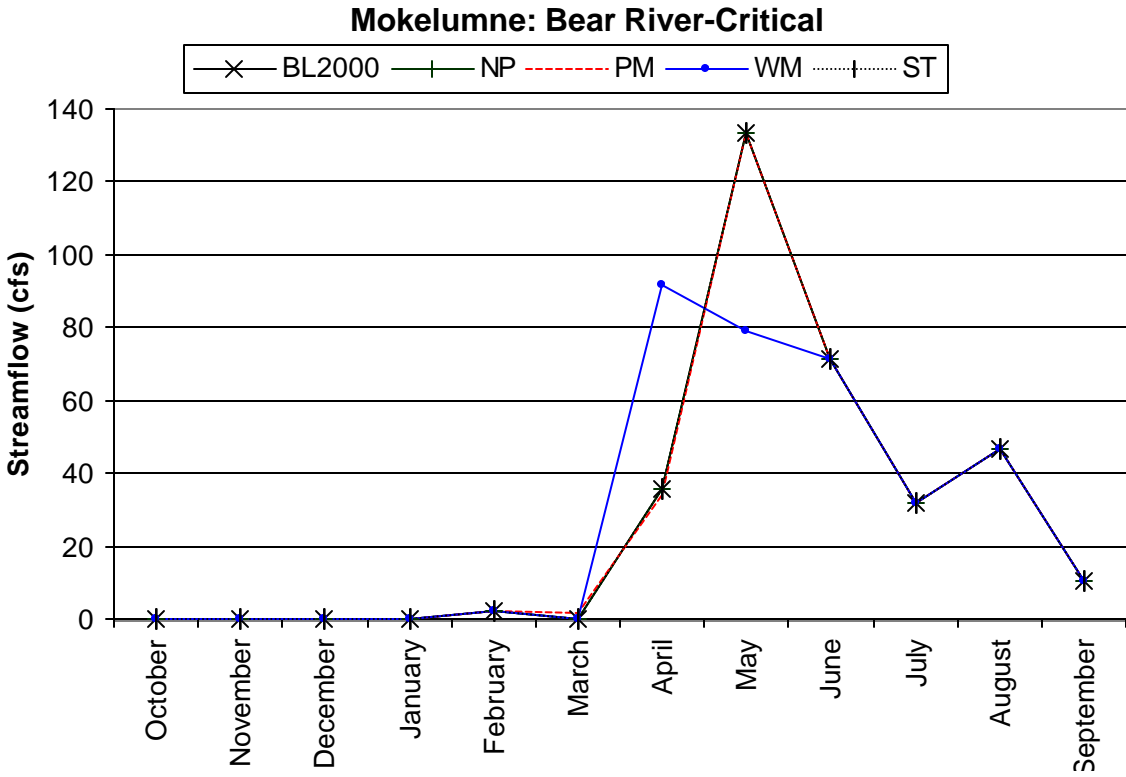
Motherlode: Appendix Table-70 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

Site: MF Stanislaus River: Donnell's Reservoir  
 Location: Node 435  
 Watershed: Sacramento

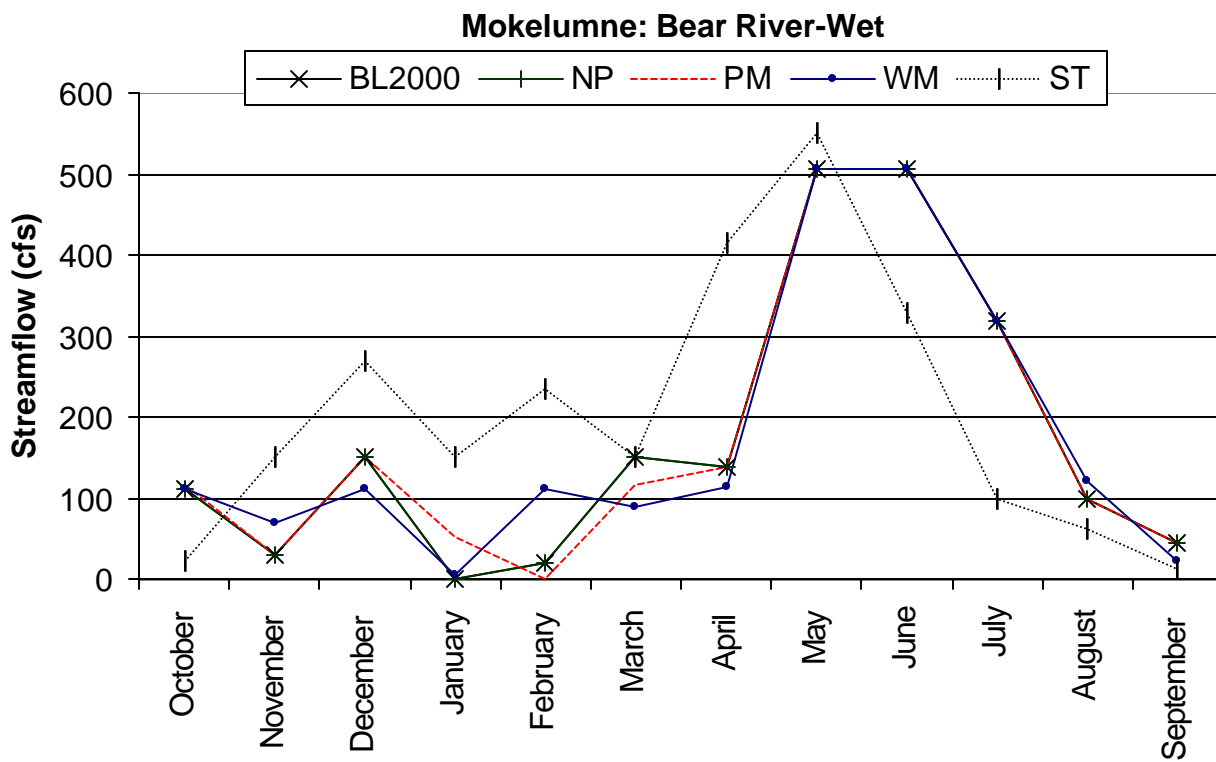
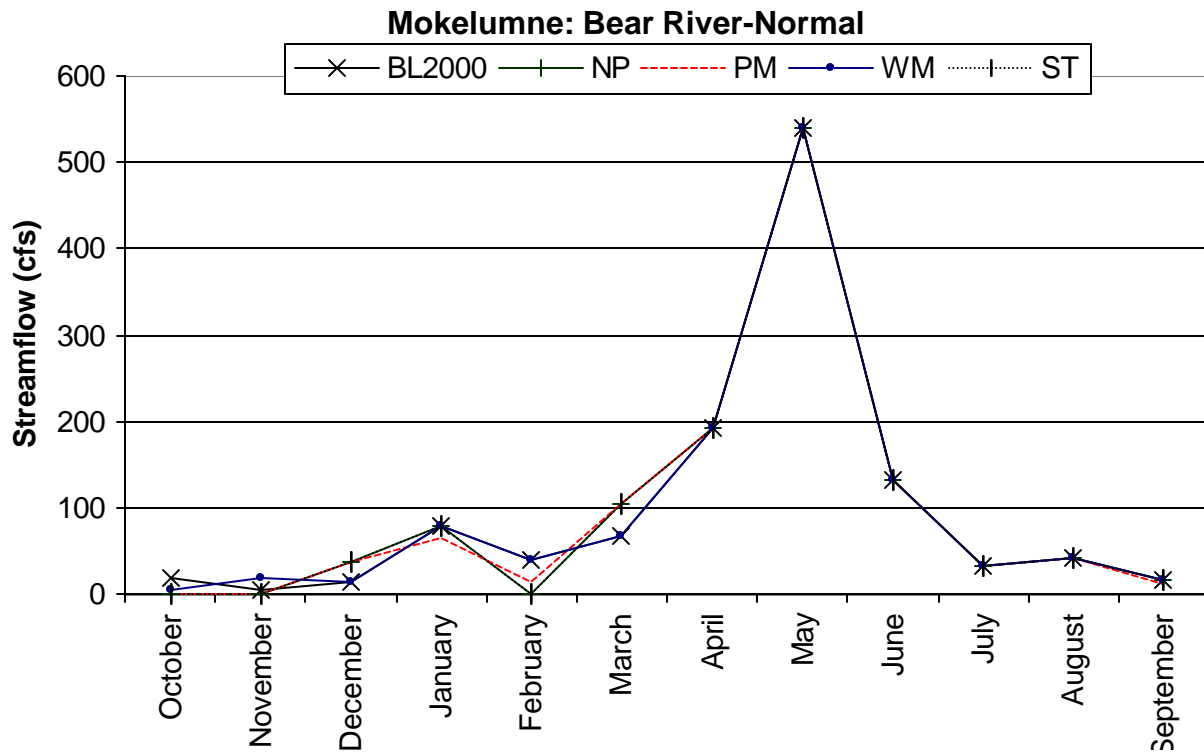
| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 65                                                       | 9    | 65  | 9    | 65  | 9    | 65  | 9    | 65  | 9    |
| 1976       | Critical   | 65                                                       | 9    | 65  | 9    | 65  | 9    | 65  | 9    | 65  | 9    |
| 1977       | Critical   | 23                                                       | 51   | 23  | 51   | 23  | 51   | 23  | 51   | 19  | 58   |
| 1978       | bove Norm  | 65                                                       | 9    | 65  | 9    | 65  | 9    | 65  | 9    | 65  | 9    |
| 1979       | elow Norm  | 65                                                       | 9    | 65  | 9    | 65  | 9    | 65  | 9    | 65  | 9    |
| 1980       | bove Norm  | 38                                                       | 9    | 38  | 9    | 38  | 9    | 38  | 9    | 38  | 9    |
| 1981       | Dry        | 60                                                       | 9    | 60  | 9    | 60  | 9    | 60  | 9    | 60  | 9    |
| 1982       | Wet        | 38                                                       | 9    | 38  | 9    | 38  | 9    | 38  | 9    | 38  | 9    |
| 1983       | Wet        | 60                                                       | 9    | 60  | 9    | 60  | 9    | 60  | 9    | 60  | 9    |
| 1984       | Wet        | 38                                                       | 9    | 38  | 9    | 38  | 9    | 38  | 9    | 38  | 9    |
| 1985       | Dry        | 38                                                       | 9    | 38  | 9    | 38  | 9    | 38  | 9    | 38  | 9    |
| 1986       | Wet        | 38                                                       | 9    | 38  | 9    | 38  | 9    | 38  | 9    | 38  | 9    |
| 1987       | Dry        | 44                                                       | 9    | 47  | 9    | 47  | 9    | 47  | 9    | 47  | 9    |
| 1988       | Critical   | 36                                                       | 33   | 41  | 33   | 41  | 33   | 41  | 33   | 41  | 33   |
| 1989       | Dry        | 38                                                       | 9    | 38  | 9    | 38  | 9    | 38  | 9    | 38  | 9    |
| 1990       | Critical   | 38                                                       | 9    | 38  | 9    | 38  | 9    | 38  | 9    | 38  | 9    |
| 1991       | Critical   | 57                                                       | 17   | 57  | 17   | 57  | 17   | 57  | 17   | 57  | 17   |
| 1992       | Critical   | 62                                                       | 9    | 65  | 9    | 65  | 9    | 65  | 9    | 65  | 9    |
| 1993       | bove Norm  | 38                                                       | 9    | 38  | 9    | 38  | 9    | 38  | 9    | 38  | 9    |
| 1994       | Critical   | 51                                                       | 9    | 65  | 9    | 65  | 9    | 65  | 9    | 65  | 9    |
| 1995       | Wet        | 38                                                       | 9    | 38  | 9    | 38  | 9    | 38  | 9    | 38  | 9    |
| 1996       | Wet        | 38                                                       | 9    | 38  | 9    | 38  | 9    | 38  | 9    | 38  | 9    |
| 1997       | Wet        | 38                                                       | 9    | 38  | 9    | 38  | 9    | 38  | 9    | 38  | 9    |
| 1998       | Wet        | 38                                                       | 9    | 38  | 9    | 38  | 9    | 38  | 9    | 38  | 9    |

**Footnote:**  
 A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s proposed Settlement Agreement  
 ND =No Data

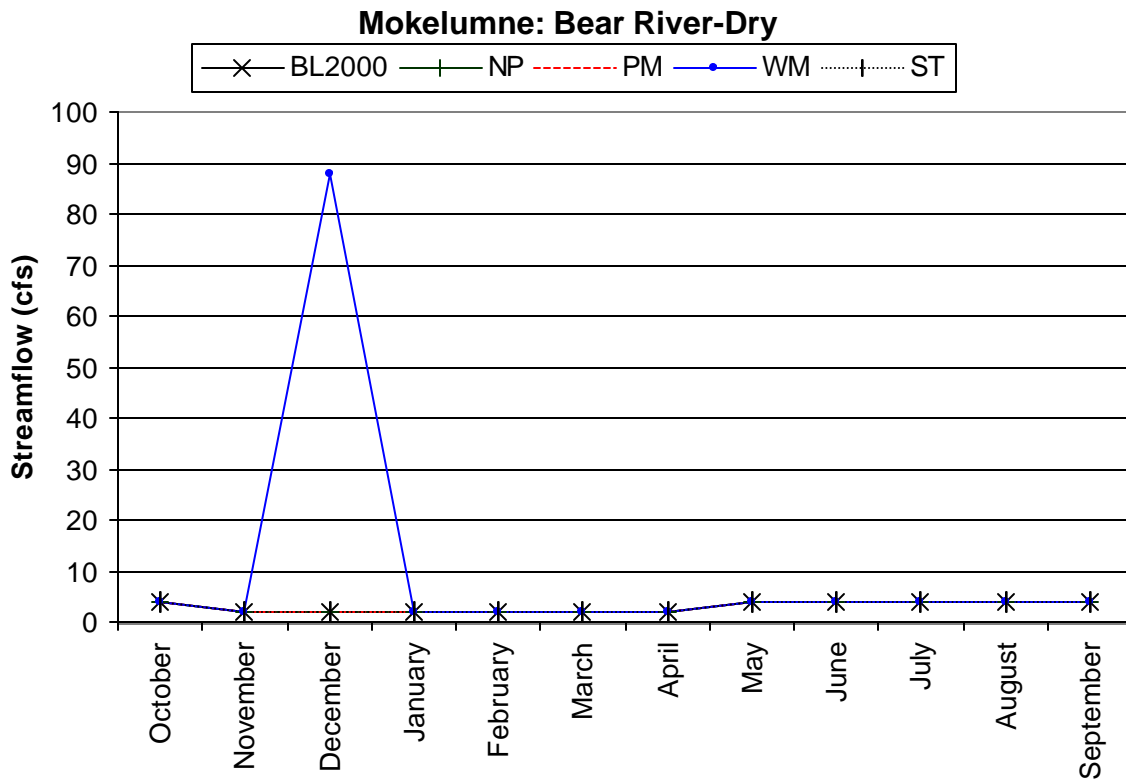
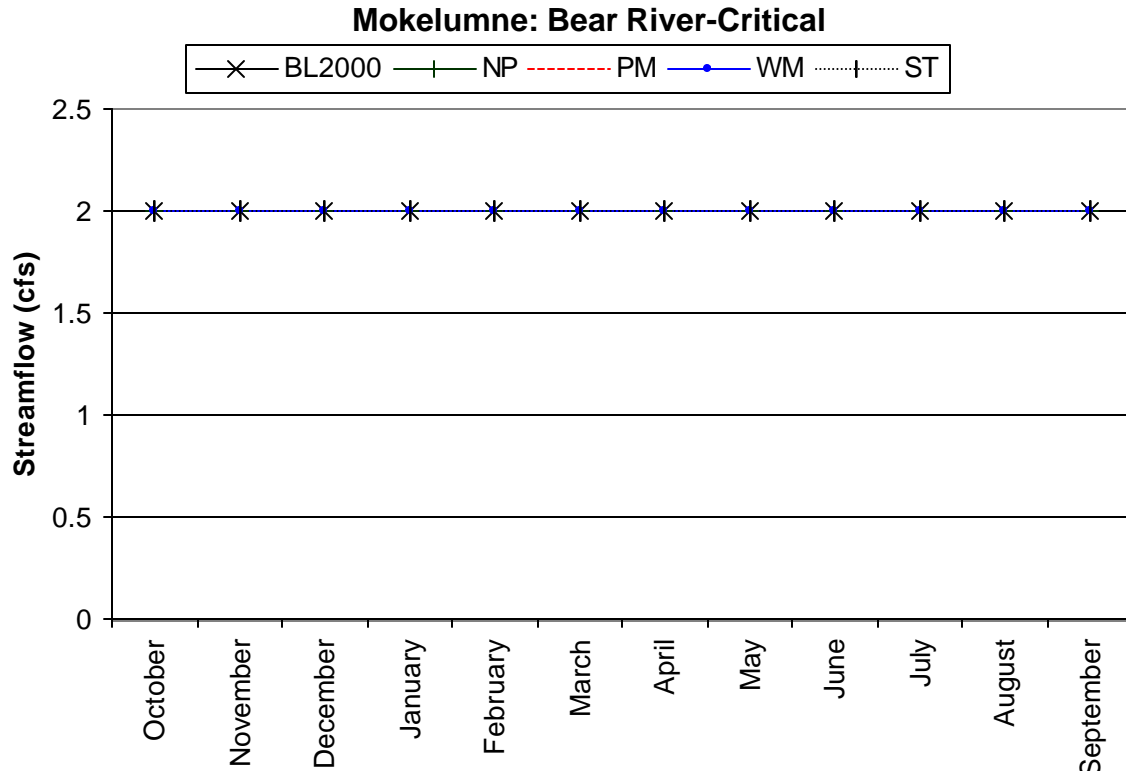




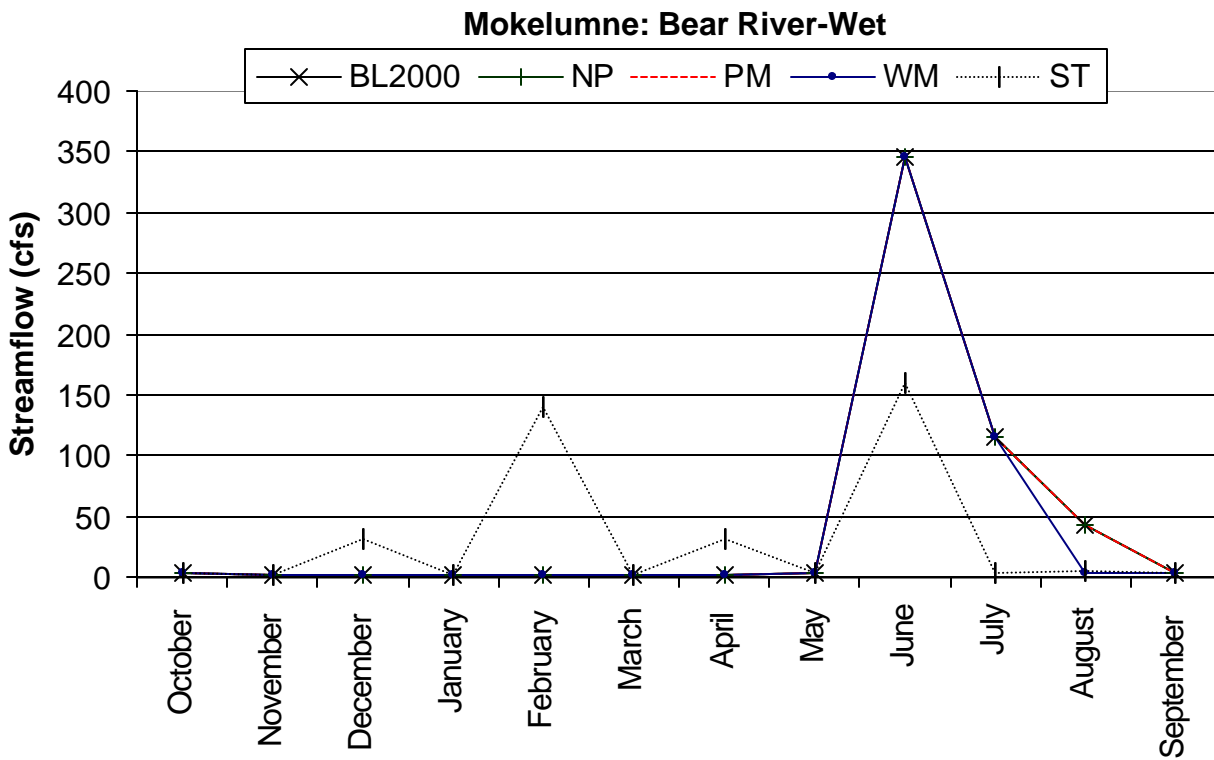
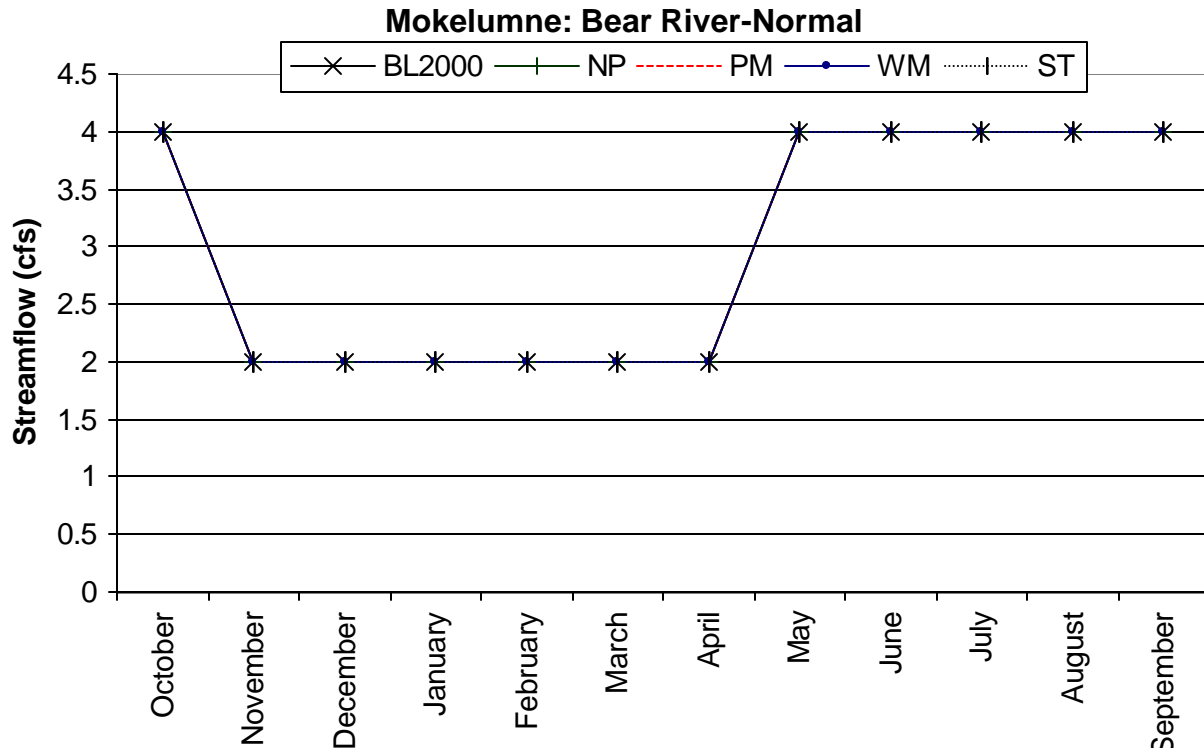
Motherlode: Appendix Figure-1 Modeled mean monthly flows in 1977 (top) and 1981 (bottom) water year



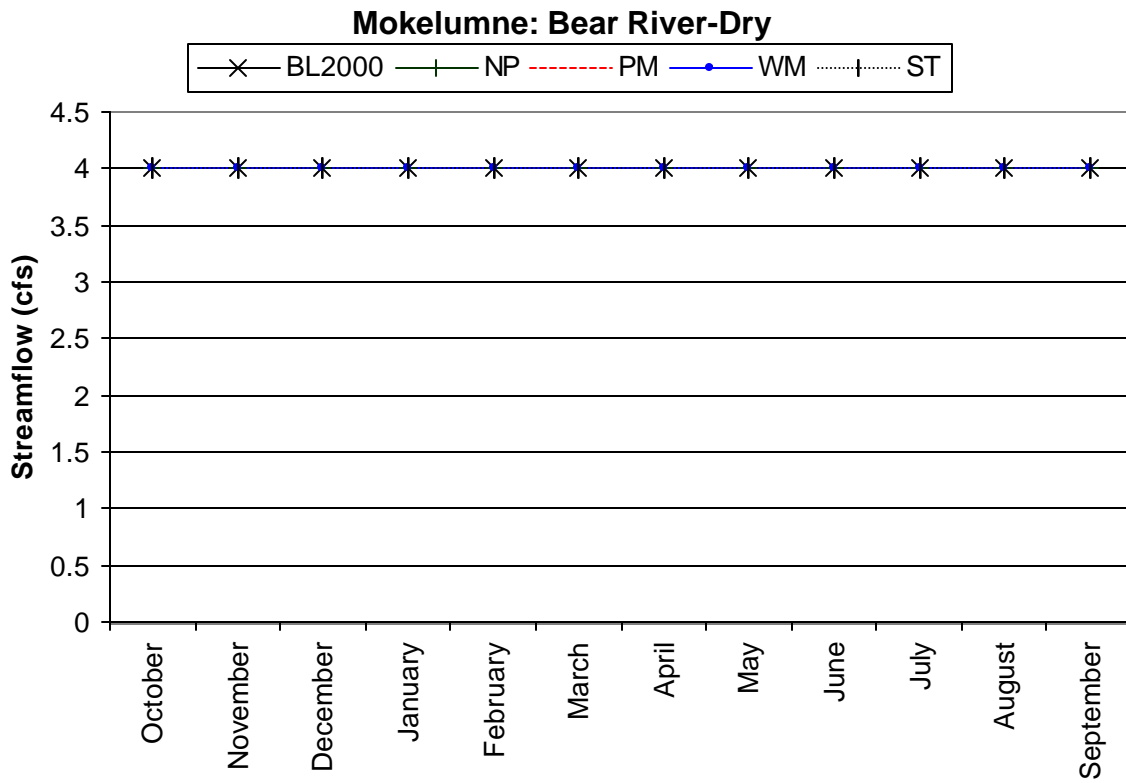
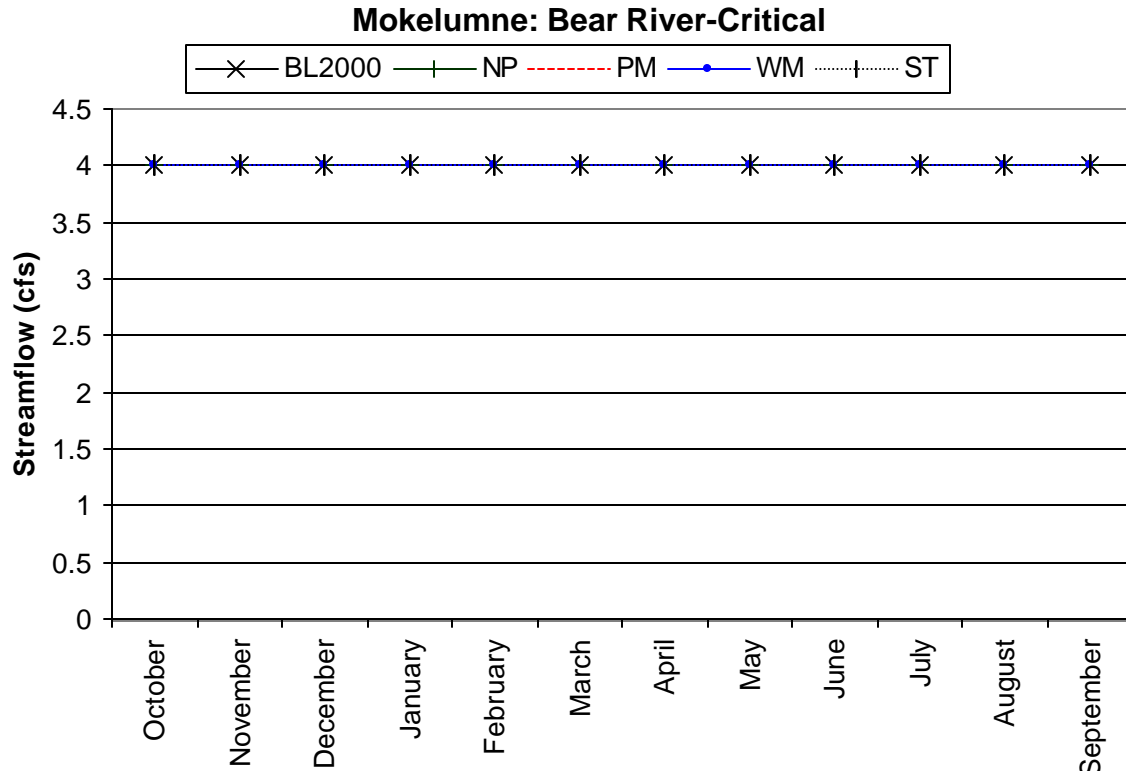
Motherlode: Appendix Figure-2 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water y



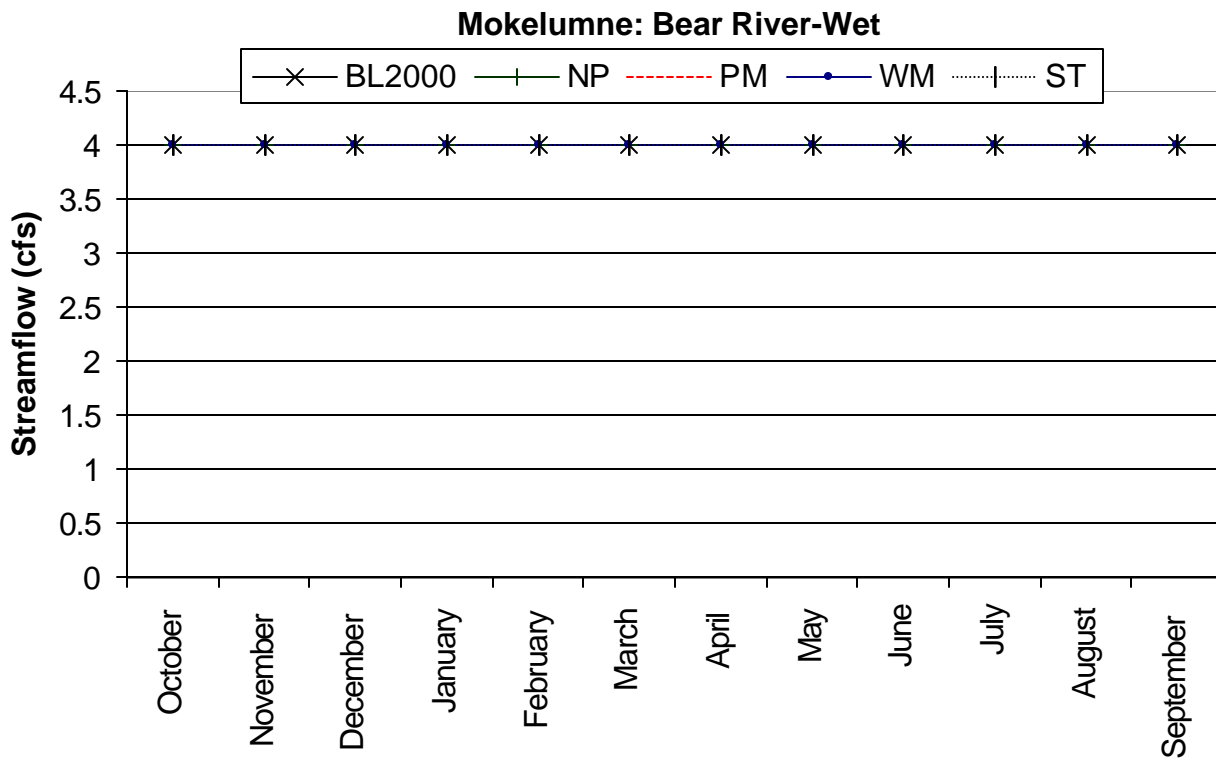
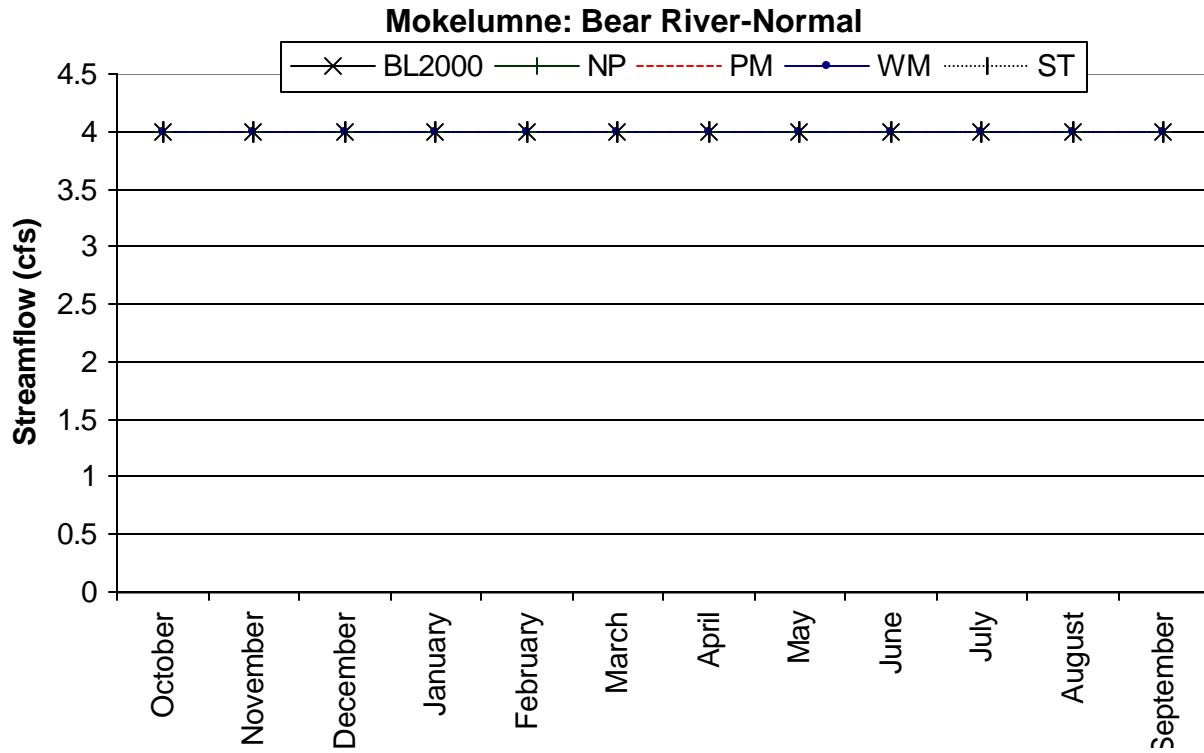
Motherlode: Appendix Figure-3 Modeled mean monthly flows in 1977 (top) and 1981 (bottom) water year



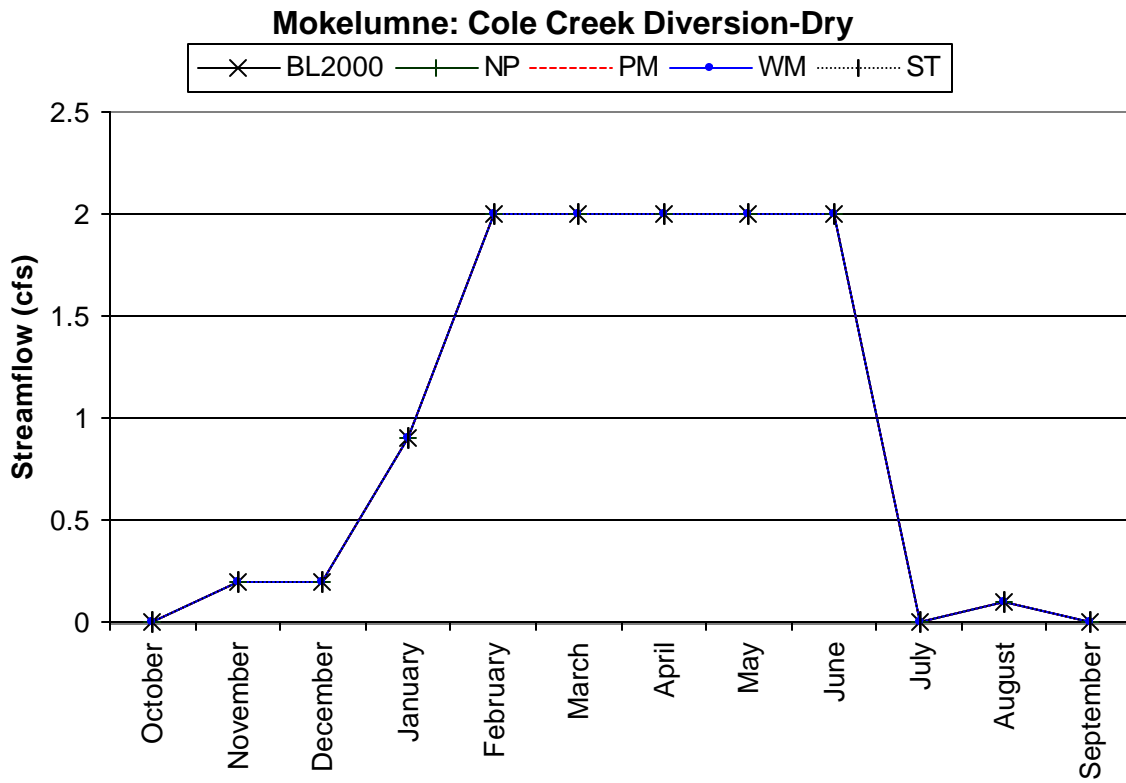
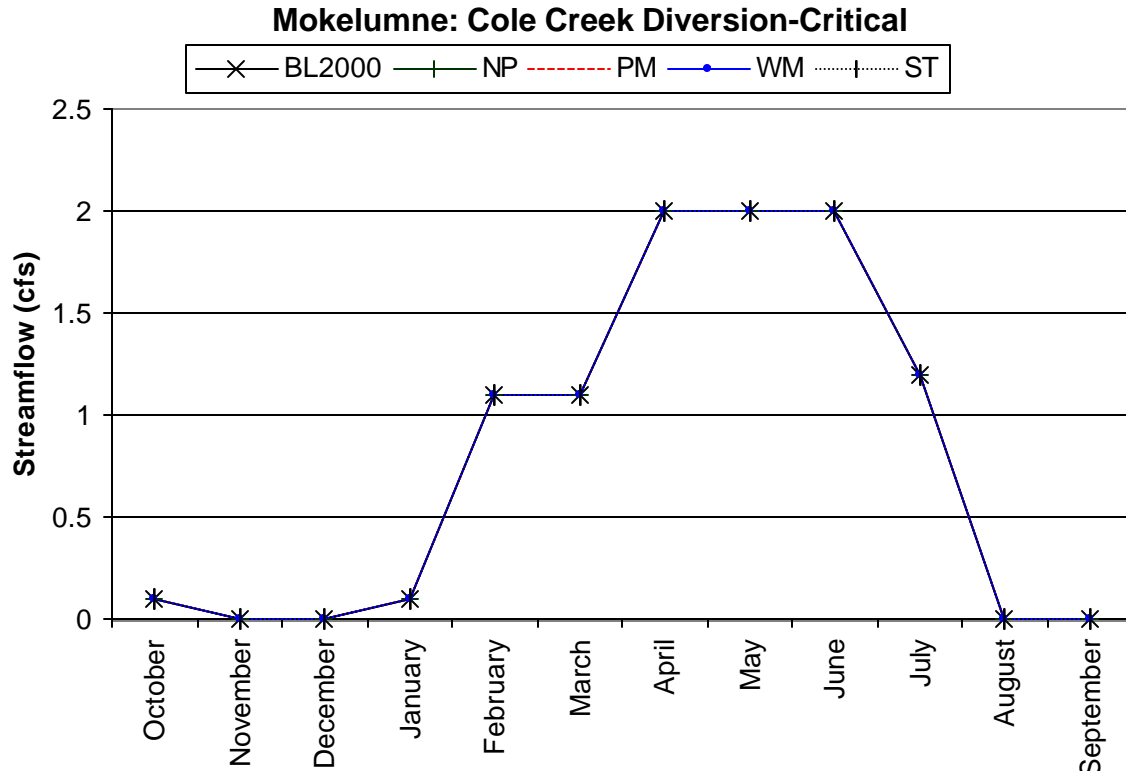
Motherlode: Appendix Figure-4 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water y



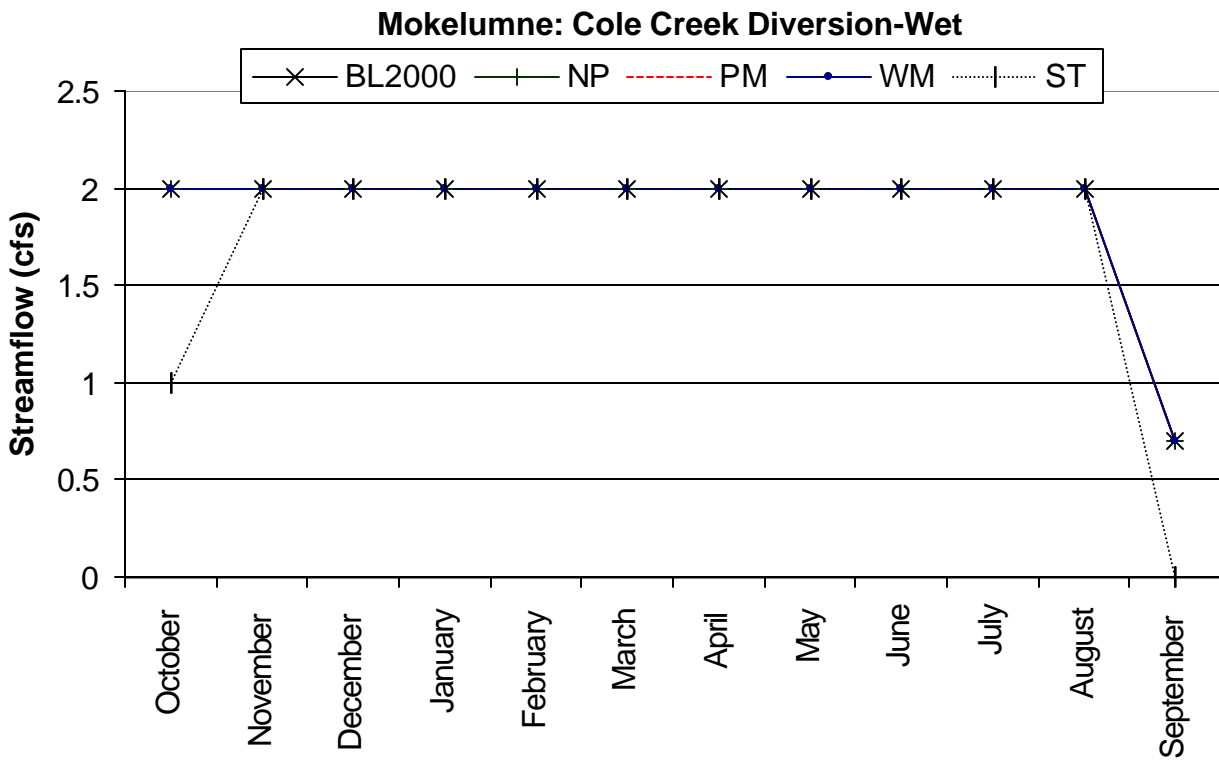
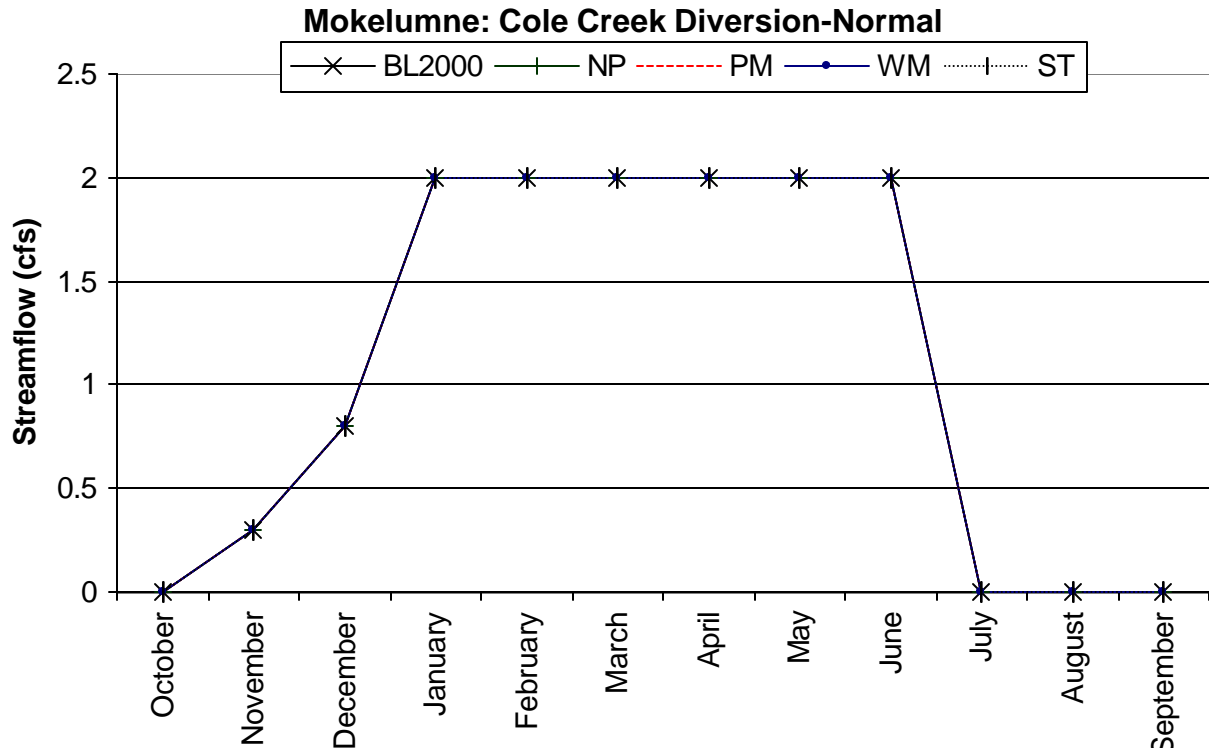
Motherlode: Appendix Figure-5 Modeled mean monthly flows in 1977 (top) and 1981 (bottom) water year



Motherlode: Appendix Figure-6 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water y

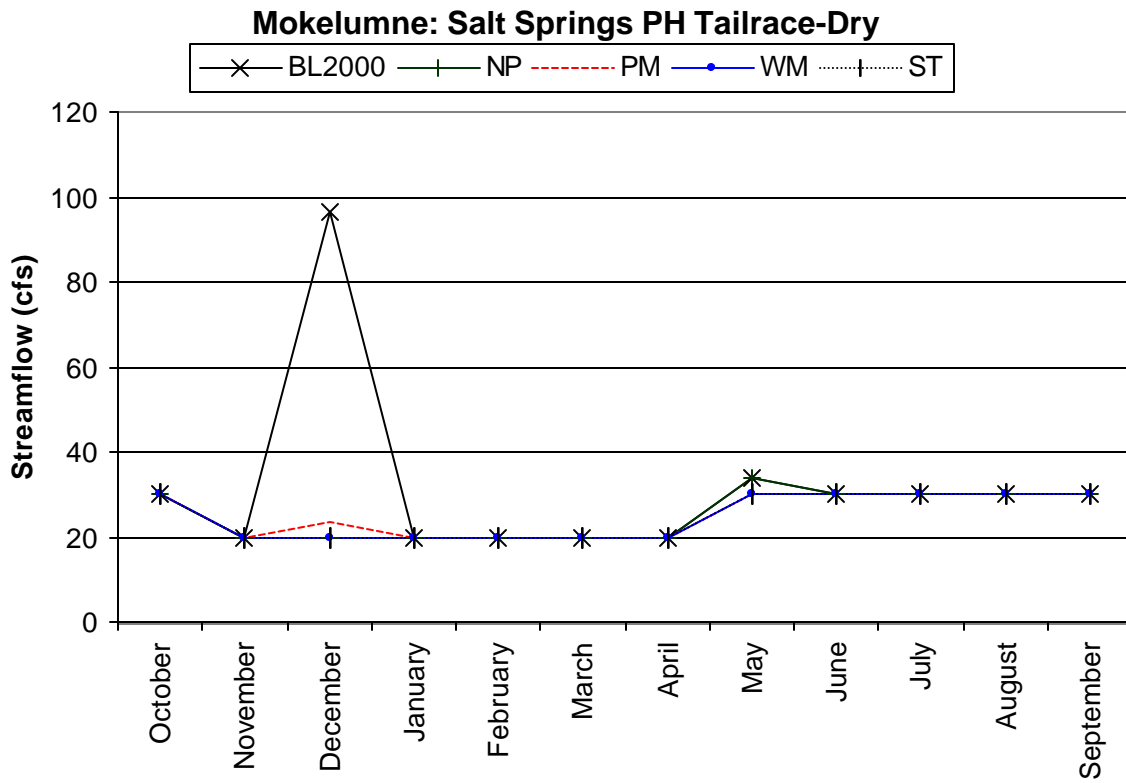
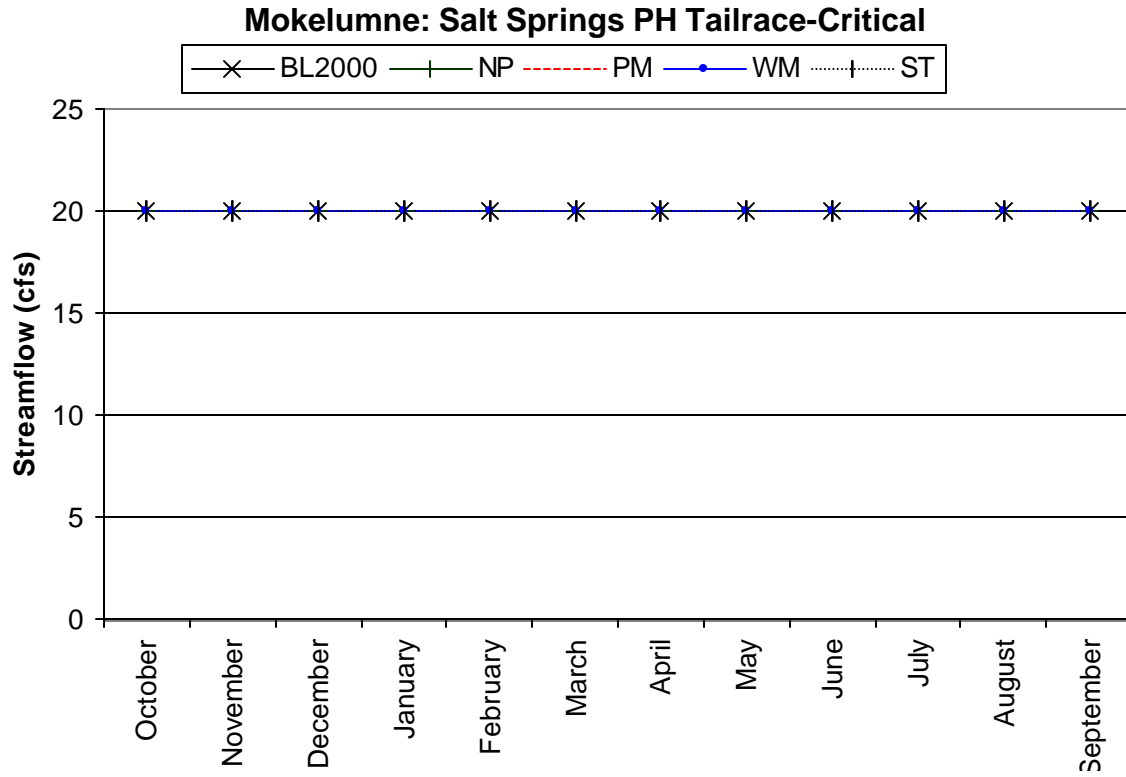


Motherlode: Appendix Figure-7 Modeled mean monthly flows in 1977 (top) and 1981 (bottom) water year

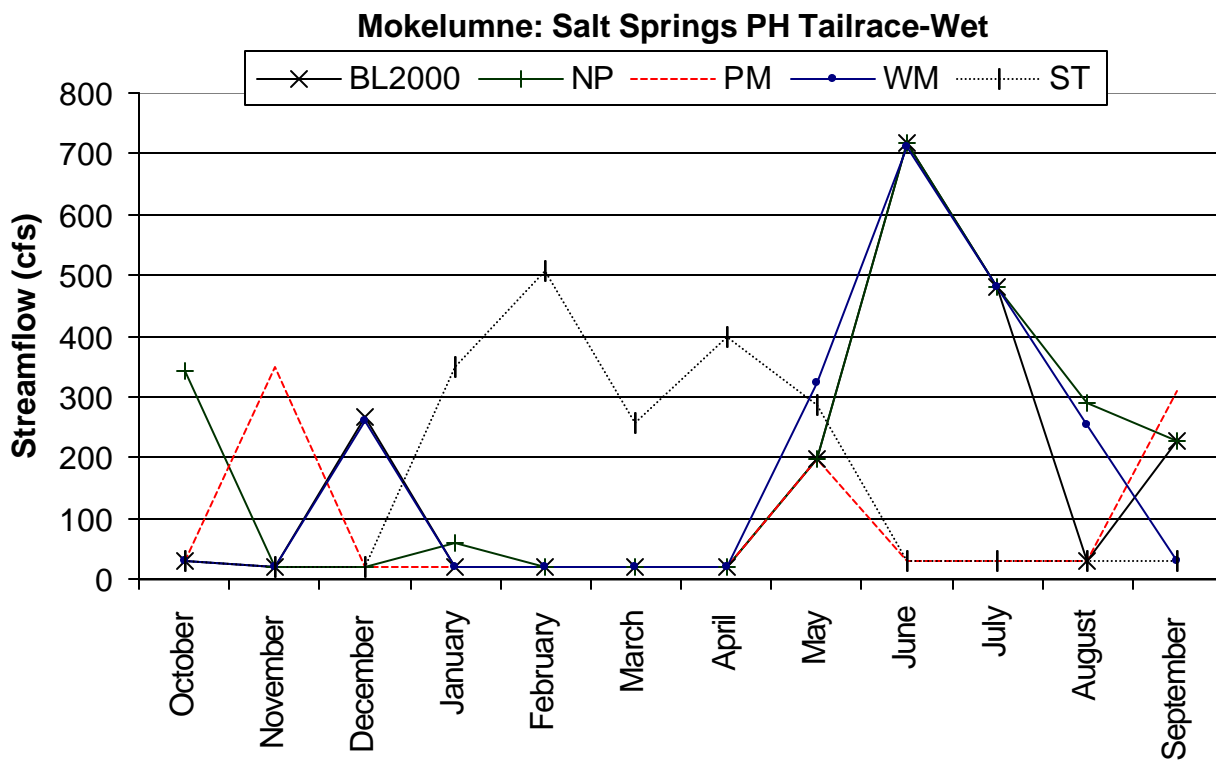
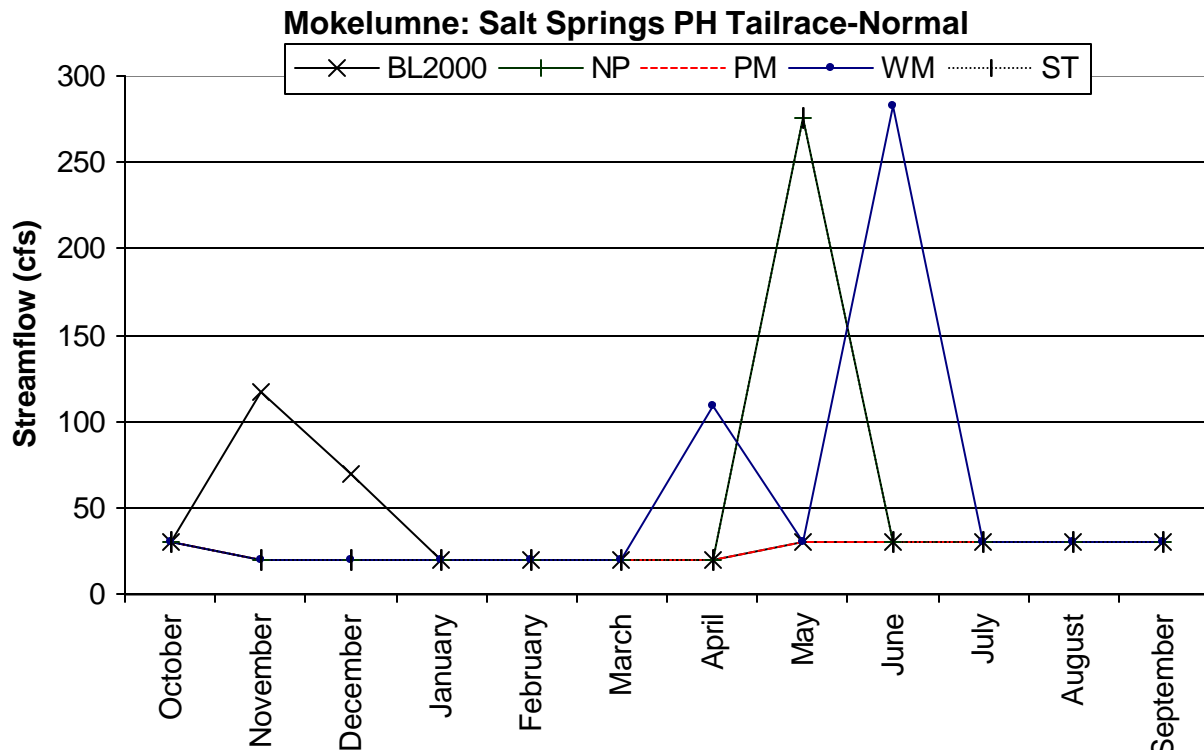


Motherlode: Appendix Figure-8 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water y

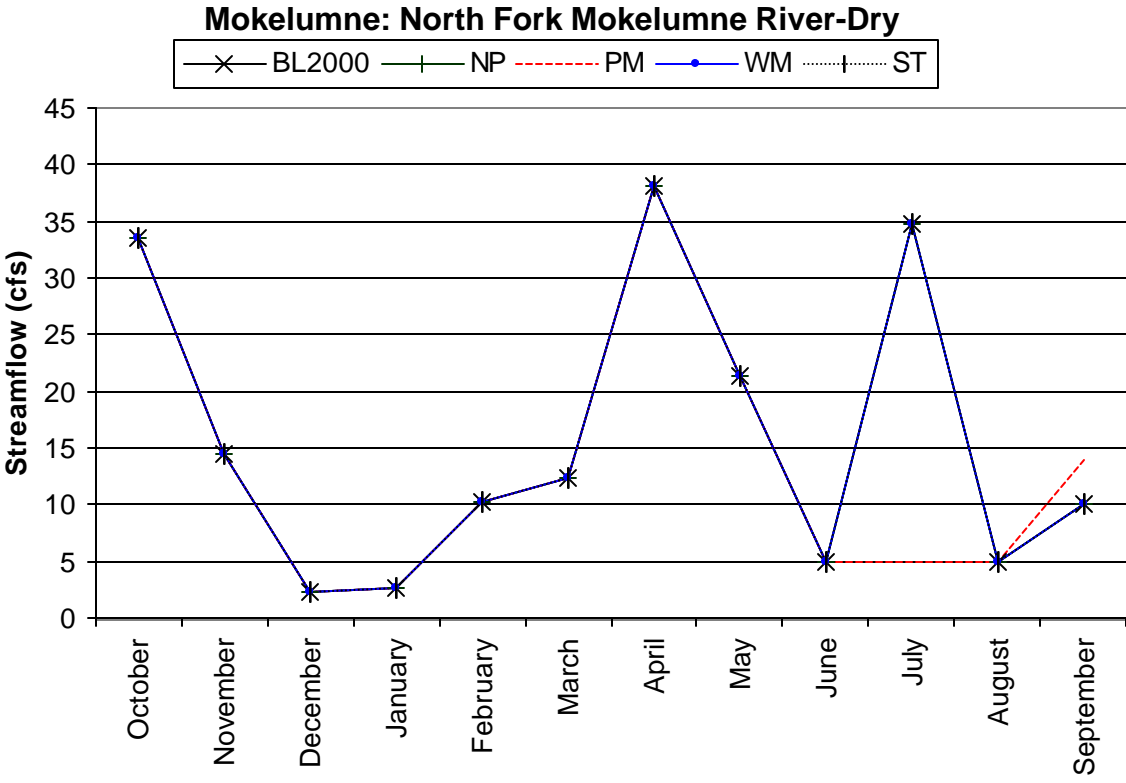
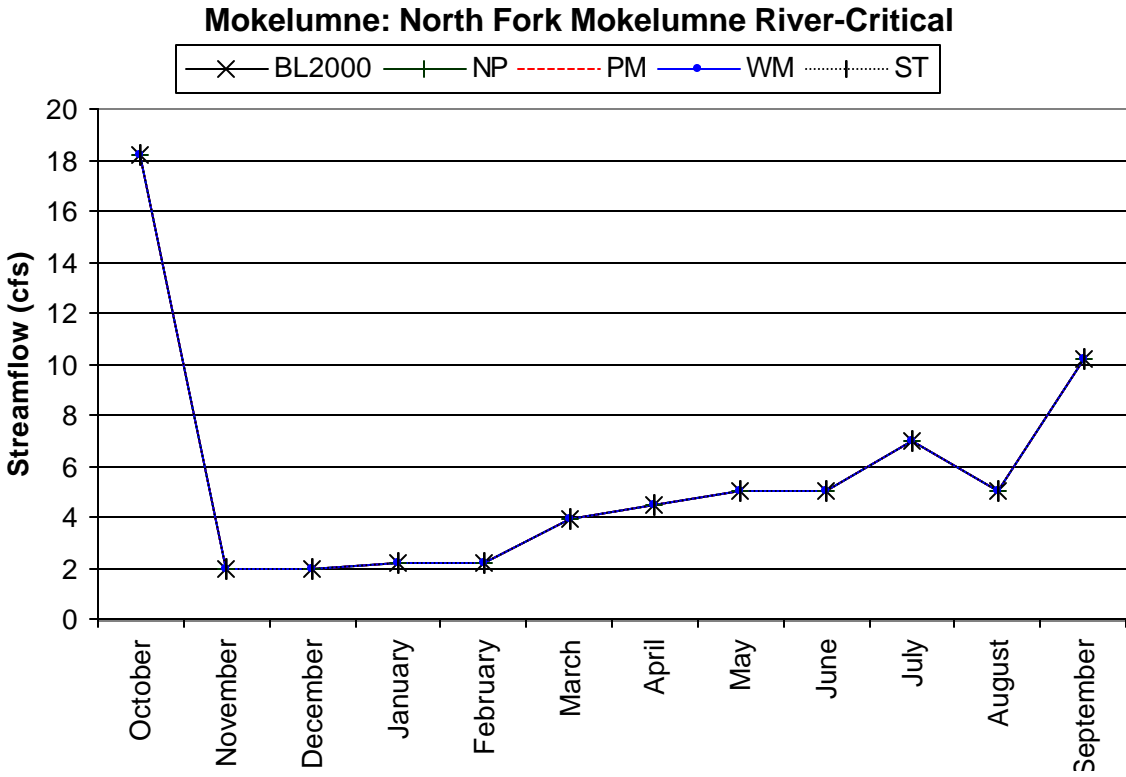




Motherlode: Appendix Figure-9 Modeled mean monthly flows in 1977 (top) and 1981 (bottom) water year

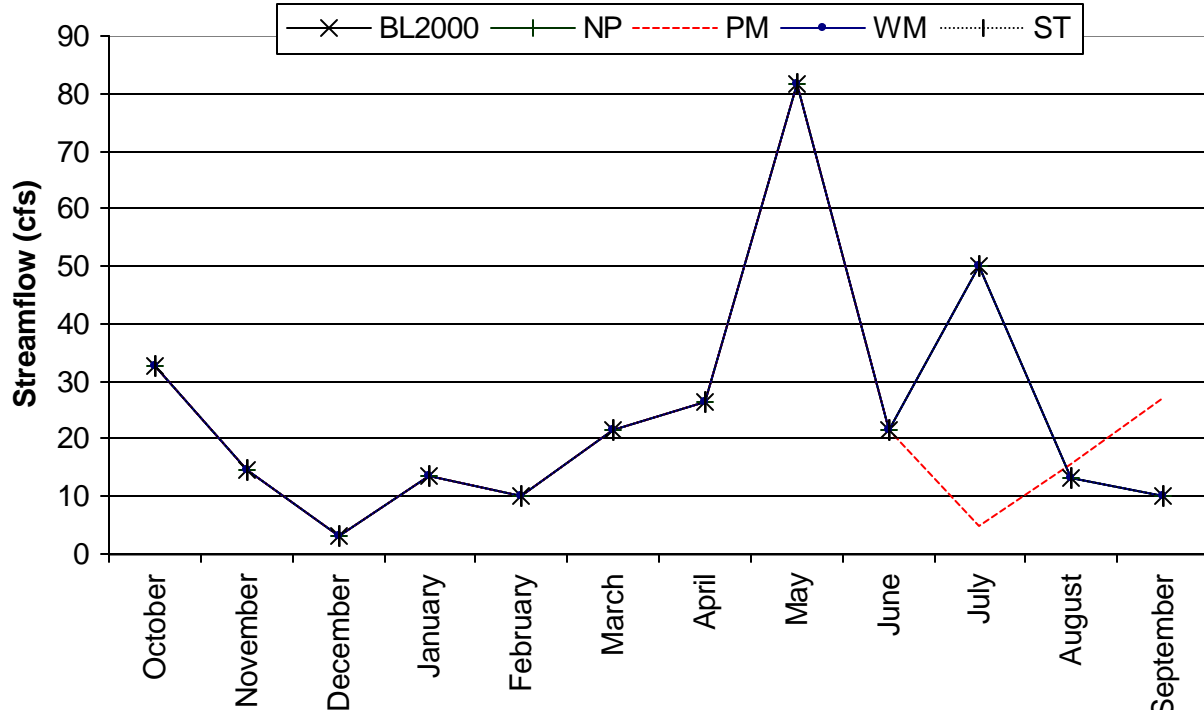


Motherlode: Appendix Figure-10 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water

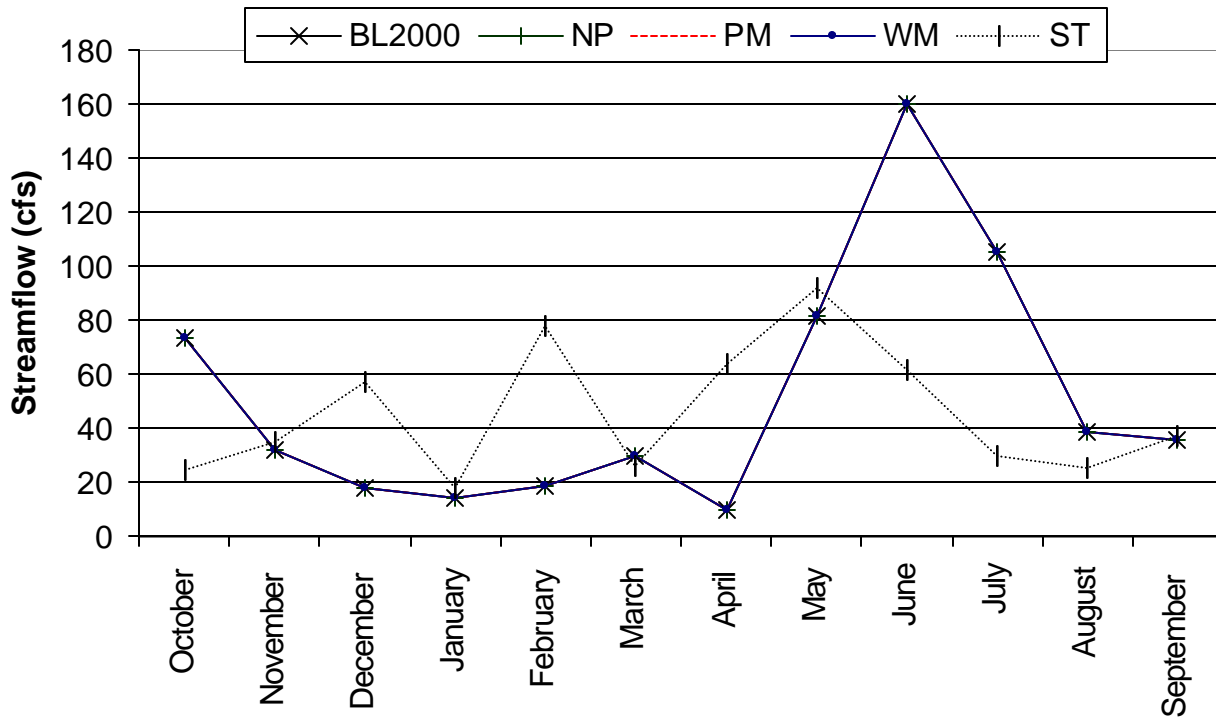


Motherlode: Appendix Figure-11 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :

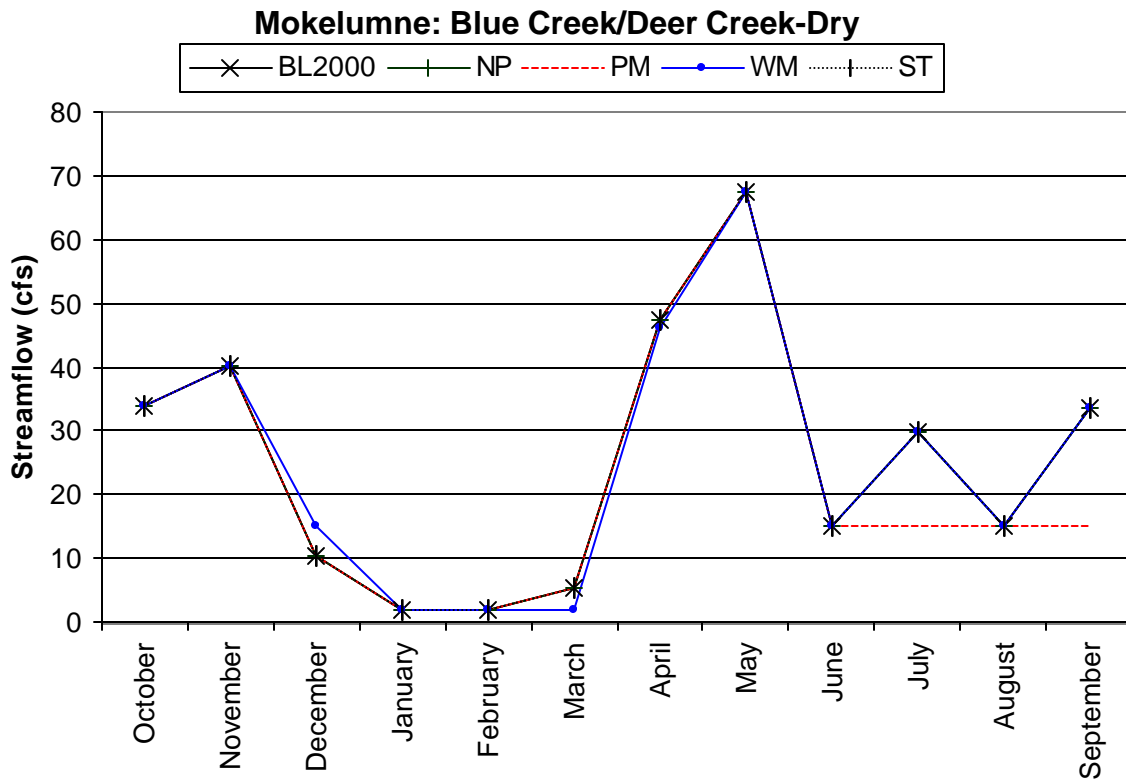
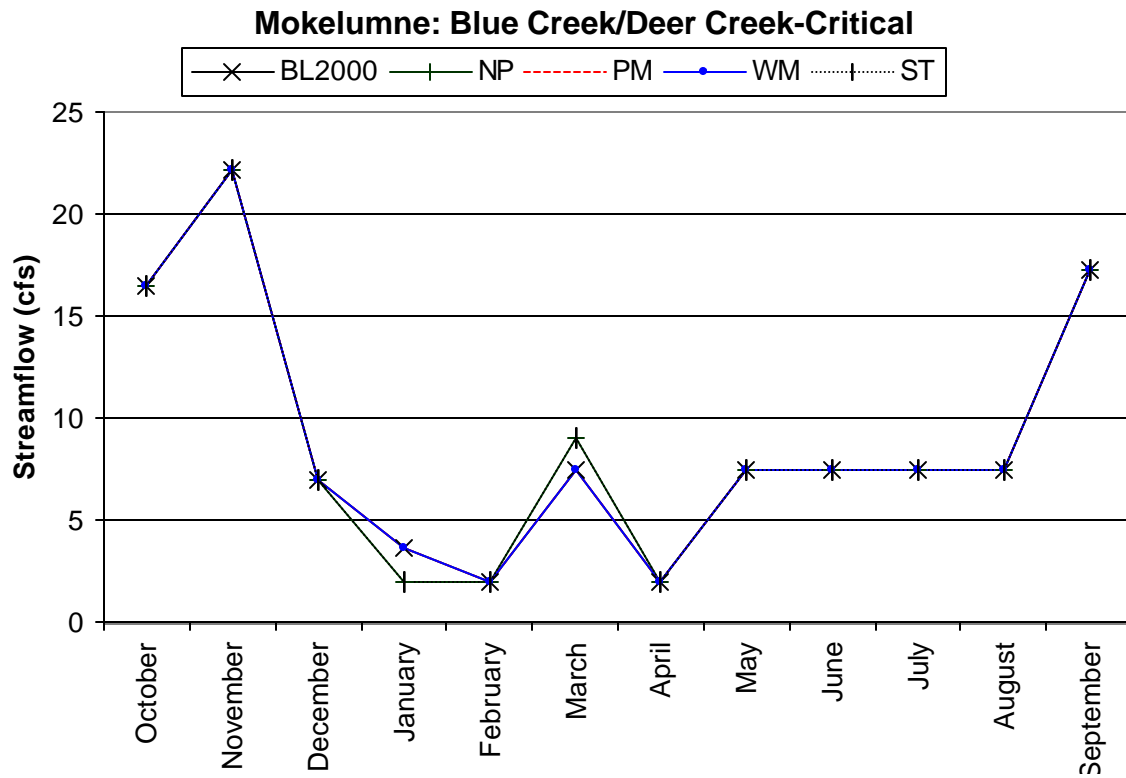
**Mokelumne: North Fork Mokelumne River-Normal**



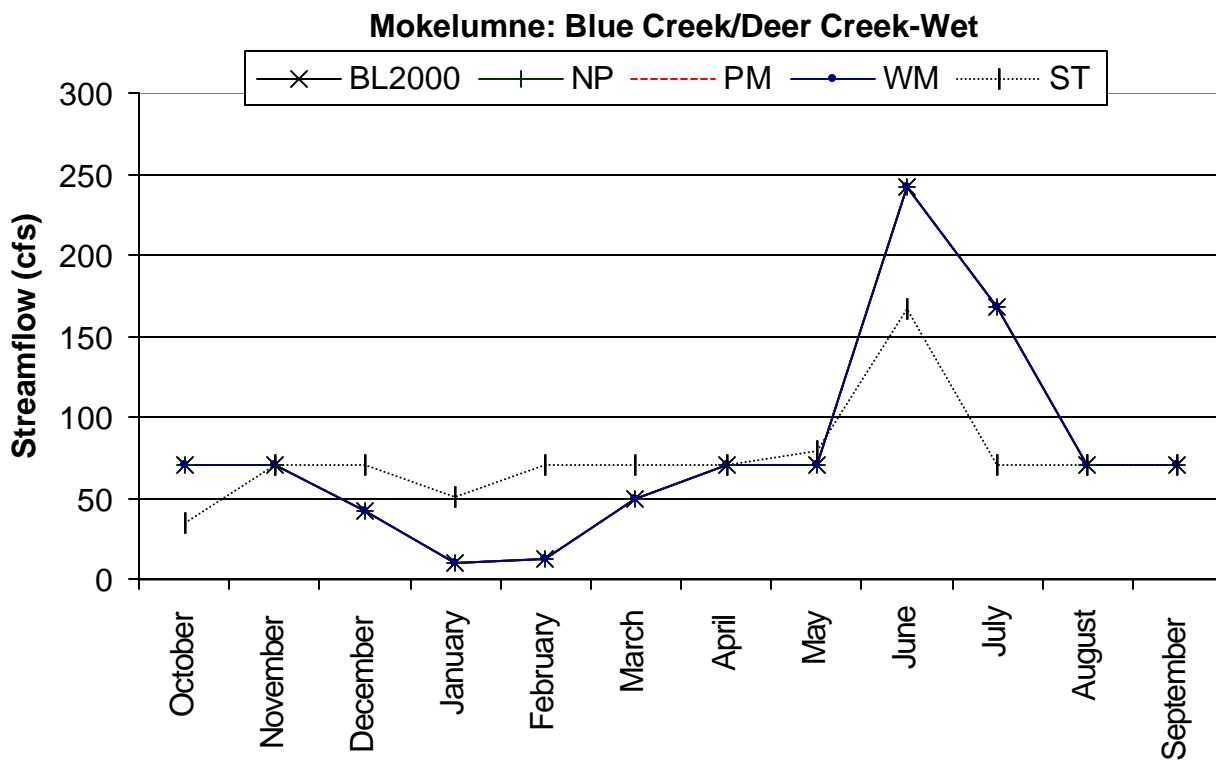
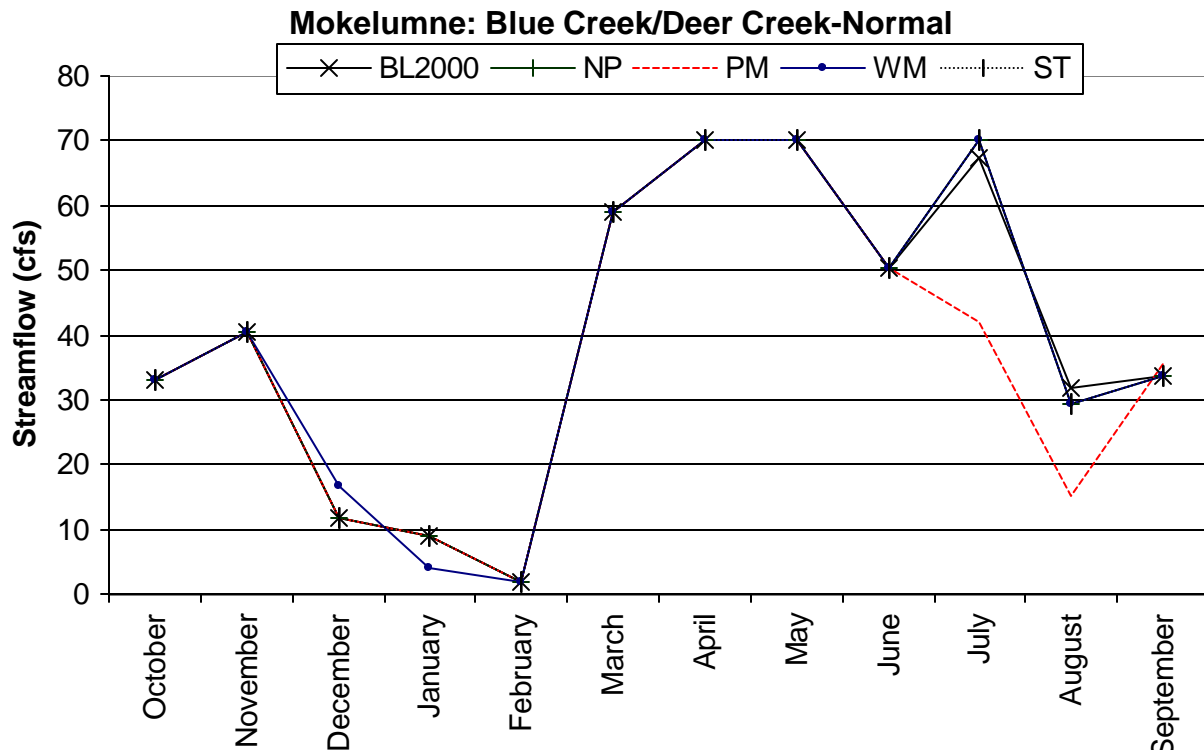
**Mokelumne: North Fork Mokelumne River-Wet**



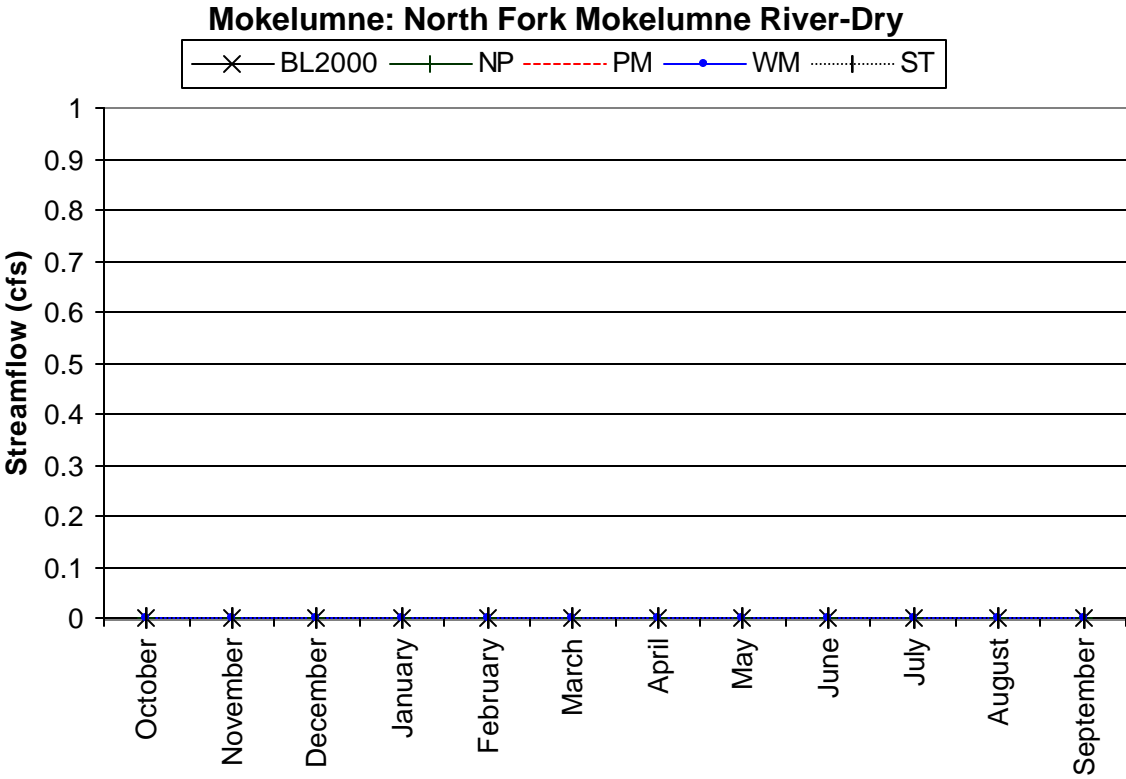
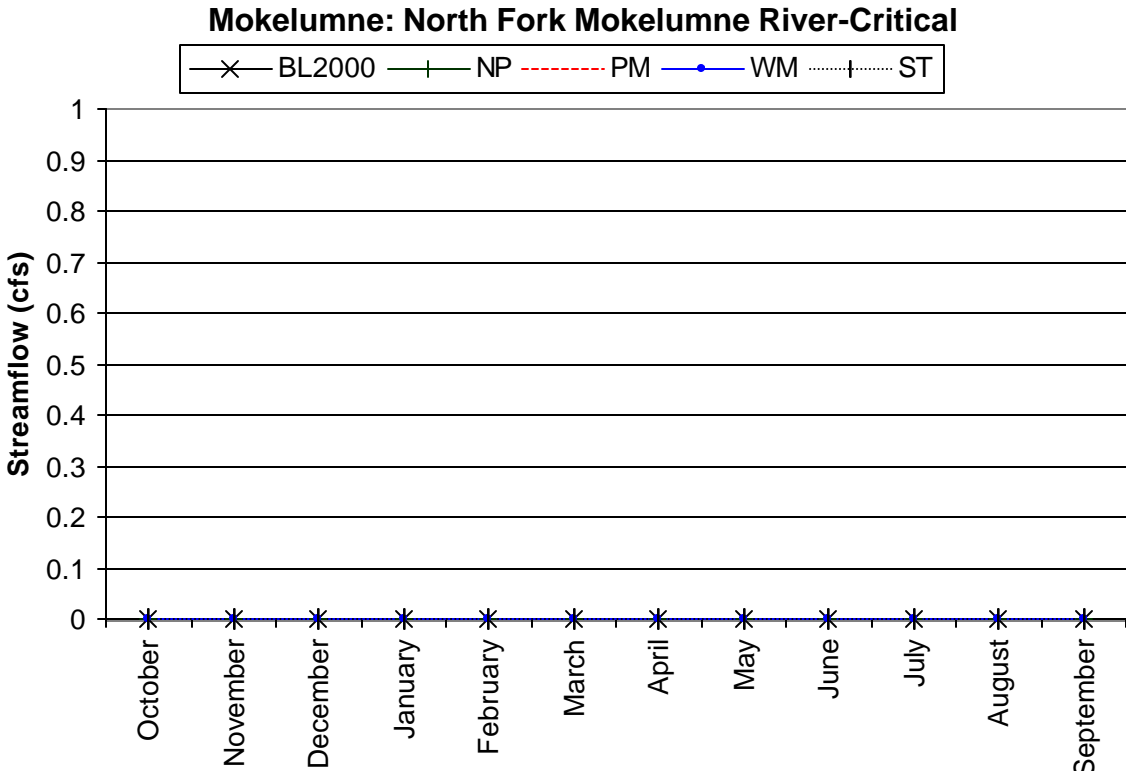
Motherlode: Appendix Figure-12 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water



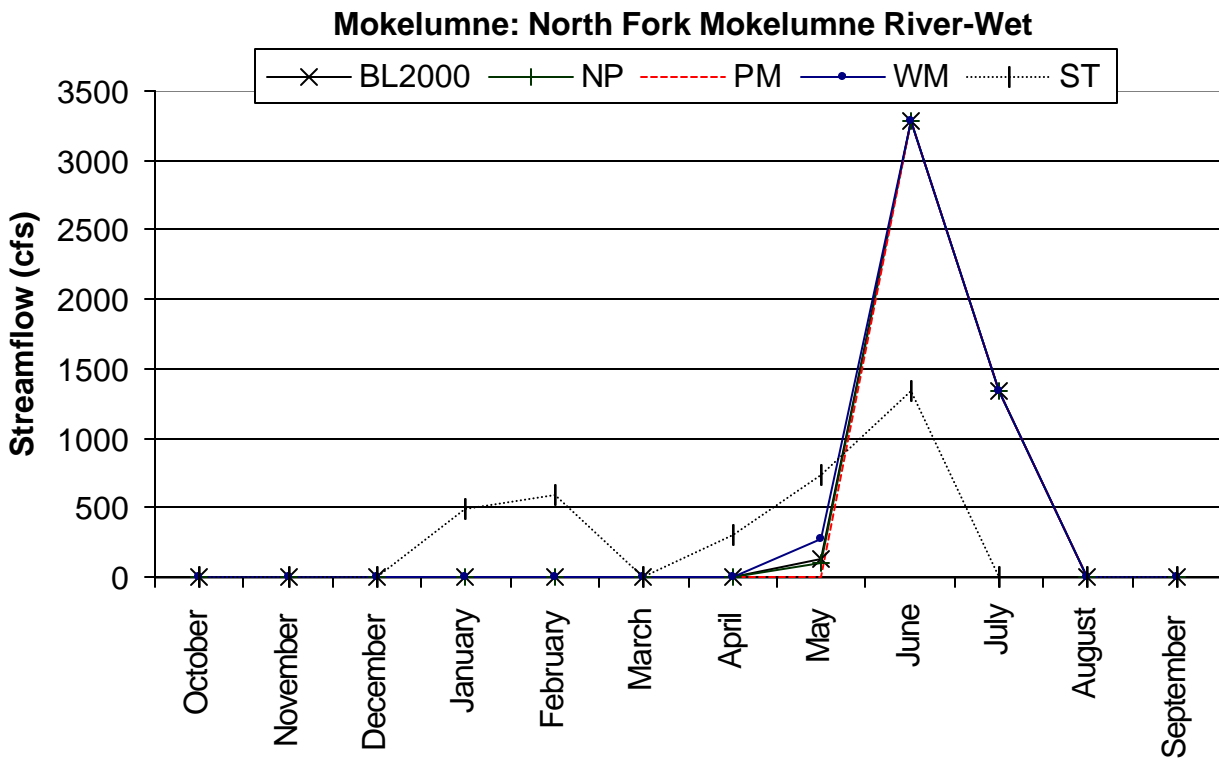
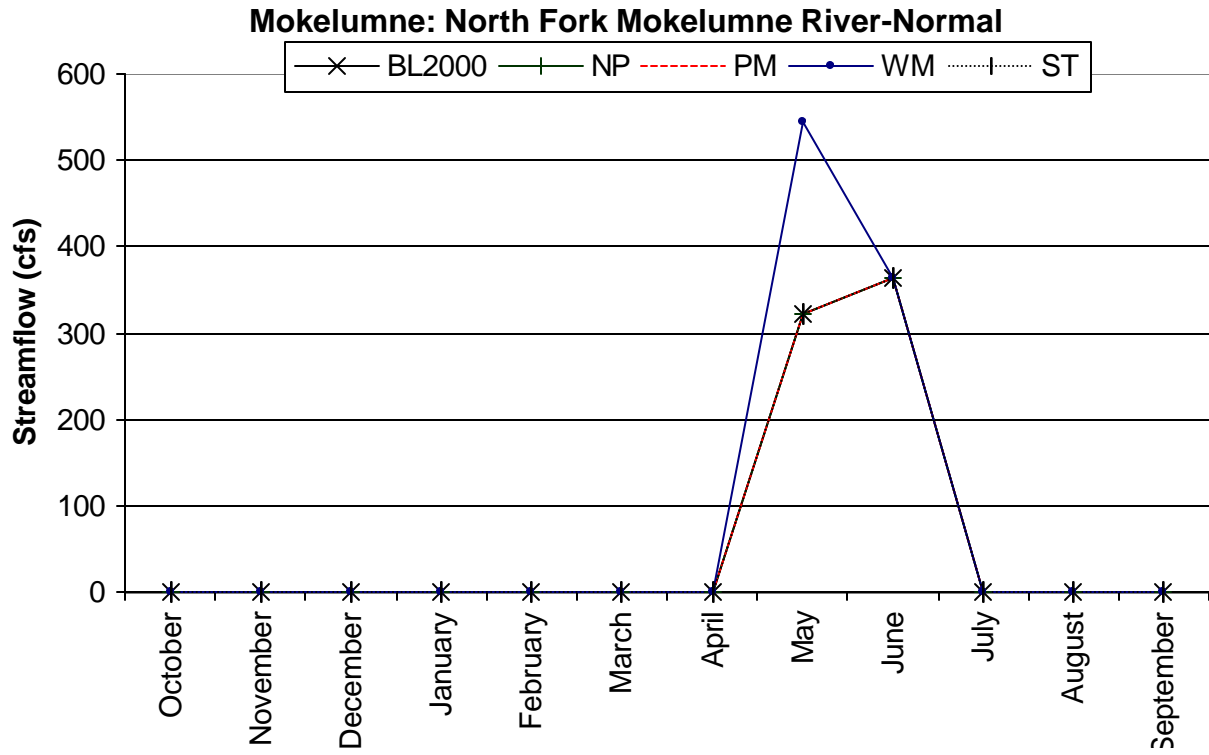
Motherlode: Appendix Figure-13 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water



Motherlode: Appendix Figure-14 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water

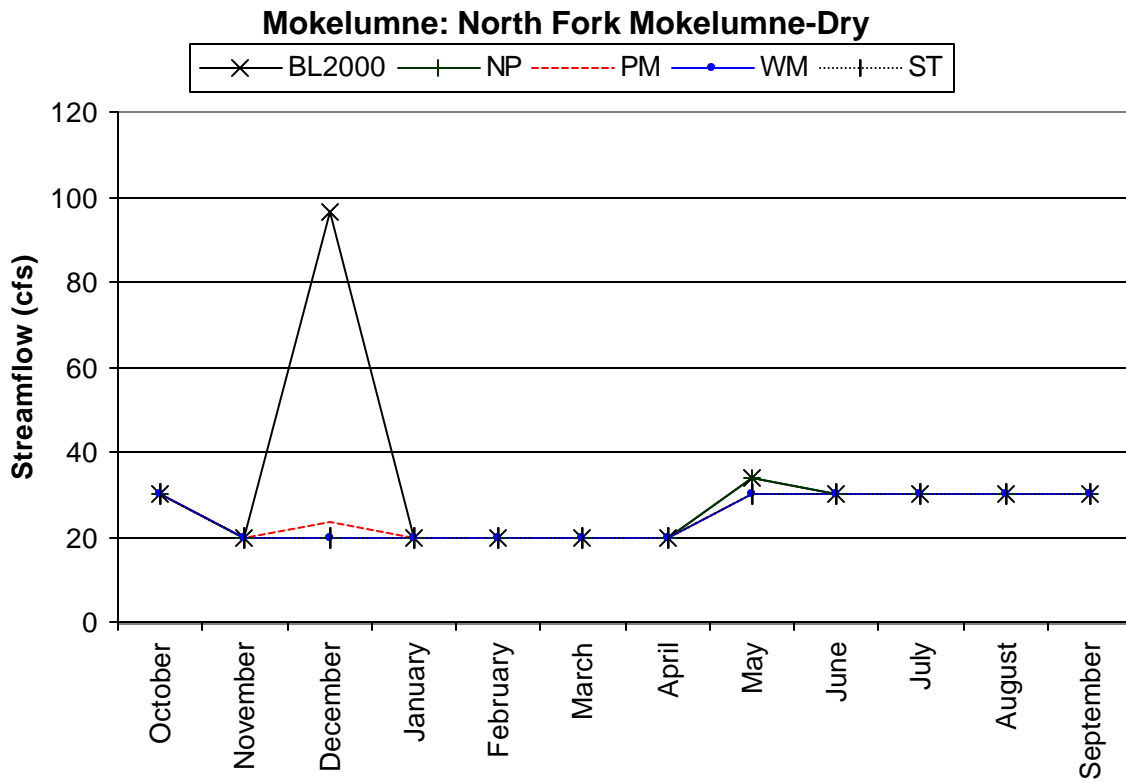
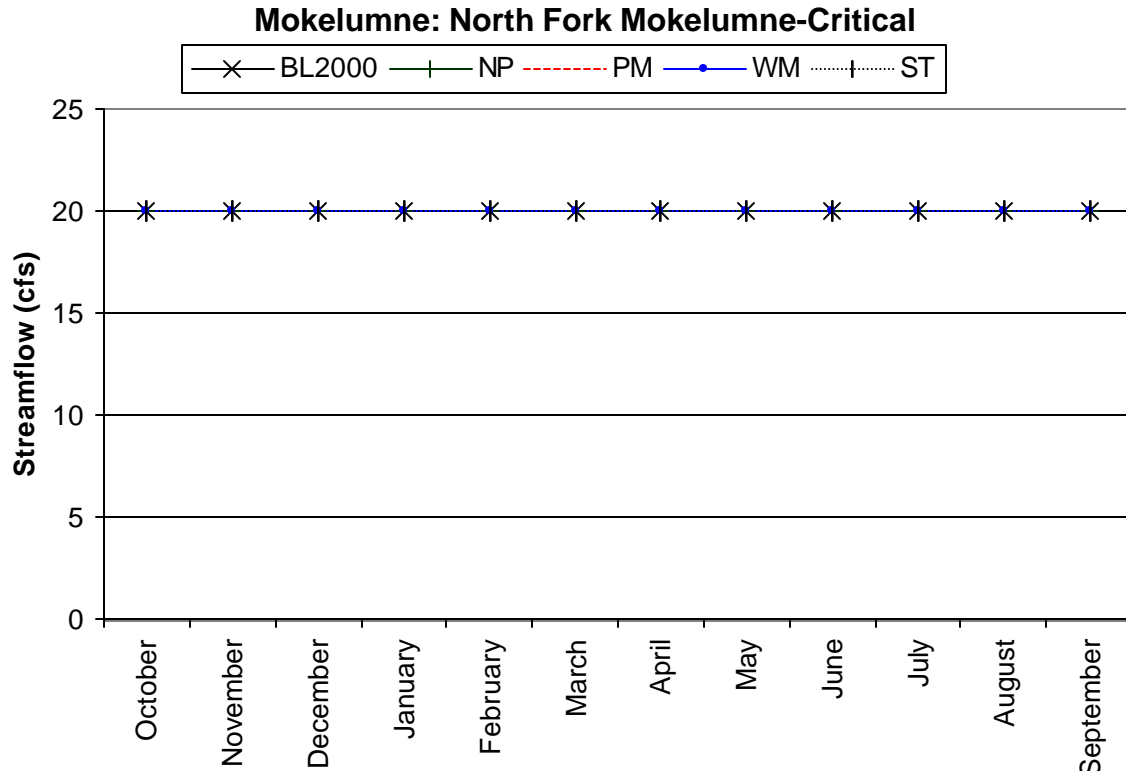


Motherlode: Appendix Figure-15 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :

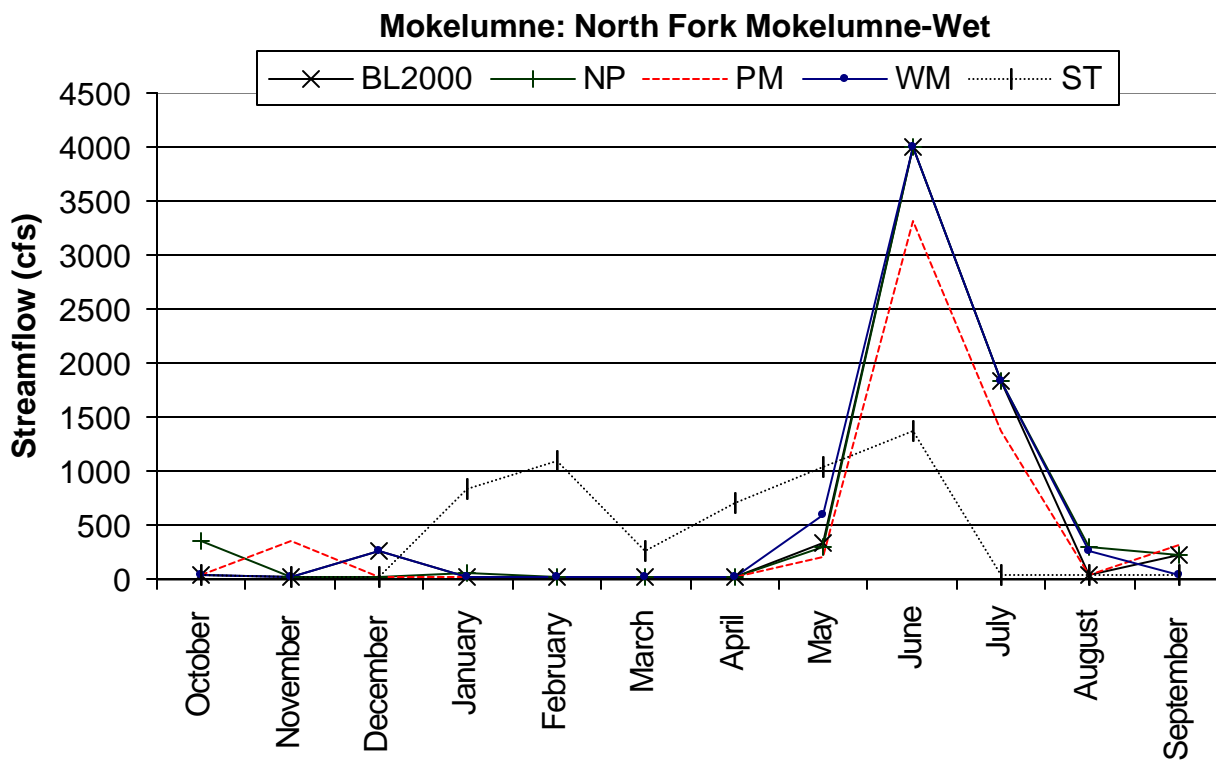
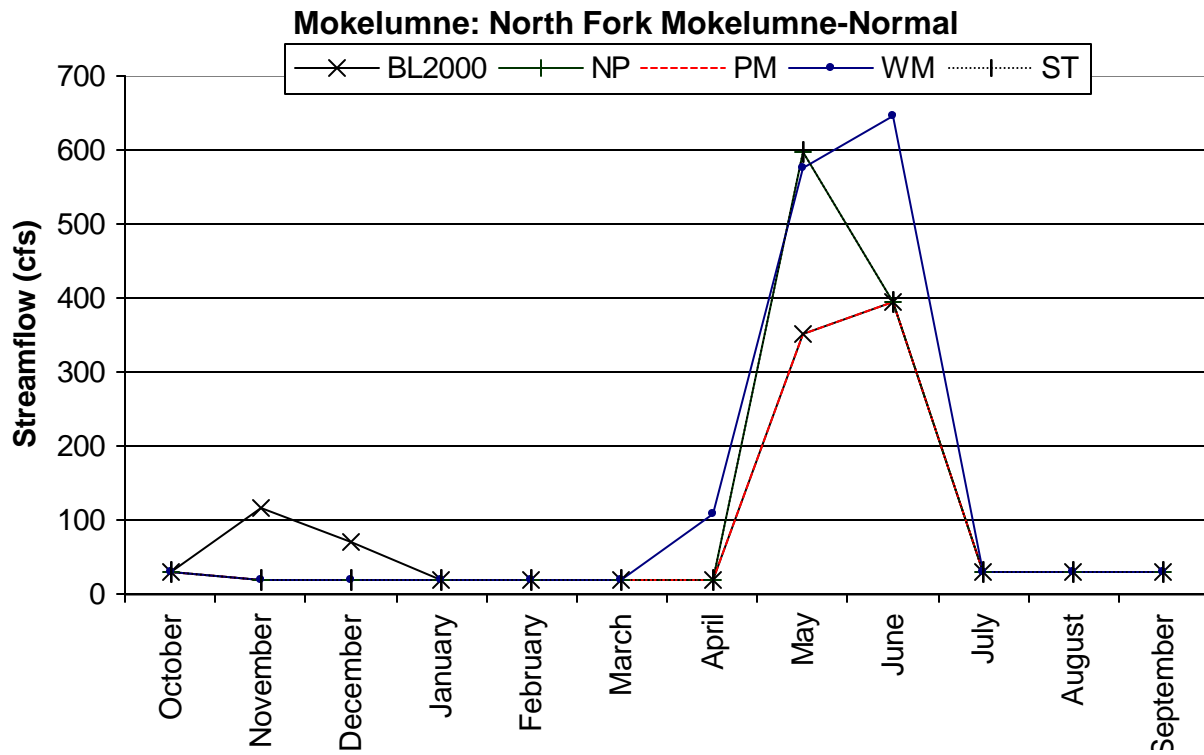


Motherlode: Appendix Figure-16 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water

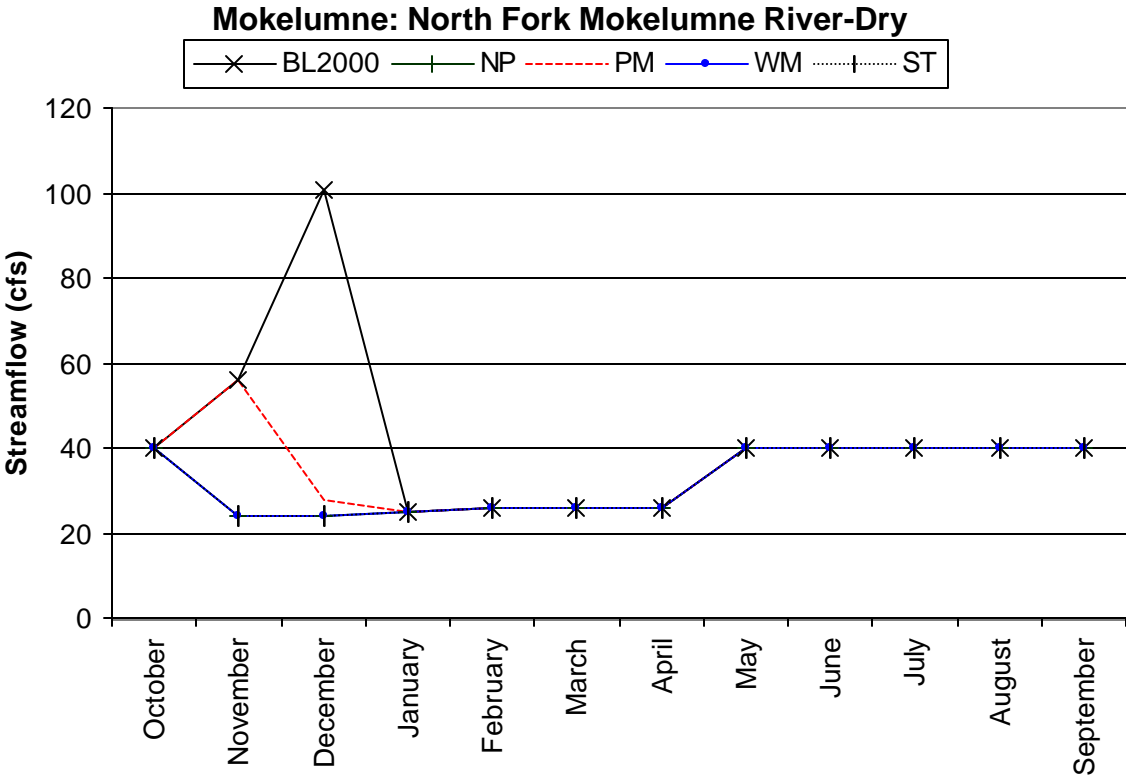
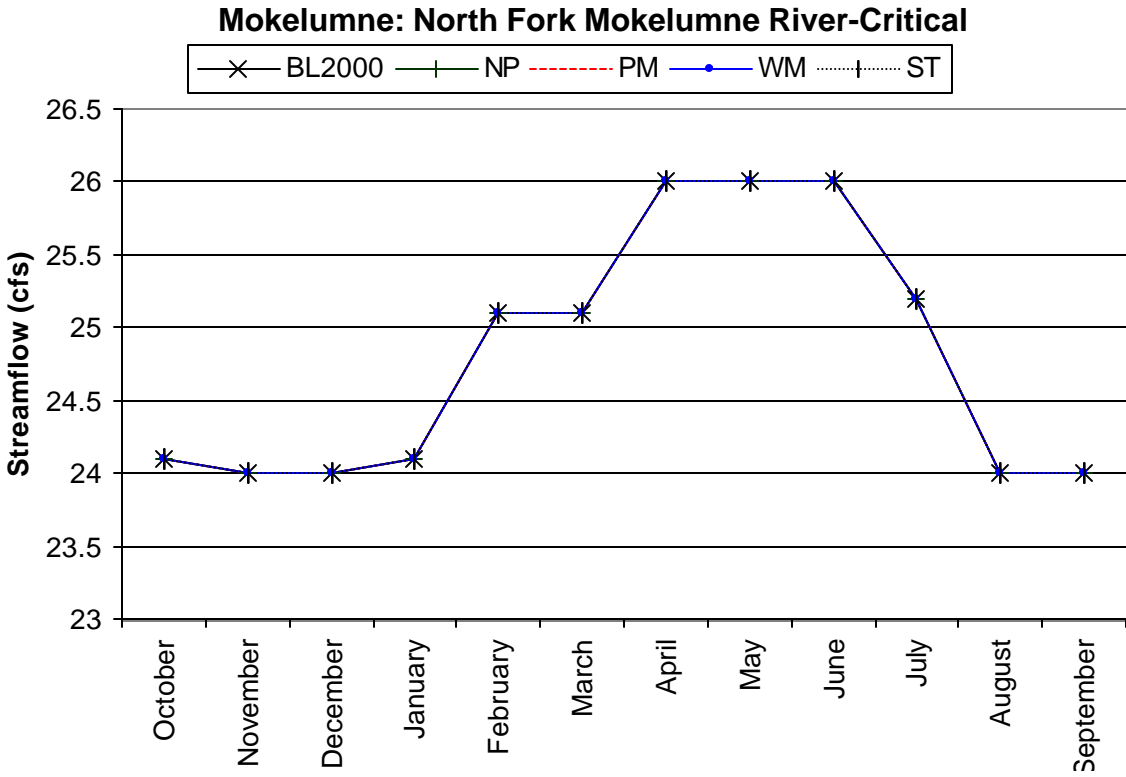




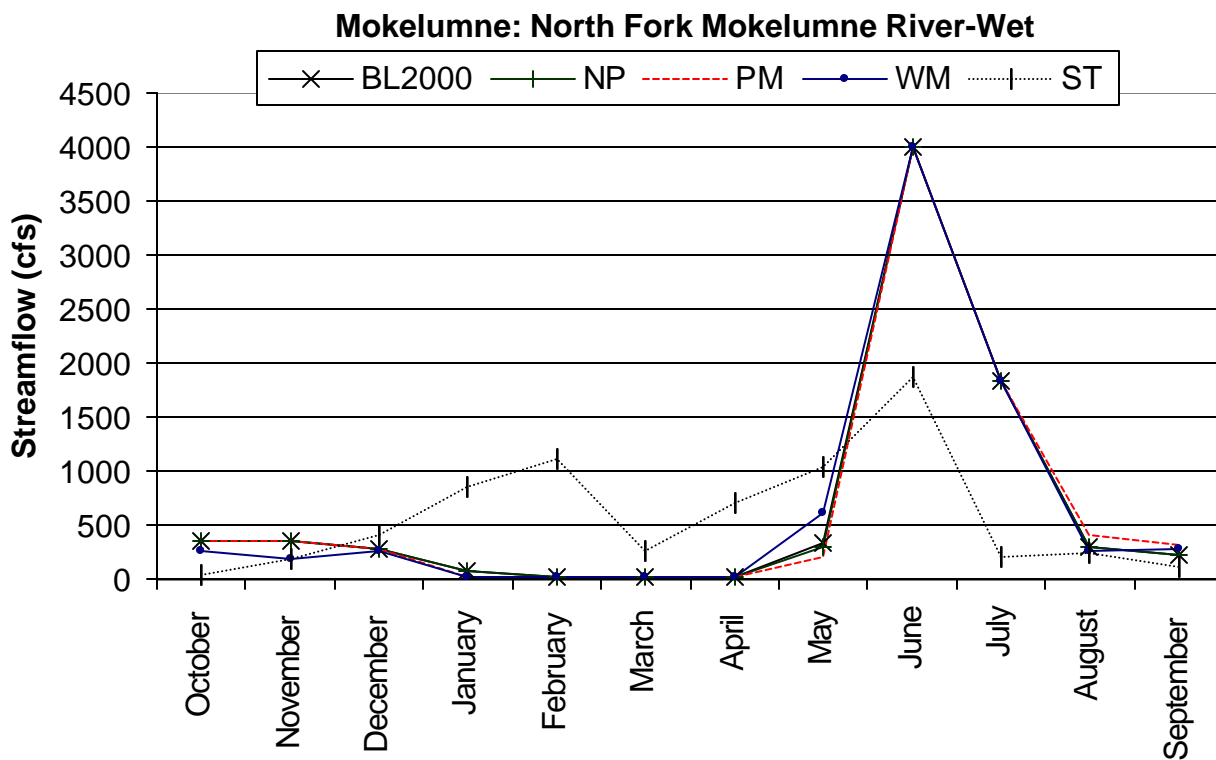
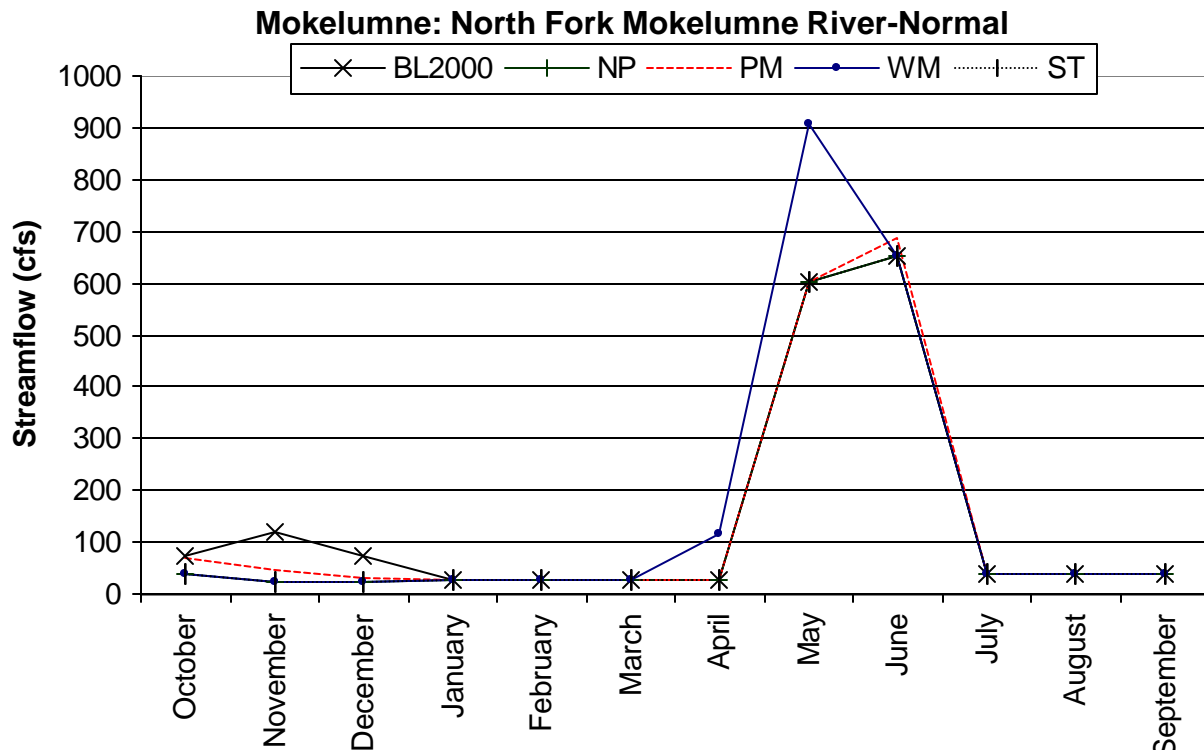
Motherlode: Appendix Figure-17 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :



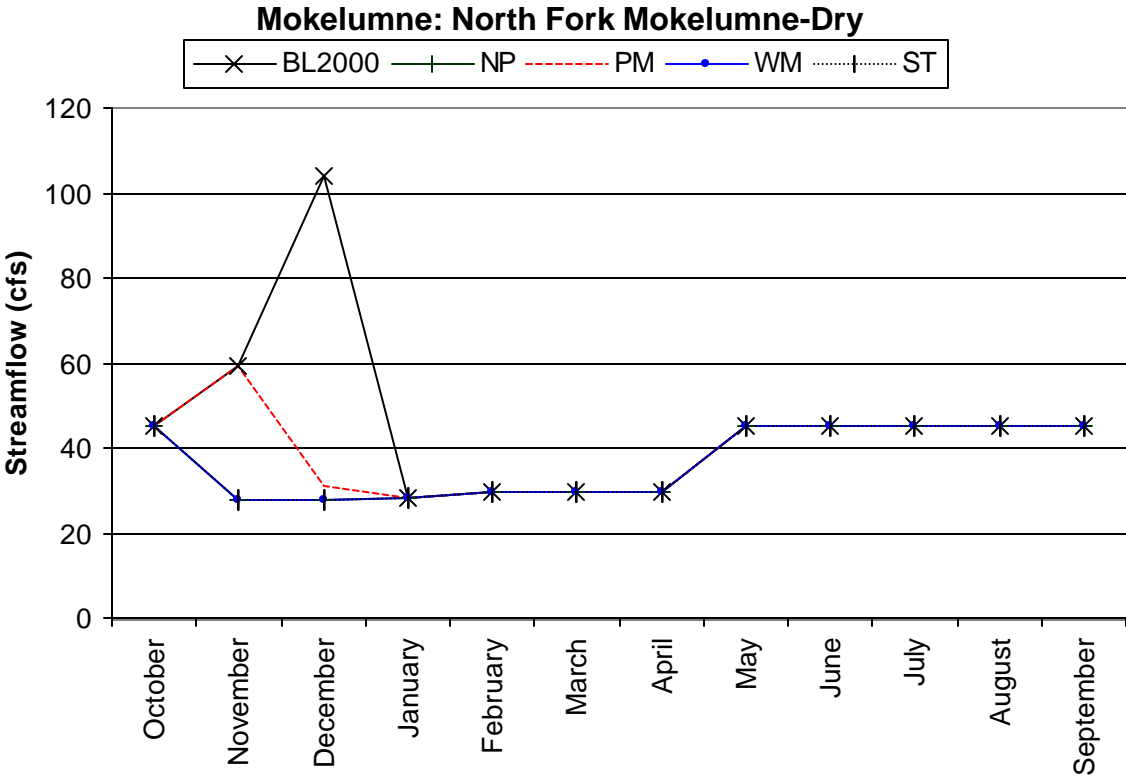
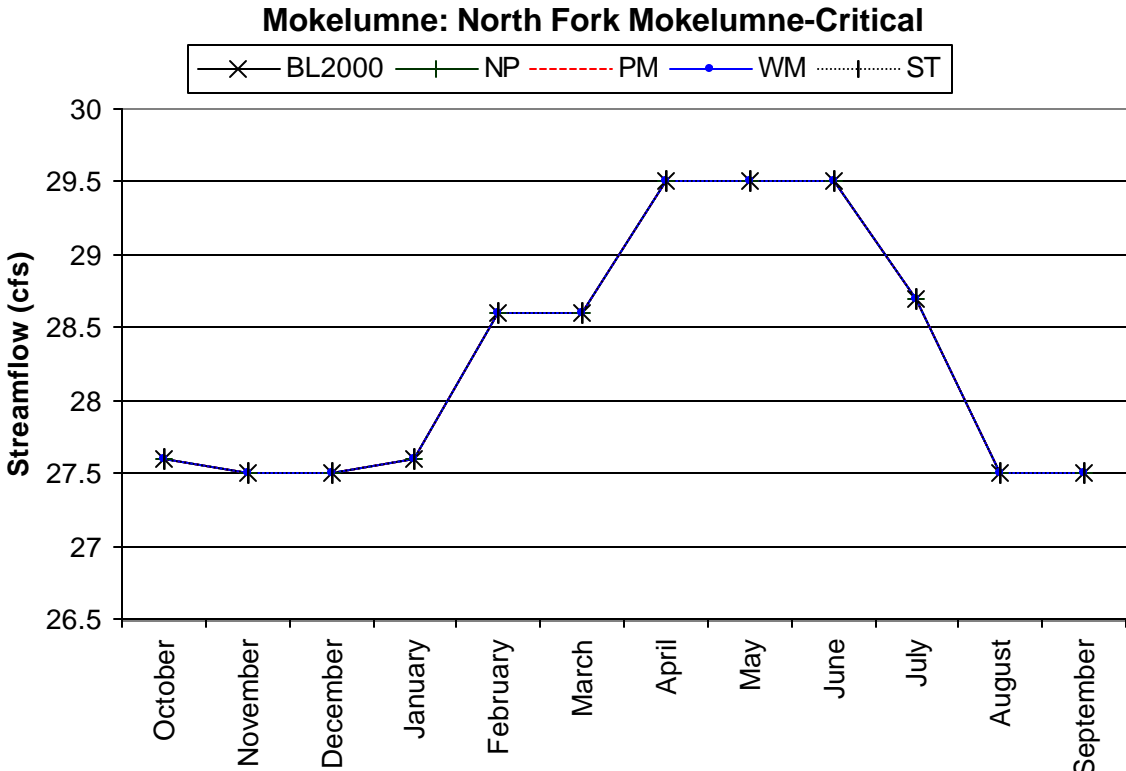
Motherlode: Appendix Figure-18 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water



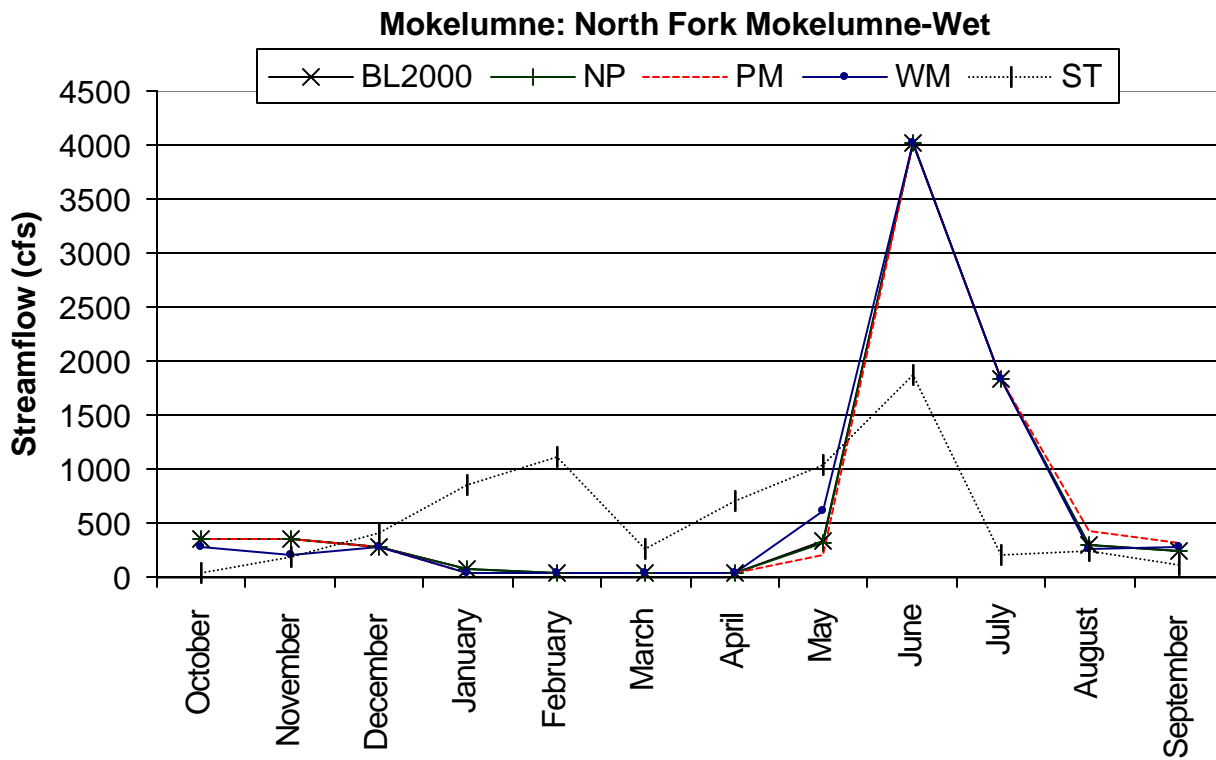
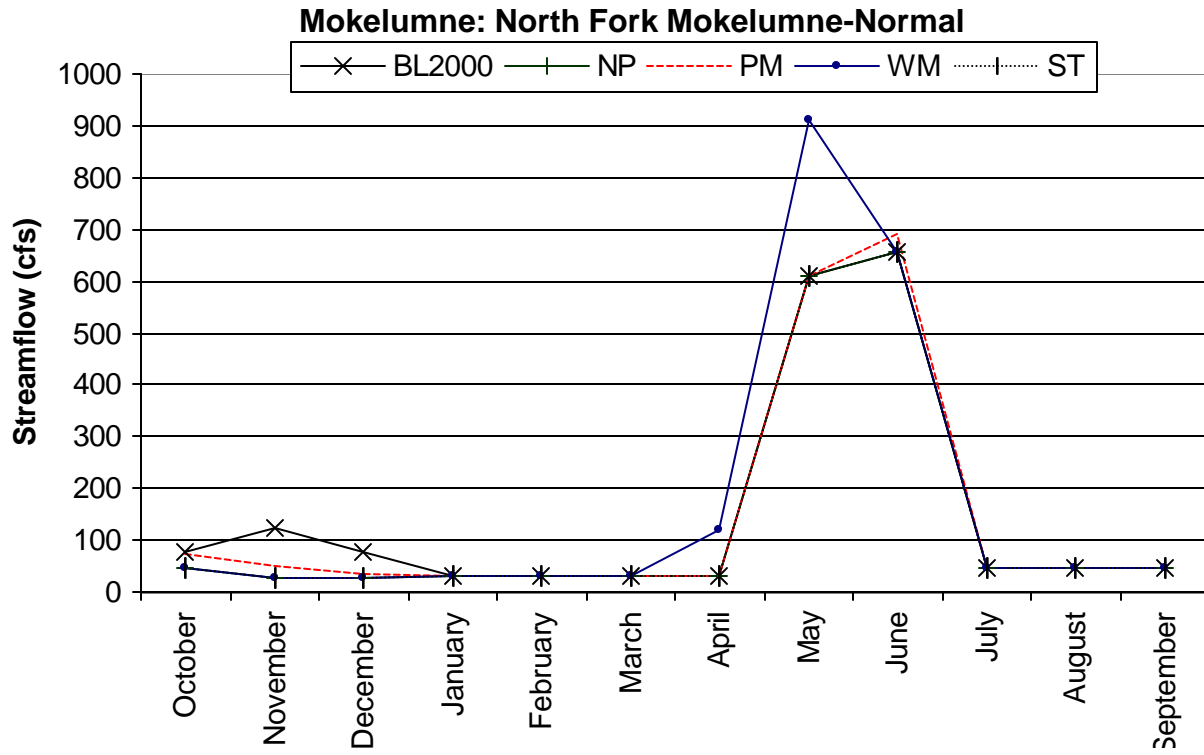
Motherlode: Appendix Figure-19 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :



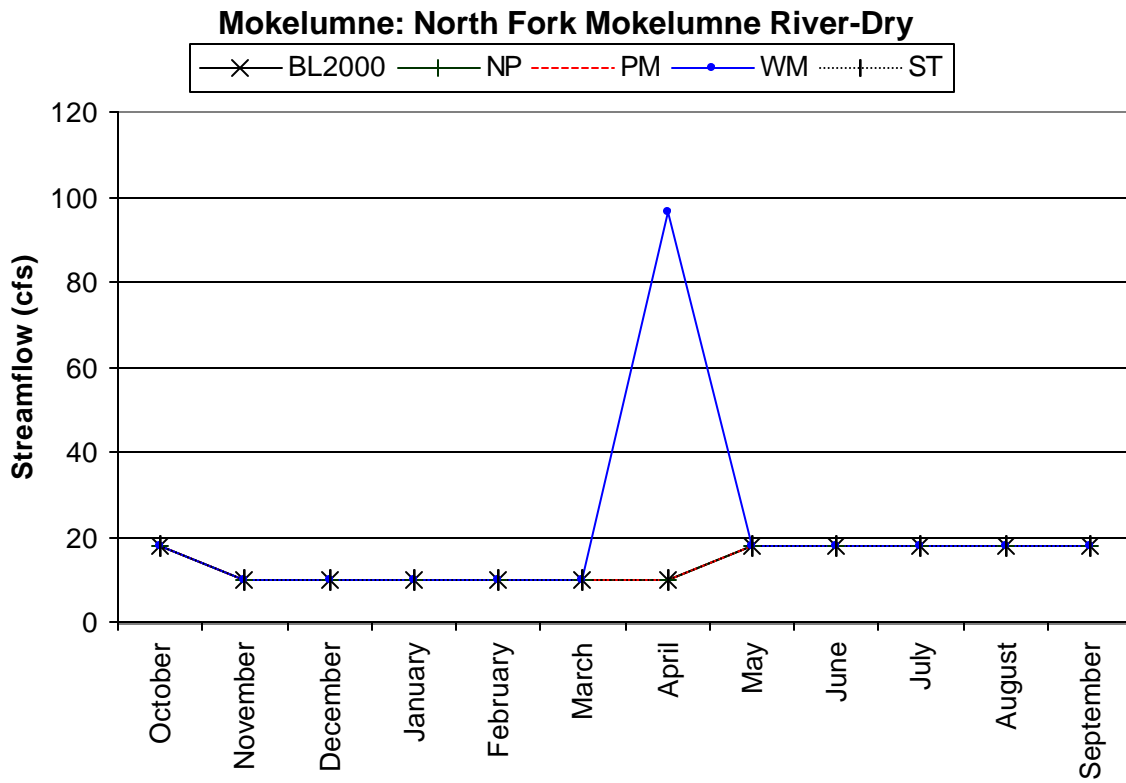
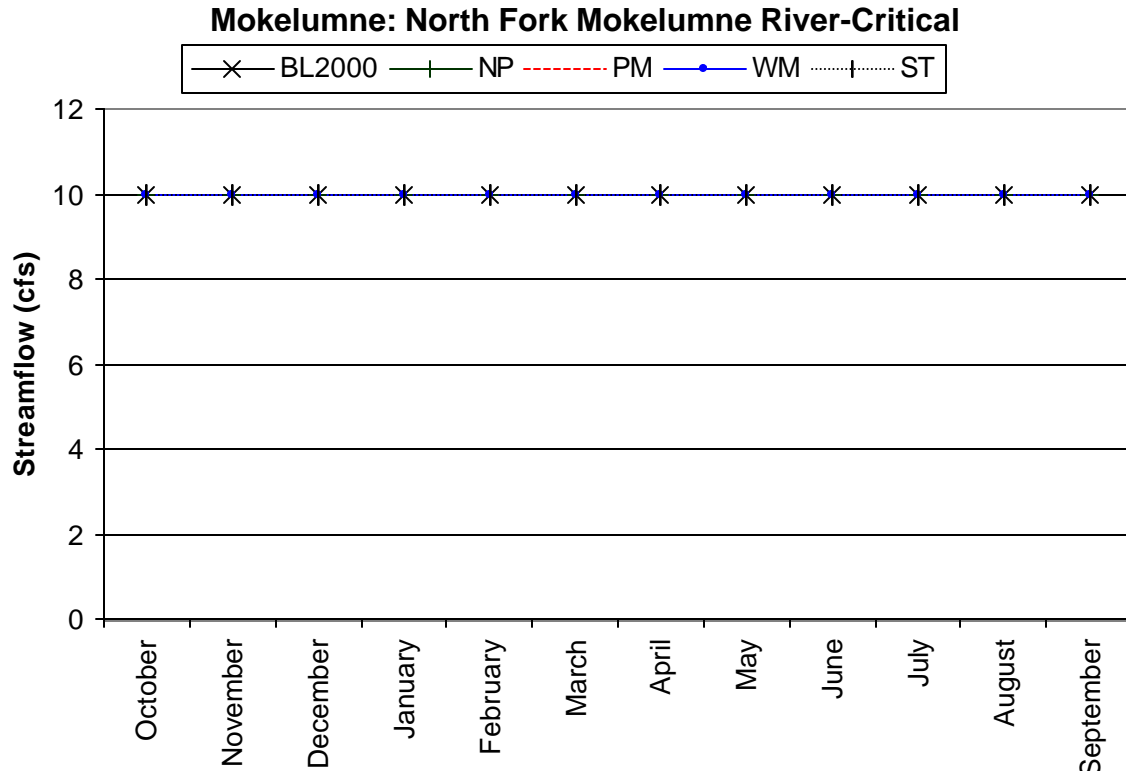
Motherlode: Appendix Figure-20 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water



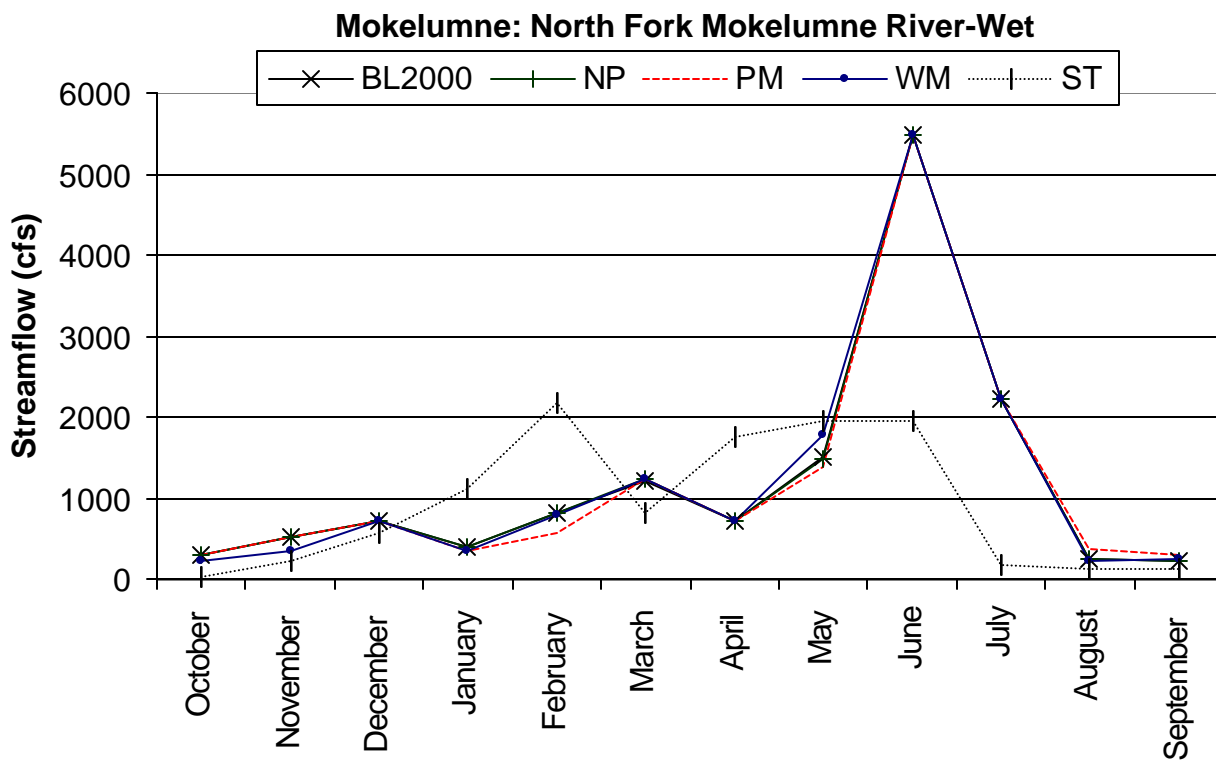
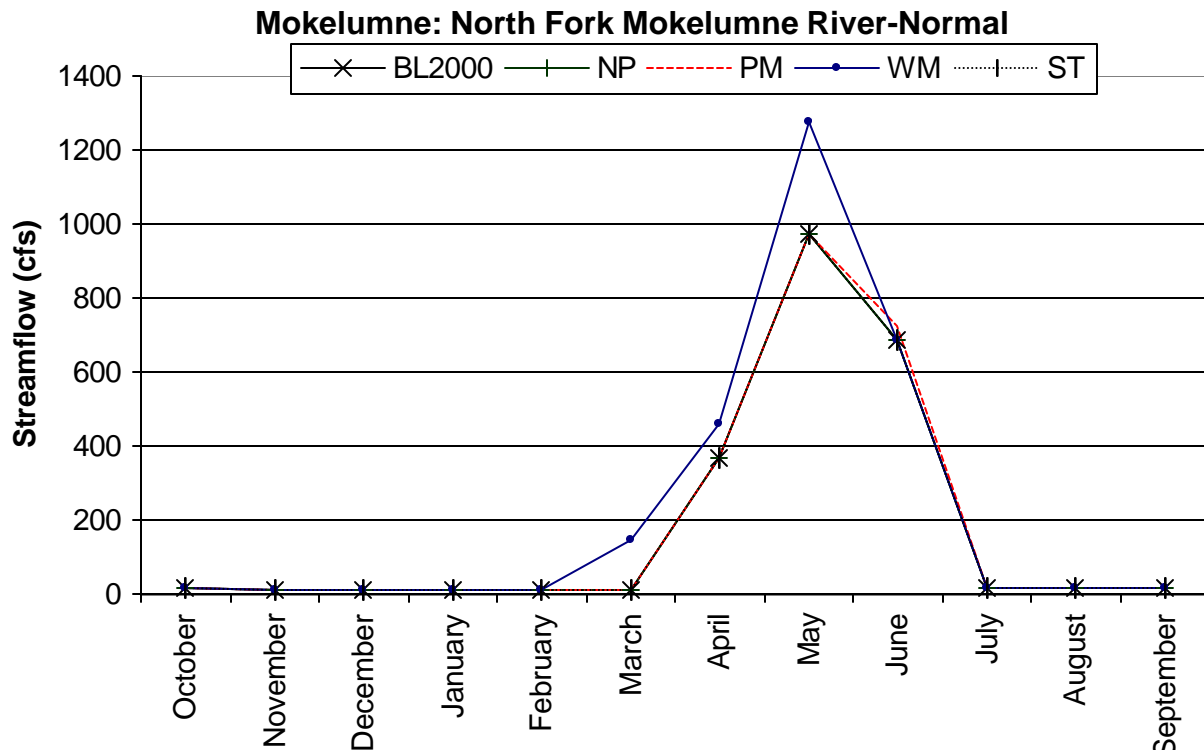
Motherlode: Appendix Figure-21 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :



Motherlode: Appendix Figure-22 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water

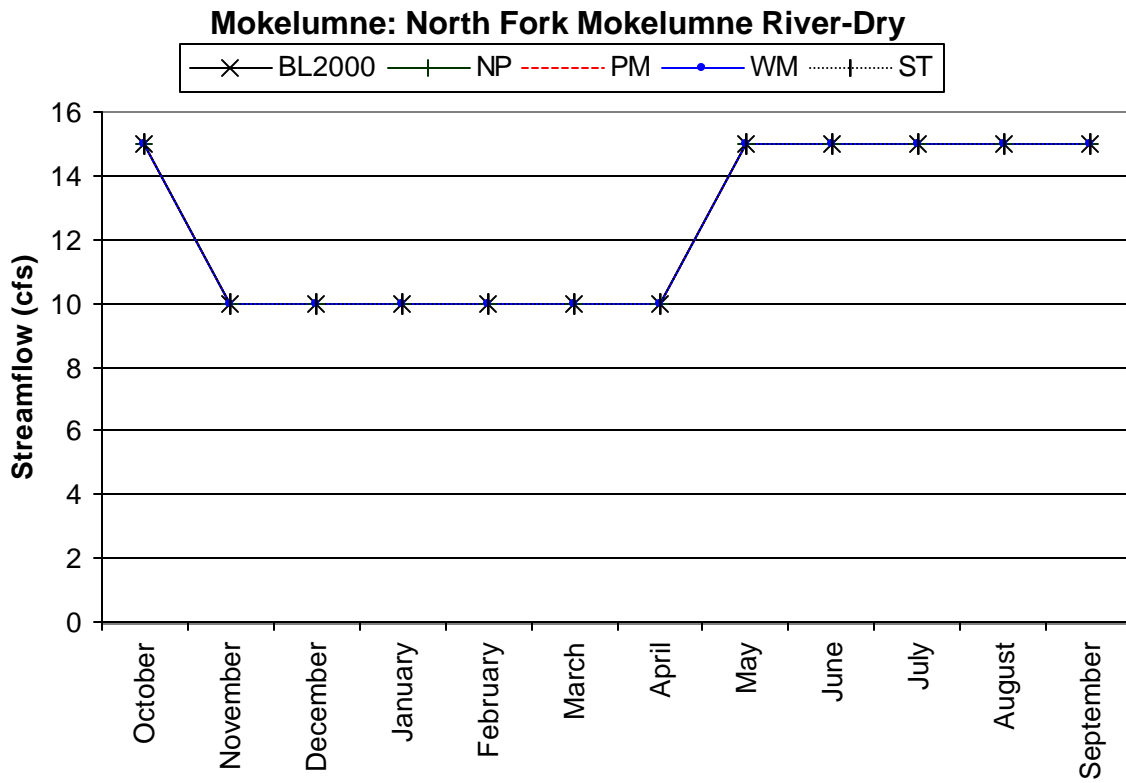
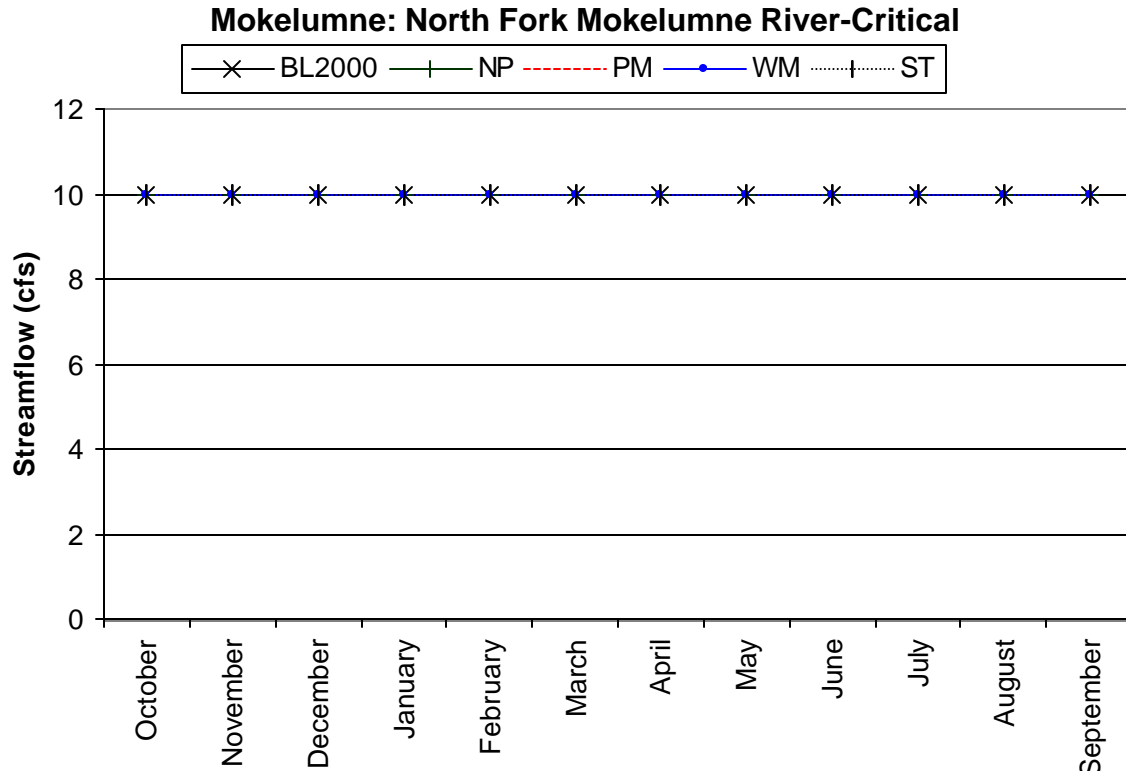


Motherlode: Appendix Figure-23 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :

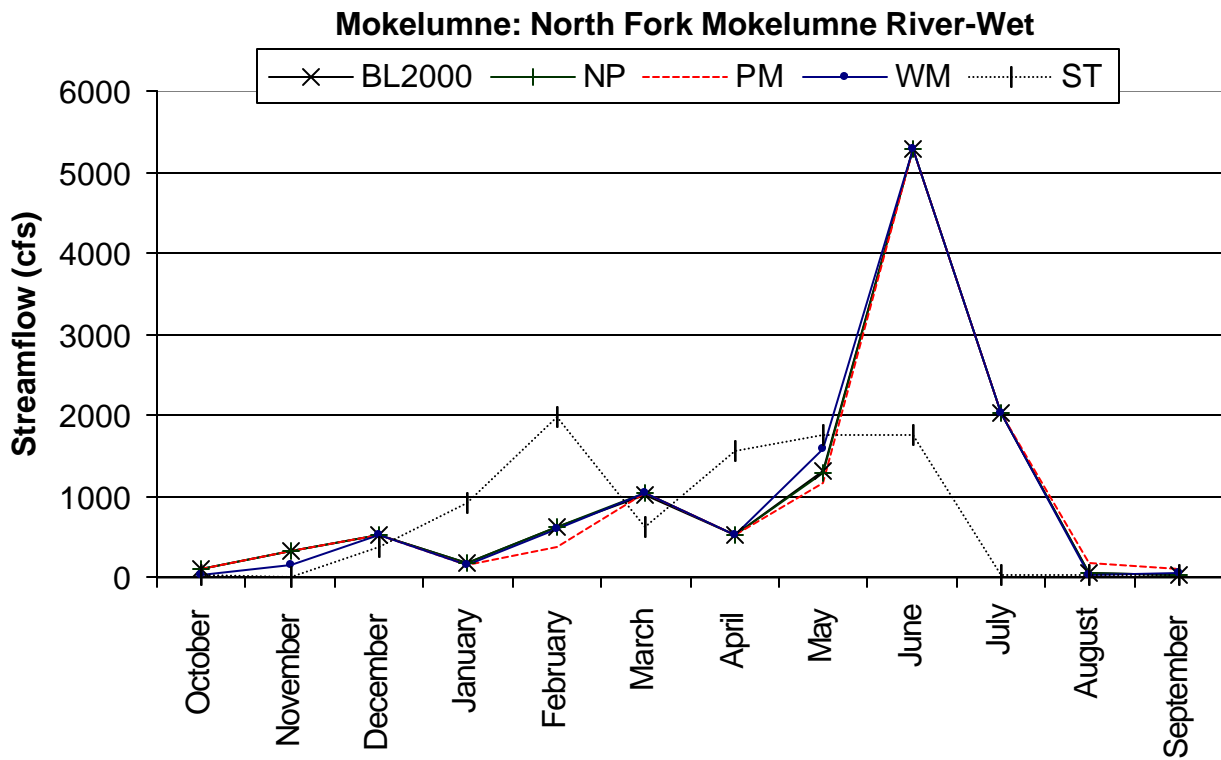
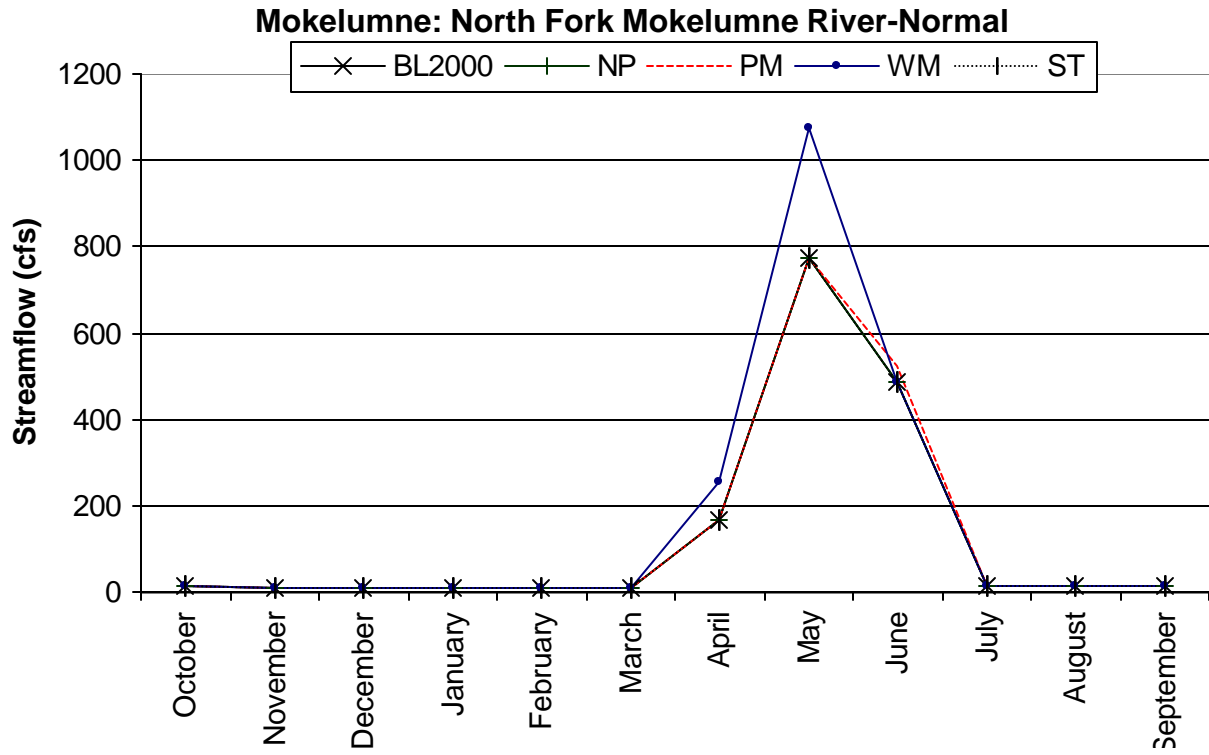


Motherlode: Appendix Figure-24 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water

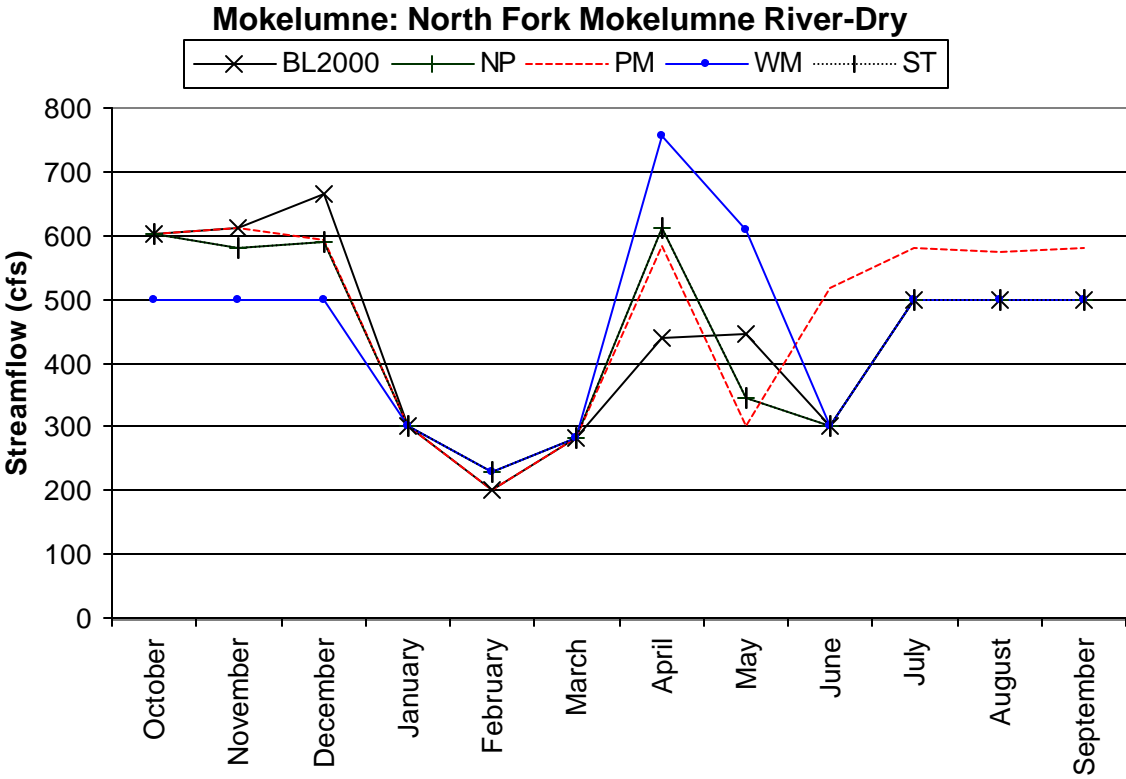
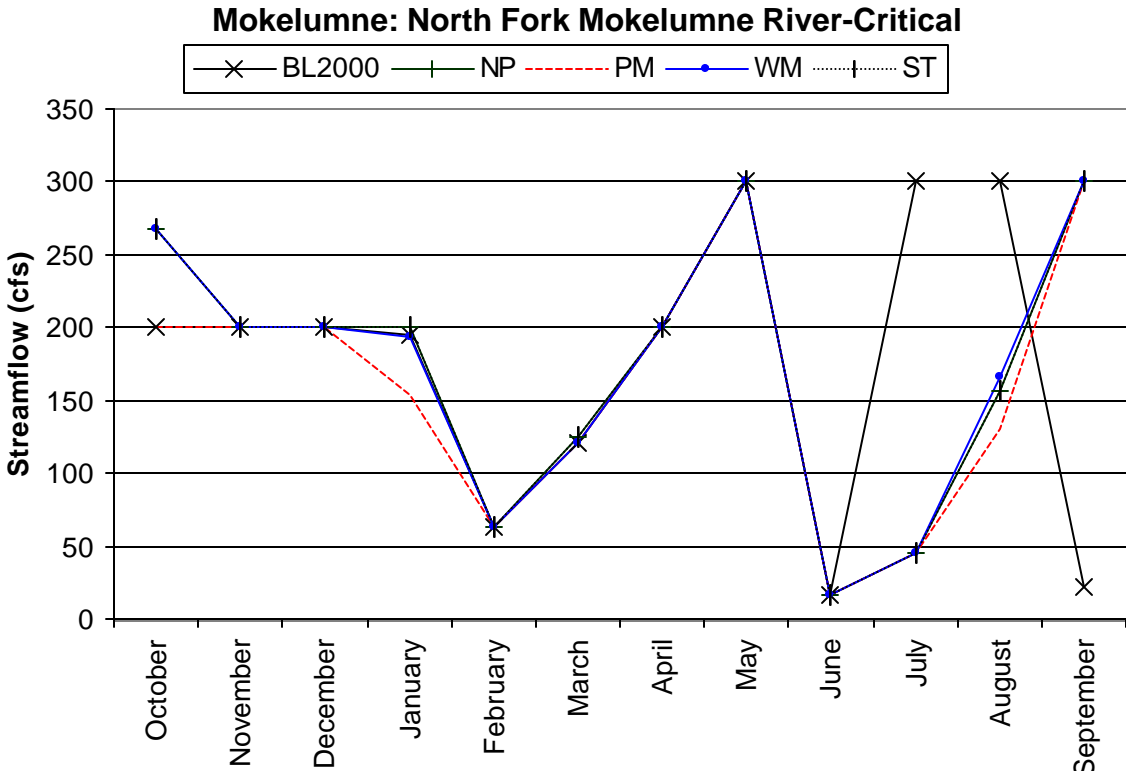




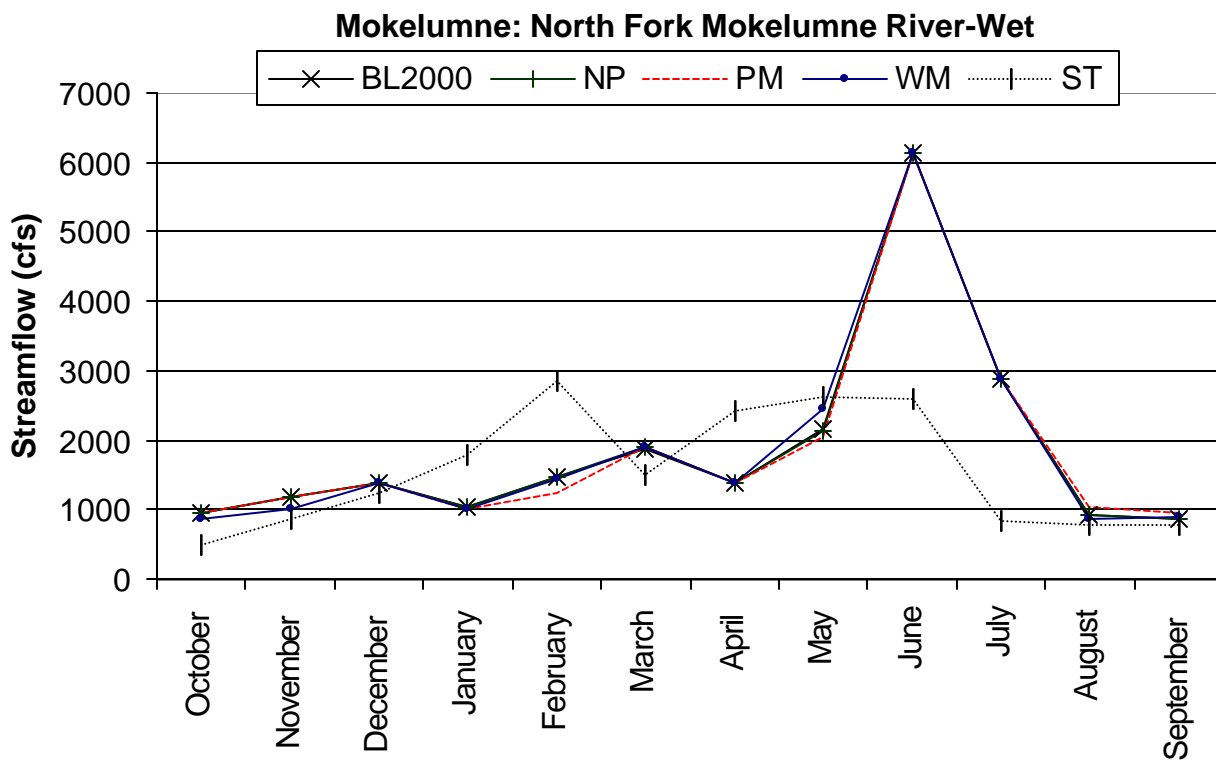
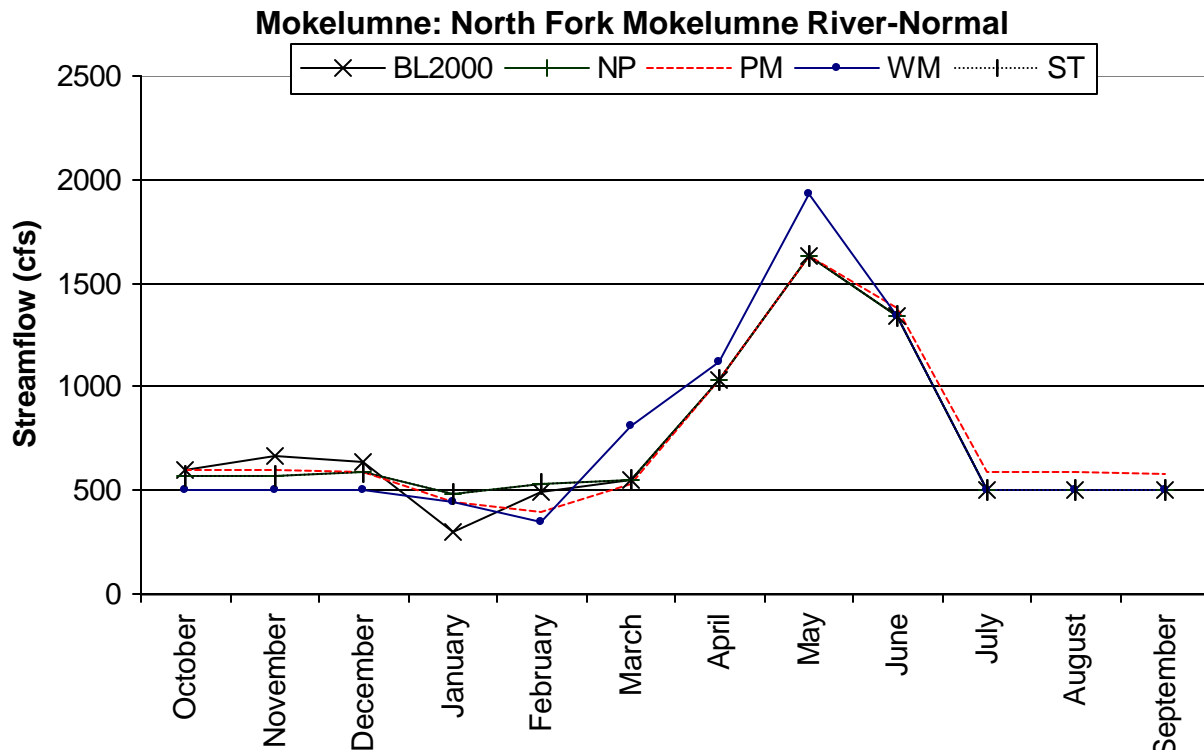
Motherlode: Appendix Figure-25 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water



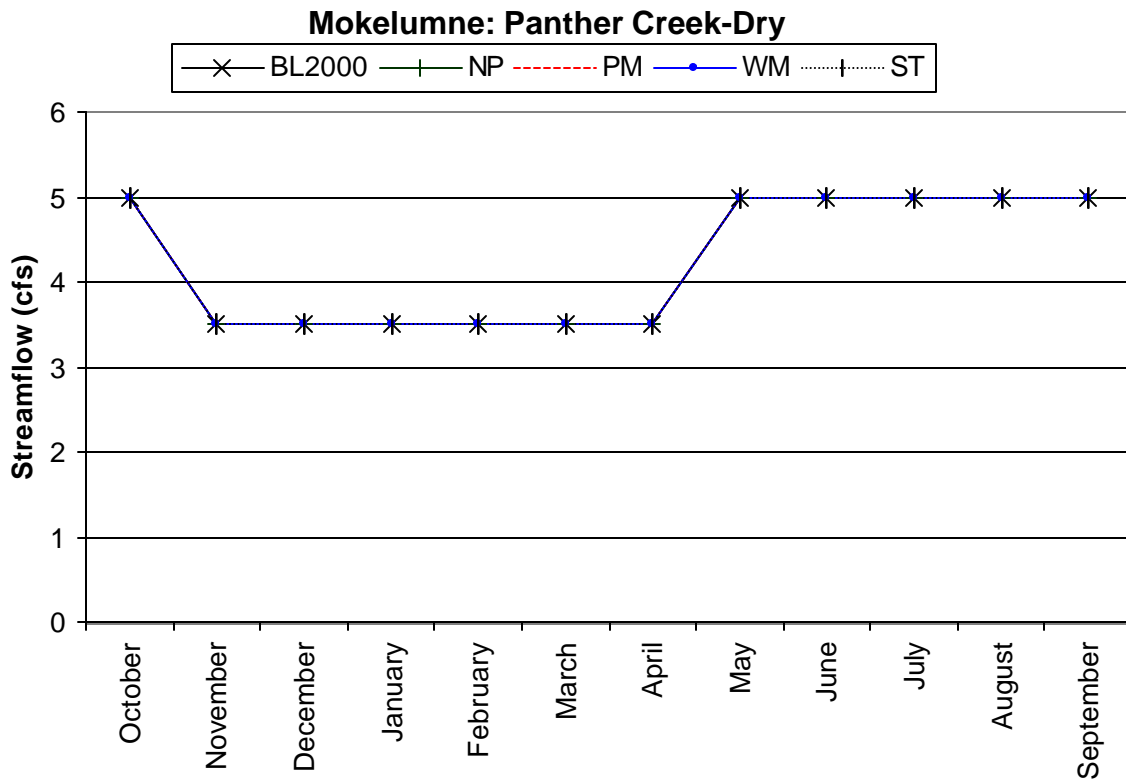
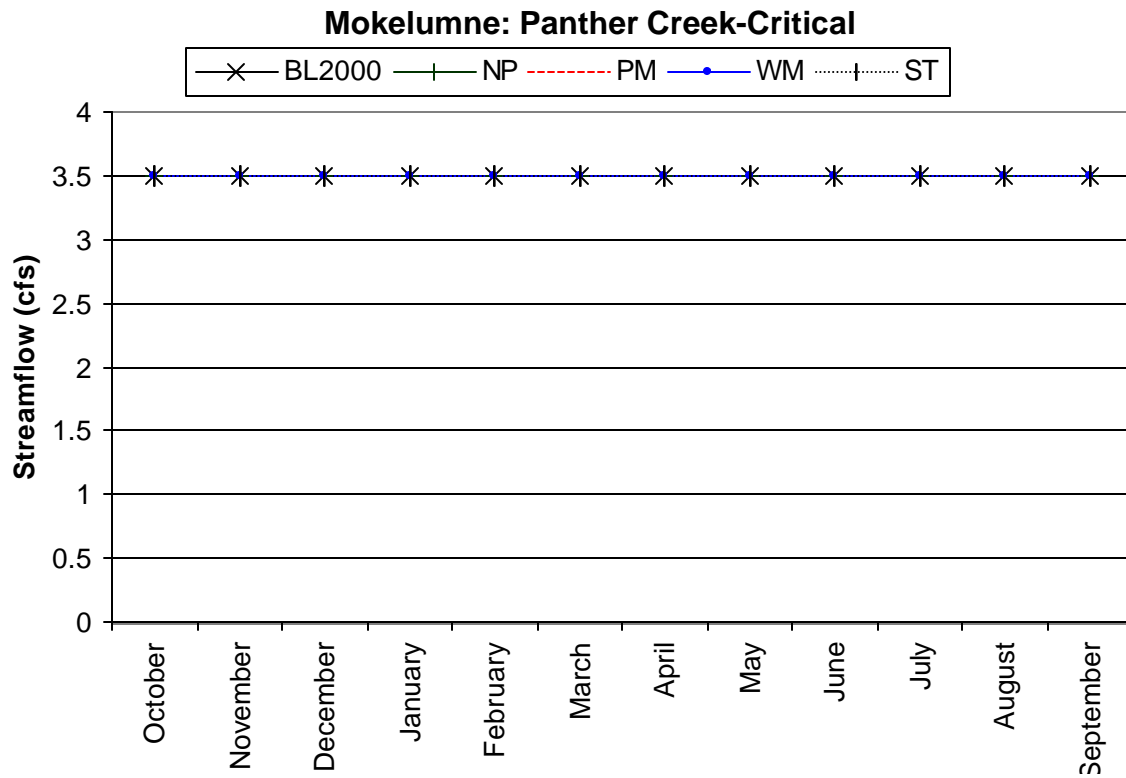
Motherlode: Appendix Figure-26 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water



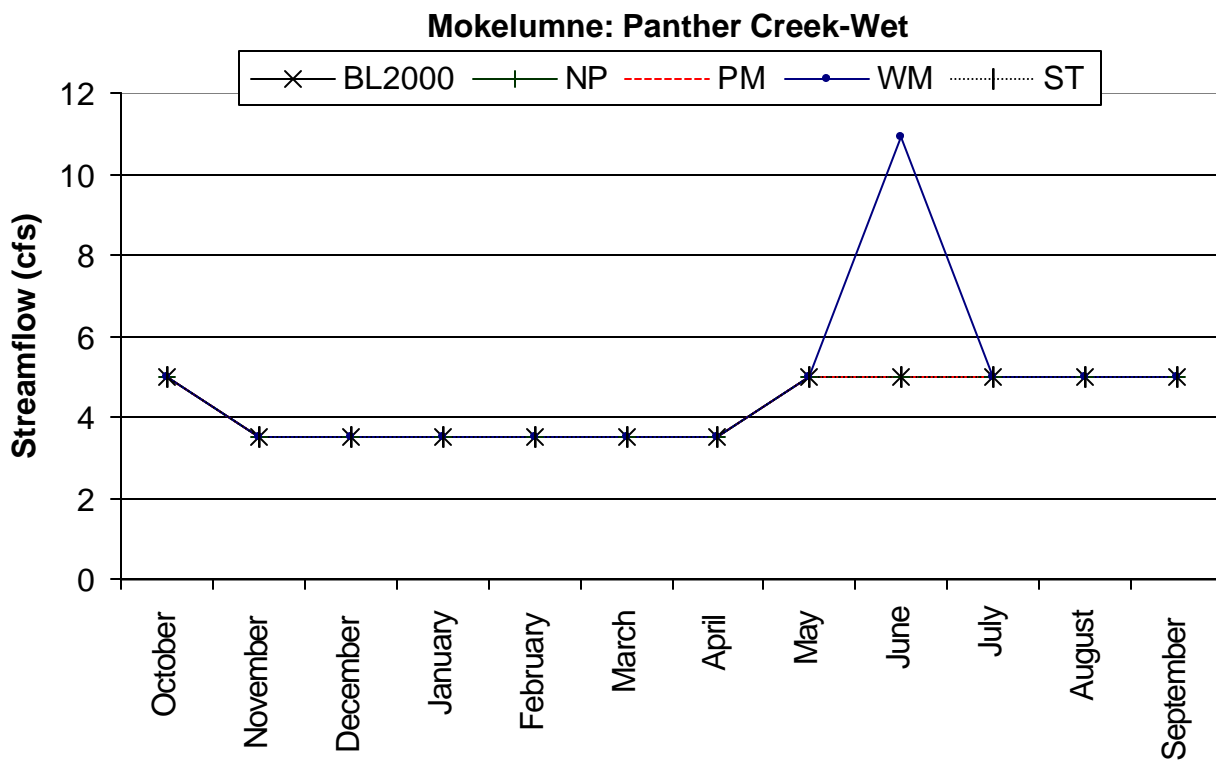
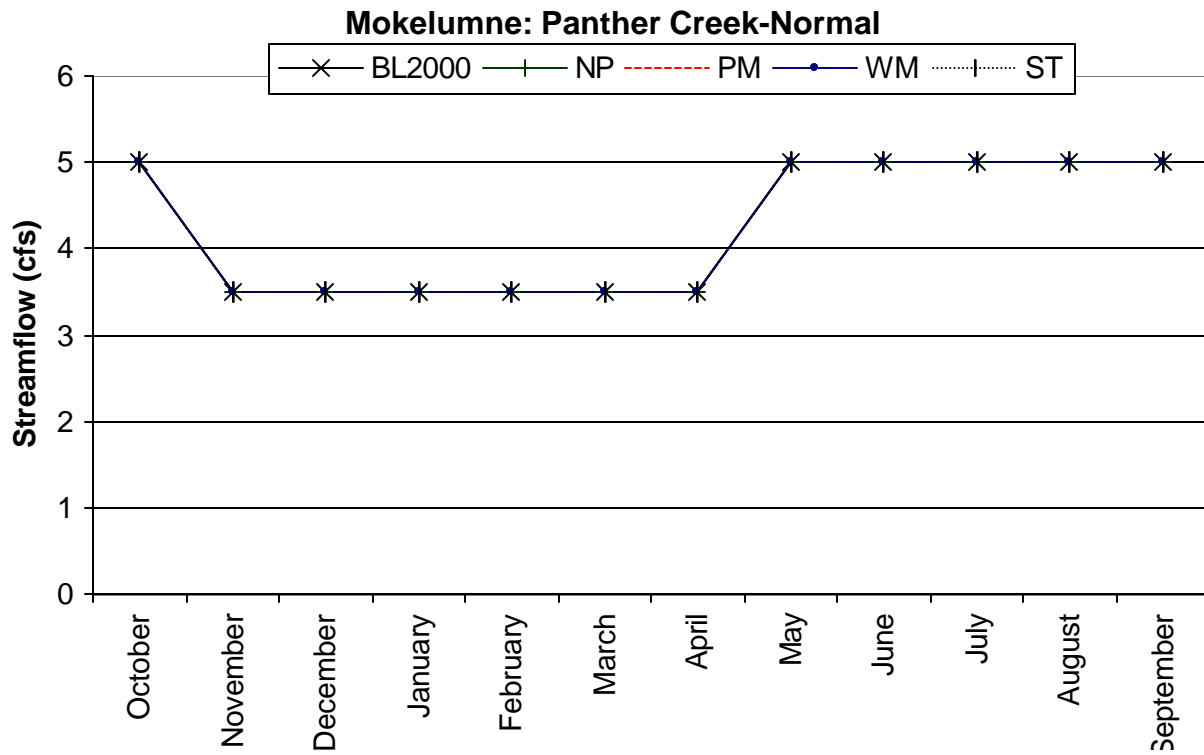
Motherlode: Appendix Figure-27 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :



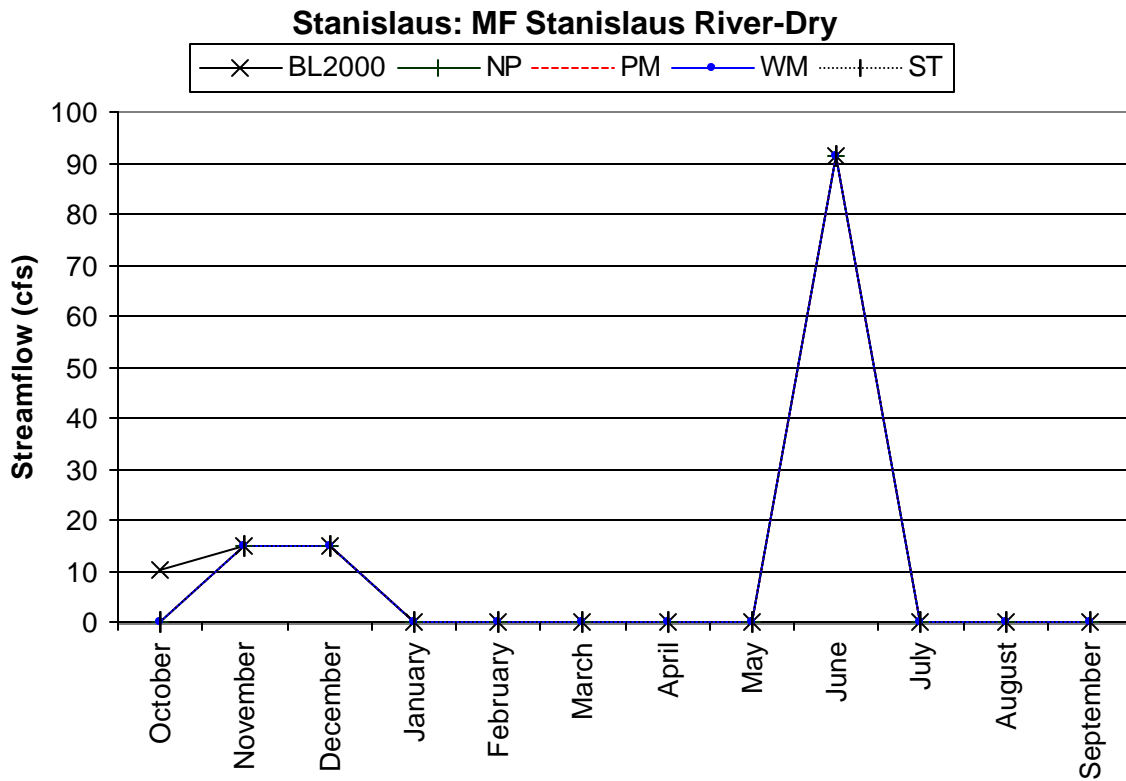
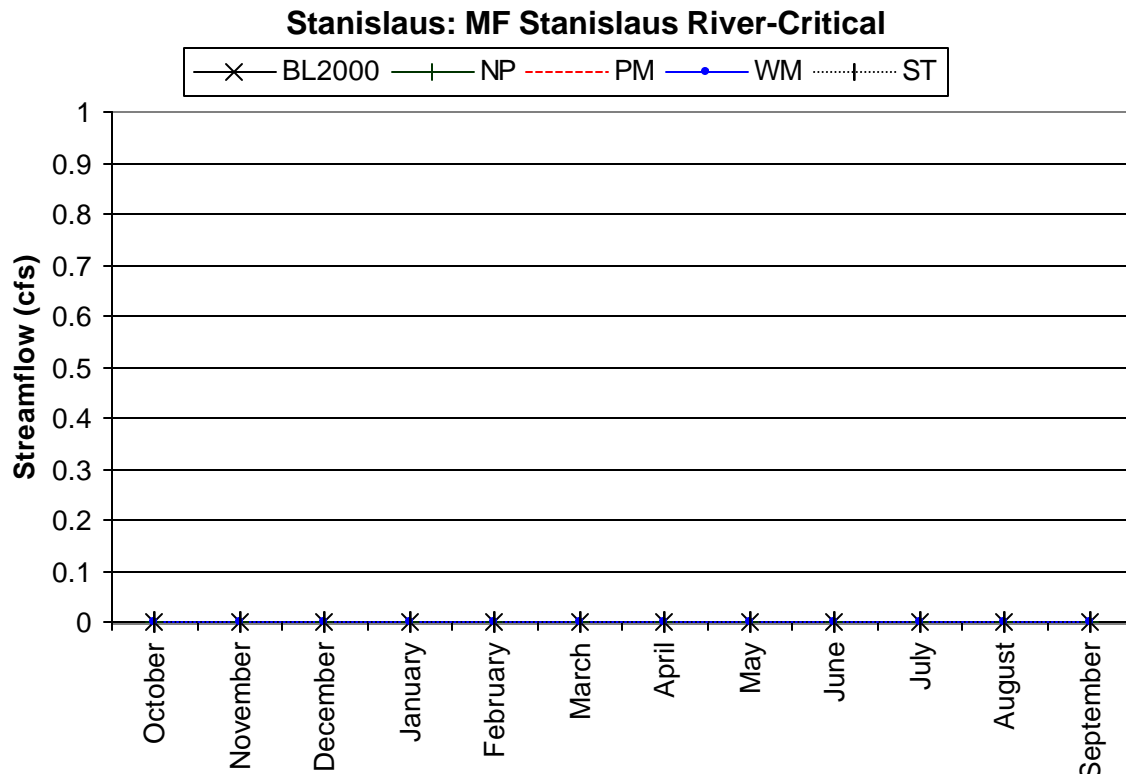
Motherlode: Appendix Figure-28 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water



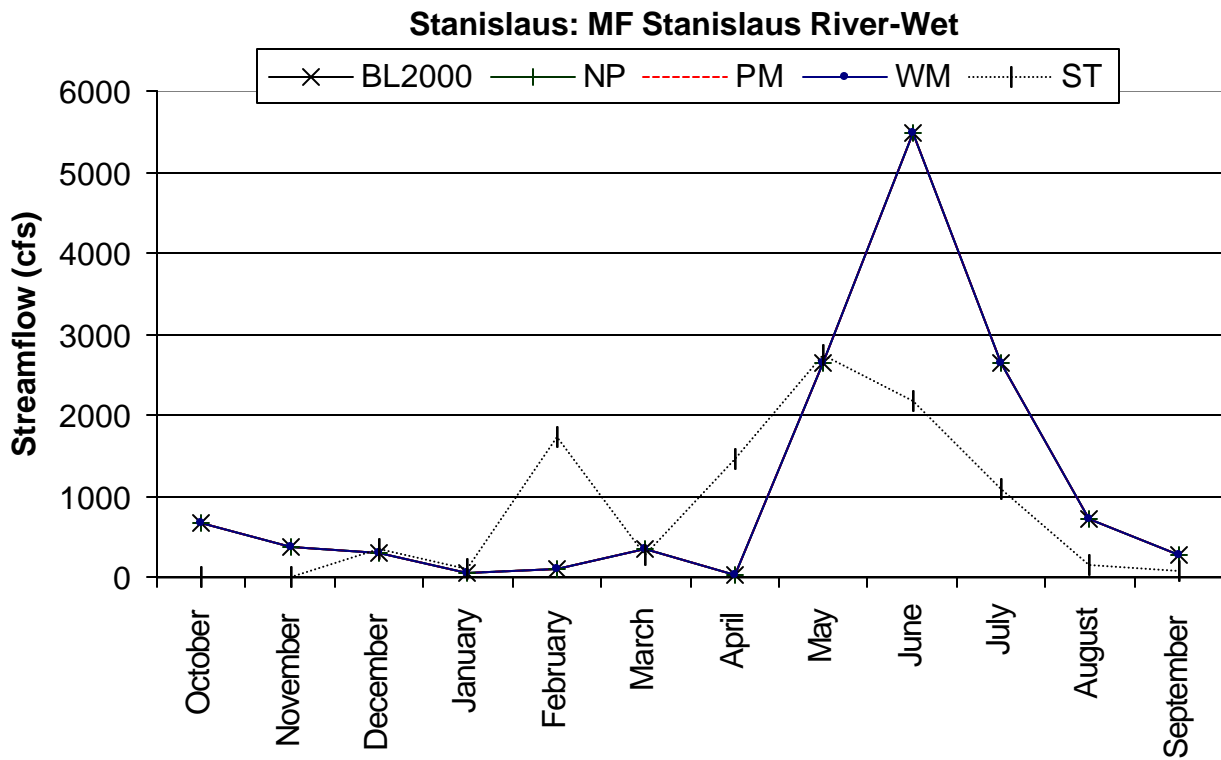
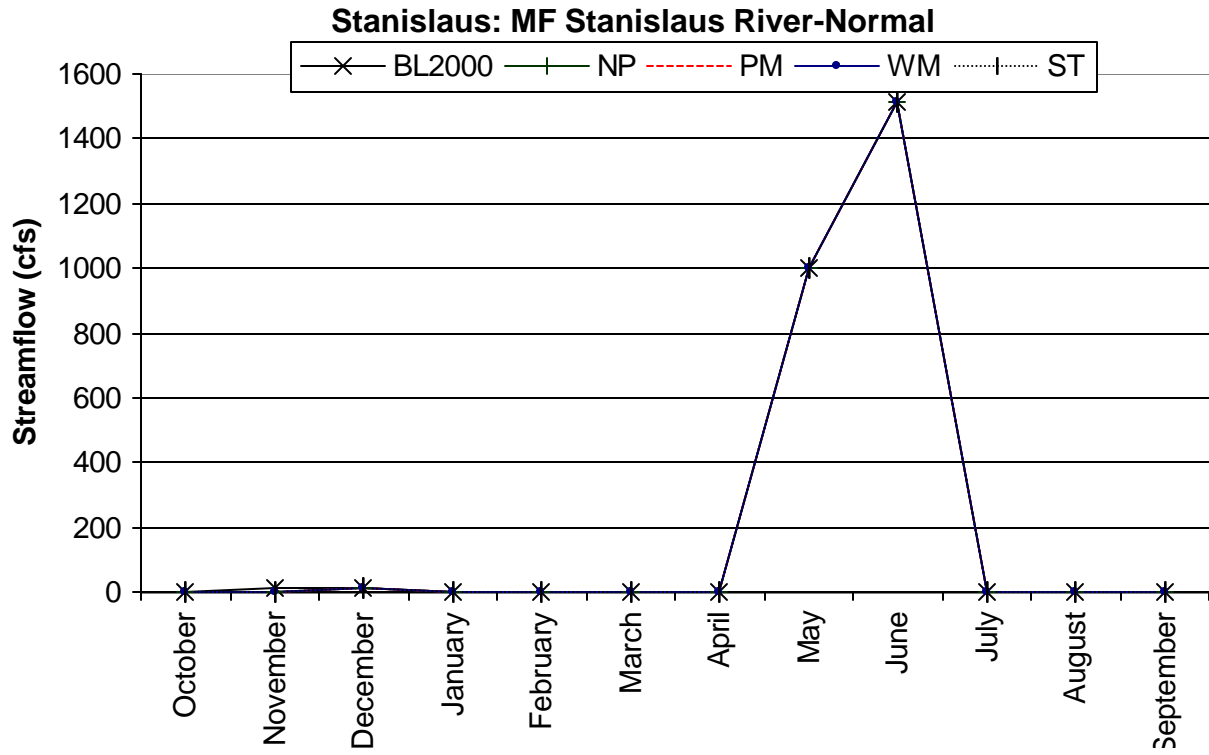
Motherlode: Appendix Figure-29 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :



Motherlode: Appendix Figure-30 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water

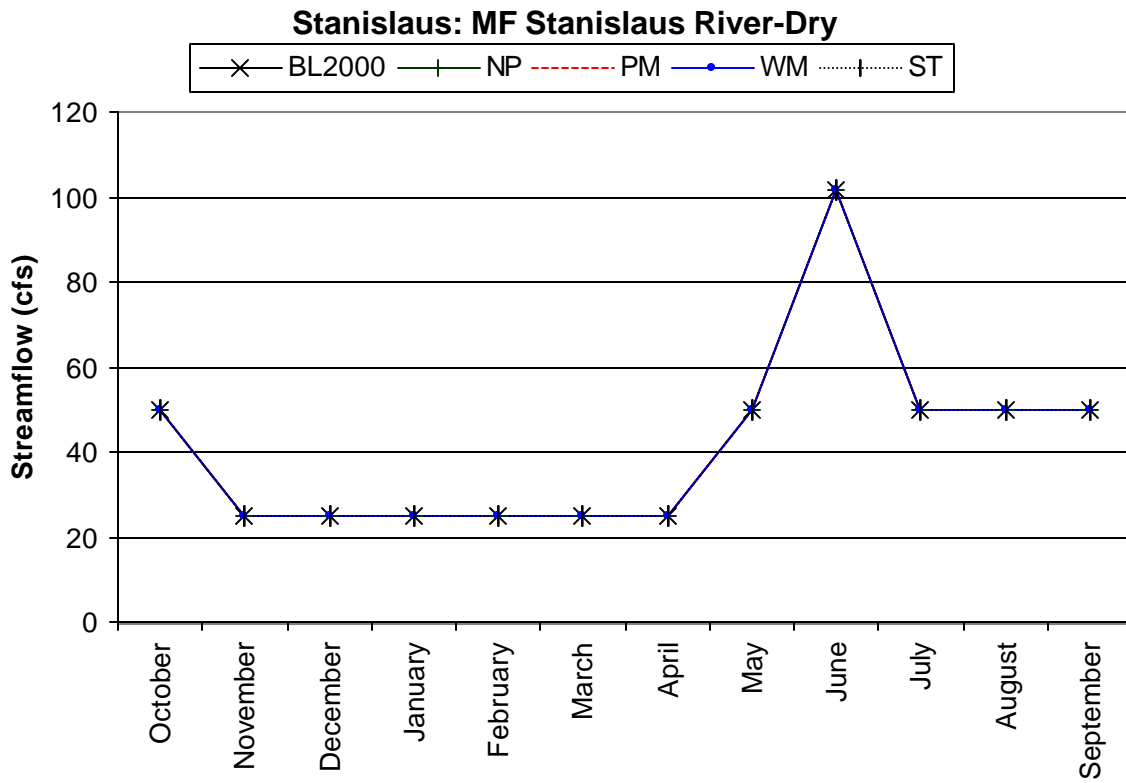
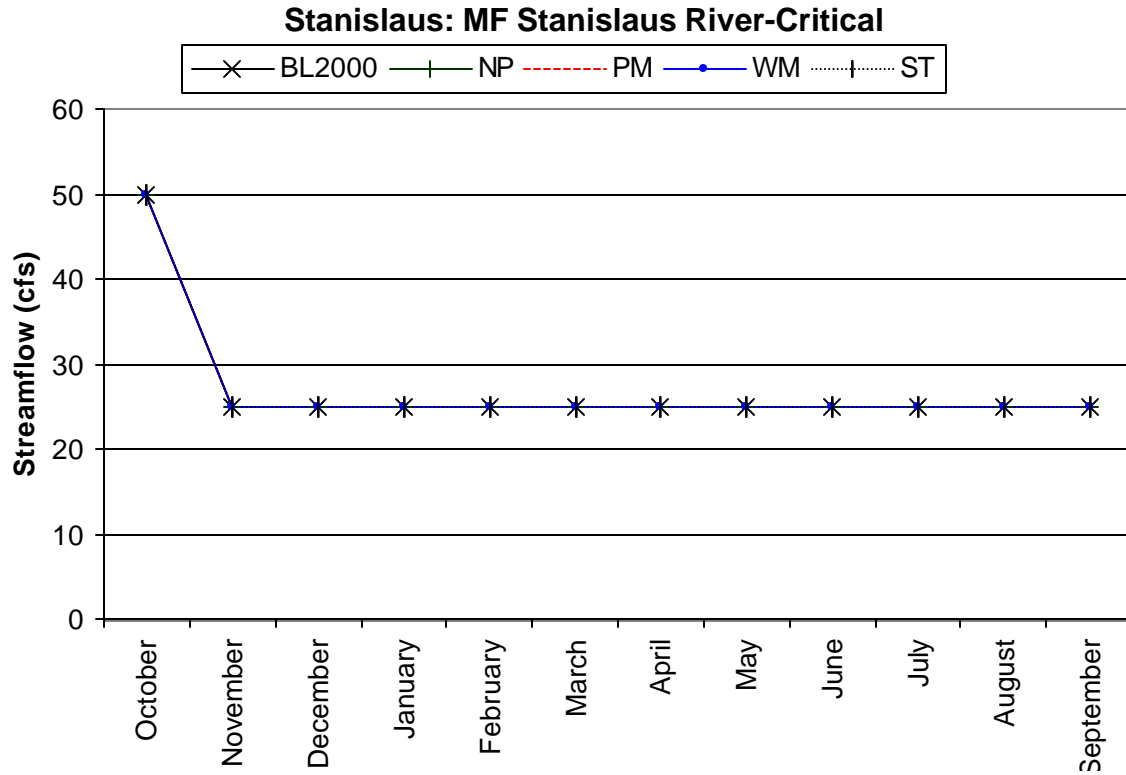


Motherlode: Appendix Figure-31 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :

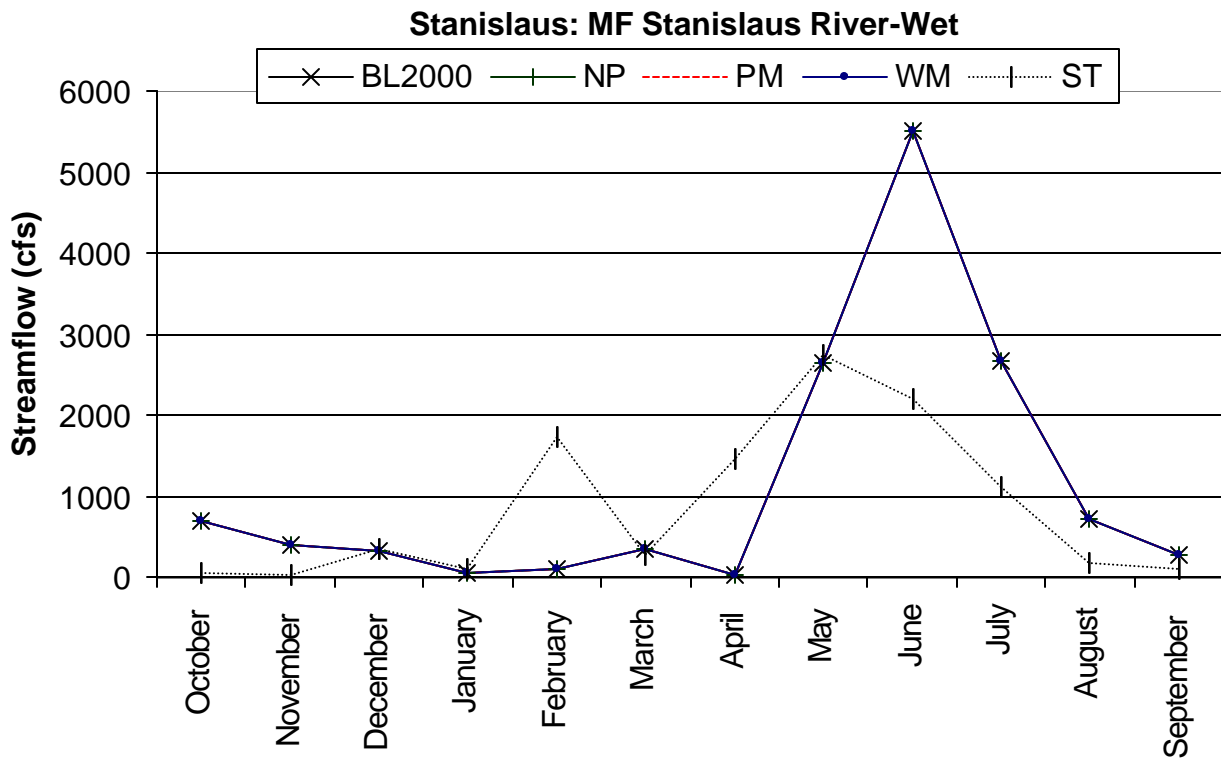
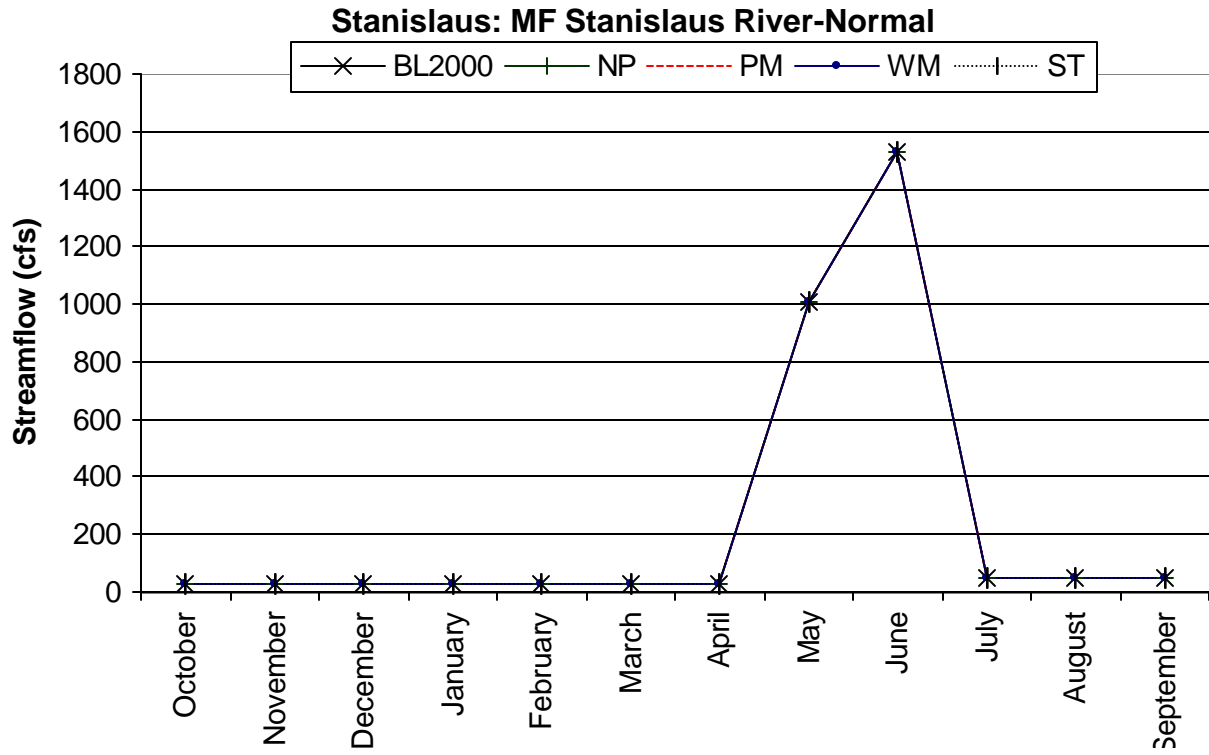


Motherlode: Appendix Figure-32 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water

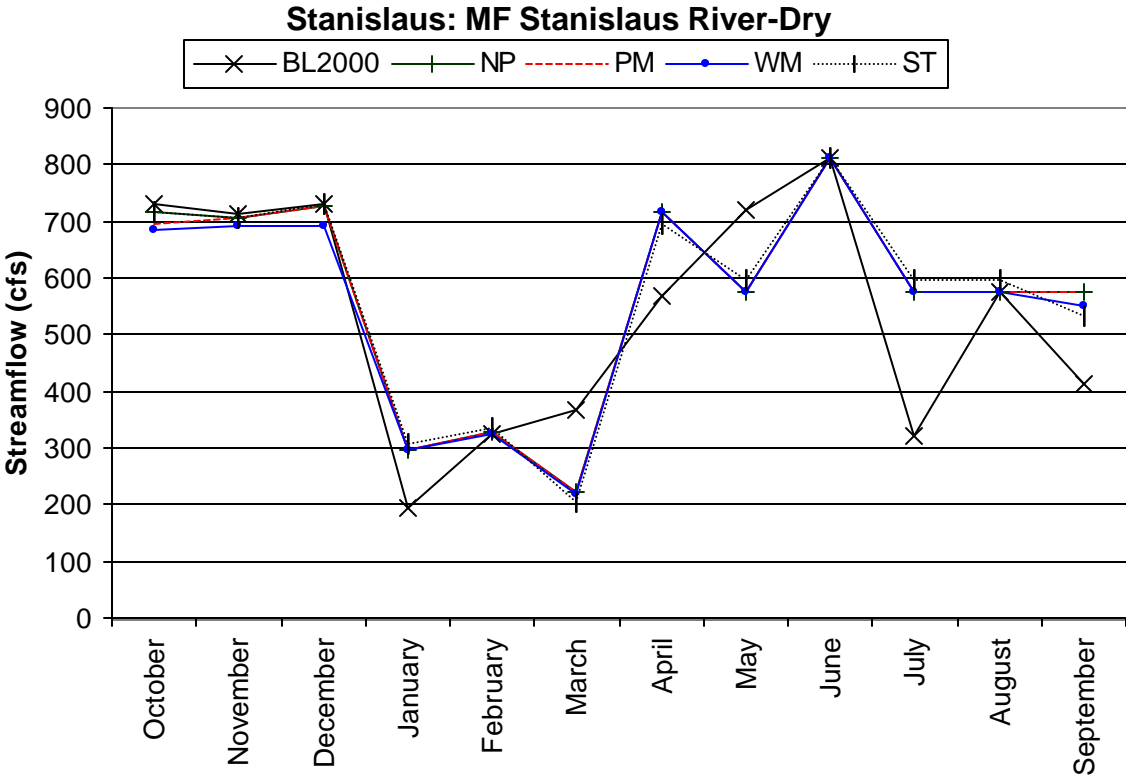
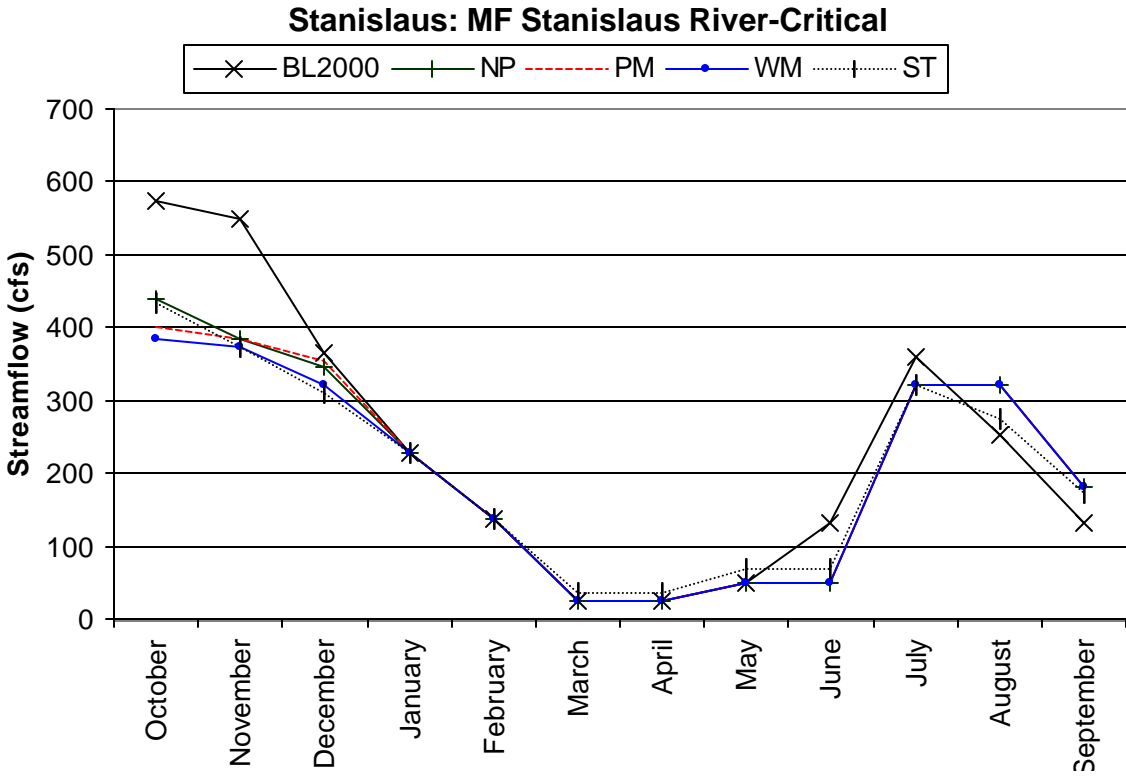




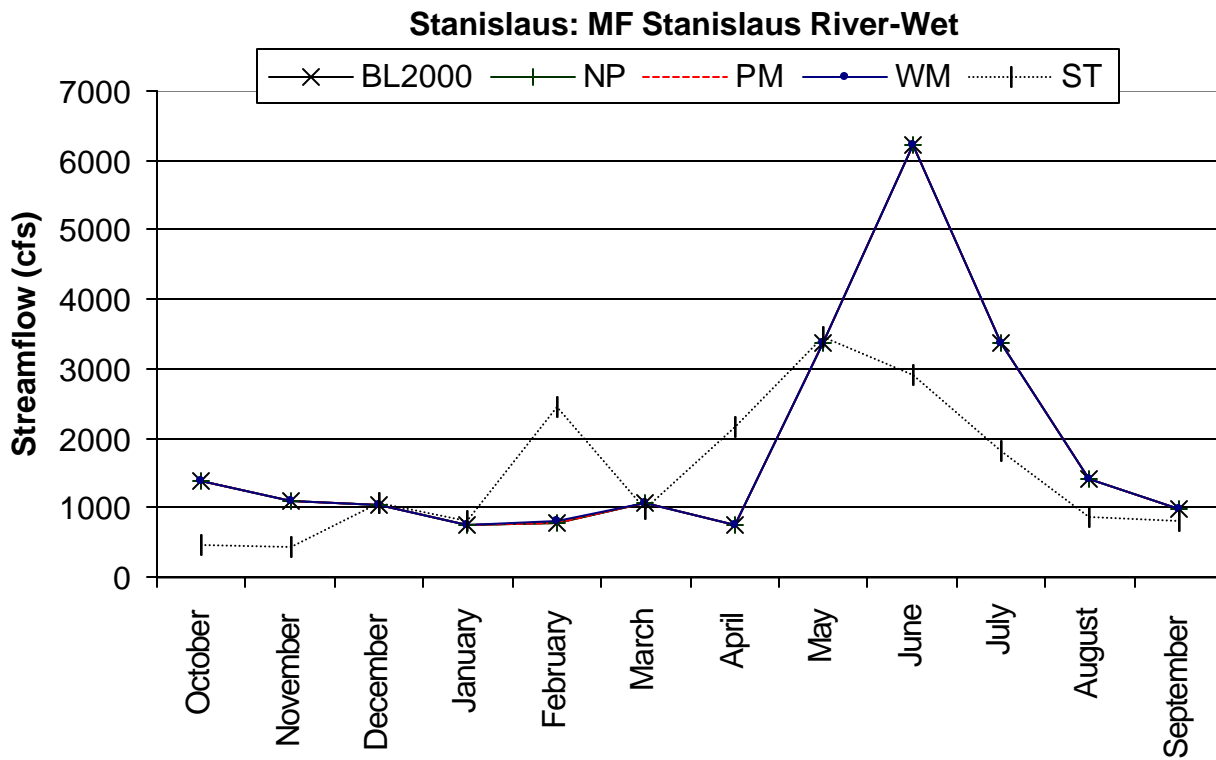
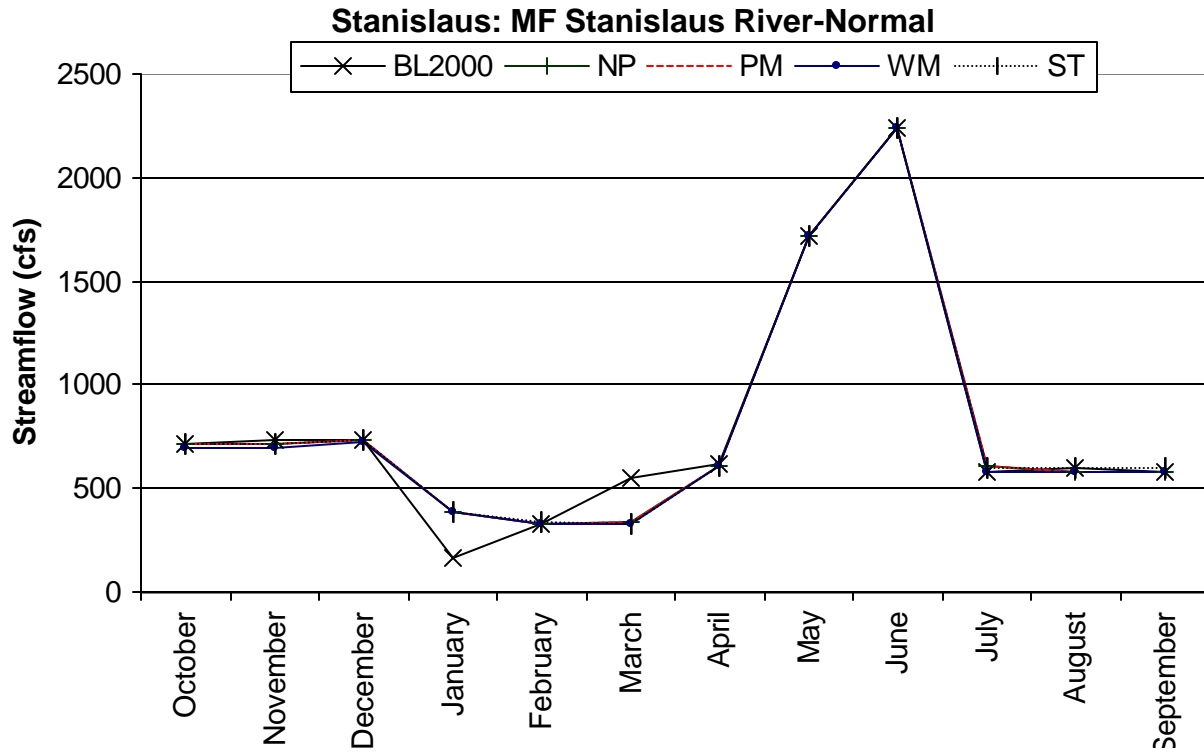
Motherlode: Appendix Figure-33 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :



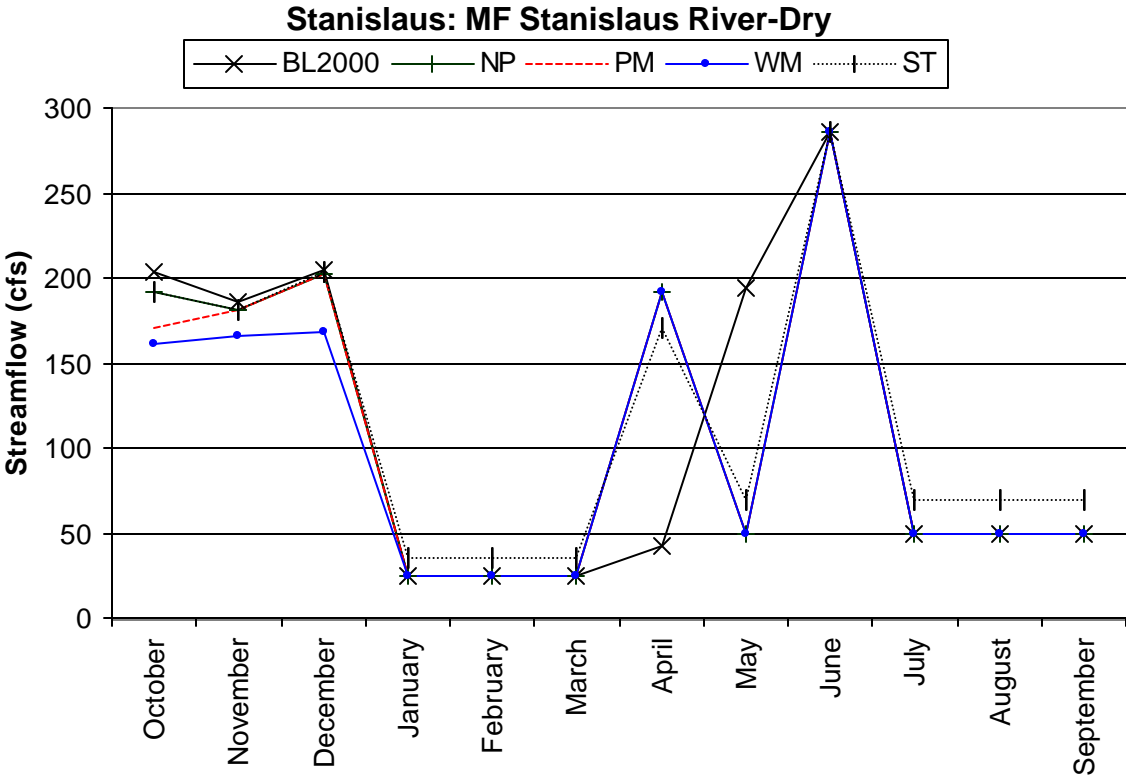
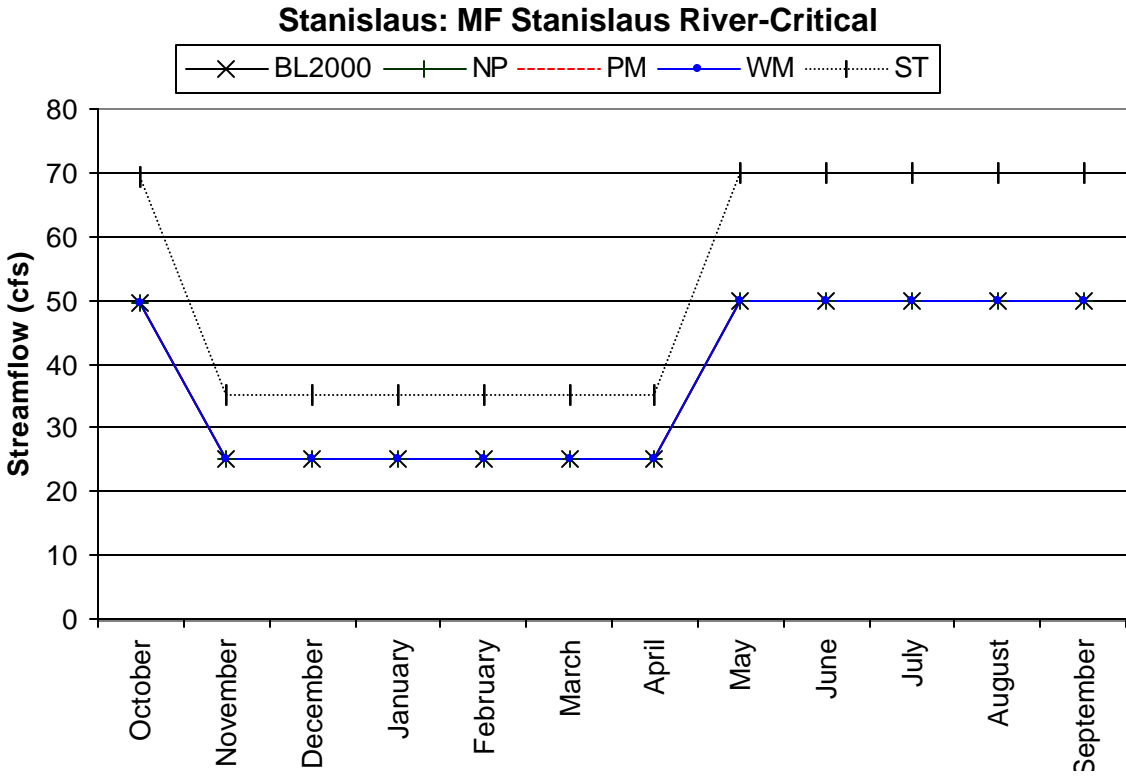
Motherlode: Appendix Figure-34 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water



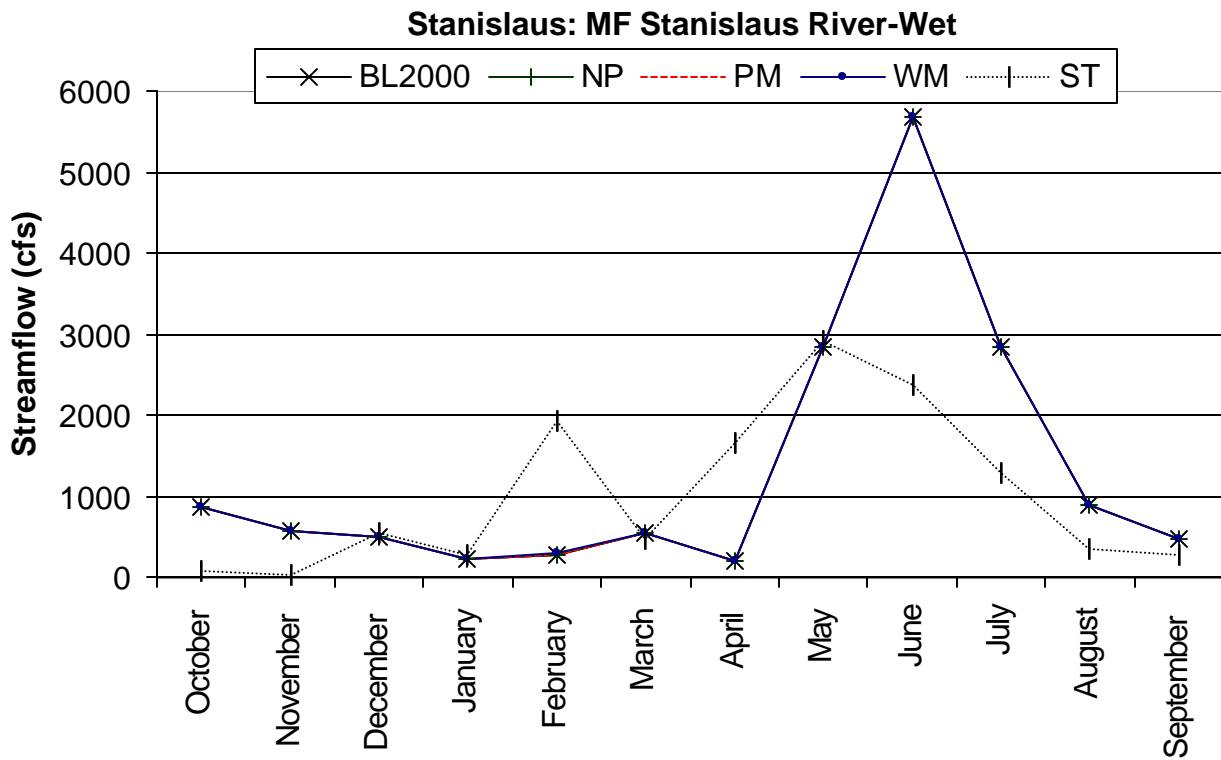
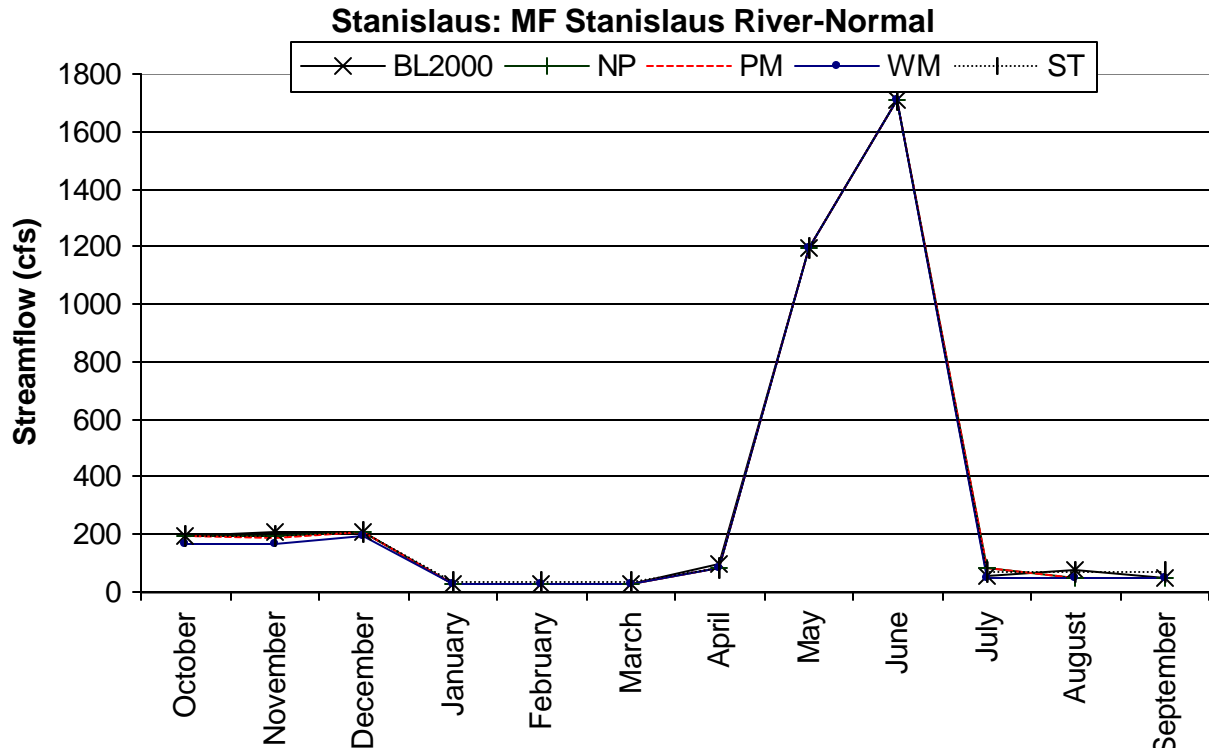
Motherlode: Appendix Figure-35 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :



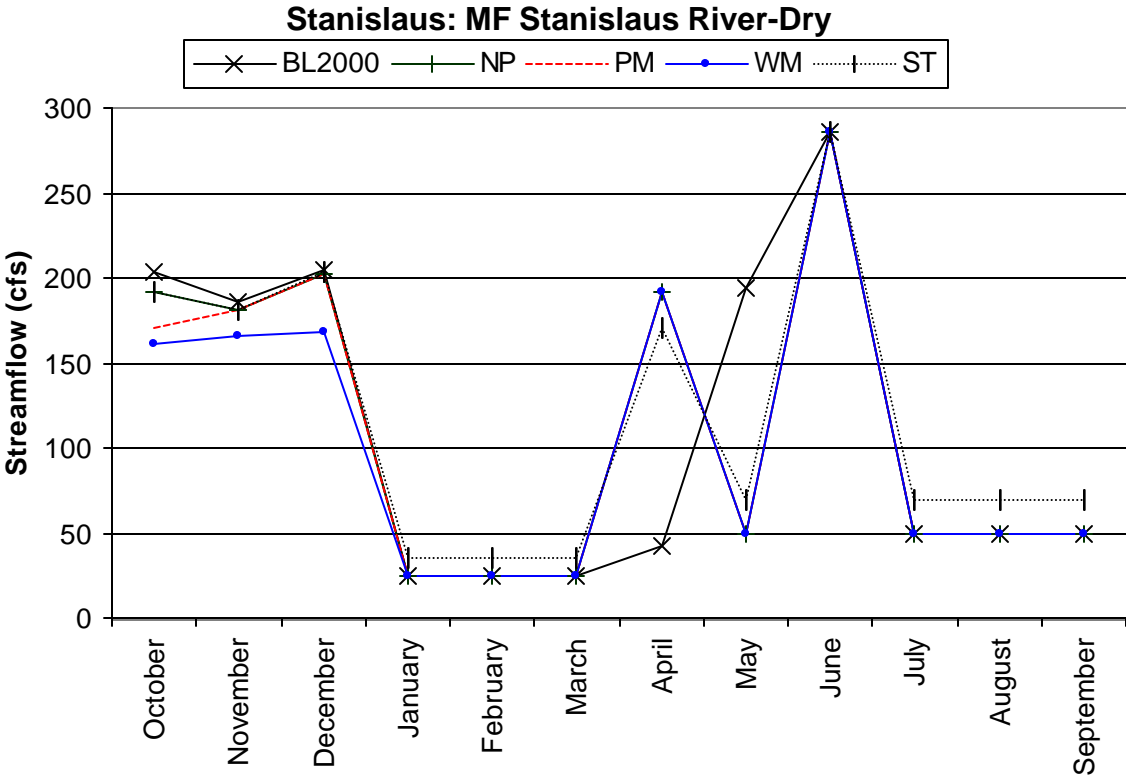
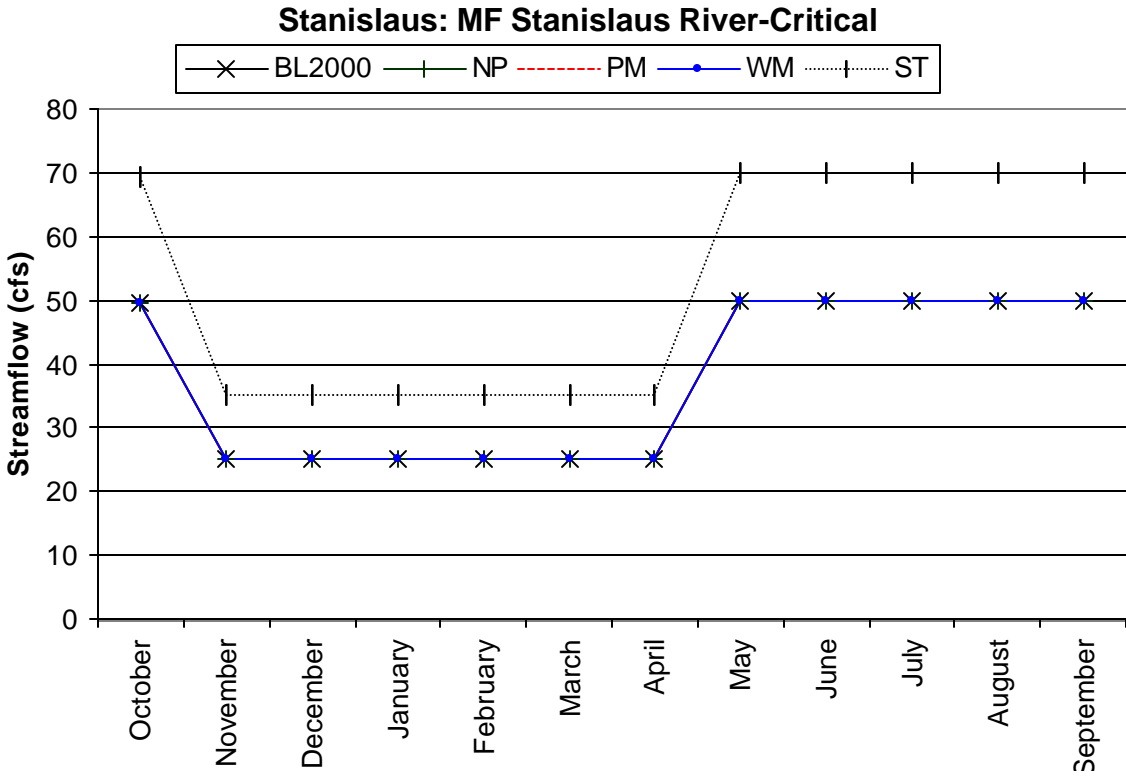
Motherlode: Appendix Figure-36 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water



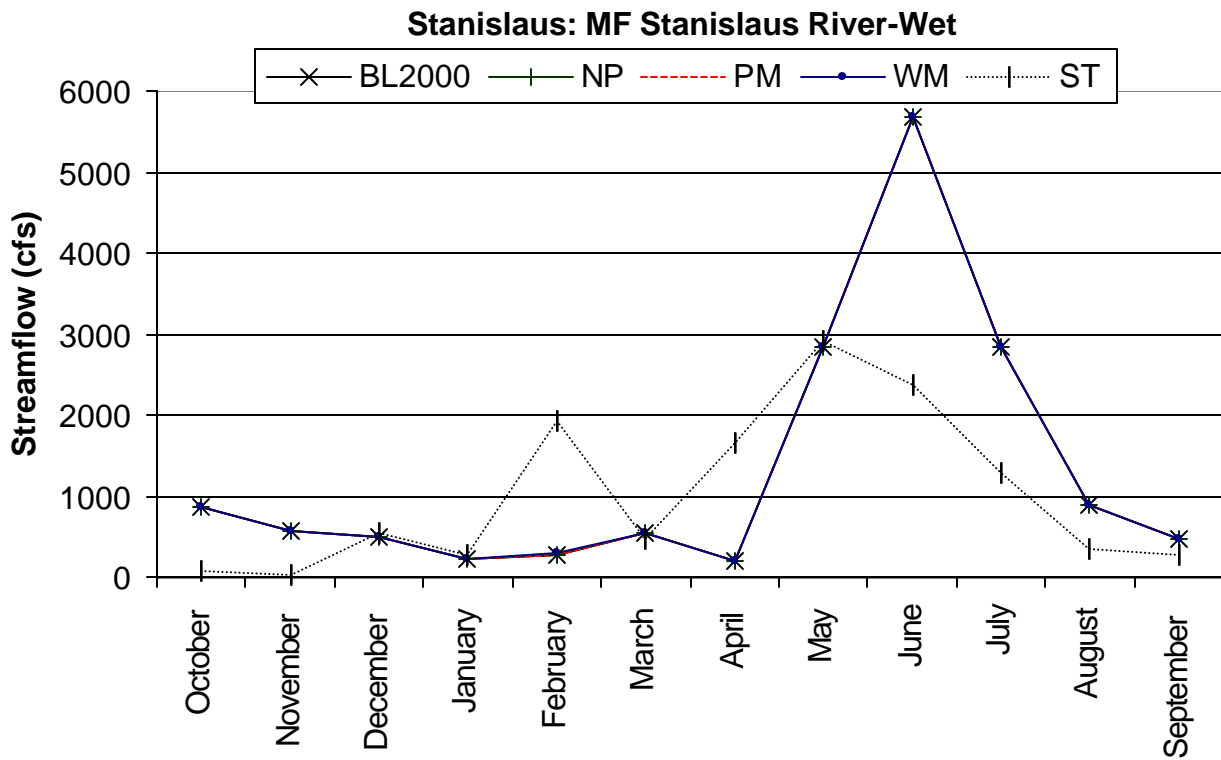
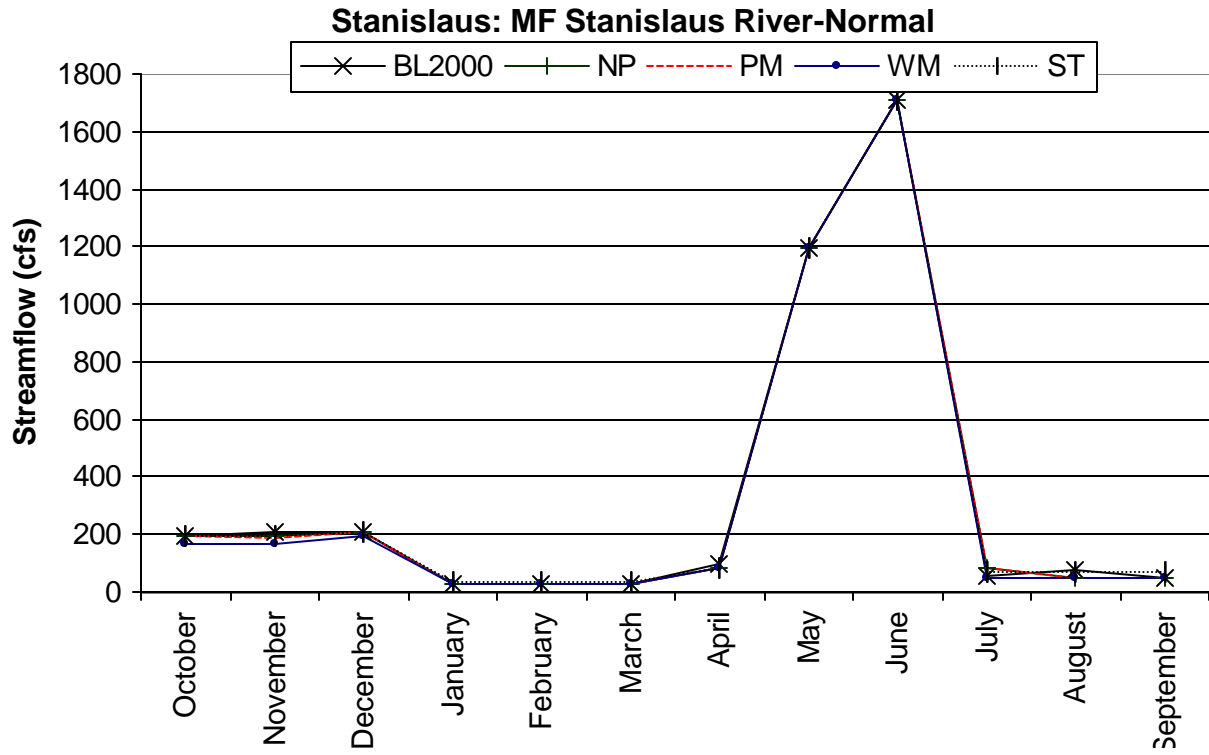
Motherlode: Appendix Figure-37 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :



Motherlode: Appendix Figure-38 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water

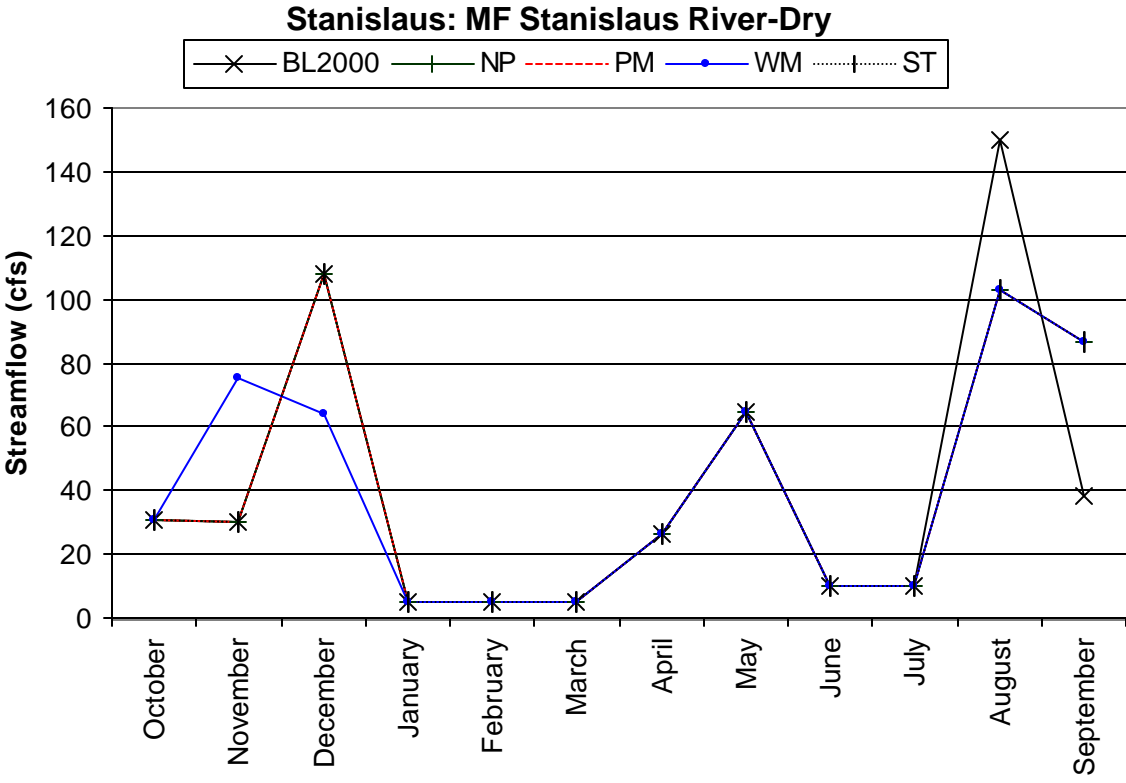
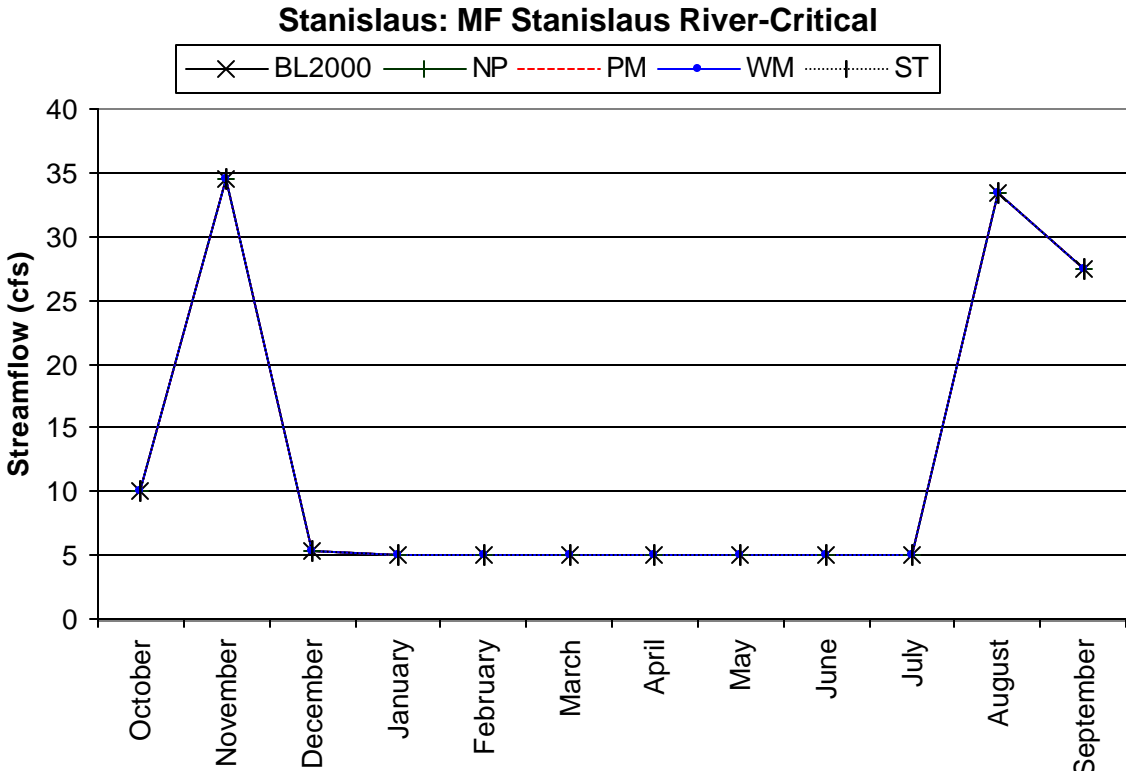


Motherlode: Appendix Figure-39 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :

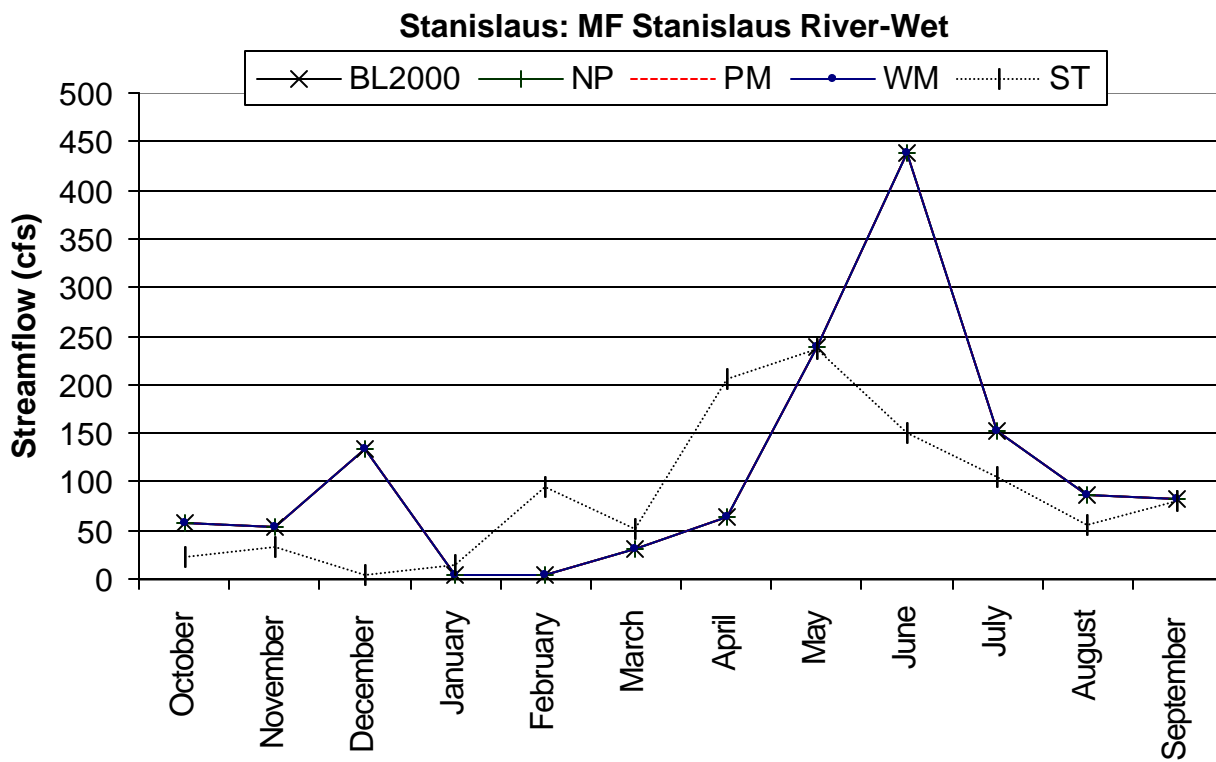
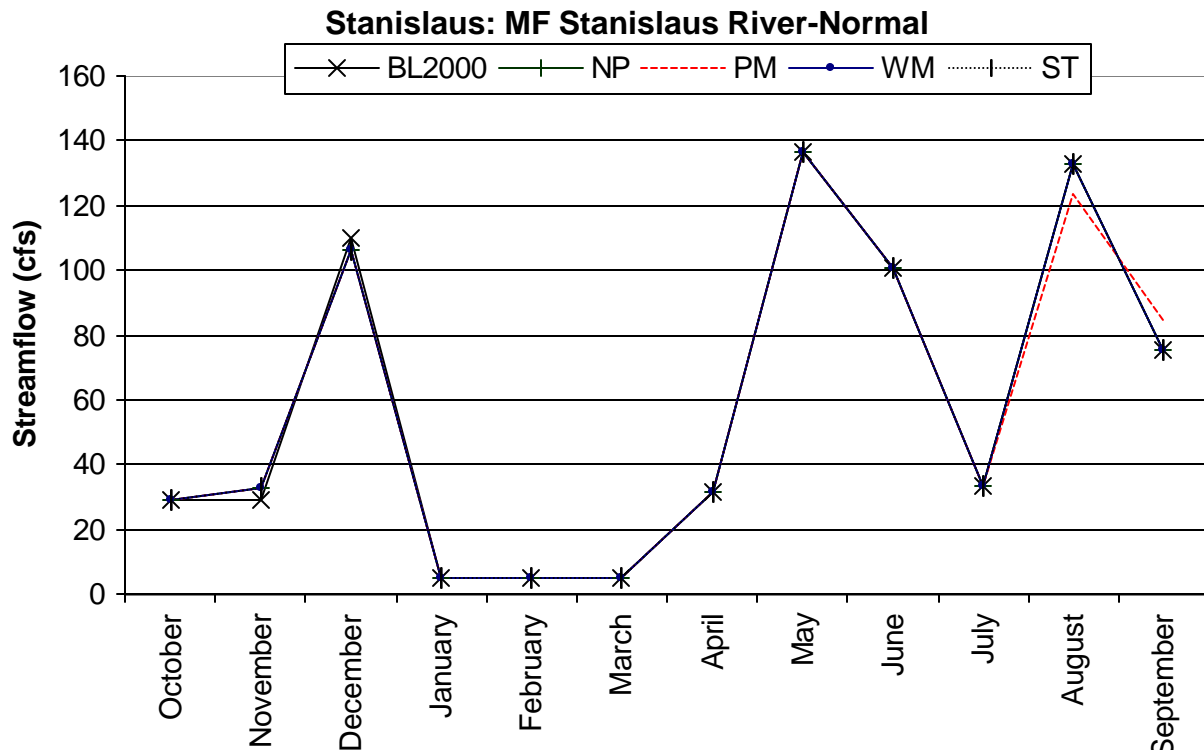


Motherlode: Appendix Figure-40 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water

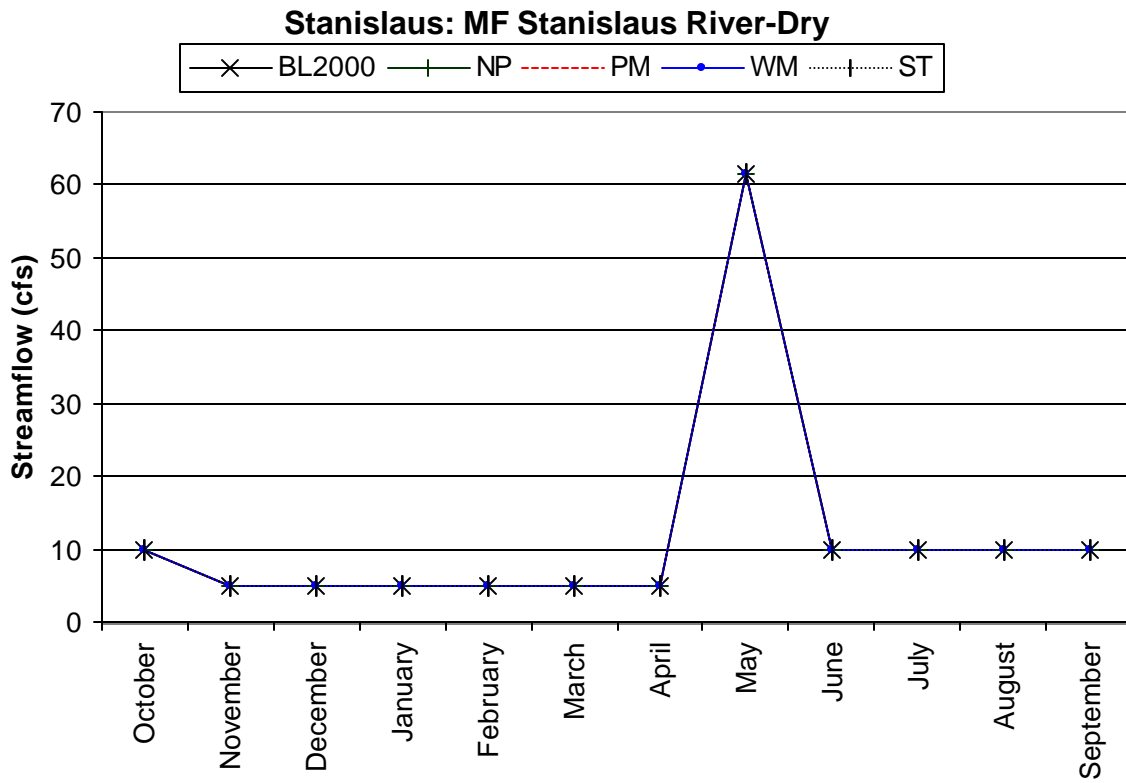
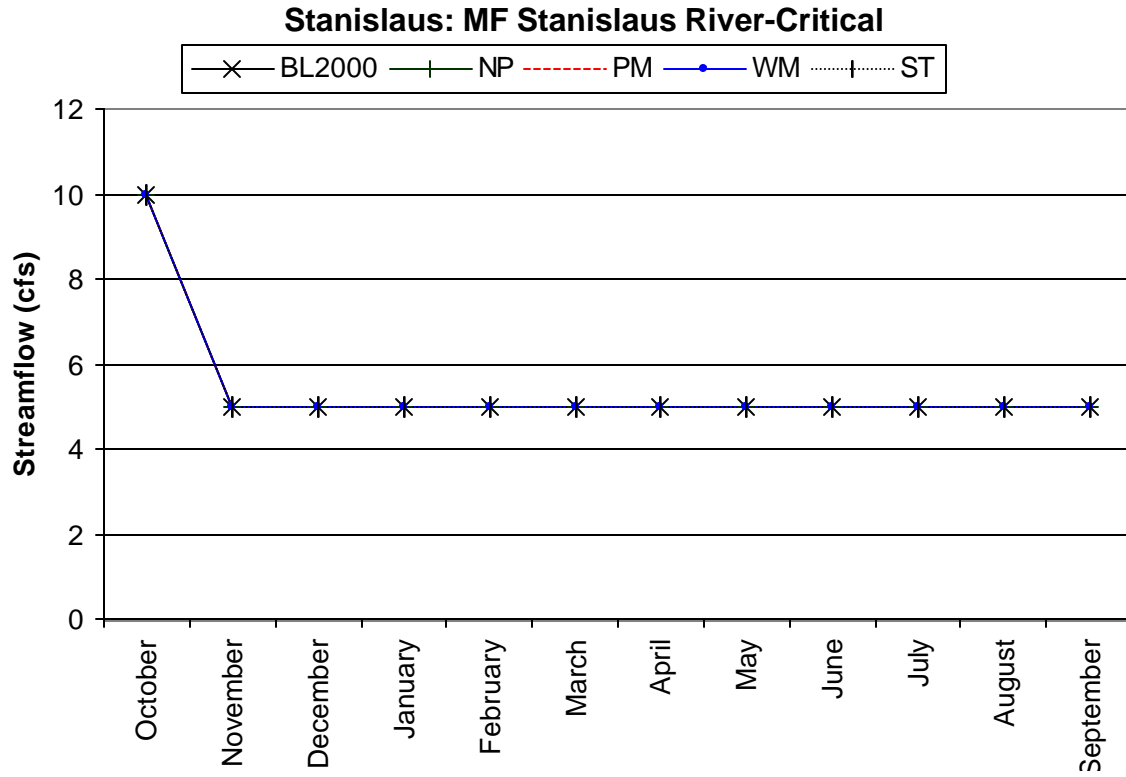




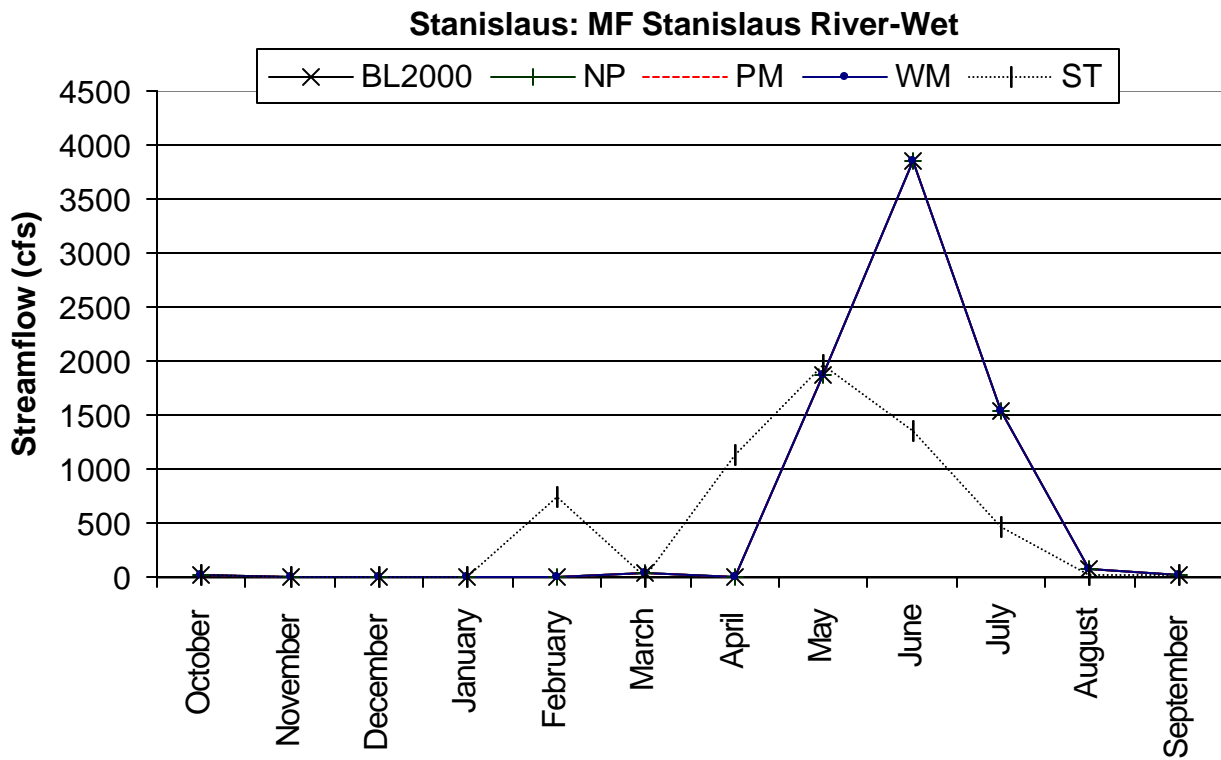
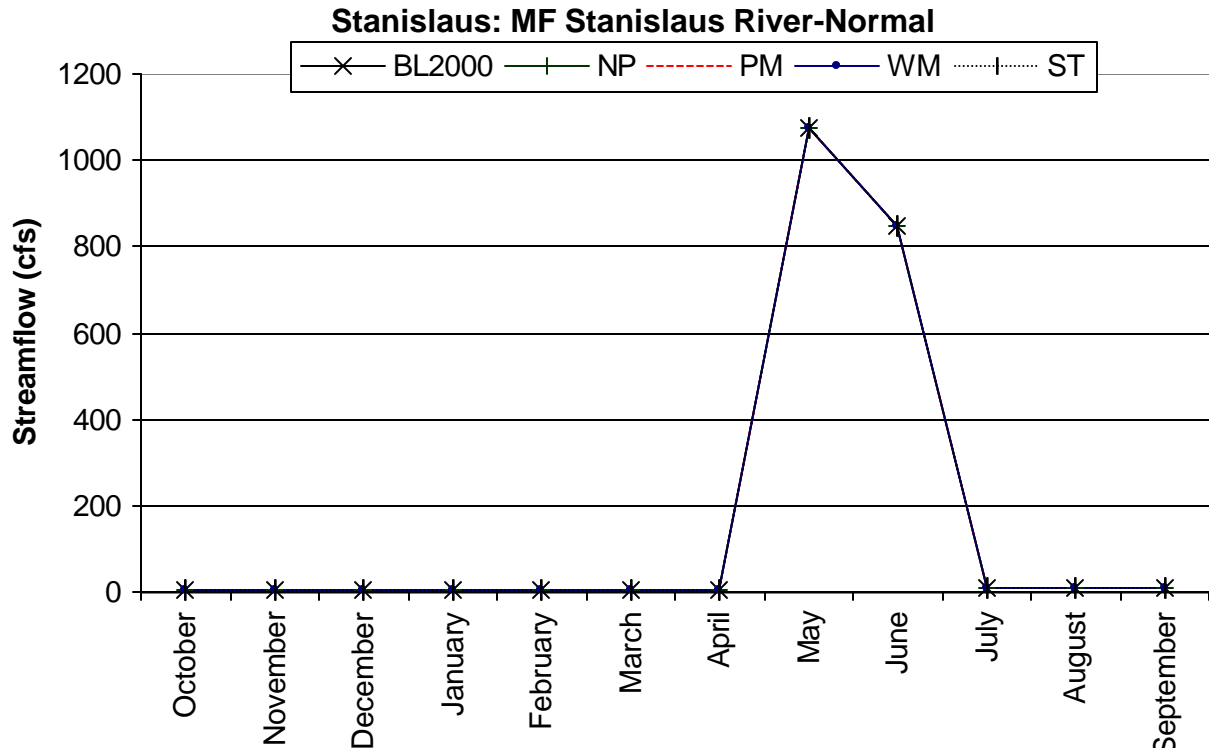
Motherlode: Appendix Figure-41 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :



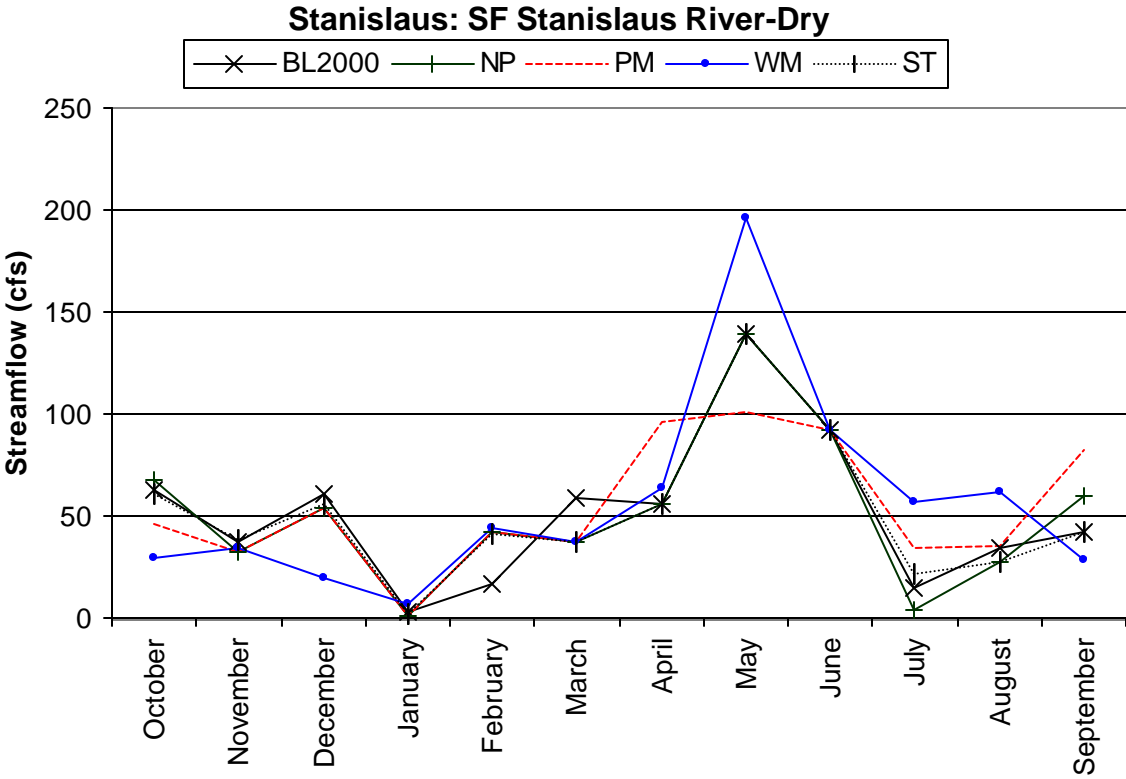
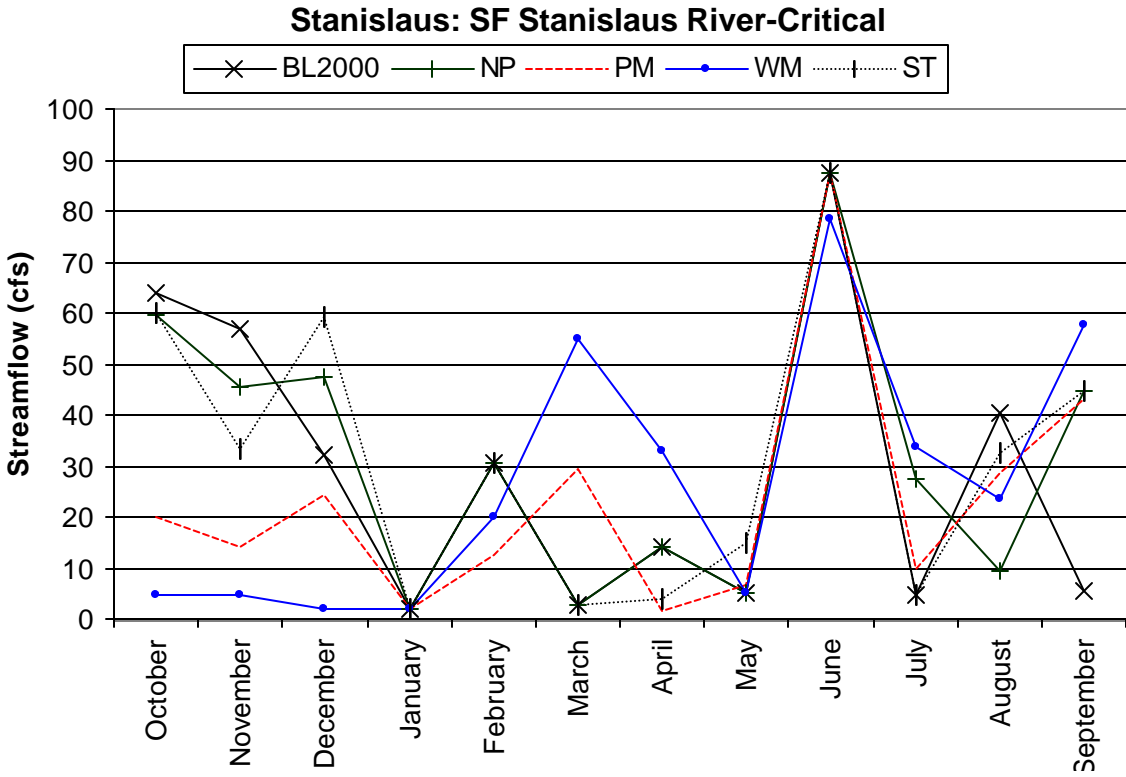
Motherlode: Appendix Figure-42 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water



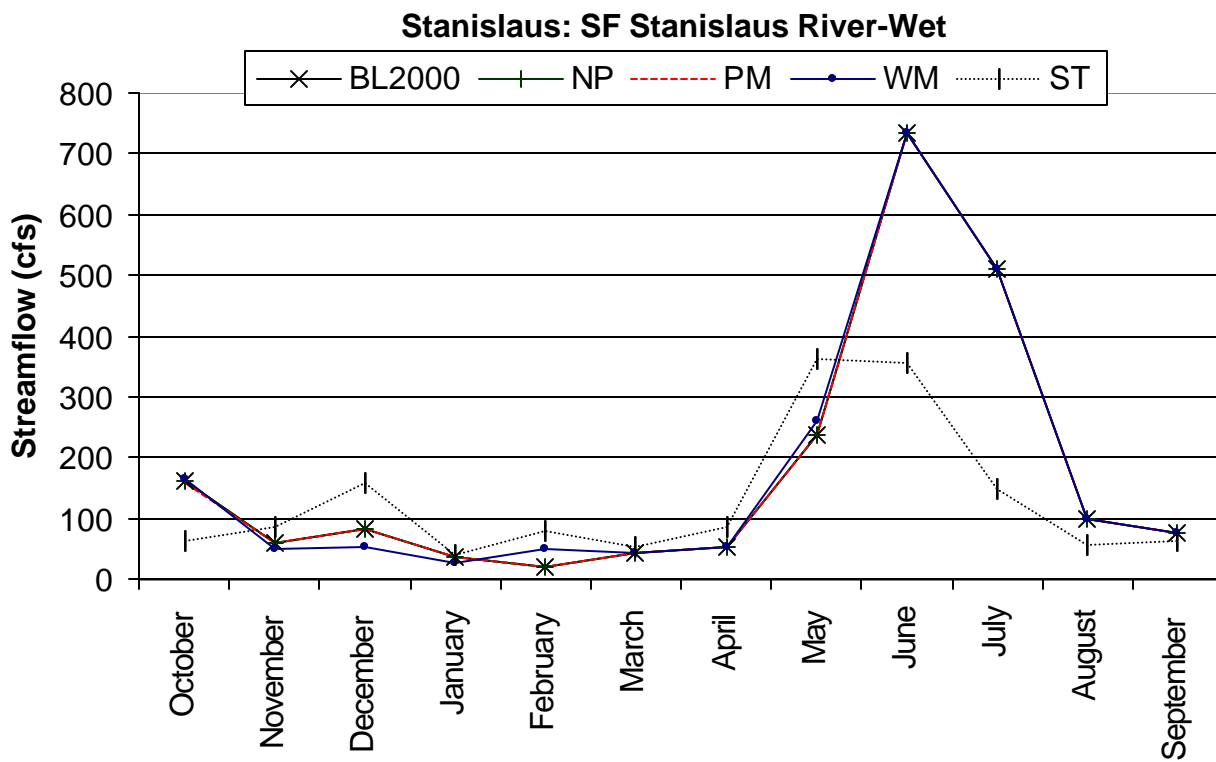
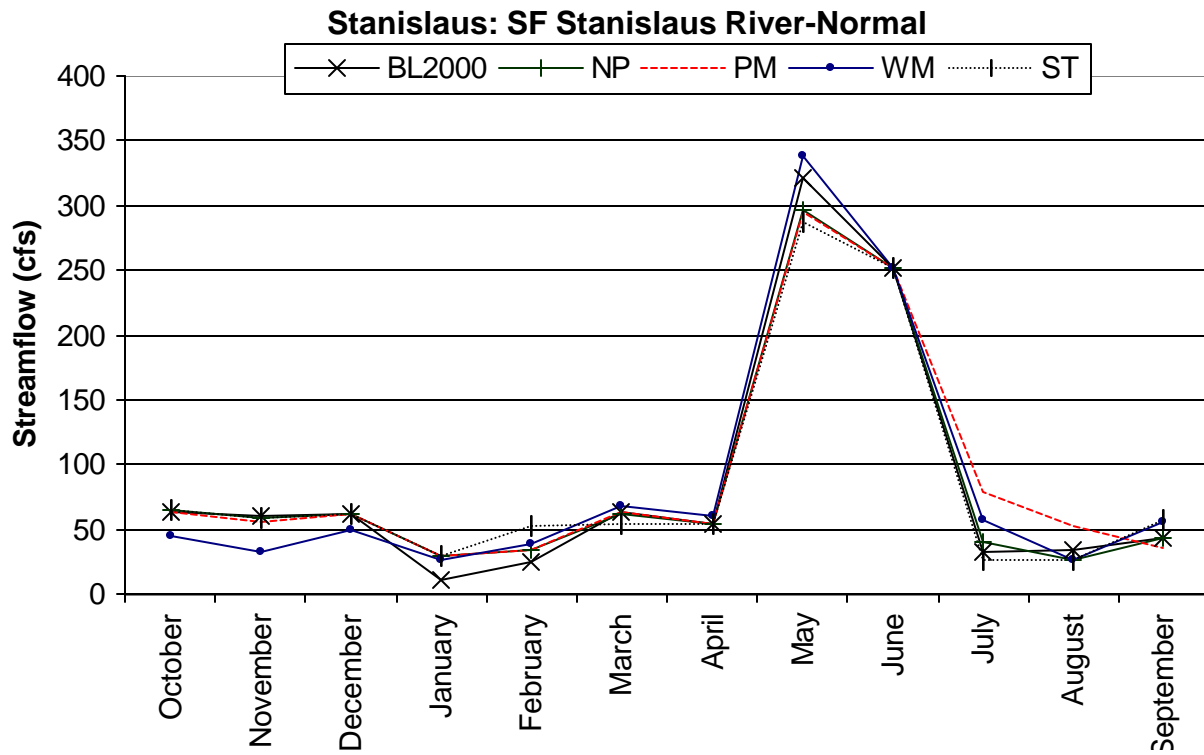
Motherlode: Appendix Figure-43 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :



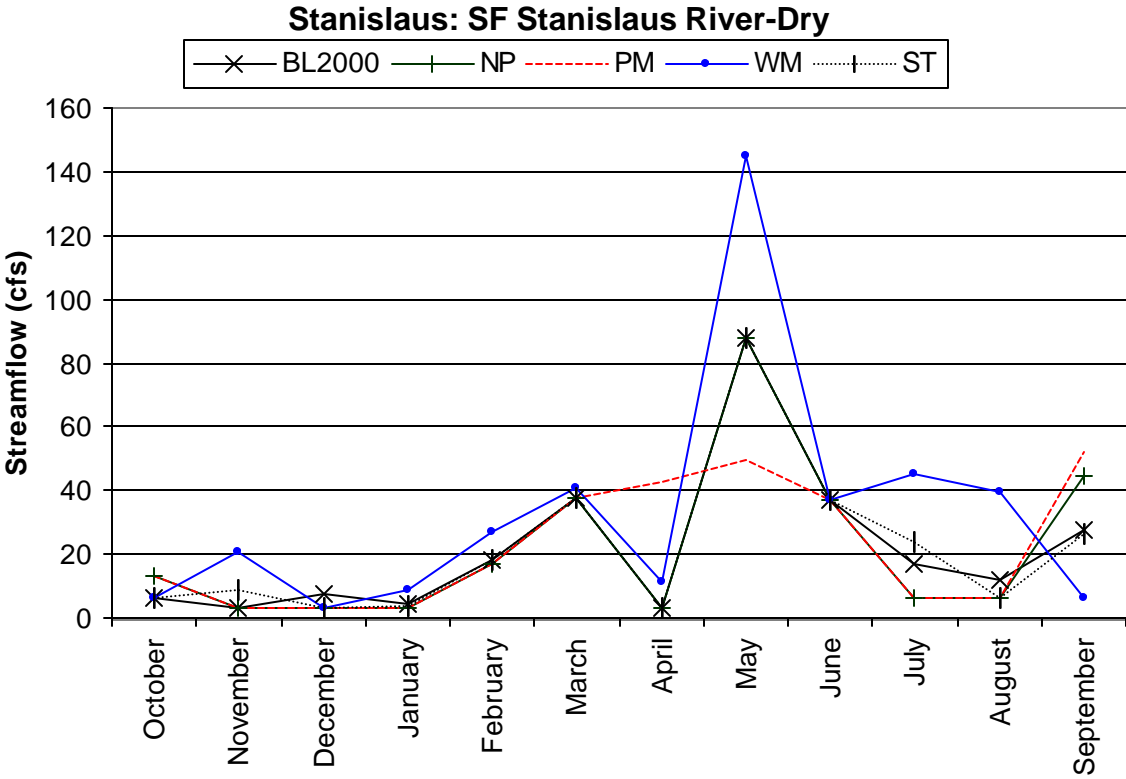
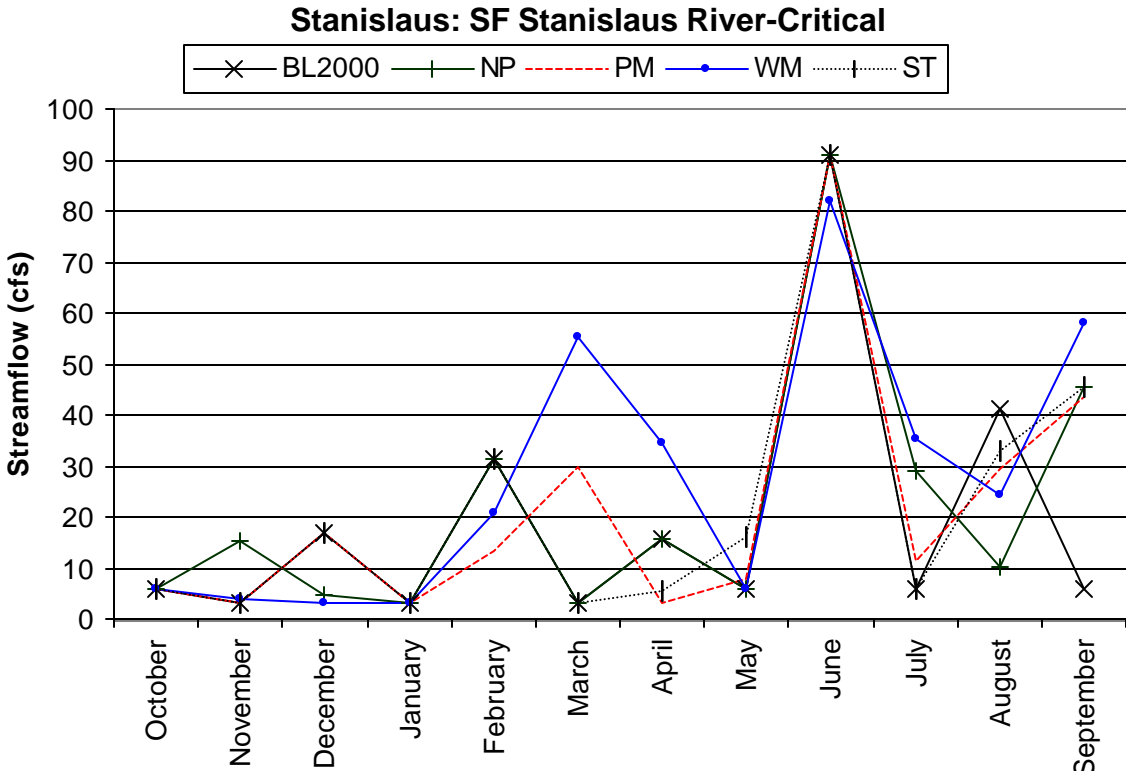
Motherlode: Appendix Figure-44 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water



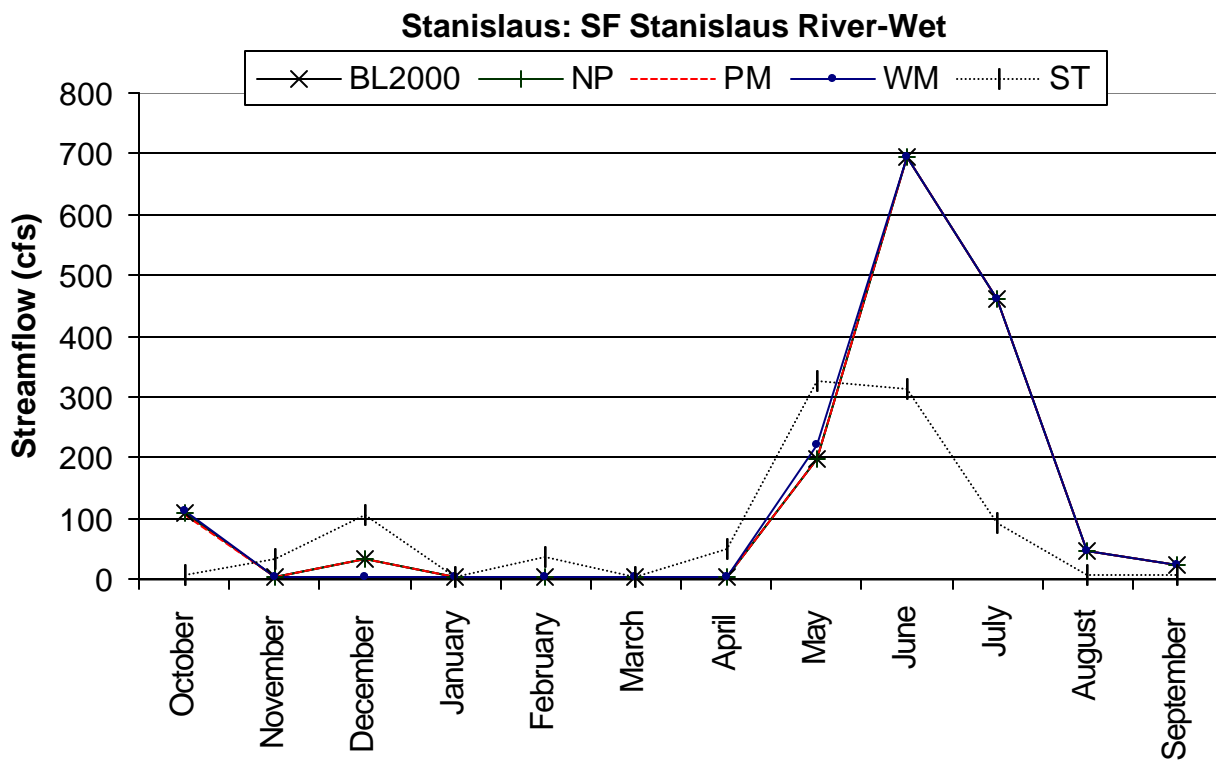
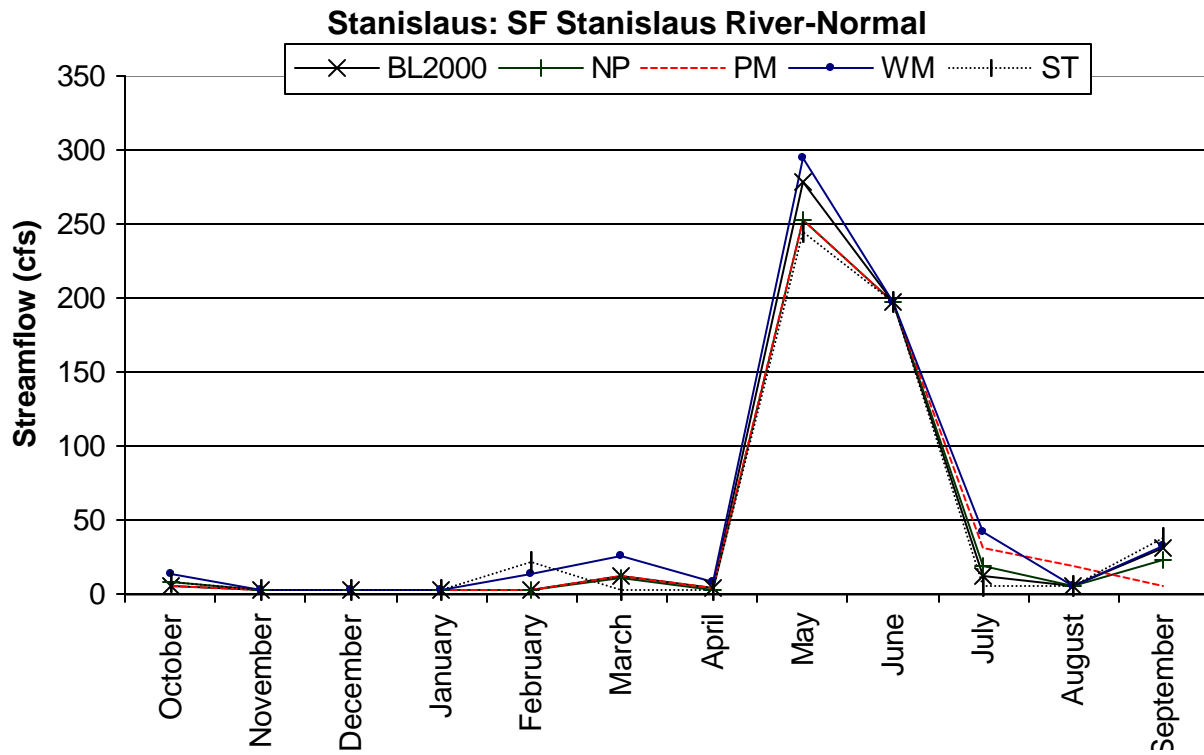
Motherlode: Appendix Figure-45 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :



Motherlode: Appendix Figure-46 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water

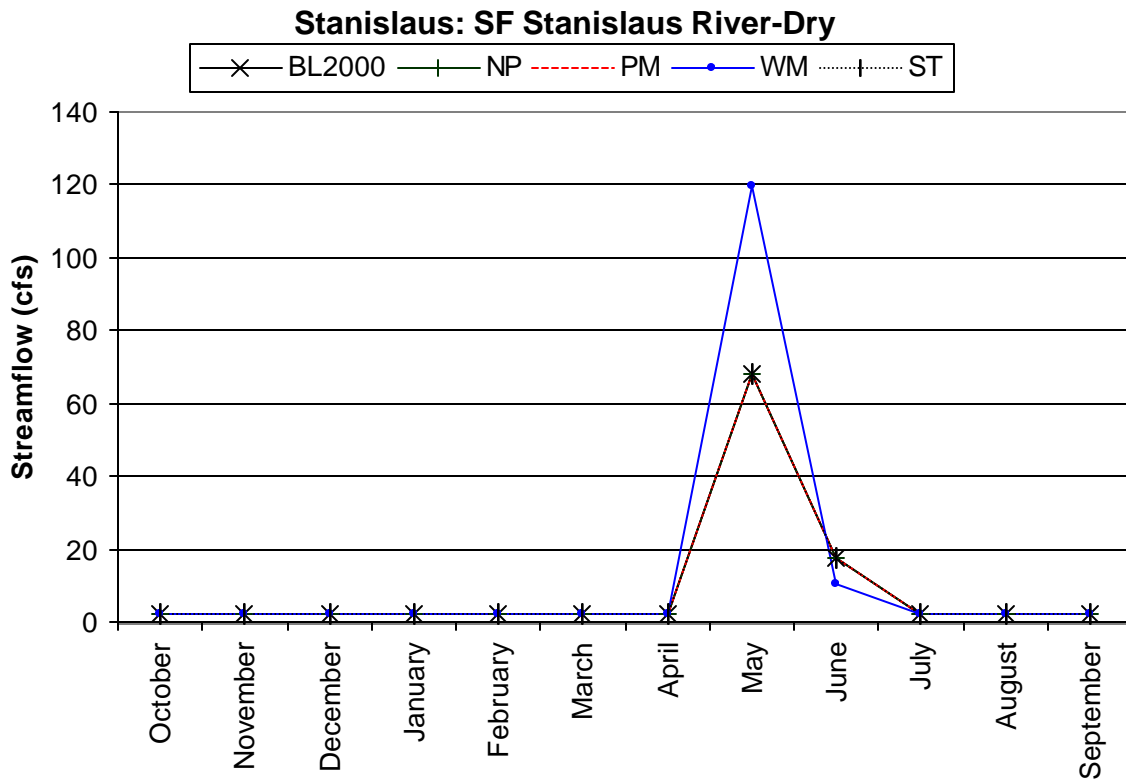
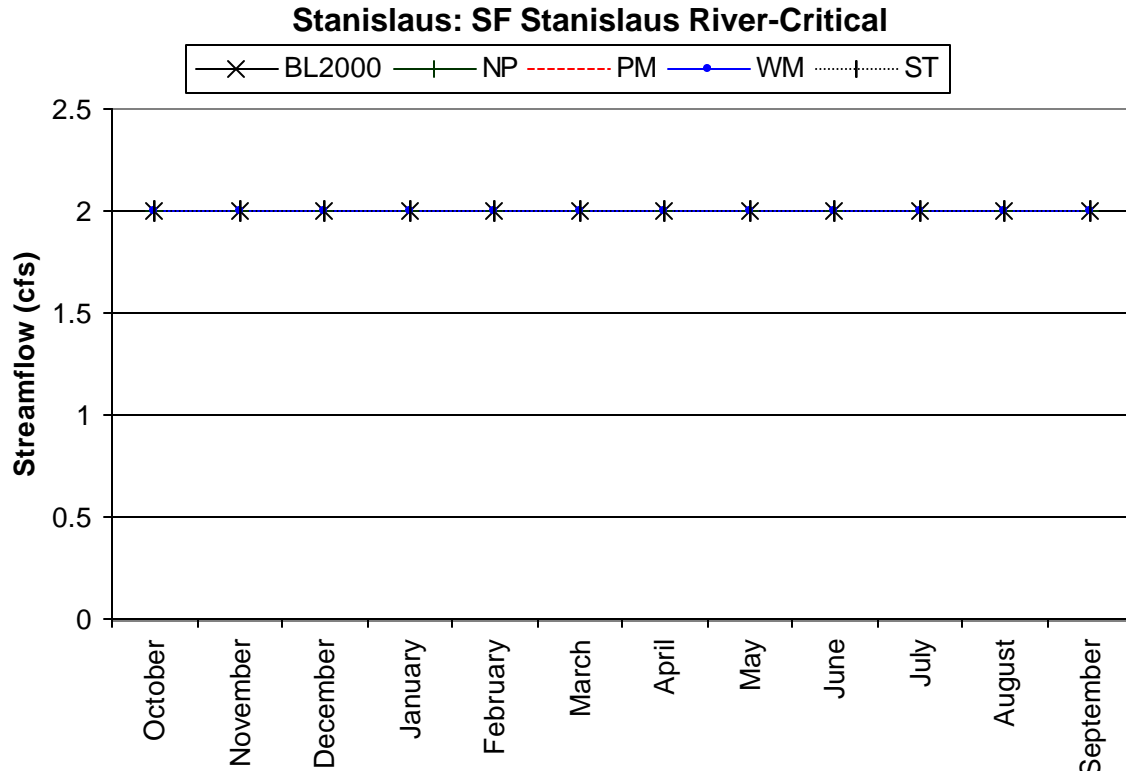


Motherlode: Appendix Figure-47 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :

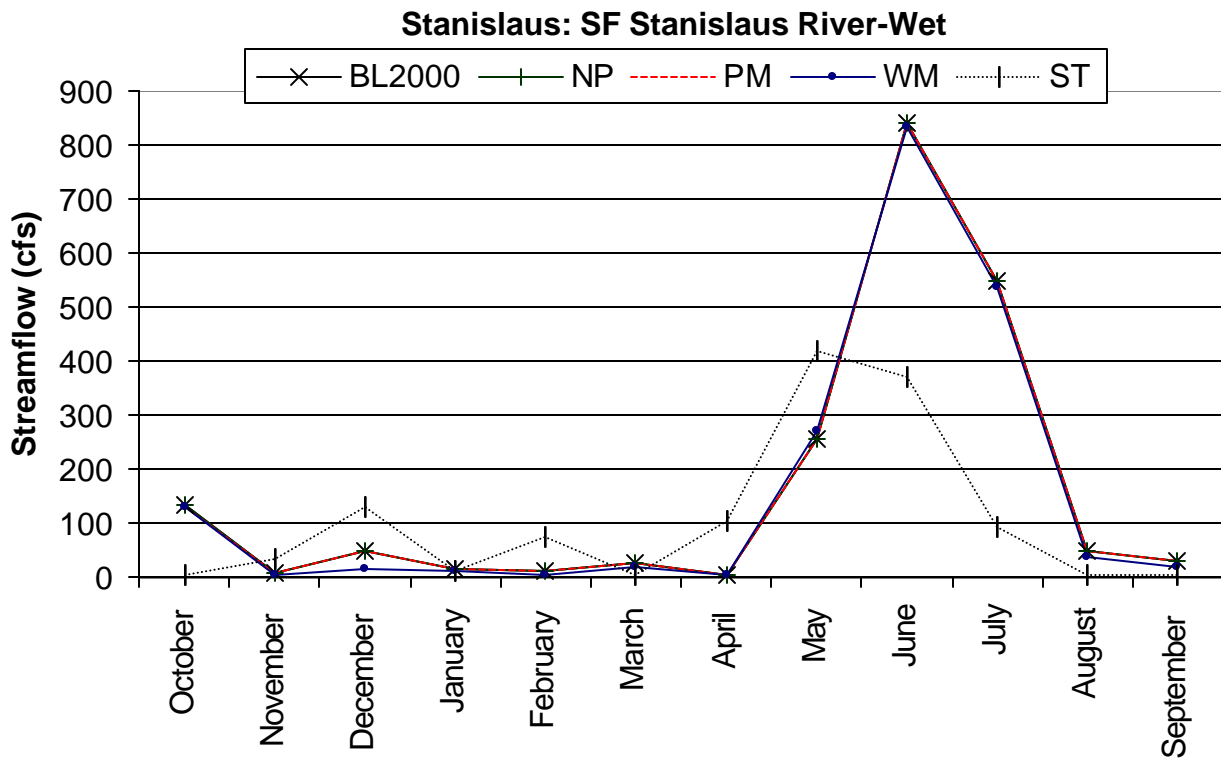
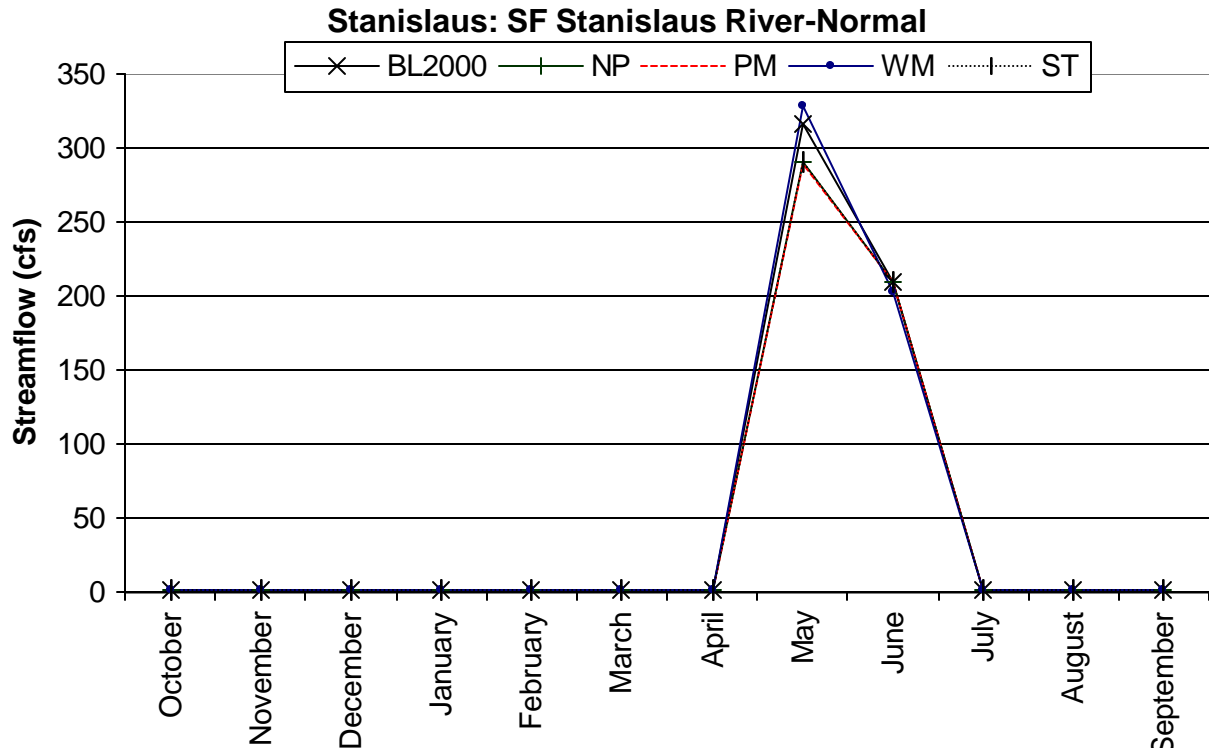


Motherlode: Appendix Figure-48 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water

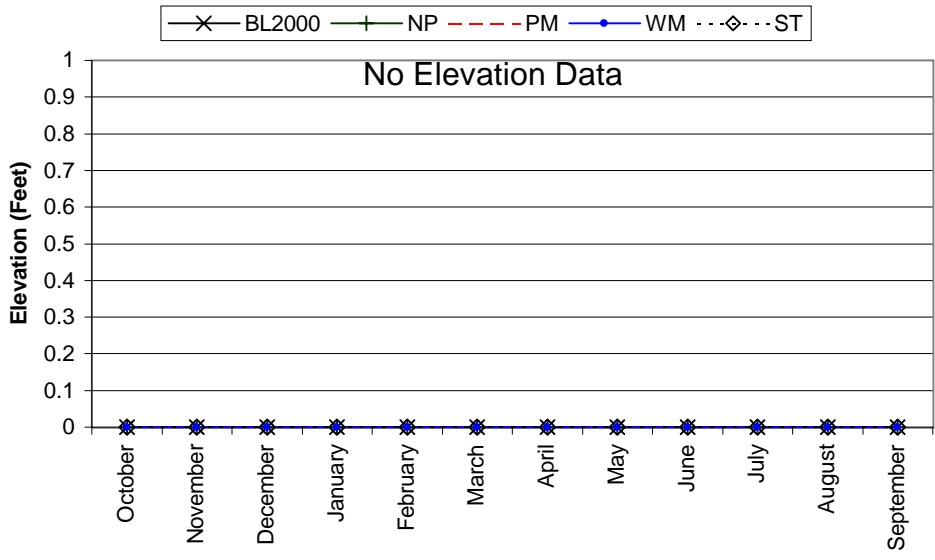
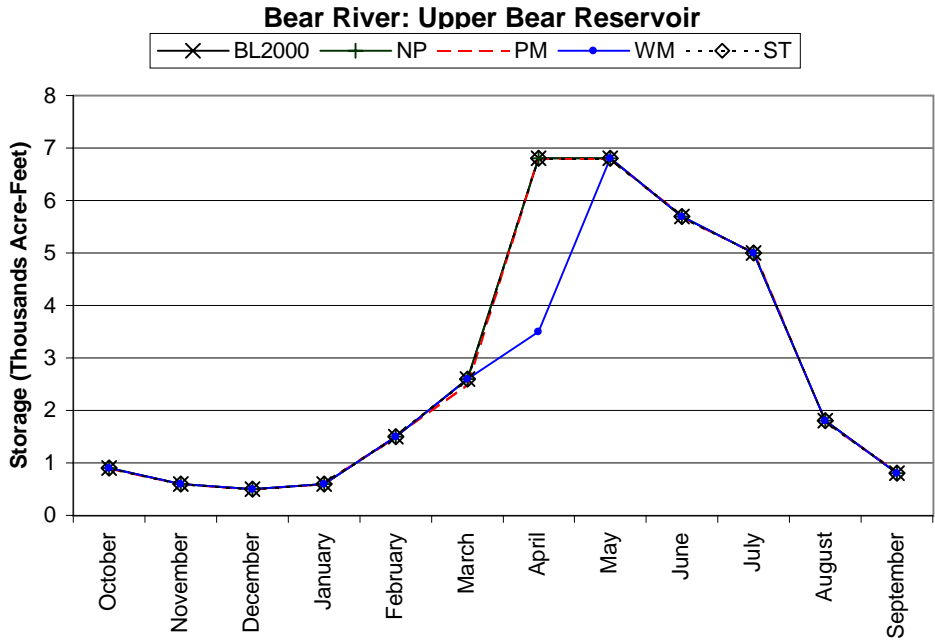




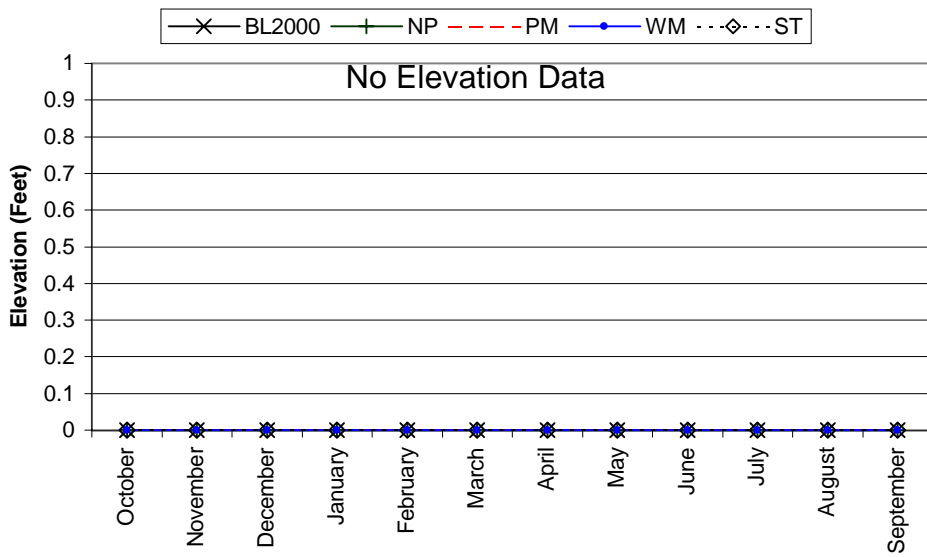
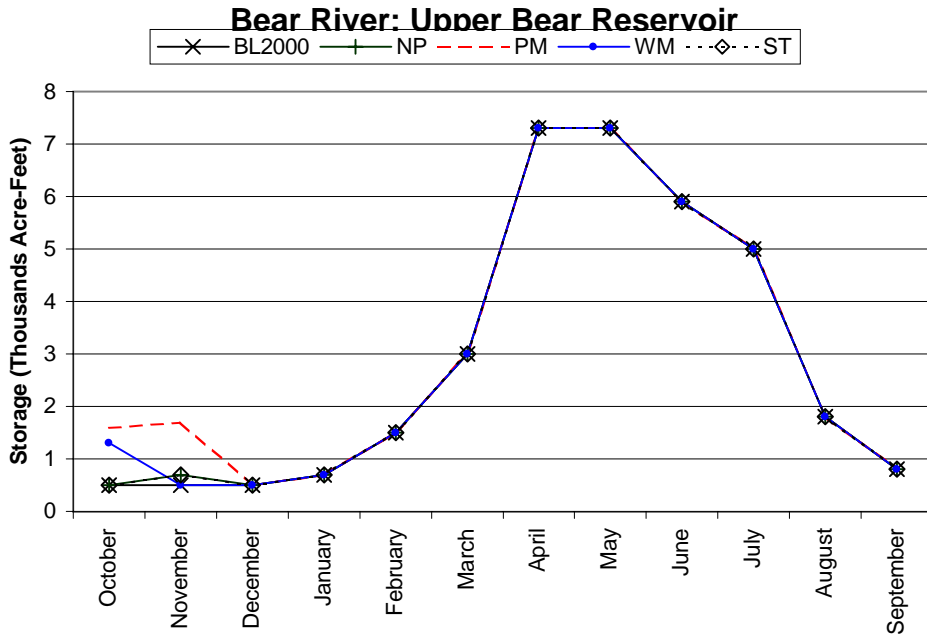
Motherlode: Appendix Figure-49 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water :



Motherlode: Appendix Figure-50 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water

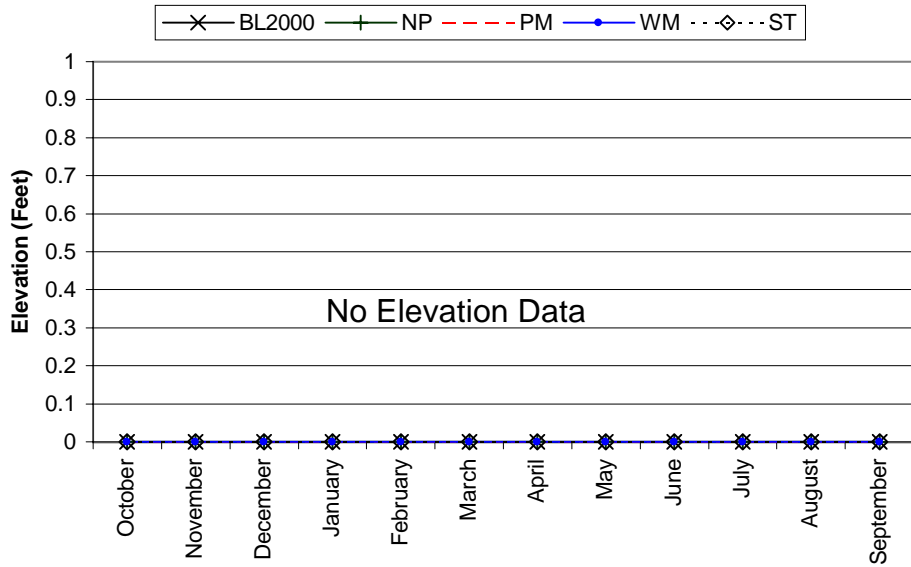
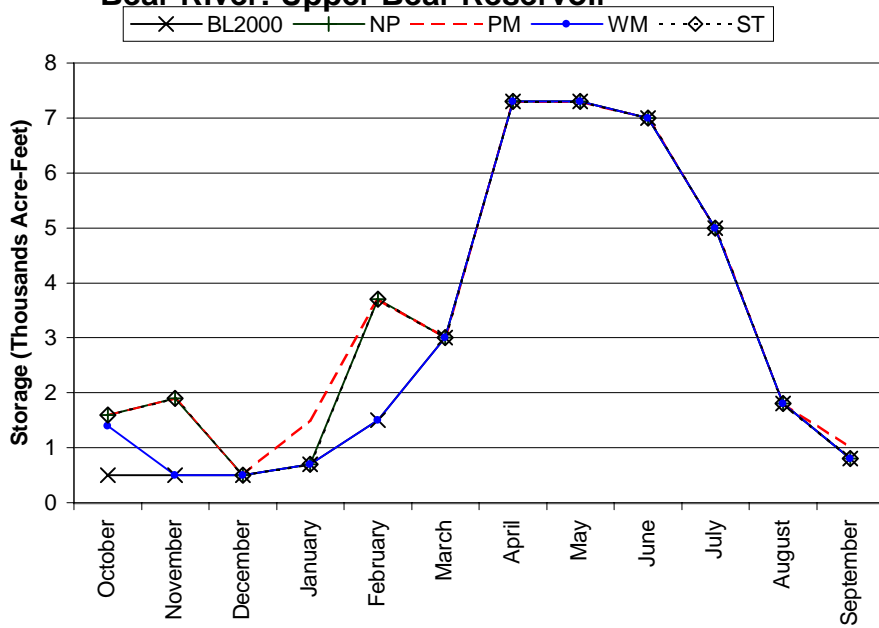


Motherlode: Appendix Figure-51 Modeled storage and elevations in a critically dry year, 1977.



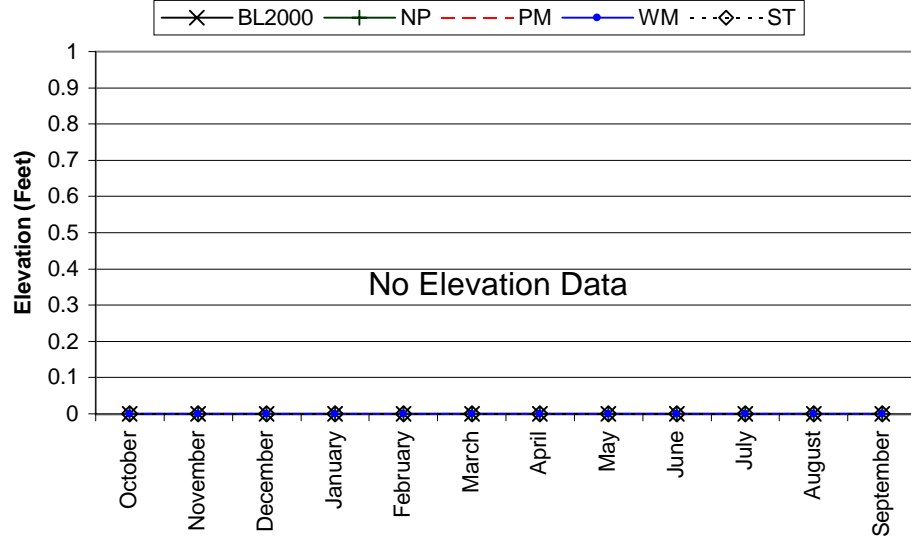
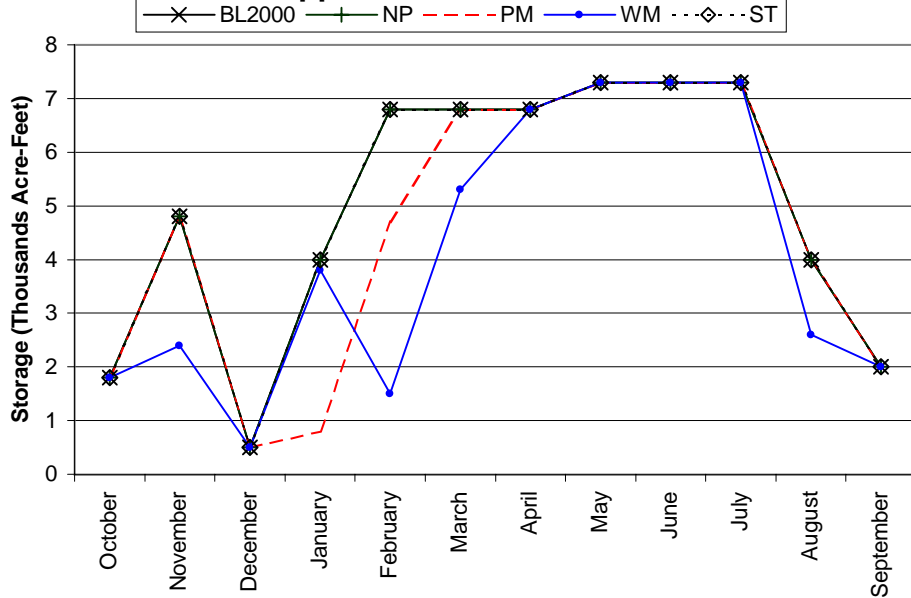
Motherlode: Appendix Figure-52 Modeled storage and elevations in a dry year, 1981.

### Bear River: Upper Bear Reservoir



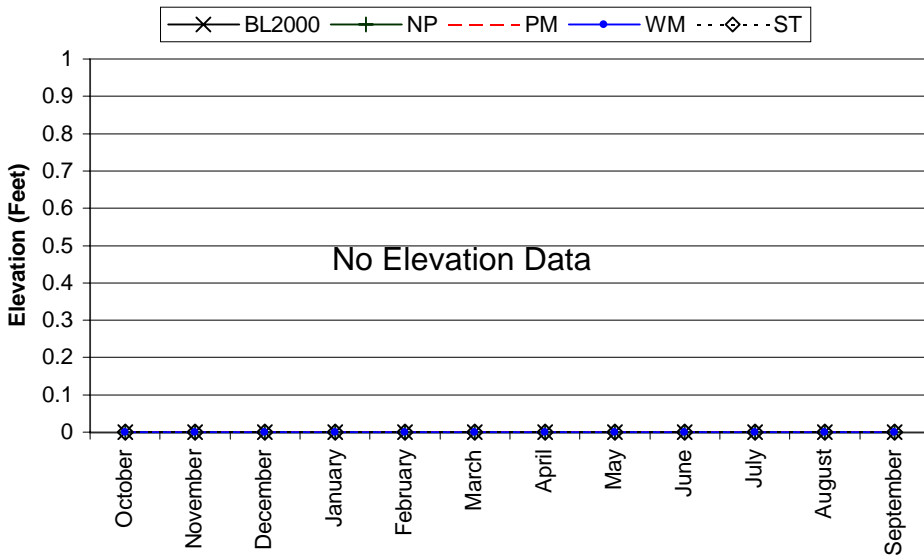
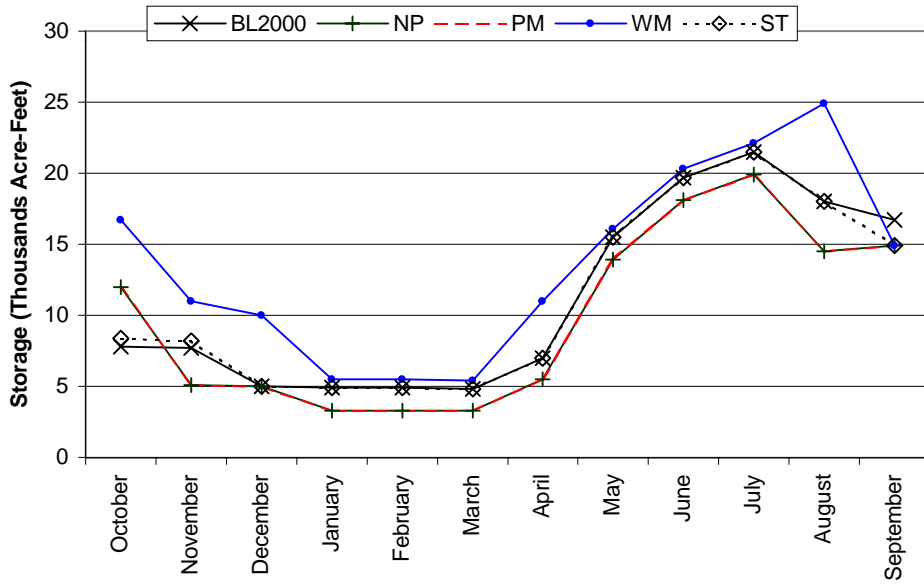
Motherlode: Appendix Figure-53 Modeled storage and elevations in a normal water year, 1979.

### Bear River: Upper Bear Reservoir



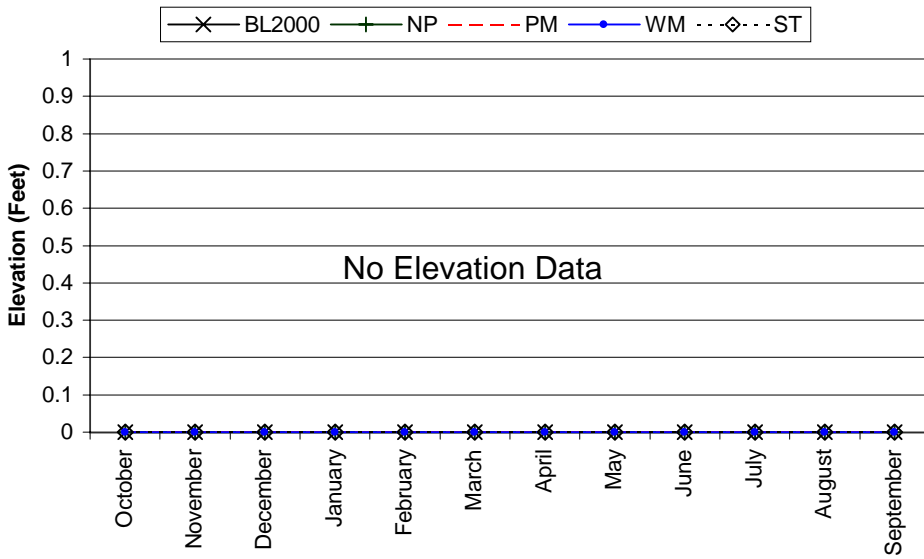
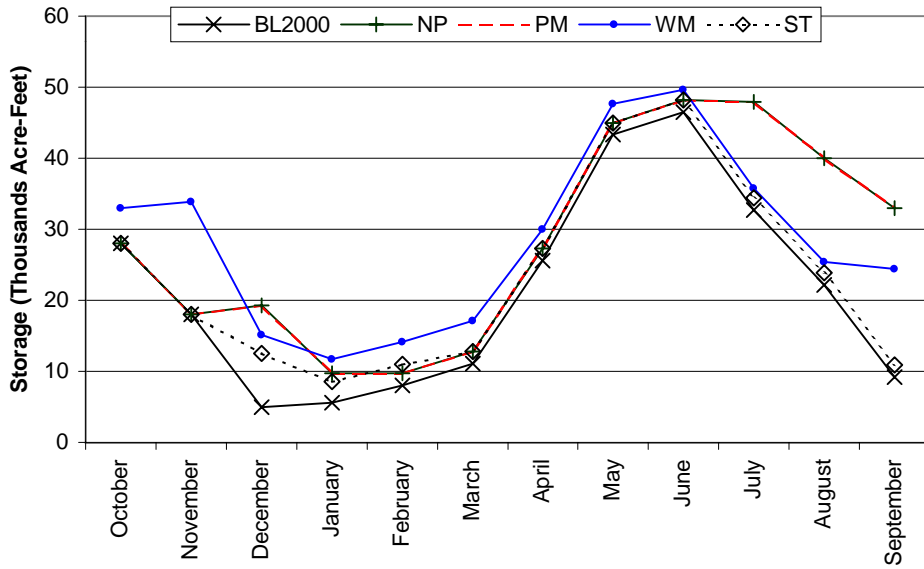
Motherlode: Appendix Figure-54 Modeled storage and elevations in a wet water year, 1983.

### Bear River: Lower Bear Reservoir



Motherlode: Appendix Figure-55 Modeled storage and elevations in a critically dry year, 1977.

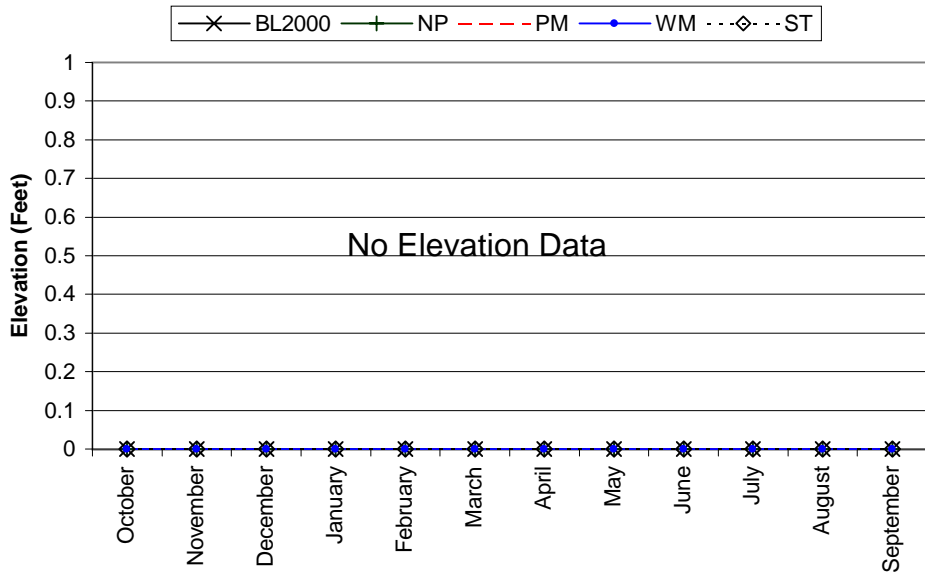
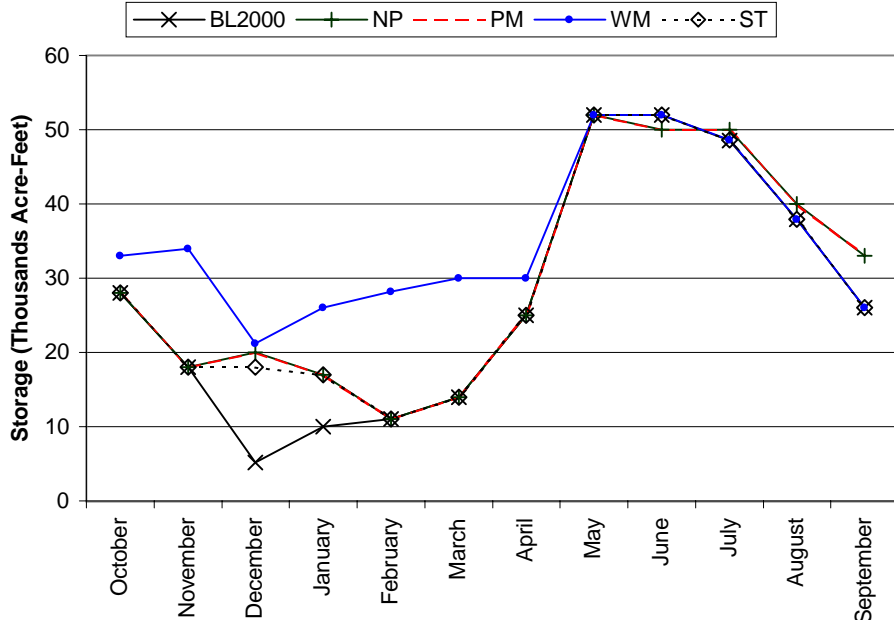
### Bear River: Lower Bear Reservoir



Motherlode: Appendix Figure-56 Modeled storage and elevations in a dry year, 1981.

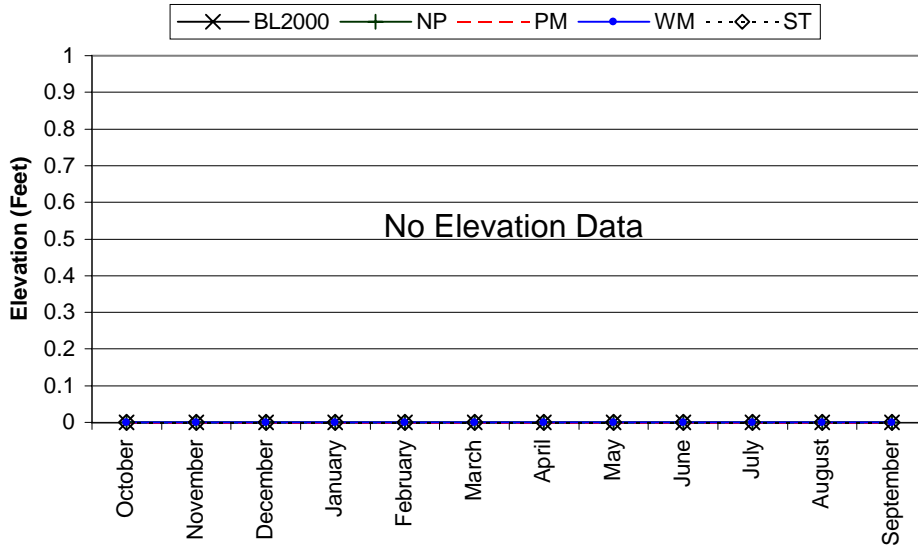
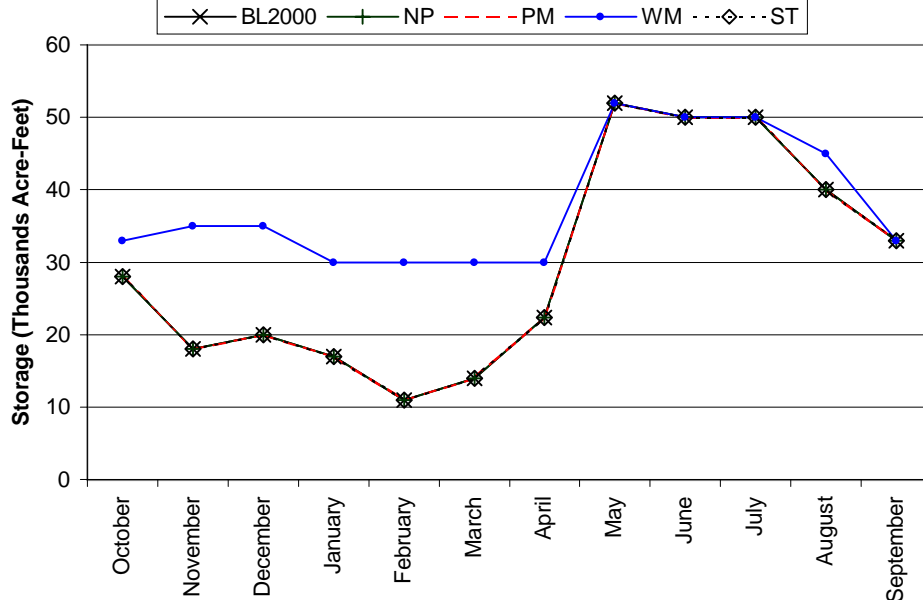


### Bear River: Lower Bear Reservoir



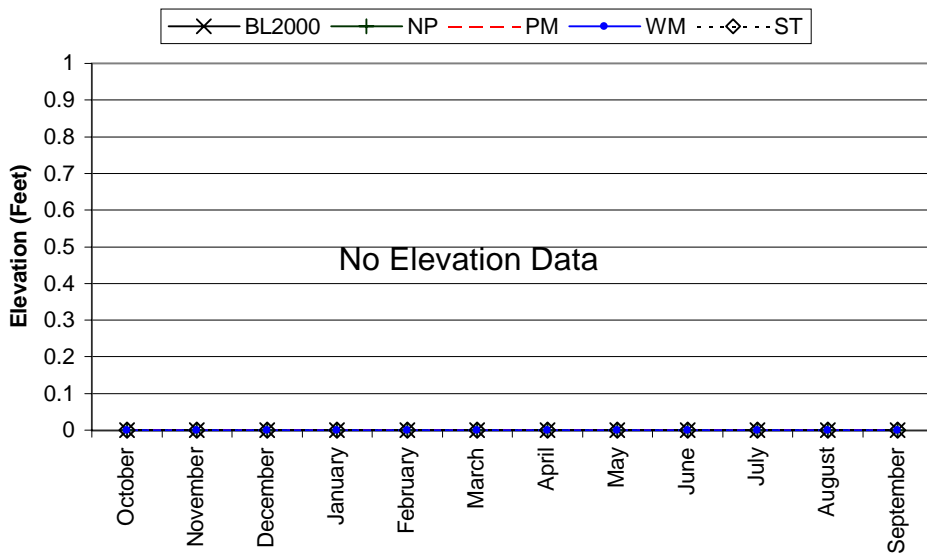
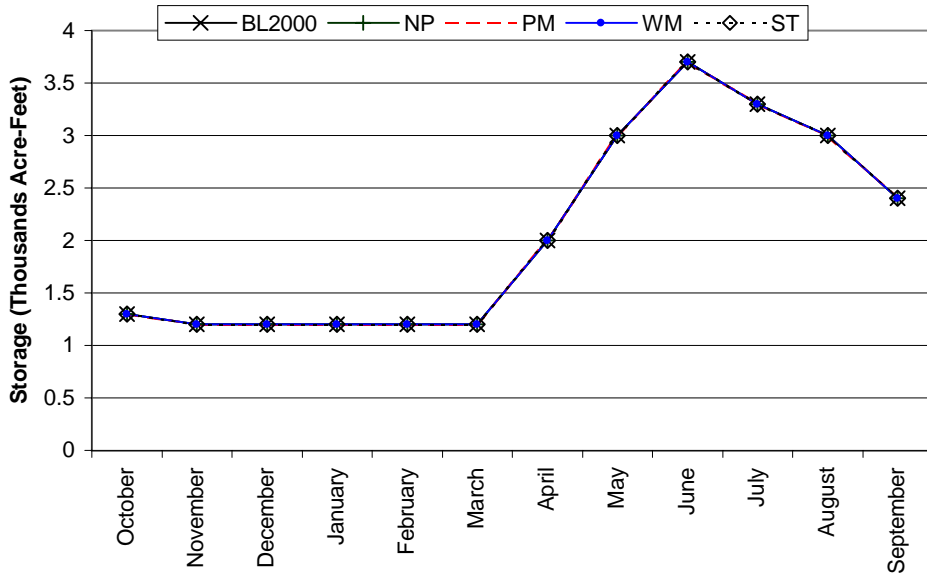
Motherlode: Appendix Figure-57 Modeled storage and elevations in a normal water year, 1979.

### Bear River: Lower Bear Reservoir



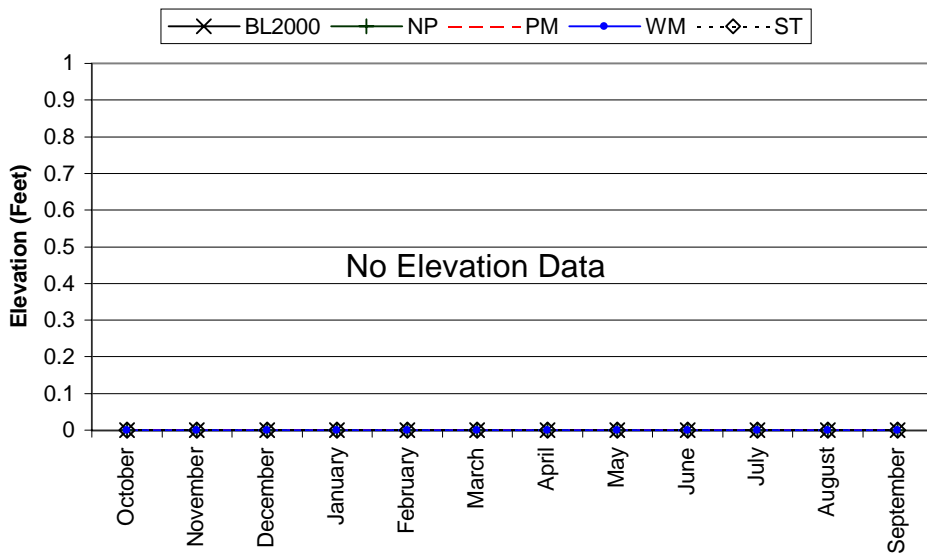
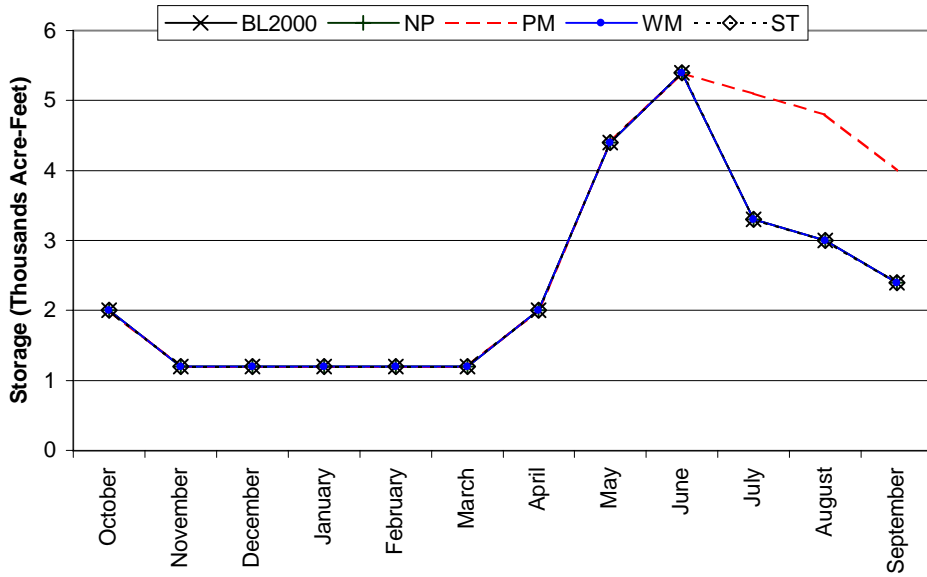
Motherlode: Appendix Figure-58 Modeled storage and elevations in a wet water year, 1983.

### NF Mokelumne: Twin and Meadows Lakes



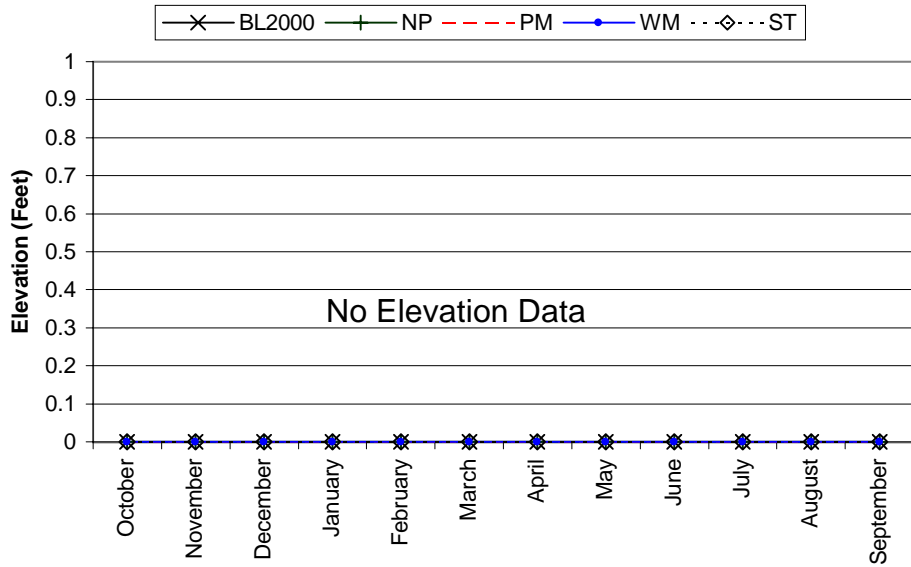
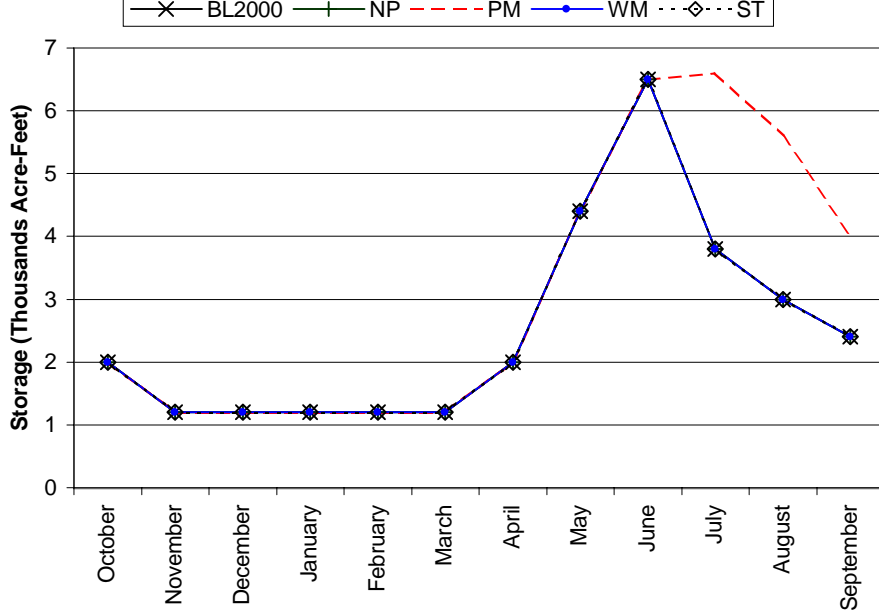
Motherlode: Appendix Figure-59 Modeled storage and elevations in a critically dry year, 1977.

### NF Mokelumne: Twin and Meadows Lakes



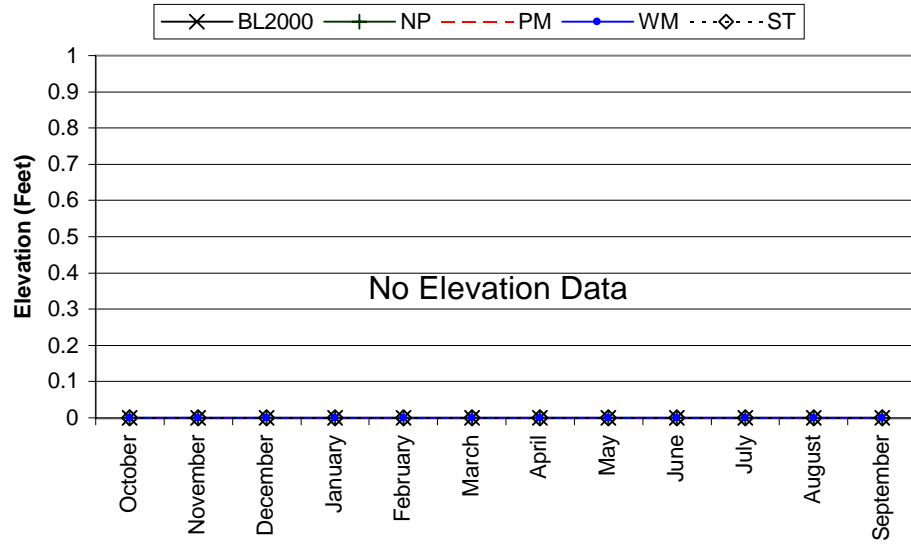
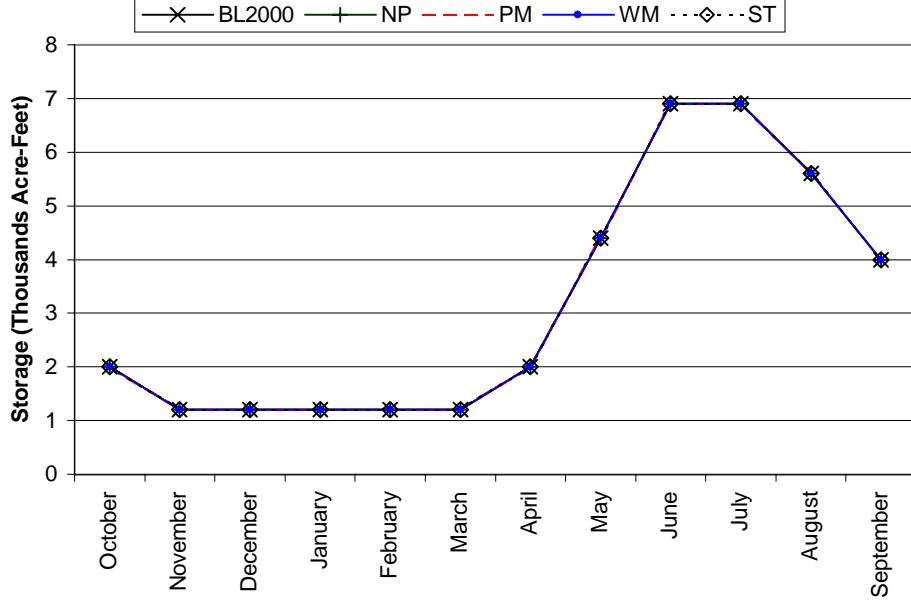
Motherlode: Appendix Figure-60 Modeled storage and elevations in a dry year, 1981.

### NF Mokelumne: Twin and Meadows Lakes



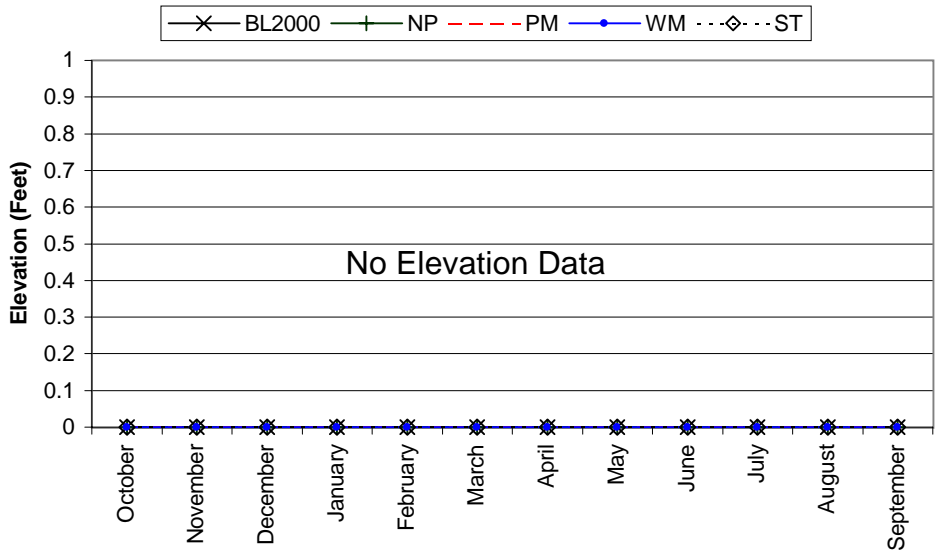
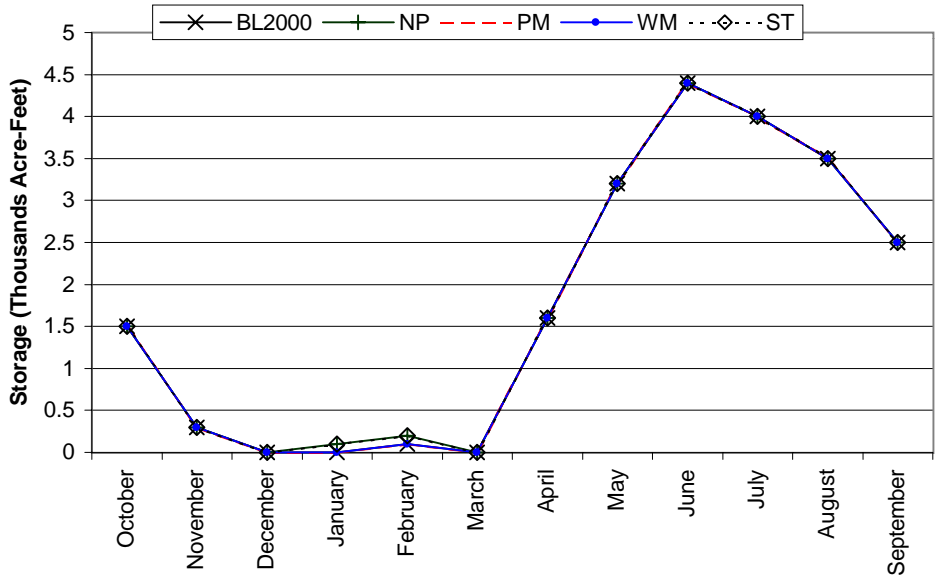
Motherlode: Appendix Figure-61 Modeled storage and elevations in a normal water year, 1979.

### NF Mokelumne: Twin and Meadows Lakes



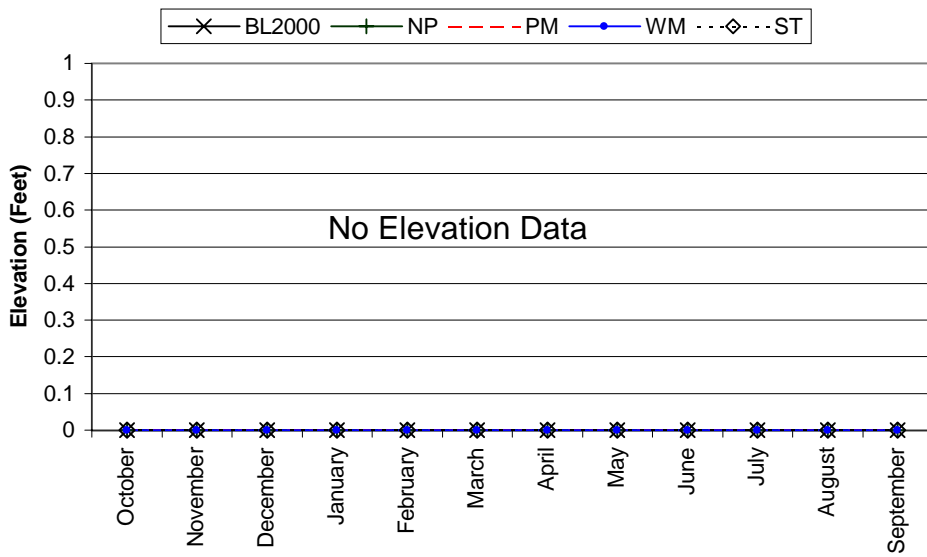
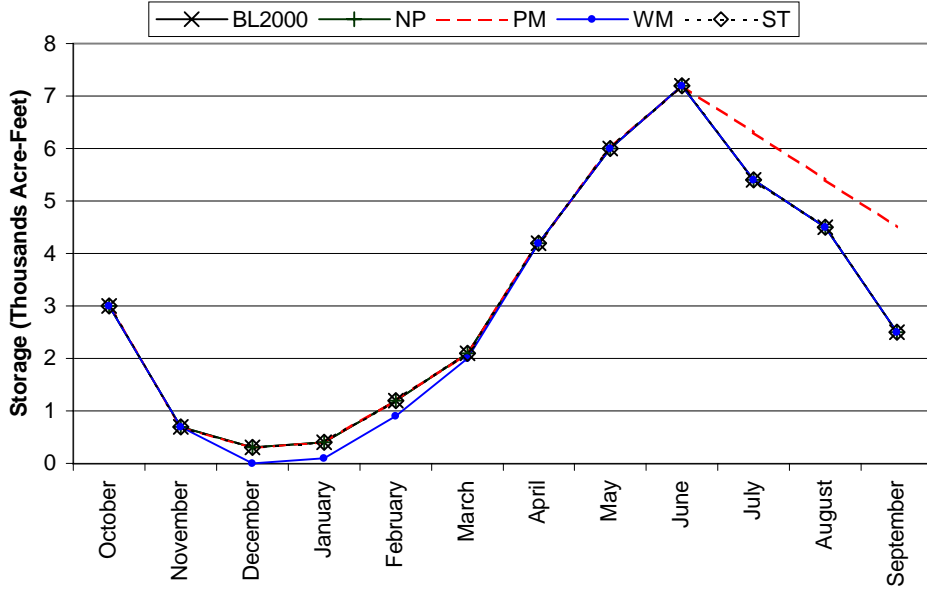
Motherlode: Appendix Figure-62 Modeled storage and elevations in a wet water year, 1983.

### NF Mokelumne: Blue Lakes



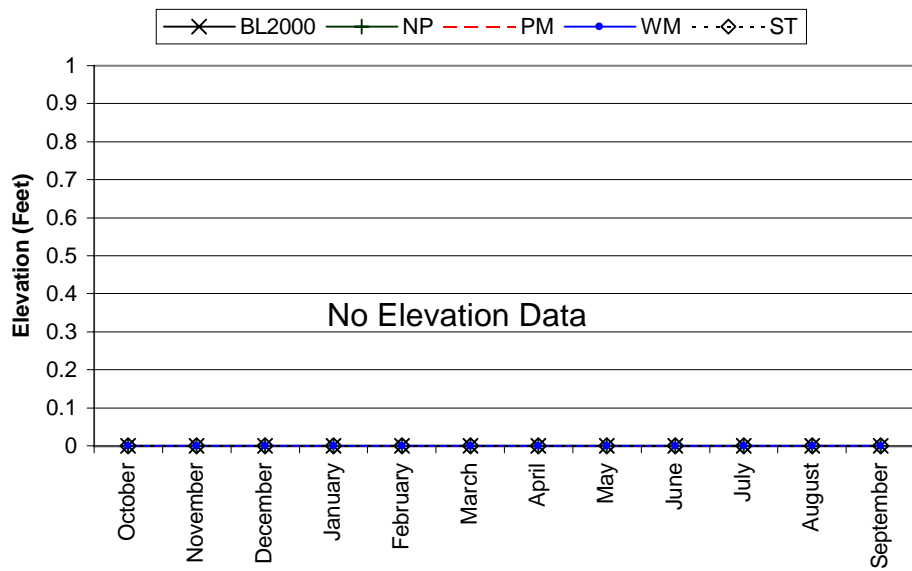
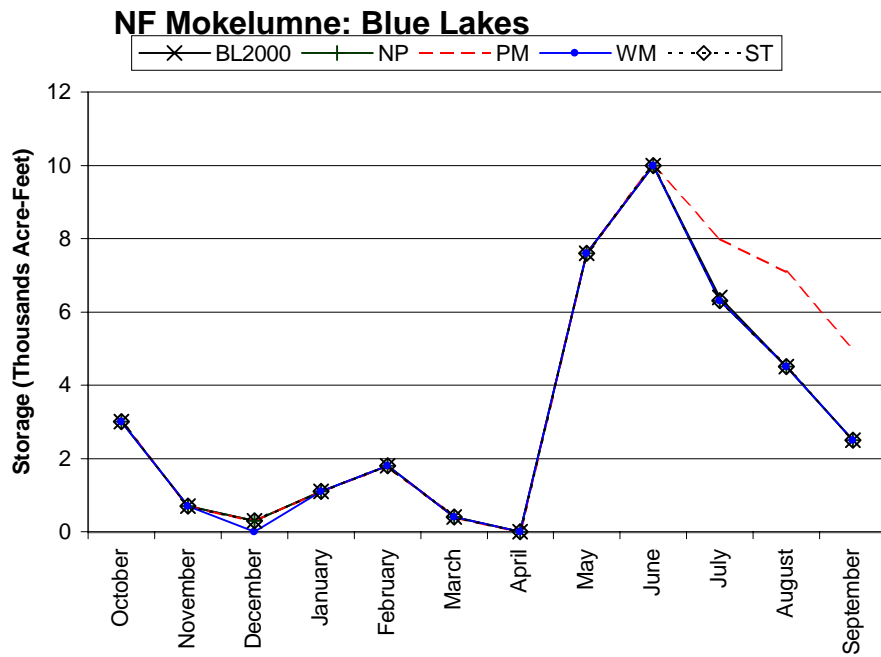
Motherlode: Appendix Figure-63 Modeled storage and elevations in a critically dry year, 1977.

### NF Mokelumne: Blue Lakes



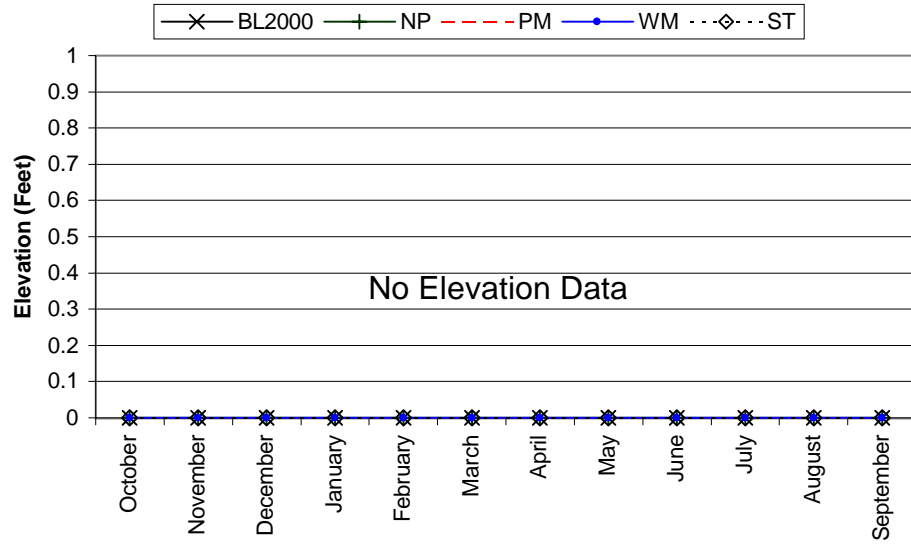
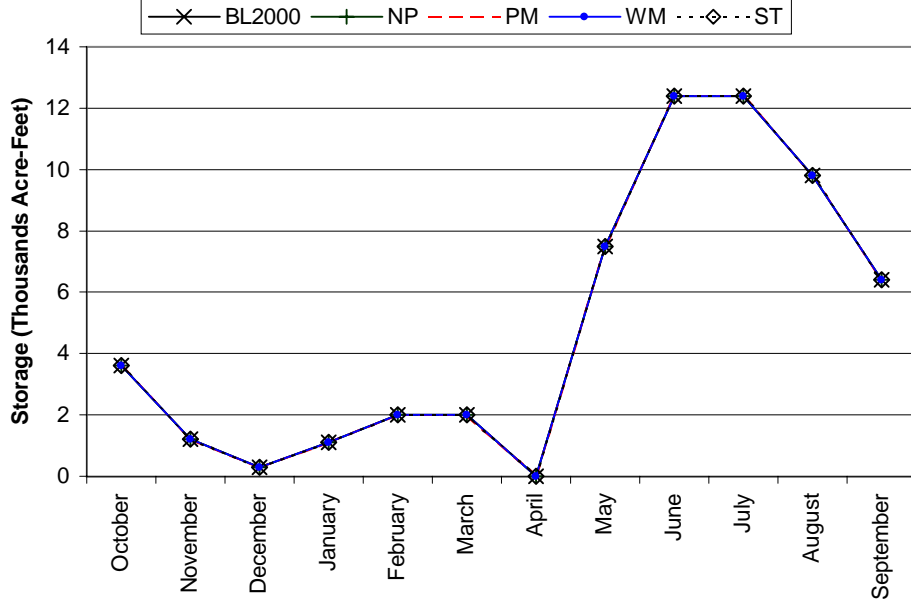
Motherlode: Appendix Figure-64 Modeled storage and elevations in a dry year, 1981.





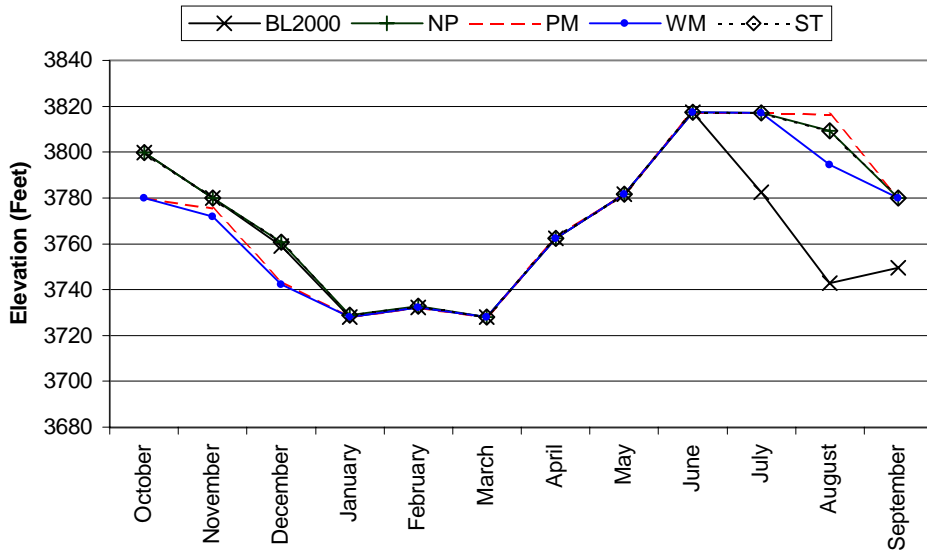
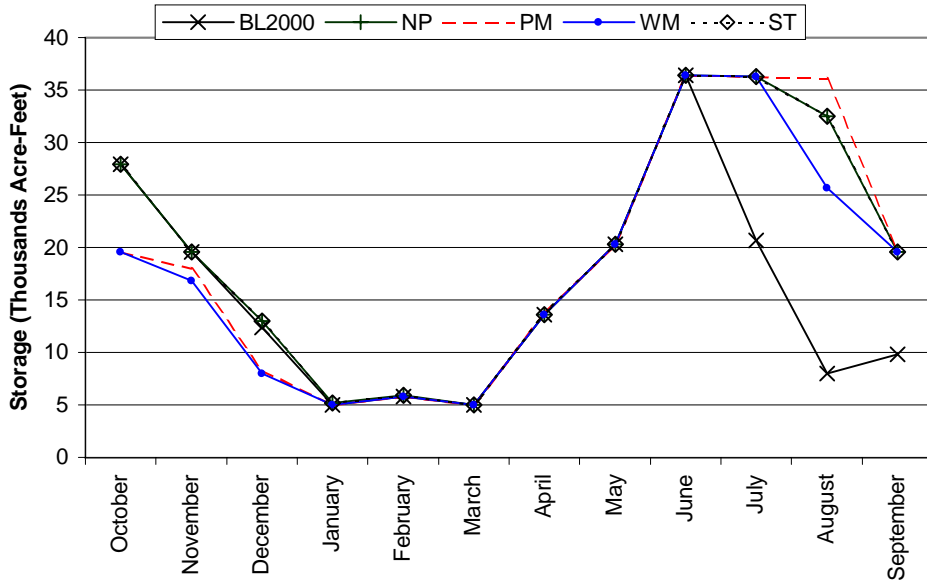
Motherlode: Appendix Figure-65 Modeled storage and elevations in a normal water year, 1979.

### NF Mokelumne: Blue Lakes



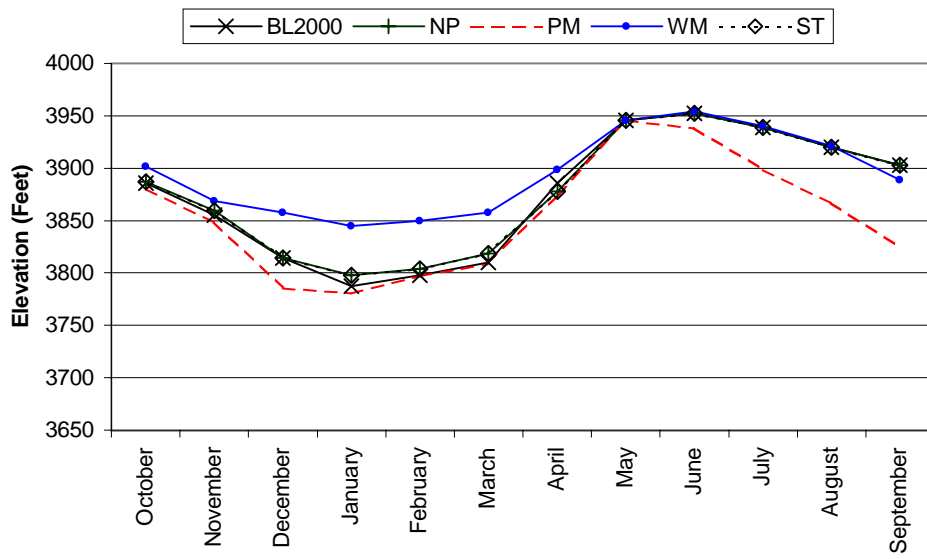
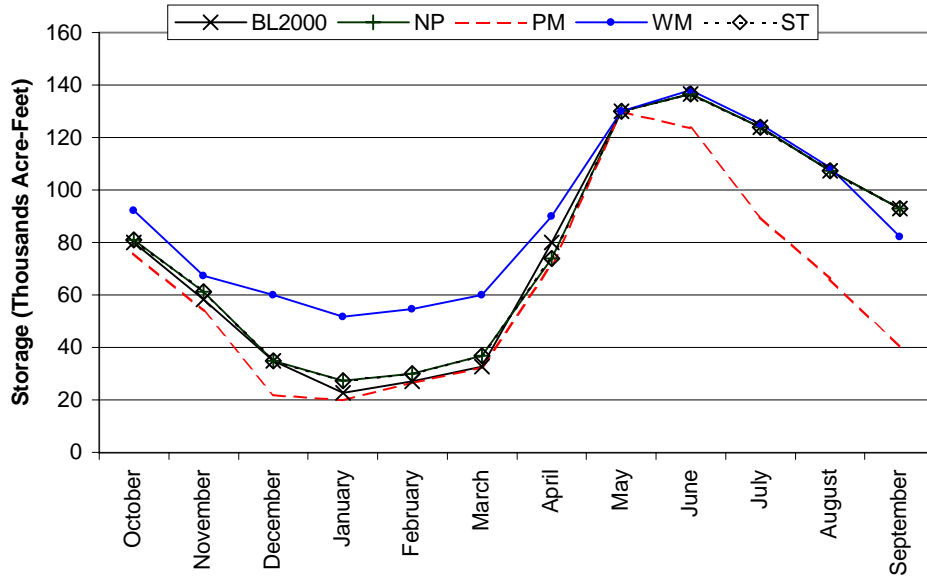
Motherlode: Appendix Figure-66 Modeled storage and elevations in a wet water year, 1983.

### NF Mokelumne: Salt Springs Reservoir

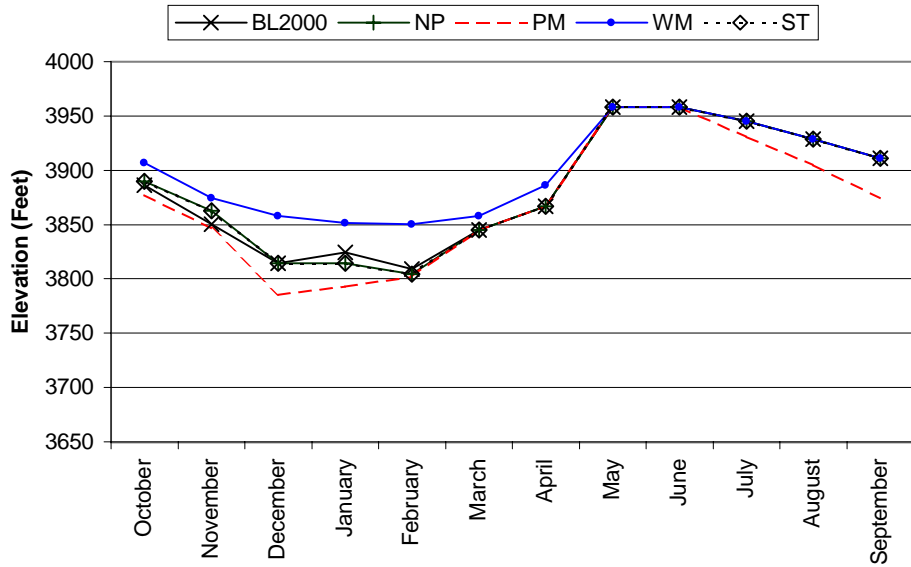
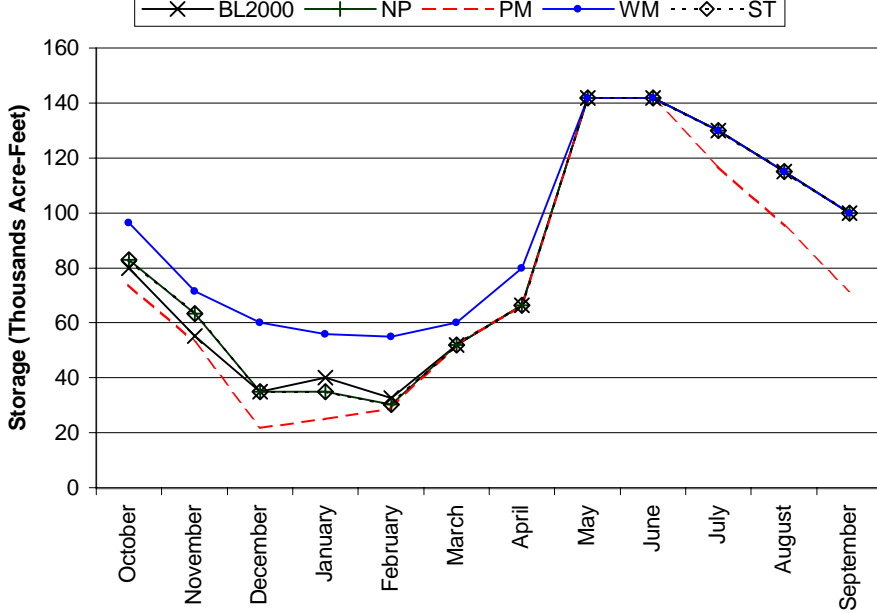


Motherlode: Appendix Figure-67 Modeled storage and elevations in a critically dry year, 1977.

### NF Mokelumne: Salt Springs Reservoir

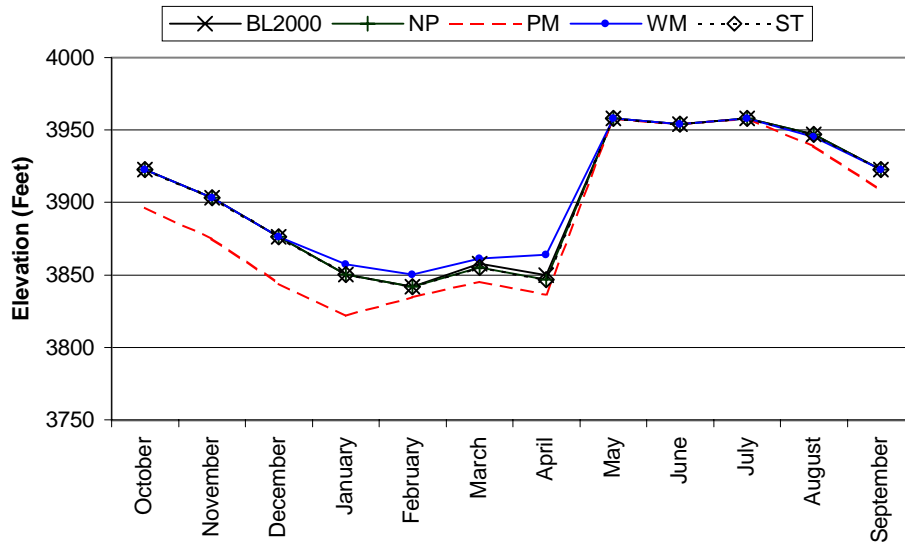
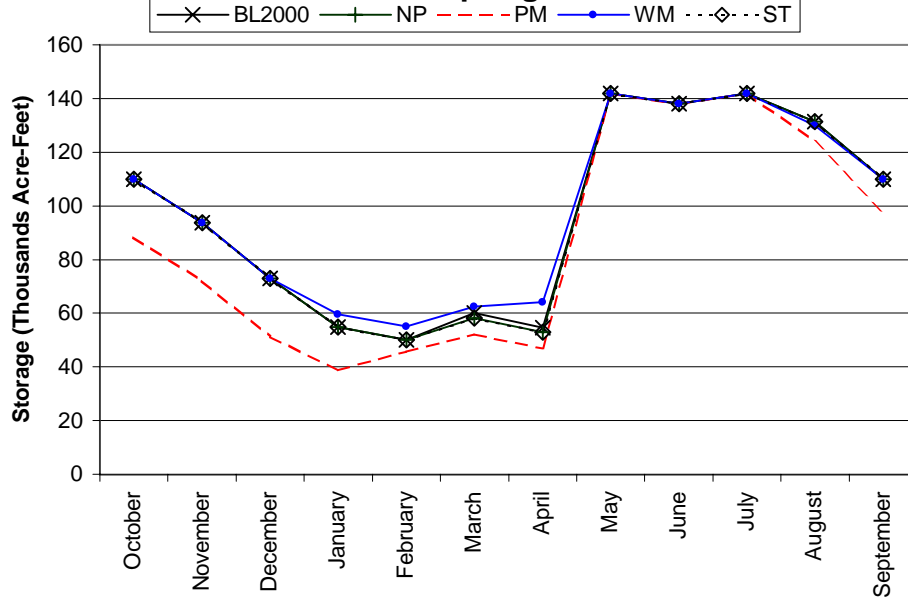


### NF Mokelumne: Salt Springs Reservoir



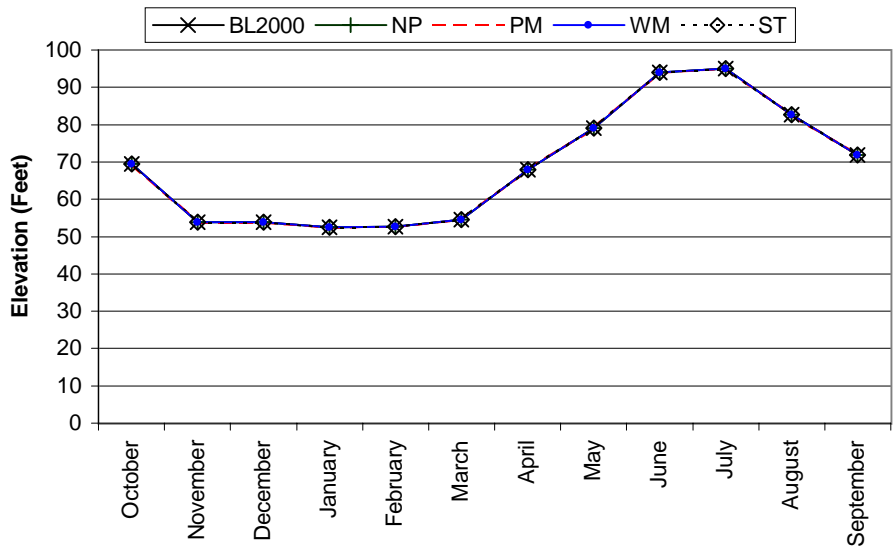
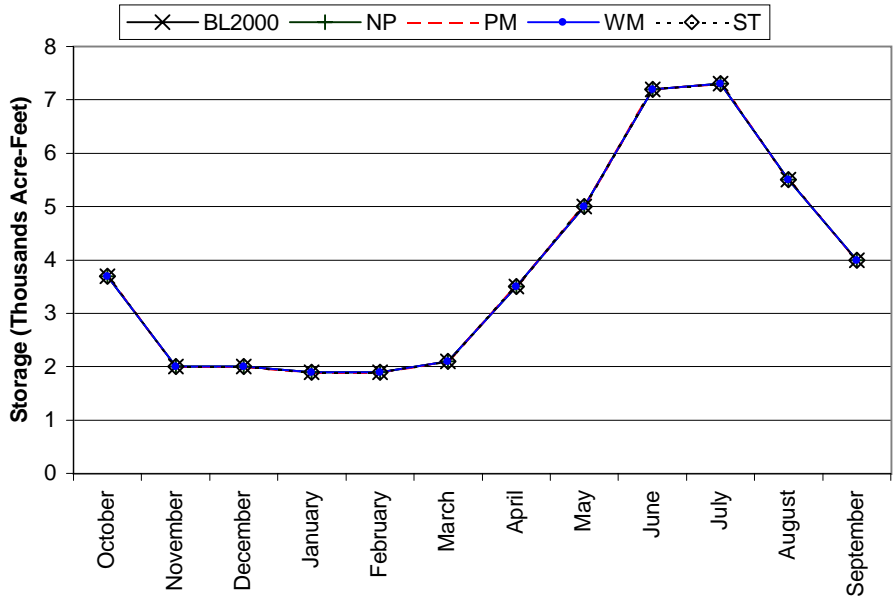
Motherlode: Appendix Figure-69 Modeled storage and elevations in a normal water year, 1979.

### NF Mokelumne: Salt Springs Reservoir

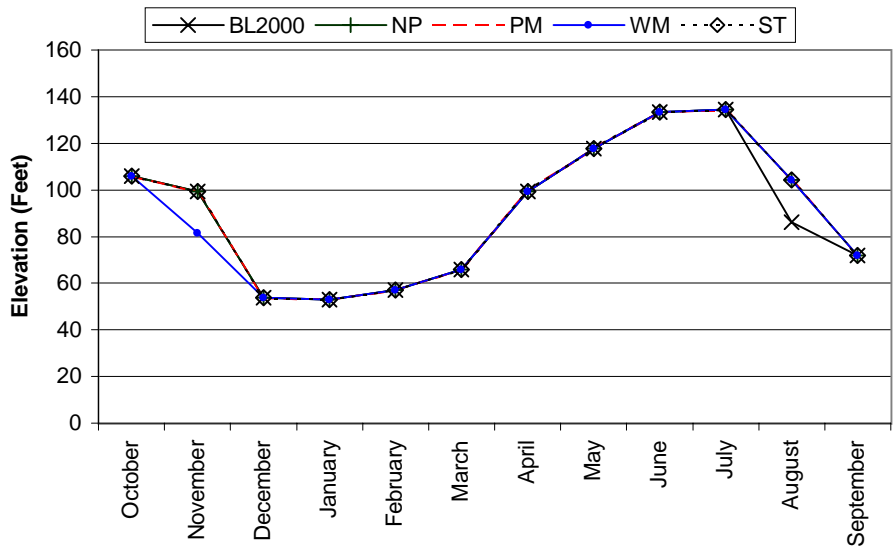
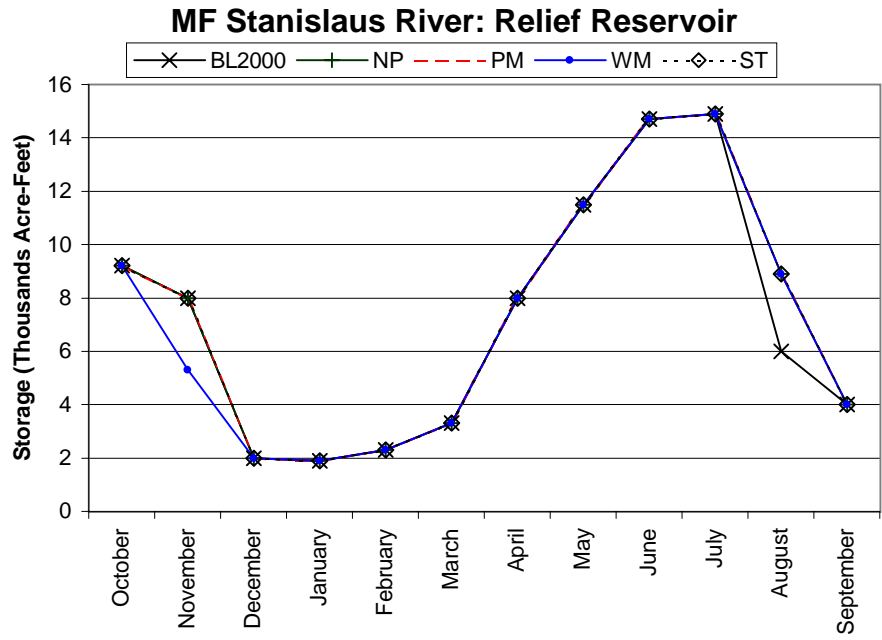


Motherlode: Appendix Figure-70 Modeled storage and elevations in a wet water year, 1983.

### MF Stanislaus River: Relief Reservoir



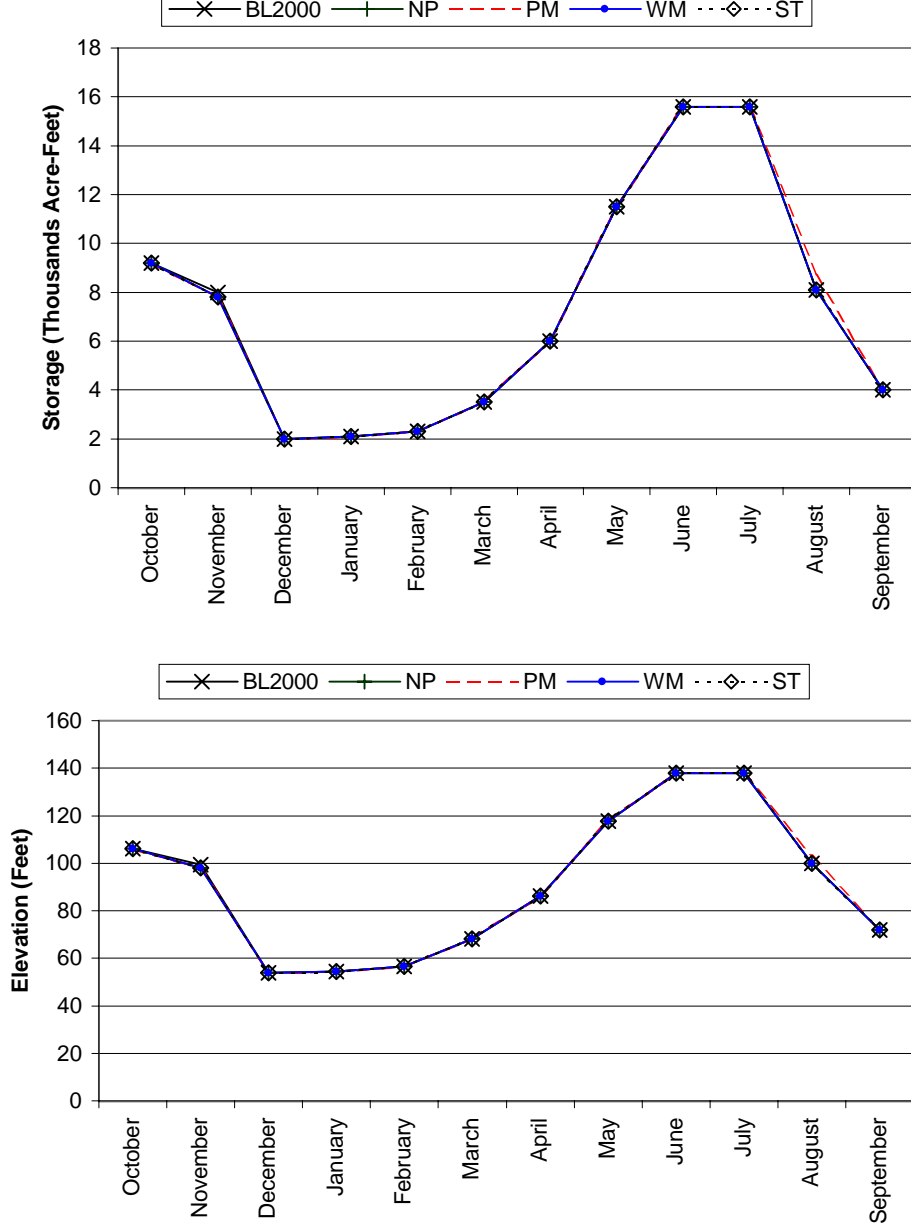
Motherlode: Appendix Figure-71 Modeled storage and elevations in a critically dry year, 1977.



Motherlode: Appendix Figure-72 Modeled storage and elevations in a dry year, 1981.

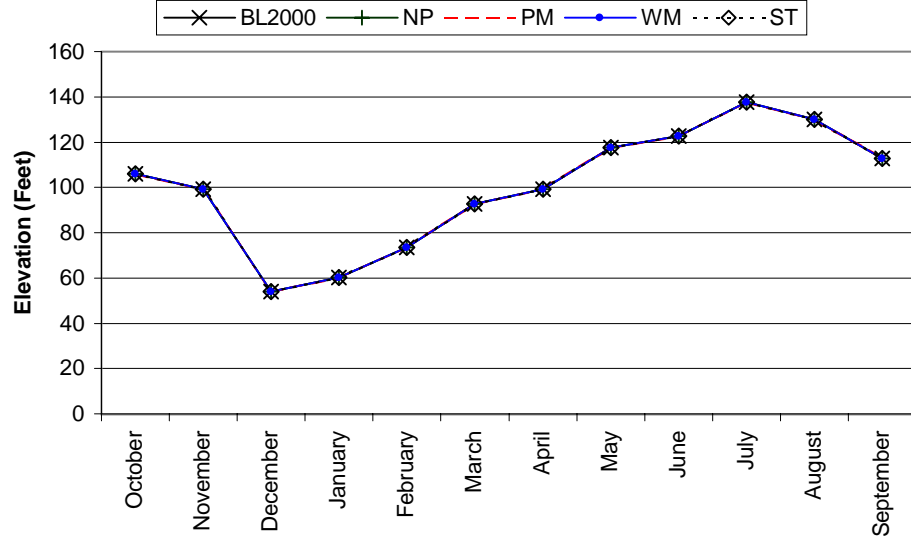
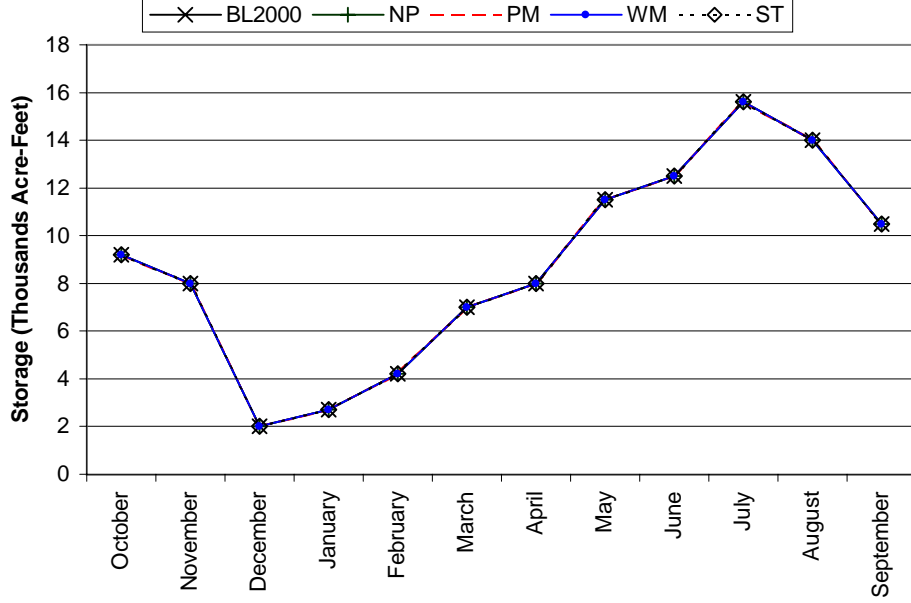


### MF Stanislaus River: Relief Reservoir



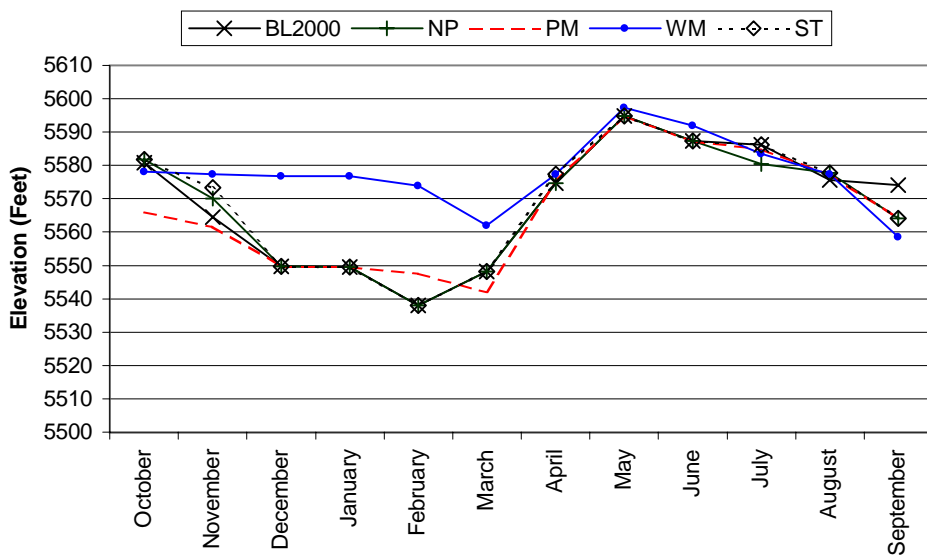
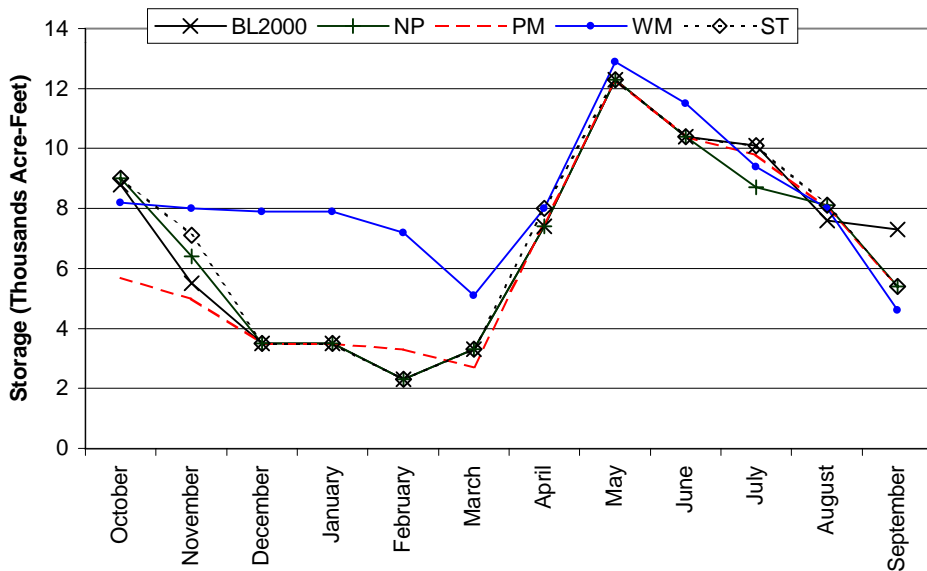
Motherlode: Appendix Figure-73 Modeled storage and elevations in a normal water year, 1979.

### MF Stanislaus River: Relief Reservoir



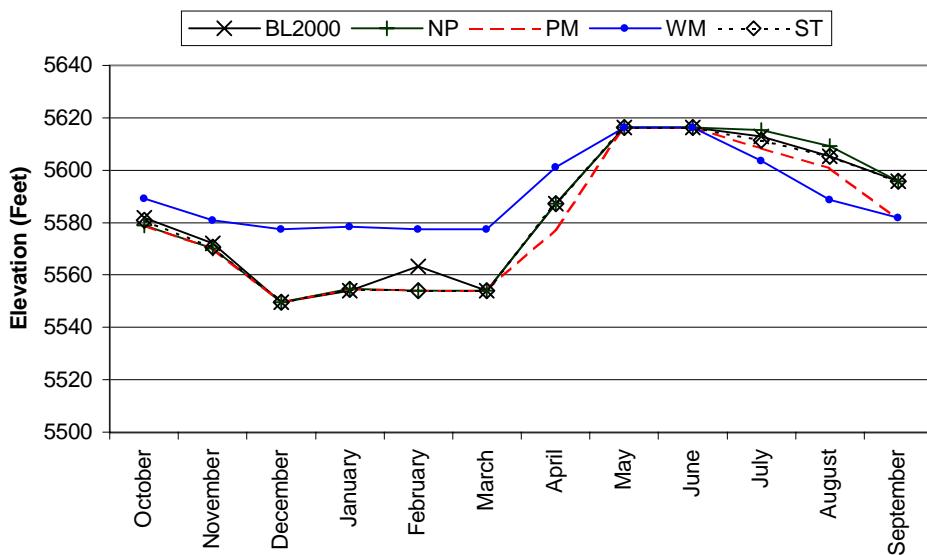
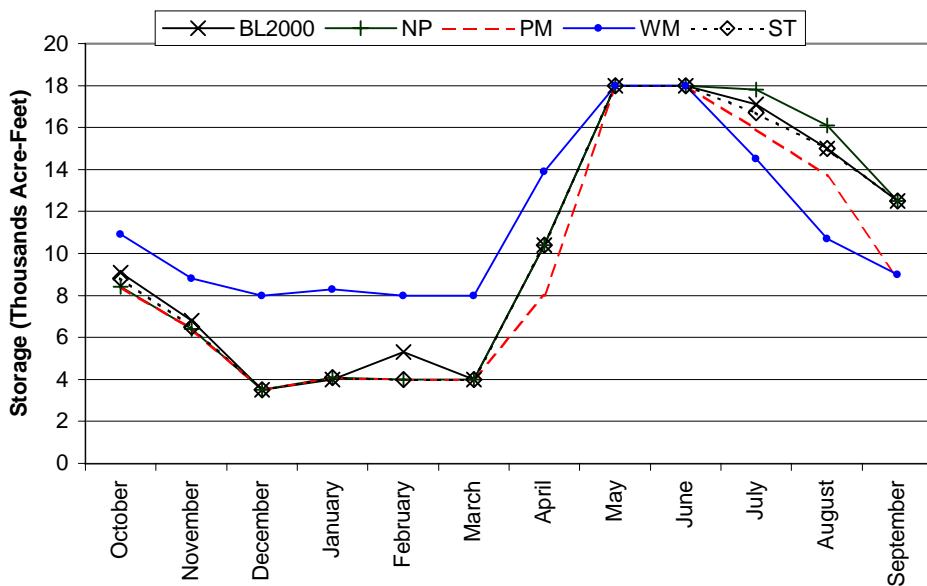
Motherlode: Appendix Figure-74 Modeled storage and elevations in a wet water year, 1983.

### SF Stanislaus River: Strawberry Reservoir



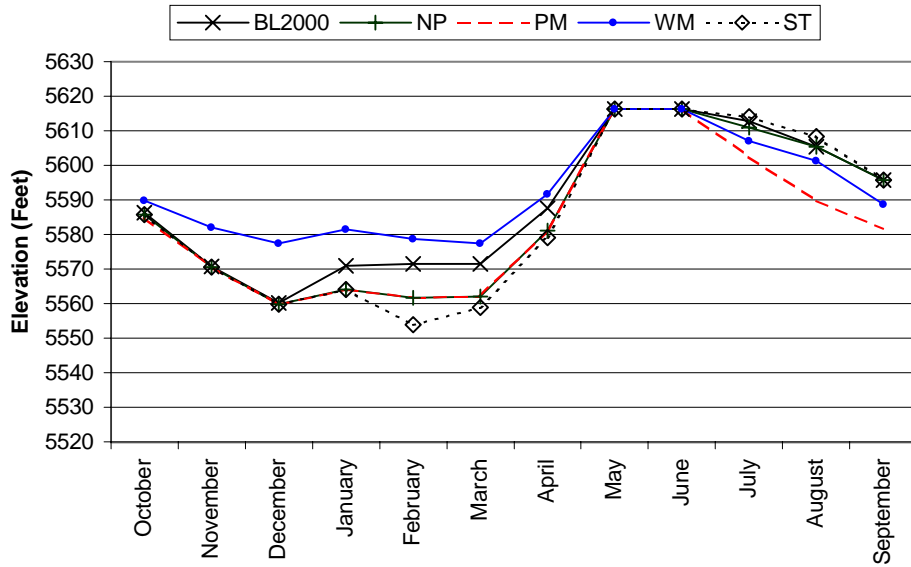
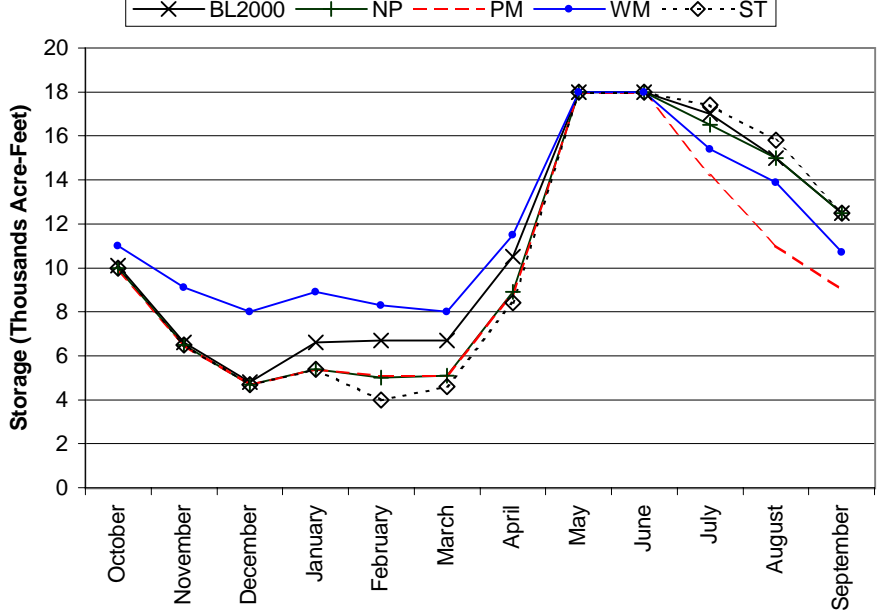
Motherlode: Appendix Figure-75 Modeled storage and elevations in a critically dry year, 1977.

### SF Stanislaus River: Strawberry Reservoir



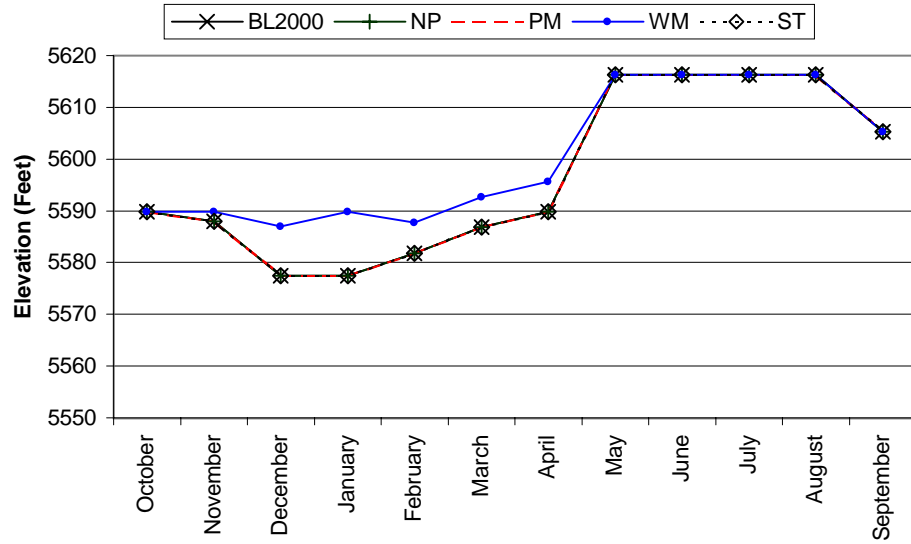
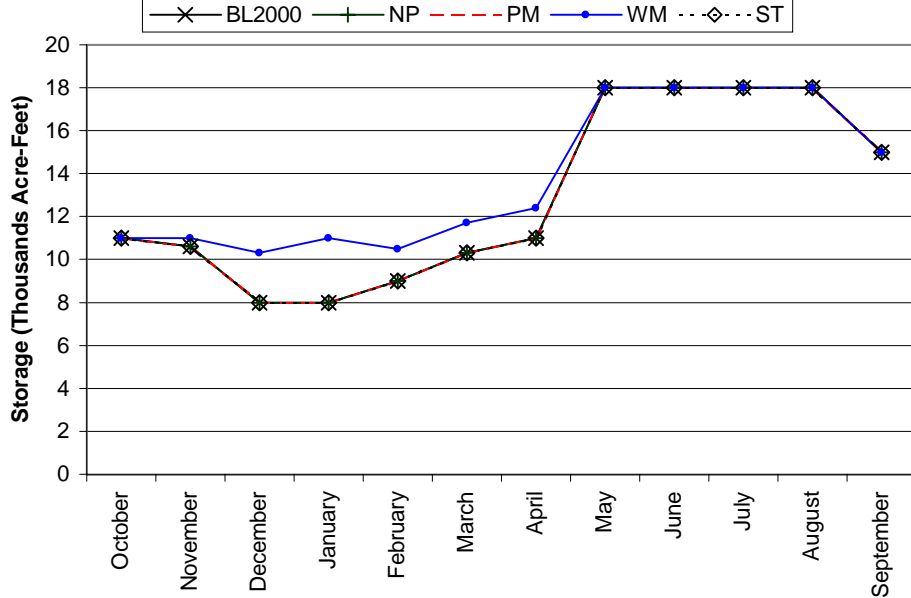
Motherlode: Appendix Figure-76 Modeled storage and elevations in a dry year, 1981.

### SF Stanislaus River: Strawberry Reservoir



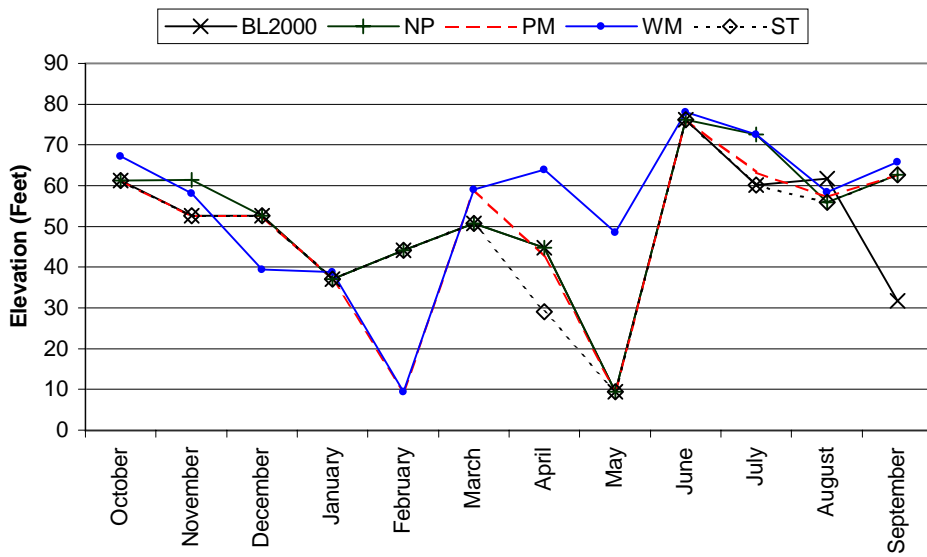
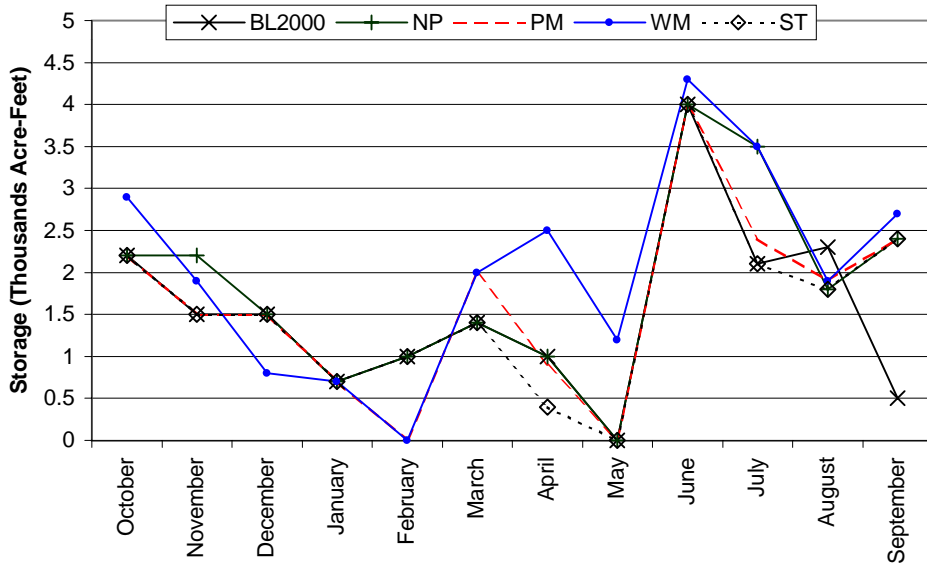
Motherlode: Appendix Figure-77 Modeled storage and elevations in a normal water year, 1979.

### SF Stanislaus River: Strawberry Reservoir

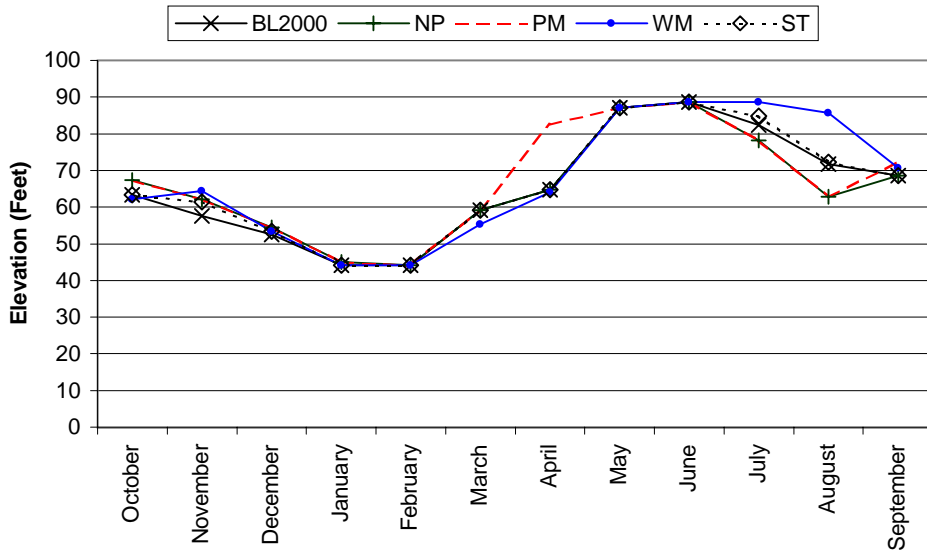
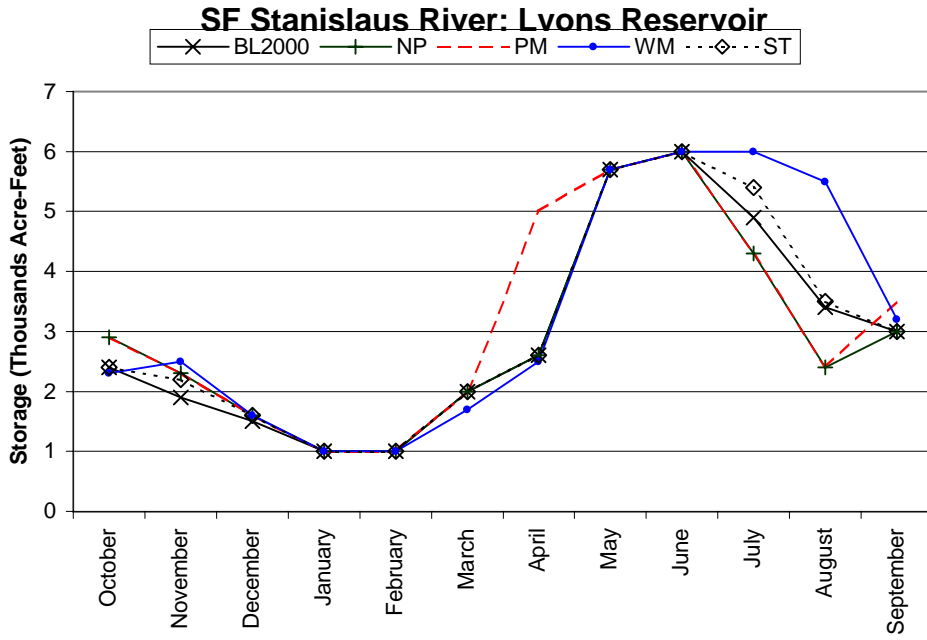


Motherlode: Appendix Figure-78 Modeled storage and elevations in a wet water year, 1983.

### SF Stanislaus River: Lyons Reservoir



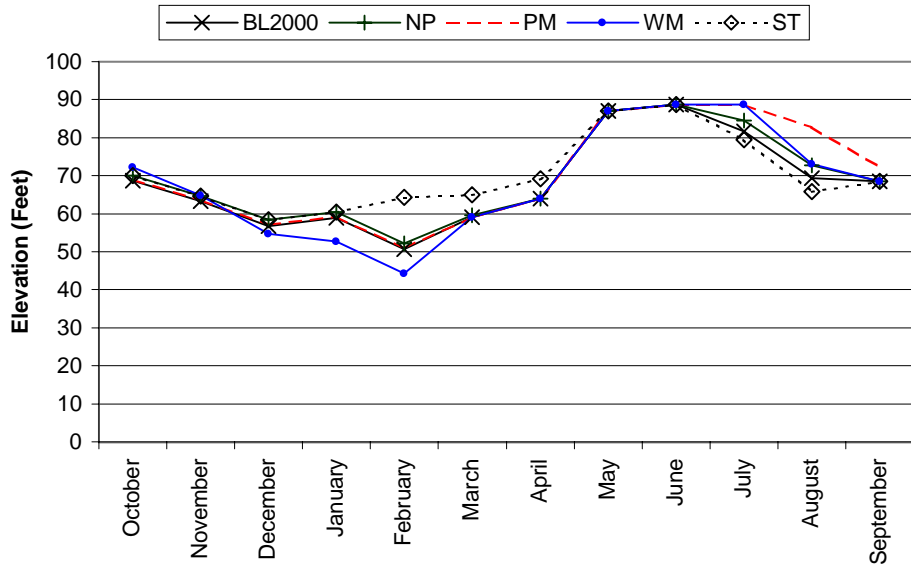
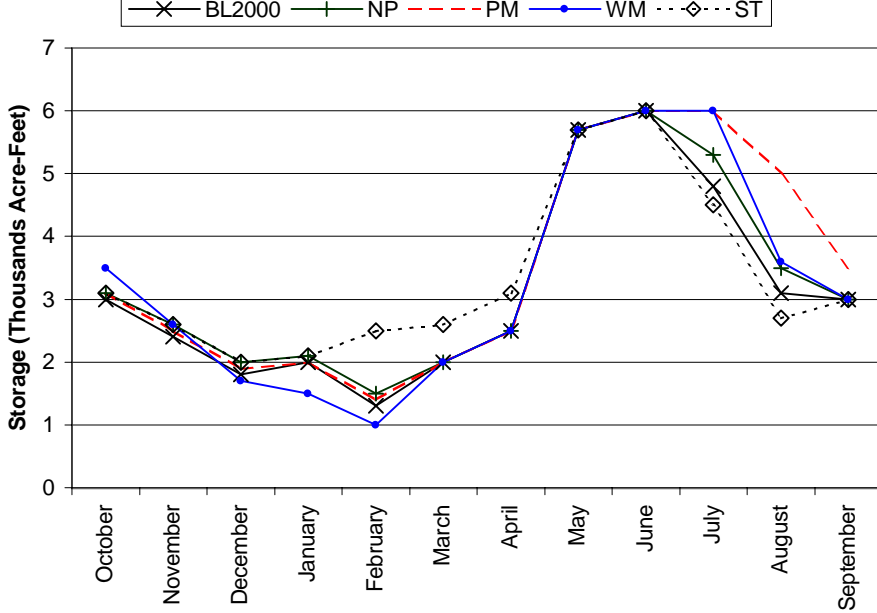
Motherlode: Appendix Figure-79 Modeled storage and elevations in a critically dry year, 1977.



Motherlode: Appendix Figure-80 Modeled storage and elevations in a dry year, 1981.

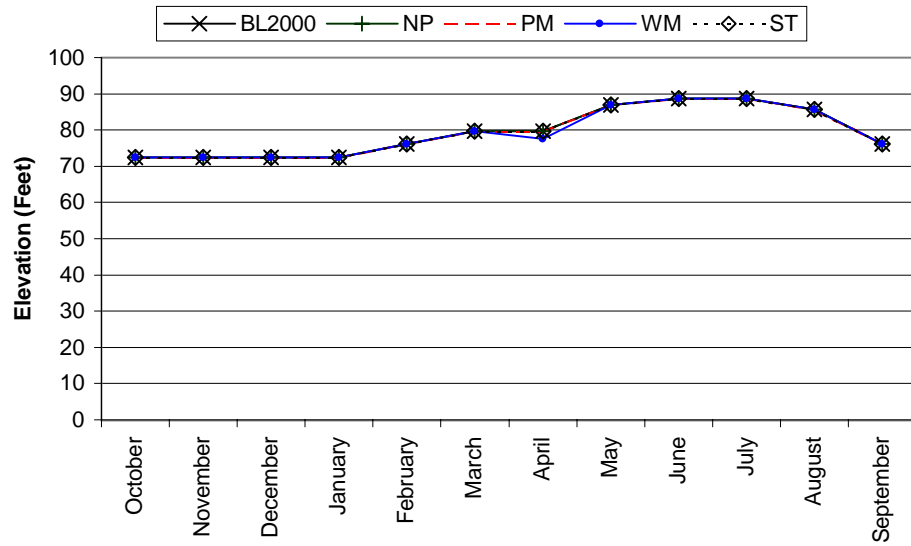
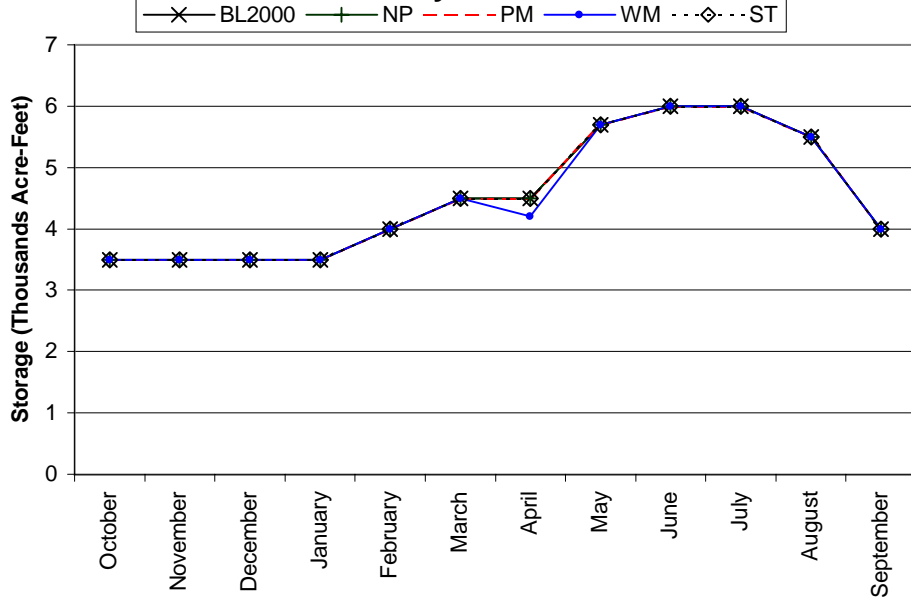


### SF Stanislaus River: Lyons Reservoir



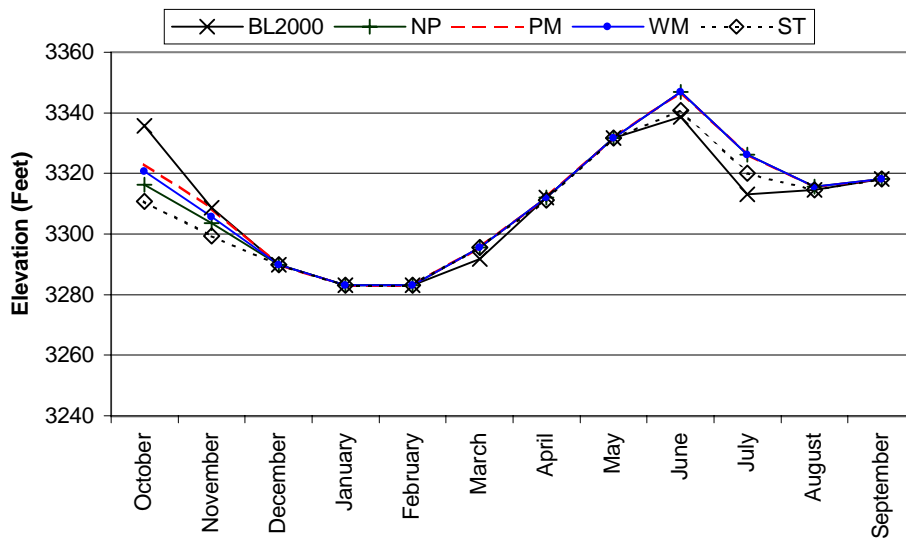
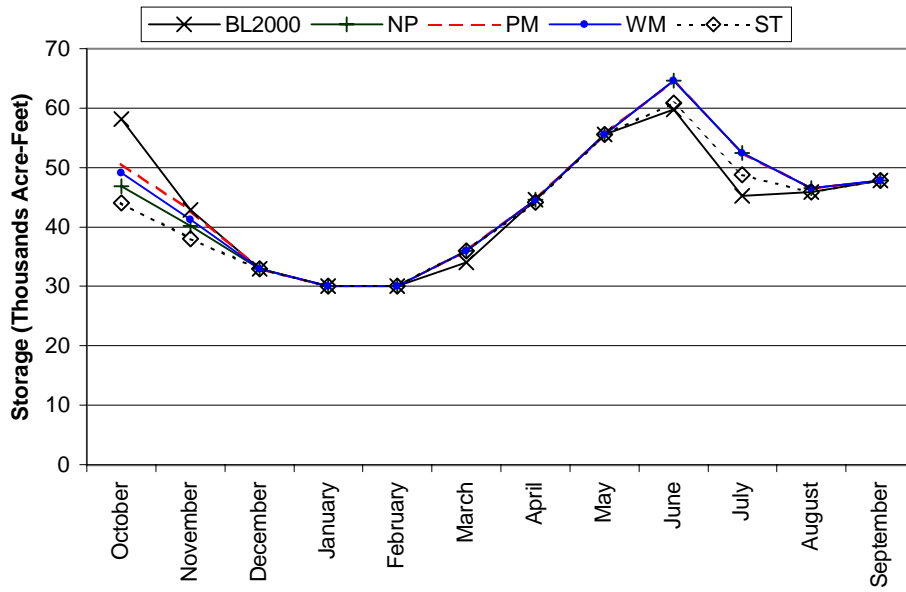
Motherlode: Appendix Figure-81 Modeled storage and elevations in a normal water year, 1979.

### SF Stanislaus River: Lyons Reservoir



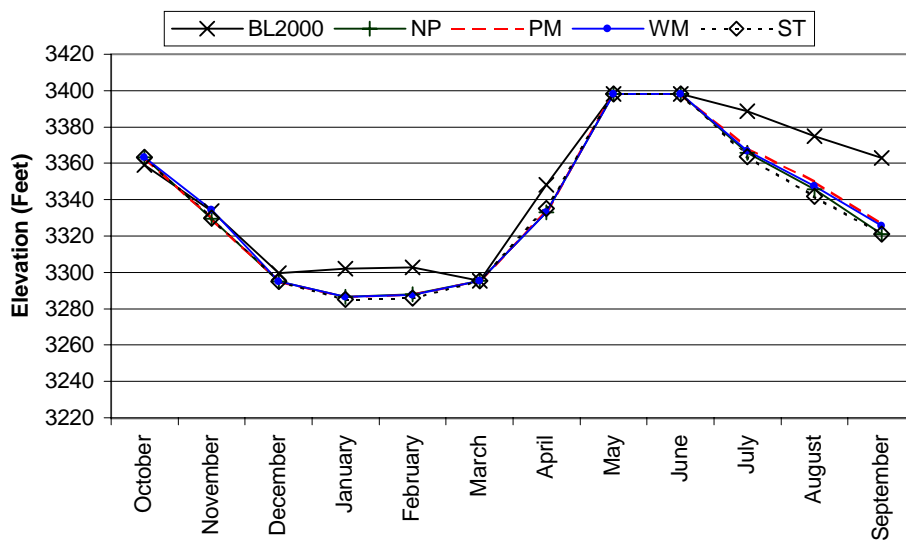
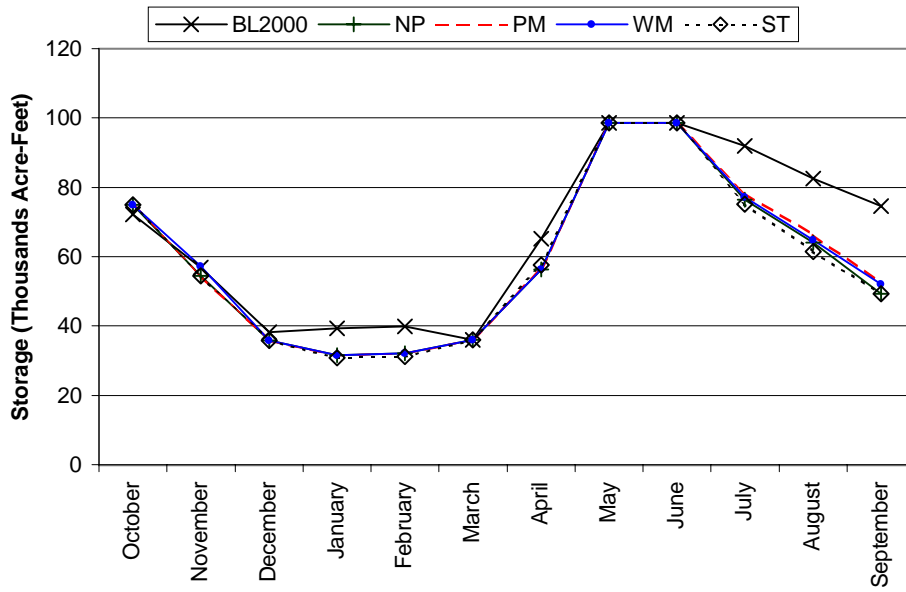
Motherlode: Appendix Figure-82 Modeled storage and elevations in a wet water year, 1983.

### MF Stanislaus River: Beardsley Reservoir



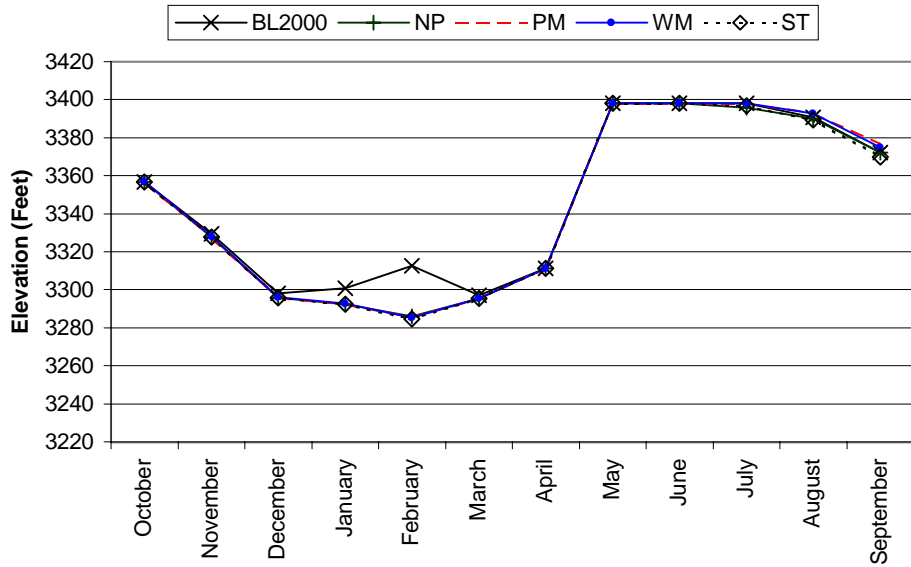
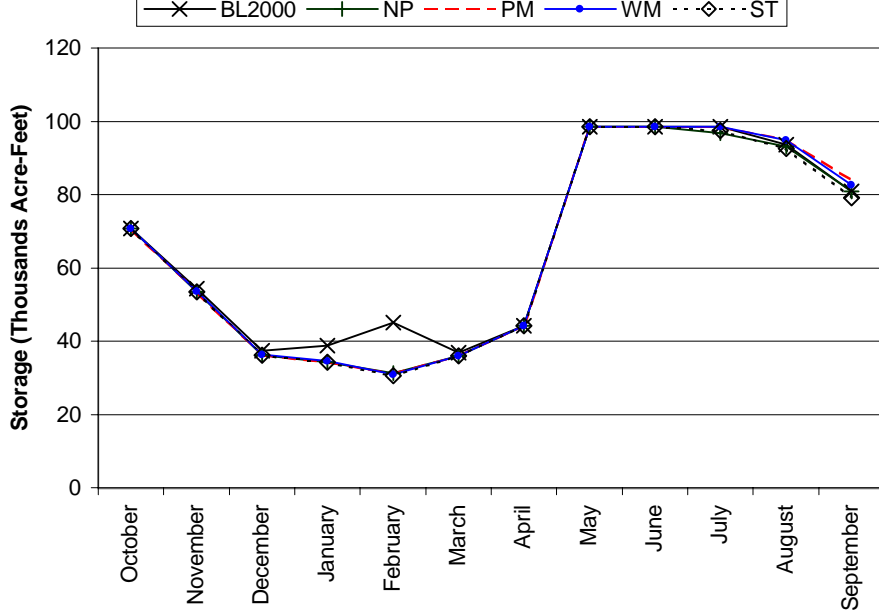
Motherlode: Appendix Figure-83 Modeled storage and elevations in a critically dry year, 1977.

### MF Stanislaus River: Beardsley Reservoir



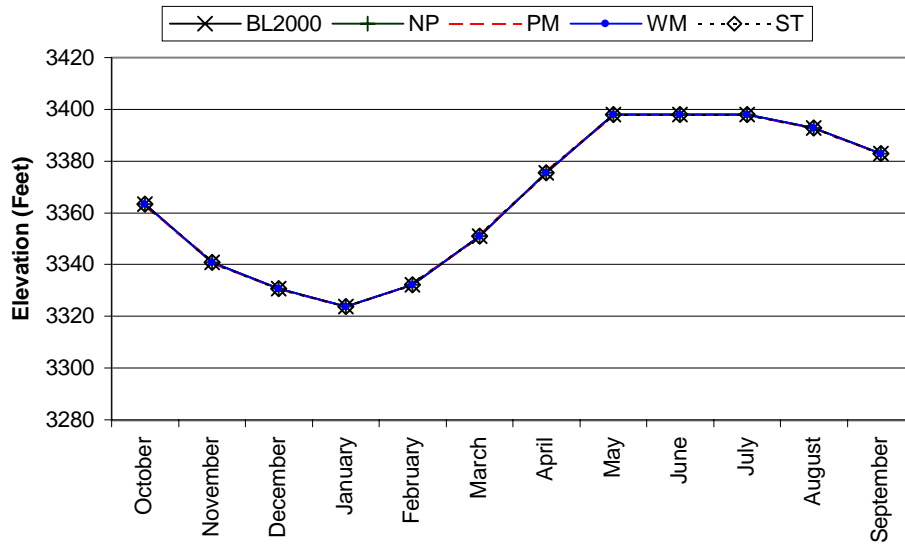
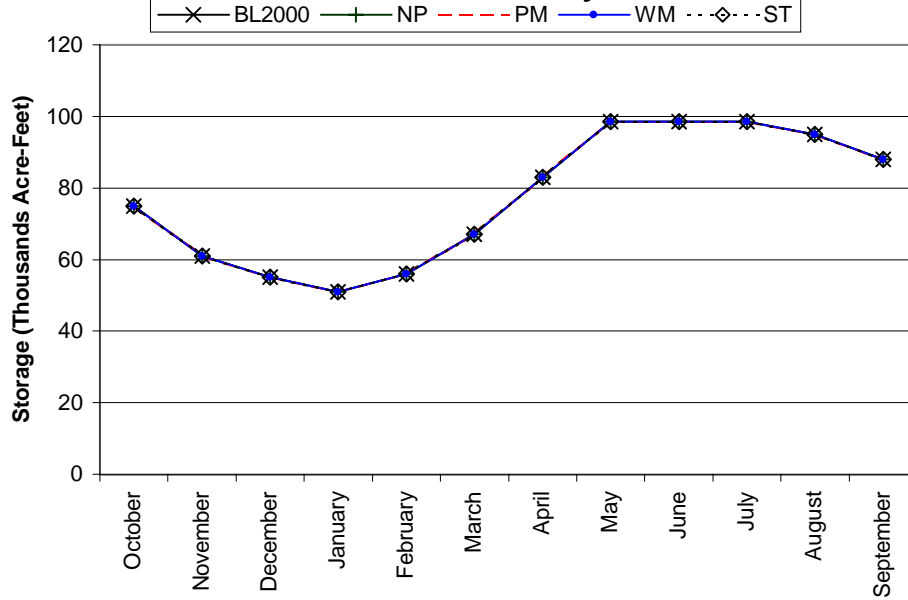
Motherlode: Appendix Figure-84 Modeled storage and elevations in a dry year, 1981.

### MF Stanislaus River: Beardsley Reservoir



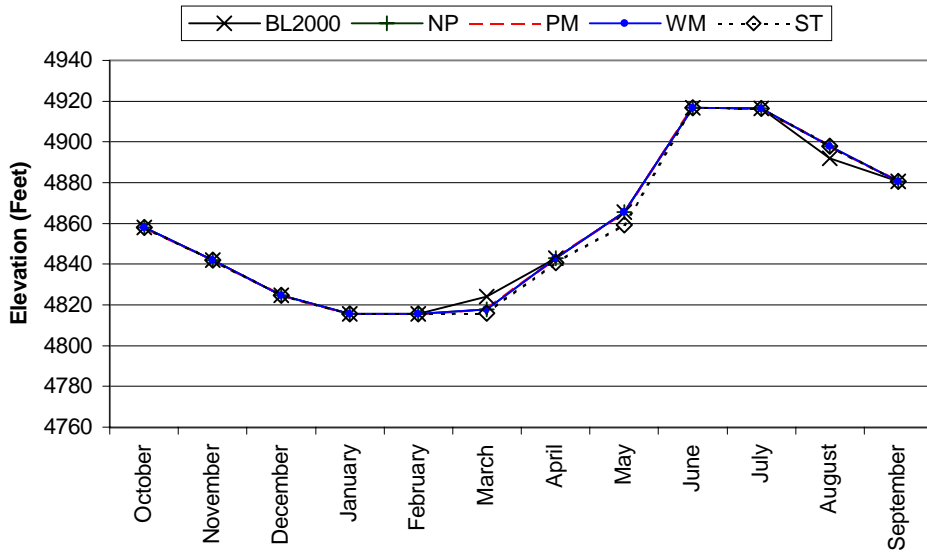
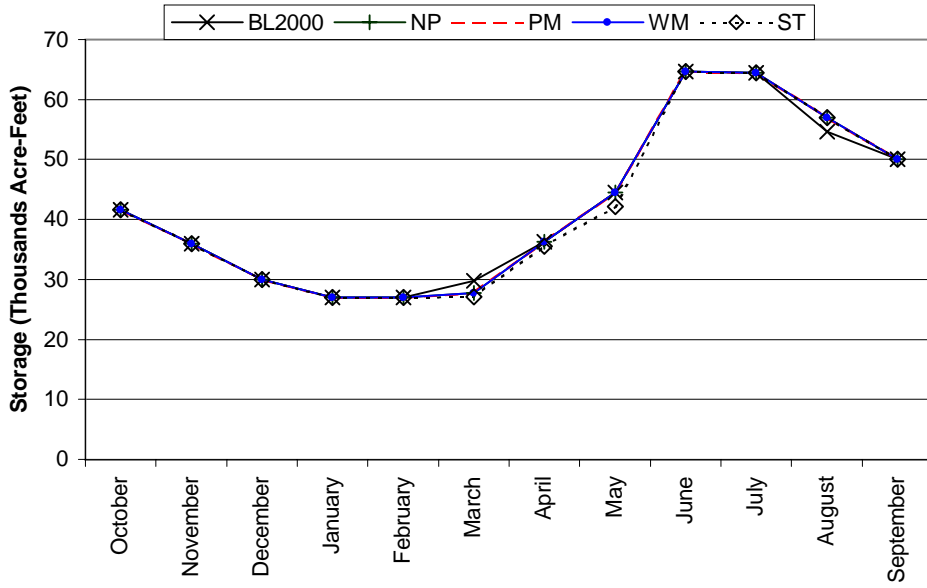
Motherlode: Appendix Figure-85 Modeled storage and elevations in a normal water year, 1979.

### MF Stanislaus River: Beardsley Reservoir



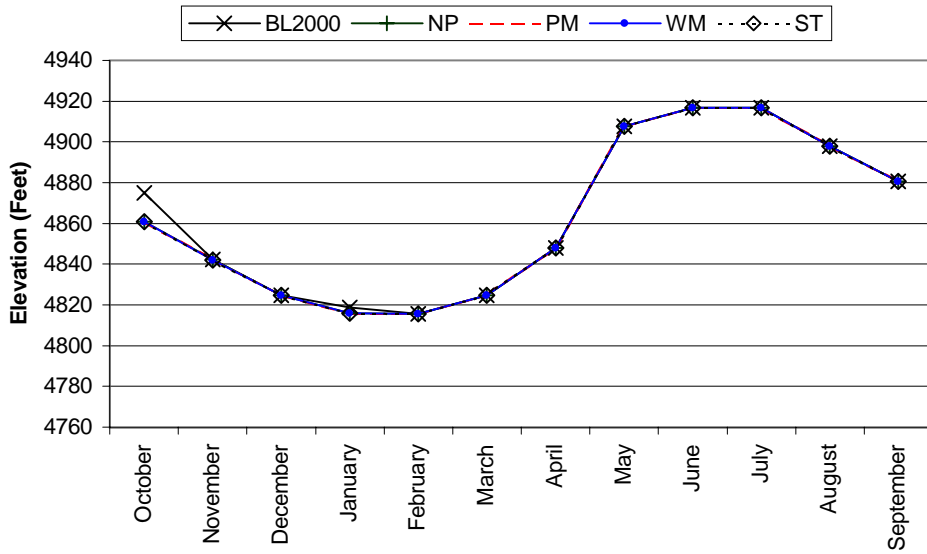
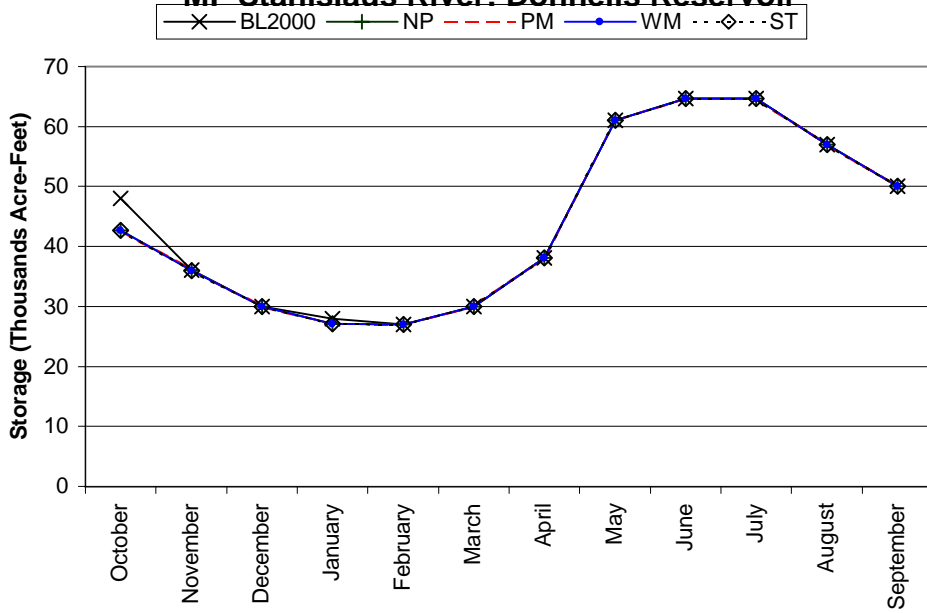
Motherlode: Appendix Figure-86 Modeled storage and elevations in a wet water year, 1983.

### MF Stanislaus River: Donnell's Reservoir



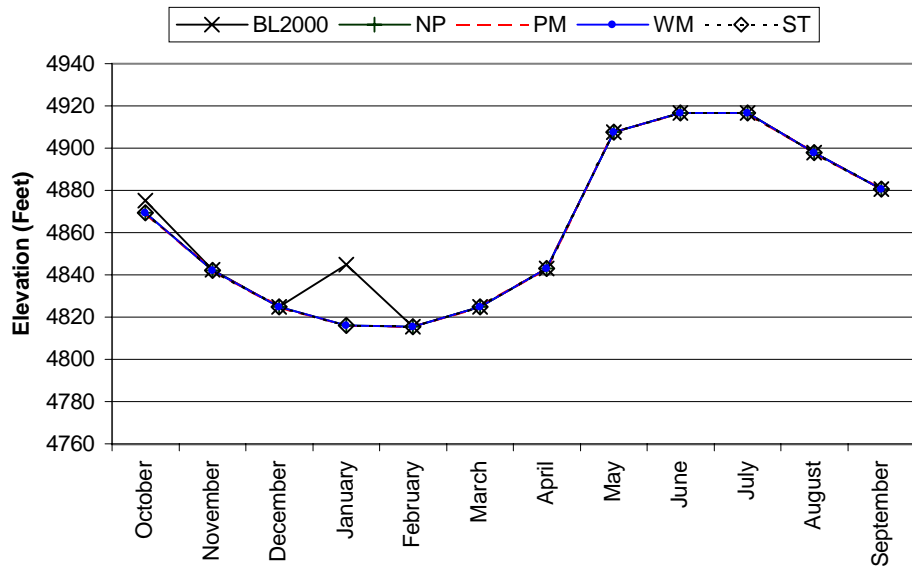
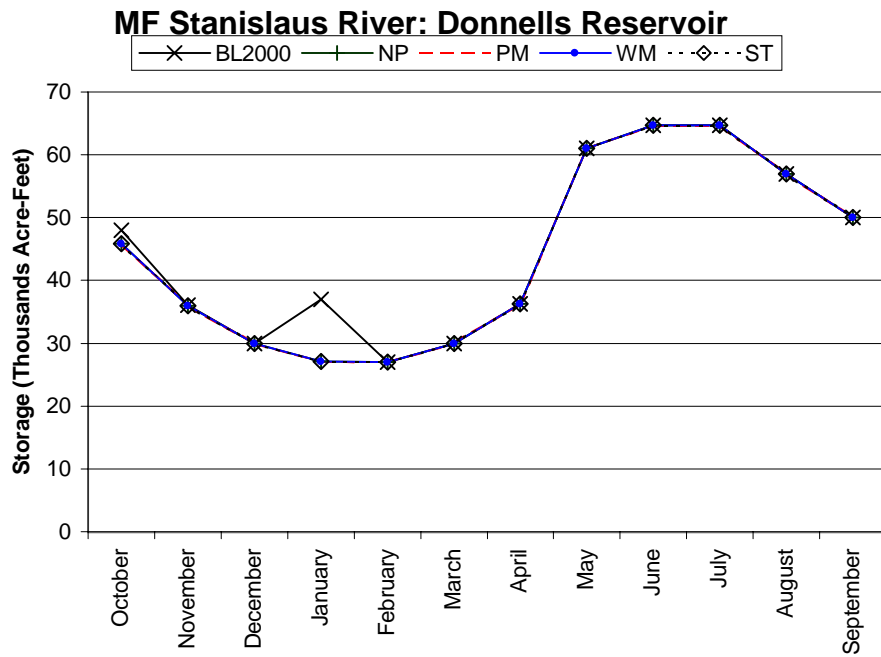
Motherlode: Appendix Figure-87 Modeled storage and elevations in a critically dry year, 1977.

### MF Stanislaus River: Donnell's Reservoir



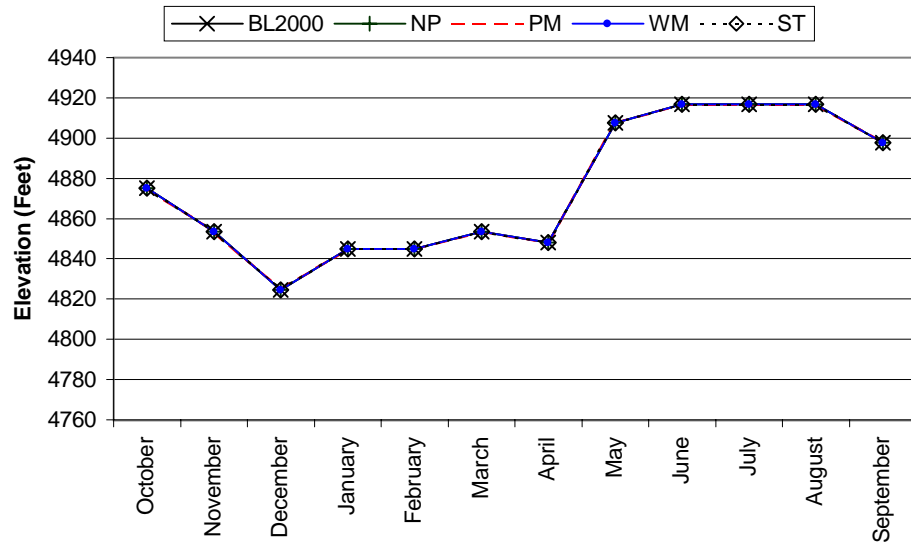
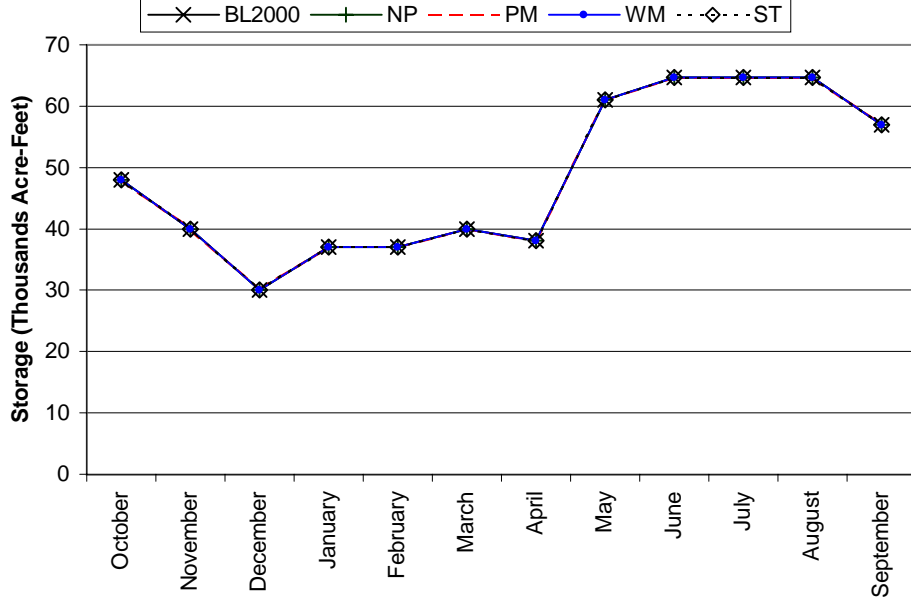
Motherlode: Appendix Figure-88 Modeled storage and elevations in a dry year, 1981.





Motherlode: Appendix Figure-89 Modeled storage and elevations in a normal water year, 1979.

### MF Stanislaus River: Donnell's Reservoir



Motherlode: Appendix Figure-90 Modeled storage and elevations in a wet water year, 1983.

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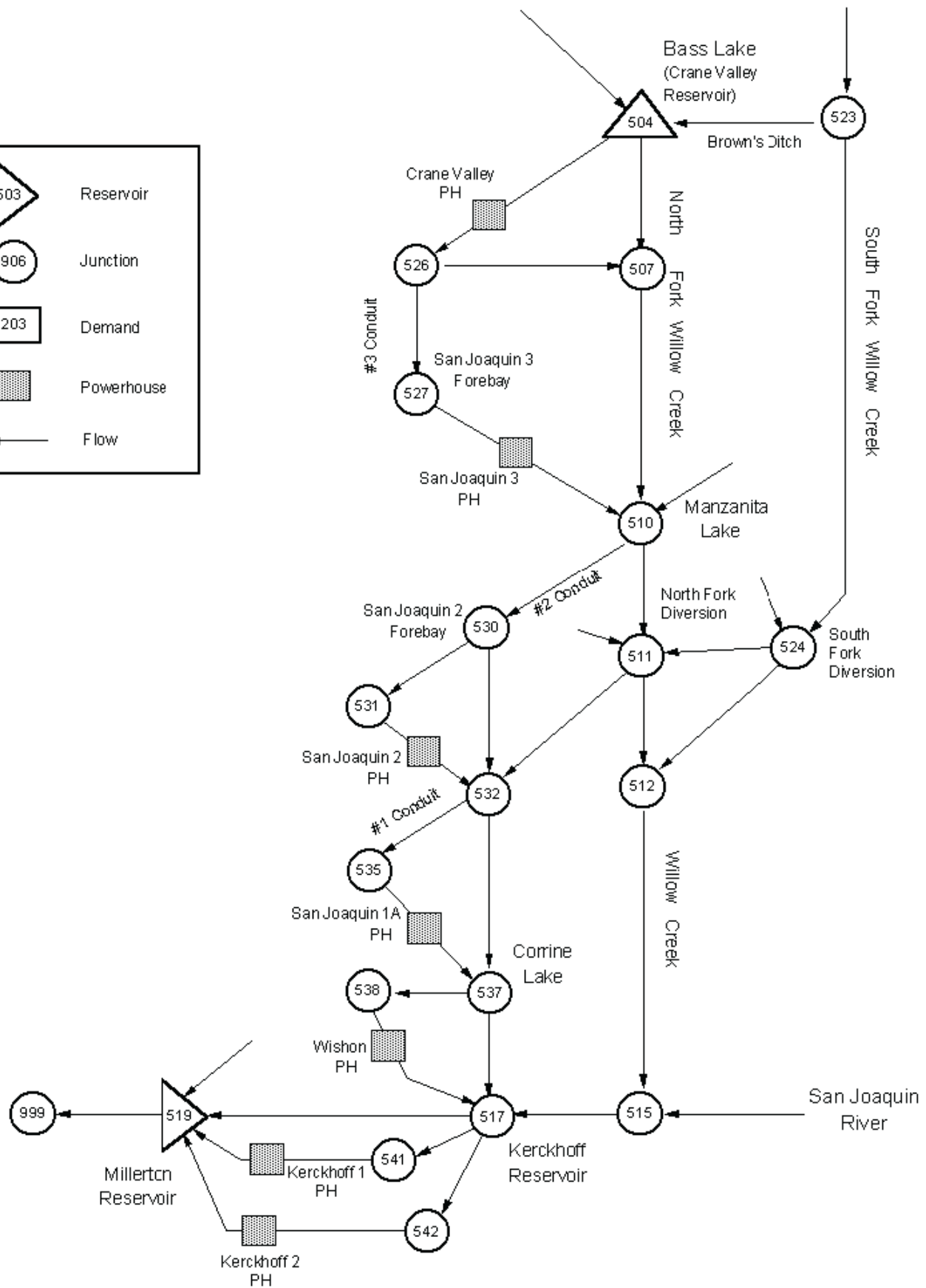
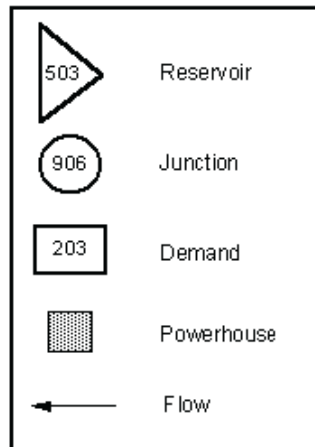
# **KINGS CRANE-HELMS REGIONAL BUNDLE**

**FISHERIES TECHNICAL DATA AND FIGURES**

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# Crane Valley and Kerckhoff Projects

## OASIS Schematic



Kings Crane-Helms: Appendix Table-1 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Kings Crane-Helms: South Fork Willow Creek  
 Location: ode 523-524  
 Watershed:San Joaquin

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |
| 1976       | Critical        | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |
| 1977       | Critical        | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |
| 1978       | Wet             | ZBF                      | ZBF | ZBF | ZBF | 100 | 0   | 0   | 100 | 100 | 0   | 58  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1979       | bove Norm       | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 112 | 0   | 112 | 112 |
| 1980       | Wet             | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1981       | Dry             | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |
| 1982       | Wet             | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 407 | 407 | 407 | 407 |
| 1983       | Wet             | 100                      | 0   | 0   | 100 | 100 | 923 | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 150 | 150 | 100 |
| 1984       | bove Norm       | 100                      | 0   | 0   | 100 | 100 | 336 | 100 | 107 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |
| 1985       | Dry             | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 145 | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |
| 1986       | Wet             | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 530 | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 133 | 146 | 100 | 100 | 100 | 100 | 100 |
| 1987       | Critical        | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |
| 1988       | Critical        | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |
| 1989       | Critical        | ZBF                      | ZBF | ZBF | ZBF | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |
| 1990       | Critical        | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |
| 1991       | Critical        | ZBF                      | ZBF | ZBF | ZBF | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |
| 1992       | Critical        | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |
| 1993       | Wet             | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 100 | 100 | 100 | 100 | 100 |
| 1994       | Critical        | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |
| 1995       | Wet             | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 100 | 100 | 100 | 100 | 100 |
| 1996       | Wet             | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 288 | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1997       | Wet             | 100                      | 0   | 0   | 100 | 100 | 180 | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 100 |
| 1998       | Wet             | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 95  | 95  | 100 | 398 | 398 | 398 | 398 |
| 1999       | Wet             | 100                      | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 440 | 0   | 100 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |     |
| 1975       | Wet             | 100                    | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |
| 1976       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |     |
| 1977       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |     |
| 1978       | Wet             | 100                    | 100 | 100 | 100 | 100 | 158 | 158 | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |     |
| 1979       | bove Norm       | 100                    | 82  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |     |
| 1980       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |     |
| 1981       | Dry             | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 0   | 0   | 100 |
| 1982       | Wet             | 100                    | 100 | 66  | 100 | 100 | 196 | 196 | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |     |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 146 | 146 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1984       | bove Norm       | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |     |
| 1985       | Dry             | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |     |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |     |
| 1987       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |     |
| 1988       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |     |
| 1989       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 0   | 0   | 100 |
| 1990       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |     |
| 1991       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | ZBF | ZBF | ZBF |     |
| 1992       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |     |
| 1993       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |     |
| 1994       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | ZBF | ZBF | ZBF |     |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 167 | 167 | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 100 | 100 | 108 | 108 | 100 | 100 | 108 | 108 | 100 |     |
| 1996       | Wet             | 269                    | 258 | 269 | 269 | 37  | 37  | 37  | 37  | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |     |
| 1997       | Wet             | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 |     |
| 1998       | Wet             | 263                    | 263 | 263 | 263 | 105 | 105 | 100 | 105 | 4   | 100 | 100 | 4   | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |     |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Kings Crane-Helms: Appendix Table-2 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Kings Crane-Helms: South Fork Willow Creek  
 Location: Node 523-524  
 Watershed: San Joaquin

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |     |     |     |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |     |     |     | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -   | -   | -   | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1977       | Critical        | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1978       | Wet             | ZBF                      | ZBF | ZBF | ZBF | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1979       | bove Norm       | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1980       | Wet             | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1981       | Dry             | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1982       | Wet             | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1983       | Wet             | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1984       | bove Norm       | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1985       | Dry             | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1986       | Wet             | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1987       | Critical        | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1988       | Critical        | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1989       | Critical        | ZBF                      | ZBF | ZBF | ZBF | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1990       | Critical        | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1991       | Critical        | ZBF                      | ZBF | ZBF | ZBF | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1992       | Critical        | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1993       | Wet             | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1994       | Critical        | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1995       | Wet             | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1996       | Wet             | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1997       | Wet             | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1998       | Wet             | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1999       | Wet             | -                        | 1   | 1   | -   | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |

al Number of Events: - 21 21 - - 21 23 - - 17 21 - - 19 19 - - 16 16 - - 15 14 -

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |     |     |     |     |     |     |     |   |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|---|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |     |     |     | Sep |     |     |     |   |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |   |
| 1975       | Wet             | -                        | 1  | 1  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | 1   | 1   | -   | -   | 1   | 1   | -   |   |
| 1976       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1   | 1   | -   | -   | 1   | 1   | -   |   |
| 1977       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |   |
| 1978       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | 1   | 1   | -   | -   | 1   | 1   | -   |   |
| 1979       | bove Norm       | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1   | 1   | -   | -   | 1   | 1   | -   |   |
| 1980       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1   | 1   | -   | -   | 1   | 1   | -   |   |
| 1981       | Dry             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | ZBF | ZBF | ZBF | ZBF | -   | 1   | 1   | - |
| 1982       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1   | 1   | -   | -   | 1   | 1   | -   |   |
| 1983       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1   | 1   | -   | -   | 1   | 1   | -   |   |
| 1984       | bove Norm       | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1   | 1   | -   | -   | 1   | 1   | -   |   |
| 1985       | Dry             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1   | 1   | -   | -   | 1   | 1   | -   |   |
| 1986       | Wet             | -                        | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1   | 1   | -   | -   | 1   | 1   | -   |   |
| 1987       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |   |
| 1988       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |   |
| 1989       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |   |
| 1990       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |   |
| 1991       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |   |
| 1992       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |   |
| 1993       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1   | 1   | -   | -   | 1   | 1   | -   |   |
| 1994       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1   | 1   | -   | -   | ZBF | ZBF | ZBF |   |
| 1995       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | -   | -   | -   | -   | -   | -   | -   |   |
| 1996       | Wet             | -                        | -  | -  | -  | -   | 1  | 1  | 1  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1   | 1   | -   | -   | 1   | 1   | -   |   |
| 1997       | Wet             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1   | 1   | -   | -   | 1   | 1   | -   |   |
| 1998       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  | 1  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -   |   |
| 1999       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | 1   | -  | -  | 1  | -   | -  | -  | -  | -   | -   | -   | -   | -   | -   | -   | -   |   |

al Number of Events: - 14 15 - 1 15 15 1 1 19 19 1 - 22 22 - - 14 14 - - 14 14 -

| Summary:                               |                |              |                                |     |     |    |                         |        |        |      |
|----------------------------------------|----------------|--------------|--------------------------------|-----|-----|----|-------------------------|--------|--------|------|
|                                        | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |     |     |    | Significance Evaluation |        |        |      |
|                                        |                |              | NP                             | HC  | WS  | ST | NP                      | HC     | WS     | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 0                              | 59  | 65  | 0  | No                      | Potent | Potent | No   |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 50  | 49  | 0  | No                      | Potent | Potent | No   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 2                              | 63  | 63  | 2  | Less                    | Potent | Potent | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 1                              | 90  | 90  | 1  | Less                    | Potent | Potent | Less |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 2                              | 140 | 143 | 2  | Less                    | Potent | Potent | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 1                              | 29  | 30  | 1  | Less                    | Potent | Potent | Less |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 0                              | 42  | 44  | 0  | No                      | Potent | Potent | No   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Kings Crane-Helms: Appendix Table-3 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Kings Crane-Helms: Mainstem Willow Creek  
 Location: ode 512-515  
 Watershed:San Joaquin

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline ^ |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1976       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 0   | 100 | 100 | ZBF | ZBF | ZBF | ZBF | 100 | 33  | 5   | 100 | 100 | 100 | 100 |    |
| 1979       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 0   | 100 | 100 | 100 | 97  | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 0   | 111 | 100 | 128 | 128 | 128 |    |
| 1983       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |    |
| 1984       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | 100 | 834 | 100 | 121 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 66  | 99  | 100 | 100 | 100 | 100 |    |
| 1987       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1990       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 |    |
| 1994       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 96  | 96  |    |
| 1996       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 33  | 121 | 100 | 100 | 20  | 100 |    |
| 1997       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 92  | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF |    |
| 1998       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 100 | 0   | 93  | 100 | 159 | 159 | 159 |    |
| 1999       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 0   | 0   | 0   | 0   | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |    |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ZBF                    | ZBF | ZBF | ZBF | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1976       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1977       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1978       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1979       | bove Norm       | ZBF                    | ZBF | ZBF | ZBF | 47  | 0   | 47  | 47  | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1980       | Wet             | 100                    | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1981       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1982       | Wet             | 94                     | 89  | 94  | 94  | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1984       | bove Norm       | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1985       | Dry             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1987       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1988       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1989       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1990       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1991       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1992       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1993       | Wet             | 100                    | 100 | 100 | 100 | 100 | 97  | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1994       | Critical        | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1996       | Wet             | 461                    | 438 | 461 | 461 | 0   | 0   | 0   | 0   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1997       | Wet             | ZBF                    | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1998       | Wet             | 341                    | 341 | 341 | 341 | 61  | 61  | 61  | 61  | 100 | 100 | 100 | 100 | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |    |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Kings Crane-Helms: Appendix Table-4 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Kings Crane-Helms: Mainstem Willow Creek  
 Location: Node 512-515  
 Watershed: San Joaquin

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             |                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 1976       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1978       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | 1   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | -   | 1   | 1   | -   | -   | -   | -   |
| 1979       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1980       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | 1   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1981       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1982       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1983       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1984       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1985       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1986       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1987       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1988       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1989       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1990       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1991       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1992       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1993       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1994       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1995       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1996       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1997       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1998       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1999       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | 1   | 1   | 1   | 1   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |

al Number of Events: - - - - - 1 2 1 1 - 1 - - - 5 1 - - 1 - -

| Water Year | Water Year Type | Habitat Reduction Events |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                      |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ZBF                      | ZBF | ZBF | ZBF | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1976       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1977       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1978       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1979       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | 1   | 1   | 1   | 1   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1980       | Wet             | -                        | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1981       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1982       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1983       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1984       | bove Norm       | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1985       | Dry             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1986       | Wet             | -                        | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1987       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1988       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1989       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1990       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1991       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1992       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1993       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1994       | Critical        | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1995       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1996       | Wet             | -                        | -   | -   | -   | 1   | 1   | 1   | 1   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1997       | Wet             | ZBF                      | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1998       | Wet             | -                        | -   | -   | -   | 1   | 1   | 1   | 1   | -   | -   | -   | -   | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF | ZBF |
| 1999       | Wet             | -                        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |

al Number of Events: - - - - - 3 3 3 3 - - - - - - - - - - - - - - -

| Summary:                               | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |    |    |    | Significance Evaluation |      |      |      |
|----------------------------------------|----------------|--------------|--------------------------------|----|----|----|-------------------------|------|------|------|
|                                        |                |              | NP                             | HC | WS | ST | NP                      | HC   | WS   | ST   |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 1                              | 2  | 1  | 1  | Less                    | Less | Less | Less |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 0                              | 7  | 1  | 0  | No                      | Less | Less | No   |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 3                              | 4  | 3  | 3  | Less                    | Less | Less | Less |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 3                              | 3  | 3  | 3  | Less                    | Less | Less | Less |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 3                              | 3  | 3  | 3  | Less                    | Less | Less | Less |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 0                              | 0  | 0  | 0  | No                      | No   | No   | No   |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant



Kings Crane-Helms: Appendix Table-5 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Kings Crane-Helms: North Fork Willow Creek  
 Location: ode 507-510  
 Watershed:San Joaquin

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline ^ |    |    |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |    |
|------------|-----------------|--------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|            |                 | Oct                      |    |    |     | Nov |     |     |     | Dec |     |     |     | Jan |    |     |     | Feb |     |     |     | Mar |     |     |    |
|            |                 | NP                       | PM | WM | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST |
| 1975       | Wet             | ND                       | ND | ND | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 100 | 460 |    |
| 1976       | Critical        | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |    |
| 1977       | Critical        | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |    |
| 1978       | Wet             | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 152 | 100 | 100 | 0  | 0   | 100 | 100 | 19  | 0   | 100 | 100 | 100 | 100 |    |
| 1979       | bove Norm       | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |    |
| 1980       | Wet             | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 107 | 100 | 100 | 95  | 100 | 100 | 100 | 100 | 100 |    |
| 1981       | Dry             | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |    |
| 1982       | Wet             | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 113 | 100 | 7   | 7   | 7   |    |
| 1983       | Wet             | 100                      | 0  | 0  | 100 | 100 | 500 | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 0  | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 69  | 100 |    |
| 1984       | bove Norm       | 100                      | 0  | 0  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |    |
| 1985       | Dry             | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 500 | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |    |
| 1986       | Wet             | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 500 | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 19  | 73  | 100 | 100 | 100 | 100 |    |
| 1987       | Critical        | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |    |
| 1988       | Critical        | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |    |
| 1989       | Critical        | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |    |
| 1990       | Critical        | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |    |
| 1991       | Critical        | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |    |
| 1992       | Critical        | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |    |
| 1993       | Wet             | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 100 | 100 |    |
| 1994       | Critical        | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |    |
| 1995       | Wet             | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 92  | 93  |    |
| 1996       | Wet             | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 500 | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 8   | 100 |    |
| 1997       | Wet             | 100                      | 0  | 0  | 100 | 100 | 500 | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 79 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 145 | 100 |    |
| 1998       | Wet             | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0  | 0   | 100 | 100 | 0   | 93  | 100 | 9   | 9   | 9   |    |
| 1999       | Wet             | 100                      | 0  | 0  | 100 | 100 | 0   | 0   | 100 | 100 | 500 | 0   | 100 | ND  | ND | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |    |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | 21                     | 0   | 0   | 21  | 100 | 0   | 0   | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1976       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1977       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1978       | Wet             | 100                    | 100 | 100 | 100 | 100 | 45  | 45  | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1979       | bove Norm       | 100                    | 0   | 100 | 100 | 16  | 0   | 16  | 16  | 100 | 0   | 0   | 100 | 100 | 0   | 16  | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1980       | Wet             | 100                    | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 112 | 112 | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1981       | Dry             | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1982       | Wet             | 80                     | 64  | 158 | 80  | 100 | 56  | 56  | 100 | 100 | 360 | 360 | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1983       | Wet             | 100                    | 100 | 100 | 100 | 100 | 59  | 59  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1984       | bove Norm       | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1985       | Dry             | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1986       | Wet             | 100                    | 100 | 100 | 100 | 100 | 108 | 108 | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1987       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1988       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1989       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1990       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1991       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1992       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1993       | Wet             | 100                    | 100 | 100 | 100 | 100 | 96  | 100 | 100 | 100 | 110 | 110 | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1994       | Critical        | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1995       | Wet             | 100                    | 100 | 100 | 100 | 100 | 67  | 67  | 100 | 100 | 100 | 100 | 100 | 100 | 0   | 0   | 0   | 100 | 32  | 100 | 100 | 32  | 100 | 100 |     |
| 1996       | Wet             | 100                    | 100 | 100 | 100 | 34  | 34  | 34  | 34  | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1997       | Wet             | 100                    | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 0   | 0   | 100 | 100 | 0   | 0   | 100 | 100 | 0   | 100 |
| 1998       | Wet             | 100                    | 100 | 100 | 100 | 35  | 35  | 38  | 35  | 142 | 100 | 100 | 142 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |     |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |     |

Footnotes: BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement

Kings Crane-Helms: Appendix Table-6 Summary of analysis of operational changes on streamflows. Evaluations of significance are based on percentage of baseline flow as provided by the scenarios.

Site: Kings Crane-Helms: North Fork Willow Creek  
 Location: Node 507-510  
 Watershed: San Joaquin

1 =Threshold Surpassed  
 - =Threshold Not Surpassed  
 20 =Percent Substantial Habitat Reduction Threshold

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Oct                      |    |    |    | Nov |    |    |    | Dec |    |    |    | Jan |    |    |    | Feb |    |    |    | Mar |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  |    |
| 1976       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1977       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1978       | Wet             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1979       | bove Norm       | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1980       | Wet             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1981       | Dry             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1982       | Wet             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1983       | Wet             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1984       | bove Norm       | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1985       | Dry             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1986       | Wet             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1987       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1988       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1989       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1990       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1991       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1992       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1993       | Wet             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1994       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1995       | Wet             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1996       | Wet             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1997       | Wet             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1998       | Wet             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1999       | Wet             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |

al Number of Events: - 24 24 - - 21 23 - - 17 20 - - 24 22 - - 21 19 - 2 17 15 2

| Water Year | Water Year Type | Habitat Reduction Events |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |
|------------|-----------------|--------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|
|            |                 | Apr                      |    |    |    | May |    |    |    | Jun |    |    |    | Jul |    |    |    | Aug |    |    |    | Sep |    |    |    |
|            |                 | NP                       | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST | NP  | PM | WM | ST |
| 1975       | Wet             | 1                        | 1  | 1  | 1  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1976       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1977       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1978       | Wet             | -                        | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1979       | bove Norm       | -                        | 1  | -  | -  | 1   | 1  | 1  | 1  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1980       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1981       | Dry             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1982       | Wet             | -                        | 1  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1983       | Wet             | -                        | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1984       | bove Norm       | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1985       | Dry             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1986       | Wet             | -                        | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1987       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1988       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1989       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1990       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1991       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1992       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1993       | Wet             | -                        | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1994       | Critical        | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1995       | Wet             | -                        | -  | -  | -  | -   | 1  | 1  | -  | -   | -  | -  | -  | -   | 1  | 1  | -  | 1   | -  | -  | 1  | -   | -  | -  | -  |
| 1996       | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1997       | Wet             | -                        | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  | -   | 1  | 1  | -  |
| 1998       | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |
| 1999       | Wet             | -                        | -  | -  | -  | 1   | 1  | 1  | 1  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  | -   | -  | -  | -  |

al Number of Events: 1 16 14 1 3 21 21 3 - 16 16 - - 22 22 - 1 21 21 1 - 21 21 -

| Summary:                               |                |              |                                |     |     |    |                         |        |        |      |  |
|----------------------------------------|----------------|--------------|--------------------------------|-----|-----|----|-------------------------|--------|--------|------|--|
|                                        | Poss. # Events | 10% Threshld | Total Habitat Reduction Events |     |     |    | Significance Evaluation |        |        |      |  |
|                                        |                |              | NP                             | HC  | WS  | ST | NP                      | HC     | WS     | ST   |  |
| Anad. Migration and Spawning (Oct-Dec) | 72             | 7.2          | 0                              | 62  | 67  | 0  | No                      | Potent | Potent | No   |  |
| Anadromous Incubation (Jan-Mar)        | 72             | 7.2          | 2                              | 62  | 56  | 2  | Less                    | Potent | Potent | Less |  |
| Anadromous Outmigration (Mar-Jun)      | 96             | 9.6          | 6                              | 70  | 66  | 6  | Less                    | Potent | Potent | Less |  |
| Resident Trout Rearing (Jun-Oct)       | 120            | 12           | 1                              | 104 | 104 | 1  | Less                    | Potent | Potent | Less |  |
| Sport Fishing Season (Apr-Nov)         | 192            | 19.2         | 5                              | 162 | 162 | 5  | Less                    | Potent | Potent | Less |  |
| Rainbow Trout Spawning (Apr-May)       | 48             | 4.8          | 4                              | 37  | 35  | 4  | Less                    | Potent | Potent | Less |  |
| Brown Trout Spawning (Oct-Nov)         | 48             | 4.8          | 0                              | 45  | 47  | 0  | No                      | Potent | Potent | No   |  |

Footnotes: ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data  
 No =No Effect  
 Less = Less than Significant  
 Potent =Potentially Significant

Kings Crane-Helms: Appendix Table-7 Summary of analysis of operational changes on streamflows. Percentage of Baseline mean monthly flow provided under the different scenarios.

Site: Kings Crane-Helms: San Joaquin River  
 Location: ode 517-519  
 Watershed: Sacramento

ZBF =Base Flow Value of Zero  
 OTP =Percentage over 1000  
 ND =No Data

| Water Year | Water Year Type | Percentage of Baseline A |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Oct                      |     |     |     | Nov |     |     |     | Dec |     |     |     | Jan |     |     |     | Feb |     |     |     | Mar |     |     |     |
|            |                 | NP                       | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | ND                       | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1976       | Critical        | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1977       | Critical        | 100                      | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 |
| 1978       | bove Norm       | 100                      | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 |
| 1979       | elow Norm       | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1980       | bove Norm       | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1981       | Dry             | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1982       | Wet             | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1983       | Wet             | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1984       | Wet             | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1985       | Dry             | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1986       | Wet             | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1987       | Dry             | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1988       | Critical        | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1989       | Dry             | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1990       | Critical        | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1991       | Critical        | 100                      | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 |
| 1992       | Critical        | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1993       | bove Norm       | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1994       | Critical        | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1995       | Wet             | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1996       | Wet             | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1997       | Wet             | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 97  | 100 | 100 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1998       | Wet             | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1999       | Wet             | 100                      | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

| Water Year | Water Year Type | Percentage of Baseline |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|            |                 | Apr                    |     |     |     | May |     |     |     | Jun |     |     |     | Jul |     |     |     | Aug |     |     |     | Sep |     |     |     |
|            |                 | NP                     | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  | NP  | PM  | WM  | ST  |
| 1975       | Wet             | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1976       | Critical        | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 |
| 1977       | Critical        | 100                    | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 |
| 1978       | bove Norm       | 100                    | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 |
| 1979       | elow Norm       | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1980       | bove Norm       | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1981       | Dry             | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1982       | Wet             | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1983       | Wet             | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1984       | Wet             | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1985       | Dry             | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1986       | Wet             | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1987       | Dry             | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1988       | Critical        | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1989       | Dry             | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1990       | Critical        | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 |
| 1991       | Critical        | 100                    | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 | 100 | 100 | 100 | 267 |
| 1992       | Critical        | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1993       | bove Norm       | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1994       | Critical        | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1995       | Wet             | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1996       | Wet             | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1997       | Wet             | 100                    | 100 | 100 | 160 | 79  | 81  | 81  | 79  | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1998       | Wet             | 100                    | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 | 100 | 100 | 100 | 160 |
| 1999       | Wet             | ND                     | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

Footnotes:

A.

BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST = PG&E Co.'s Proposed Settlement (Alternative 3)

Kings Crane-Helms: Appendix Table-9 Summary of analysis of operational changes on May-October storage. Percentages calculated based on cumulative storage between May and October. Reductions in storage greater than or equal to 20 percent are considered a potentially significant impact.

Site: NF Willow Creek: Bass Lake  
 Location: Node 504  
 Watershed: Sacramento

SIG =Potentially Significant  
 LTS =Less than Significant  
 No =No Effect  
 20% Significance threshold

| Water Year | Water Type | Cumulative Storage (May-October) A<br>Thousands of Acre-feet |       |       |       |       | Percentage of Baseline |        |        |        | Significance Evaluation |     |     |     |
|------------|------------|--------------------------------------------------------------|-------|-------|-------|-------|------------------------|--------|--------|--------|-------------------------|-----|-----|-----|
|            |            | BL2000                                                       | NP    | PM    | WM    | ST    | NP                     | PM     | WM     | ST     | NP                      | PM  | WM  | ST  |
| 1975       | Wet        | 219.6                                                        | 218.2 | 216.7 | 217.1 | 218.2 | 99.4%                  | 98.7%  | 98.9%  | 99.4%  | LTS                     | LTS | LTS | LTS |
| 1976       | Critical   | 199.2                                                        | 195.4 | 122.6 | 167.7 | 195.4 | 98.1%                  | 61.5%  | 84.2%  | 98.1%  | LTS                     | SIG | LTS | LTS |
| 1977       | Critical   | 142.2                                                        | 152.5 | 60.8  | 66.4  | 144.8 | >100%                  | 42.8%  | 46.7%  | >100%  | No                      | SIG | SIG | No  |
| 1978       | bove Norm  | 220.9                                                        | 220.1 | 215.2 | 217.5 | 220.1 | 99.6%                  | 97.4%  | 98.5%  | 99.6%  | LTS                     | LTS | LTS | LTS |
| 1979       | elow Norm  | 218.2                                                        | 217.9 | 204.1 | 213.9 | 217.9 | 99.9%                  | 93.5%  | 98.0%  | 99.9%  | LTS                     | LTS | LTS | LTS |
| 1980       | bove Norm  | 221                                                          | 218.8 | 215.2 | 217.5 | 218.8 | 99.0%                  | 97.4%  | 98.4%  | 99.0%  | LTS                     | LTS | LTS | LTS |
| 1981       | Dry        | 221.7                                                        | 217.8 | 163.7 | 214.4 | 217.8 | 98.2%                  | 73.8%  | 96.7%  | 98.2%  | LTS                     | SIG | LTS | LTS |
| 1982       | Wet        | 220.2                                                        | 219.6 | 218.2 | 214.8 | 219.6 | 99.7%                  | 99.1%  | 97.5%  | 99.7%  | LTS                     | LTS | LTS | LTS |
| 1983       | Wet        | 223.5                                                        | 223.5 | 223.5 | 223.5 | 223.5 | 100.0%                 | 100.0% | 100.0% | 100.0% | No                      | No  | No  | No  |
| 1984       | Wet        | 219.6                                                        | 217.8 | 210.6 | 215.1 | 217.8 | 99.2%                  | 95.9%  | 98.0%  | 99.2%  | LTS                     | LTS | LTS | LTS |
| 1985       | Dry        | 219.9                                                        | 217.8 | 176.5 | 212.7 | 217.8 | 99.0%                  | 80.3%  | 96.7%  | 99.0%  | LTS                     | LTS | LTS | LTS |
| 1986       | Wet        | 218.8                                                        | 218.4 | 210.3 | 215.9 | 218.4 | 99.8%                  | 96.1%  | 98.7%  | 99.8%  | LTS                     | LTS | LTS | LTS |
| 1987       | Dry        | 192                                                          | 192.6 | 119.8 | 168.7 | 192.6 | >100%                  | 62.4%  | 87.9%  | >100%  | No                      | SIG | LTS | No  |
| 1988       | Critical   | 200.1                                                        | 200.3 | 126.8 | 122.2 | 200.3 | >100%                  | 63.4%  | 61.1%  | >100%  | No                      | SIG | SIG | No  |
| 1989       | Dry        | 208.9                                                        | 208.9 | 132.9 | 159.9 | 208.9 | 100.0%                 | 63.6%  | 76.5%  | 100.0% | No                      | SIG | SIG | No  |
| 1990       | Critical   | 203.4                                                        | 198.6 | 126.3 | 171.1 | 198.6 | 97.6%                  | 62.1%  | 84.1%  | 97.6%  | LTS                     | SIG | LTS | LTS |
| 1991       | Critical   | 222.5                                                        | 217.9 | 179.8 | 210.8 | 217.9 | 97.9%                  | 80.8%  | 94.7%  | 97.9%  | LTS                     | LTS | LTS | LTS |
| 1992       | Critical   | 217.8                                                        | 217.8 | 151.5 | 177.4 | 217.8 | 100.0%                 | 69.6%  | 81.5%  | 100.0% | No                      | SIG | LTS | No  |
| 1993       | bove Norm  | 219.5                                                        | 218.2 | 210.1 | 216.8 | 218.2 | 99.4%                  | 95.7%  | 98.8%  | 99.4%  | LTS                     | LTS | LTS | LTS |
| 1994       | Critical   | 197.1                                                        | 197.1 | 119.3 | 170.2 | 197.1 | 100.0%                 | 60.5%  | 86.4%  | 100.0% | No                      | SIG | LTS | No  |
| 1995       | Wet        | 222.8                                                        | 222.6 | 222.3 | 222.8 | 222.6 | 99.9%                  | 99.8%  | 100.0% | 99.9%  | LTS                     | LTS | No  | LTS |
| 1996       | Wet        | 220.9                                                        | 218.8 | 216.7 | 217.2 | 218.8 | 99.0%                  | 98.1%  | 98.3%  | 99.0%  | LTS                     | LTS | LTS | LTS |
| 1997       | Wet        | 219.7                                                        | 217.9 | 211   | 216.6 | 217.9 | 99.2%                  | 96.0%  | 98.6%  | 99.2%  | LTS                     | LTS | LTS | LTS |
| 1998       | Wet        | 221.6                                                        | 221.6 | 220.6 | 221.6 | 221.6 | 100.0%                 | 99.5%  | 100.0% | 100.0% | No                      | LTS | No  | No  |

Footnote:

A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax

WM =WaterMax  
 ST =PG&E Co.'s preposed Settlement Agreement  
 ND = No Data for this location

Kings Crane-Helms: Appendix Table-10 The information below represents the changes in reservoir elevation in feet from the end of the previous month. Changes over 15 feet in elevation are considered to have a significant impact on centrarchid fisheries resources.

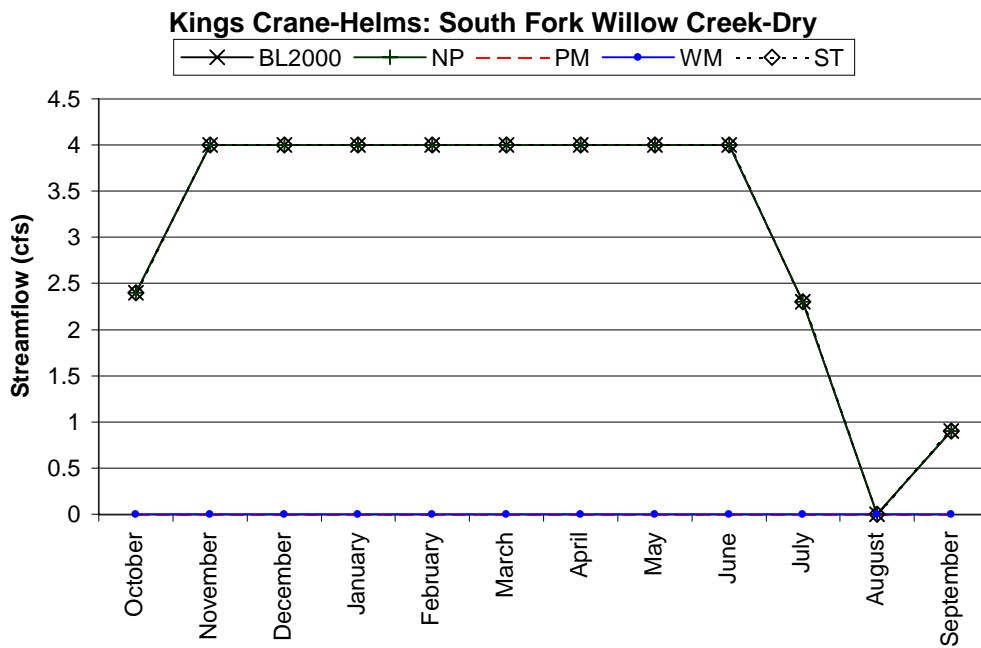
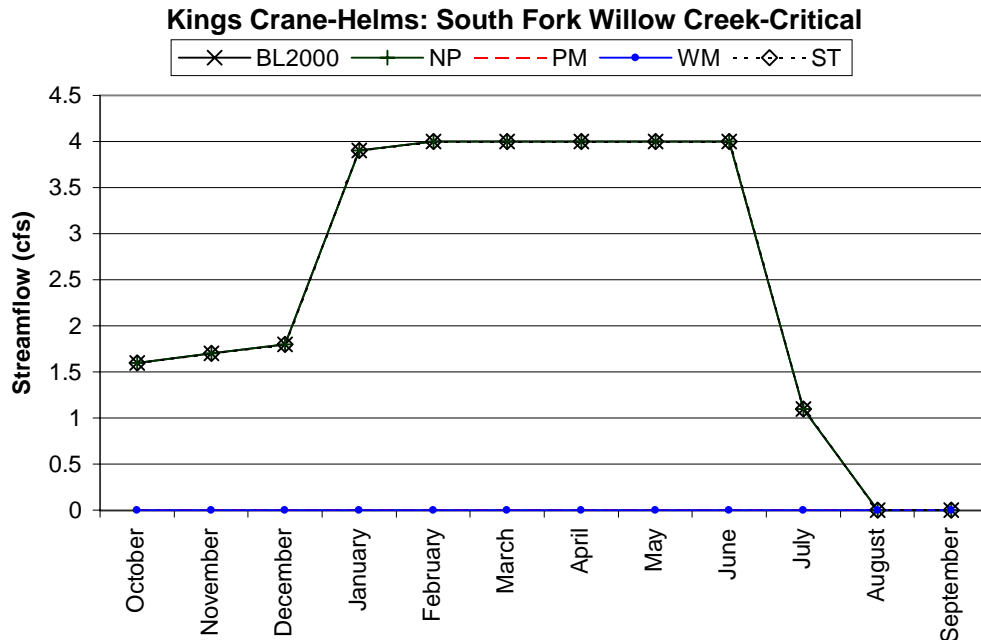
Site: NF Willow Creek: Bass Lake  
 Location: Node 504  
 Watershed: Sacramento

| Water Year | Water Type | Elevation change from end of the previous month (feet) A |      |     |      |     |      |     |      |     |      |
|------------|------------|----------------------------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
|            |            | BL2000                                                   |      | NP  |      | PM  |      | WM  |      | ST  |      |
|            |            | May                                                      | June | May | June | May | June | May | June | May | June |
| 1975       | Wet        | 10                                                       | 0    | 10  | 0    | 10  | 0    | 10  | 0    | 10  | 0    |
| 1976       | Critical   | 3                                                        | 0    | 3   | 0    | 4   | 1    | 3   | 1    | 3   | 0    |
| 1977       | Critical   | 0                                                        | 1    | 0   | 1    | 1   | 2    | 1   | 2    | -1  | 1    |
| 1978       | bove Norm  | 2                                                        | 0    | 2   | 0    | 2   | 0    | 2   | 0    | 2   | 0    |
| 1979       | elow Norm  | 6                                                        | 0    | 7   | 0    | 11  | 0    | 7   | 0    | 7   | 0    |
| 1980       | bove Norm  | 6                                                        | 0    | 6   | 0    | 6   | 0    | 6   | 0    | 6   | 0    |
| 1981       | Dry        | 3                                                        | 0    | 5   | 0    | 6   | 1    | 5   | 0    | 5   | 0    |
| 1982       | Wet        | 0                                                        | 0    | 0   | 0    | 0   | 0    | 0   | 0    | 0   | 0    |
| 1983       | Wet        | 2                                                        | 0    | 2   | 0    | 2   | 0    | 2   | 0    | 2   | 0    |
| 1984       | Wet        | 0                                                        | 0    | 2   | 0    | 2   | 0    | 2   | 0    | 2   | 0    |
| 1985       | Dry        | 2                                                        | 0    | 5   | 0    | 7   | 2    | 5   | 0    | 5   | 0    |
| 1986       | Wet        | 1                                                        | 0    | 1   | 0    | 1   | 0    | 1   | 0    | 1   | 0    |
| 1987       | Dry        | 2                                                        | 1    | 2   | 1    | 3   | 1    | 2   | 1    | 2   | 1    |
| 1988       | Critical   | 3                                                        | 1    | 3   | 1    | 4   | 1    | 4   | 1    | 3   | 1    |
| 1989       | Dry        | 3                                                        | 1    | 3   | 1    | 3   | 1    | 4   | 1    | 3   | 1    |
| 1990       | Critical   | 3                                                        | 1    | 3   | 1    | 4   | 1    | 3   | 1    | 3   | 1    |
| 1991       | Critical   | 4                                                        | 0    | 8   | 0    | 9   | 4    | 9   | 3    | 8   | 0    |
| 1992       | Critical   | 1                                                        | 0    | 3   | 0    | 3   | 1    | 3   | -2   | 3   | 0    |
| 1993       | bove Norm  | 6                                                        | 0    | 6   | 0    | 6   | 0    | 6   | 0    | 6   | 0    |
| 1994       | Critical   | 5                                                        | 1    | 5   | 1    | 6   | 1    | 5   | 1    | 5   | 1    |
| 1995       | Wet        | 3                                                        | 0    | 3   | 0    | 3   | 0    | 3   | 0    | 3   | 0    |
| 1996       | Wet        | 1                                                        | 0    | 5   | 0    | 5   | 0    | 5   | 0    | 5   | 0    |
| 1997       | Wet        | 2                                                        | 0    | 5   | 0    | 5   | 0    | 5   | 0    | 5   | 0    |
| 1998       | Wet        | 1                                                        | 0    | 8   | 0    | 8   | 0    | 8   | 0    | 8   | 0    |

**Footnote:**

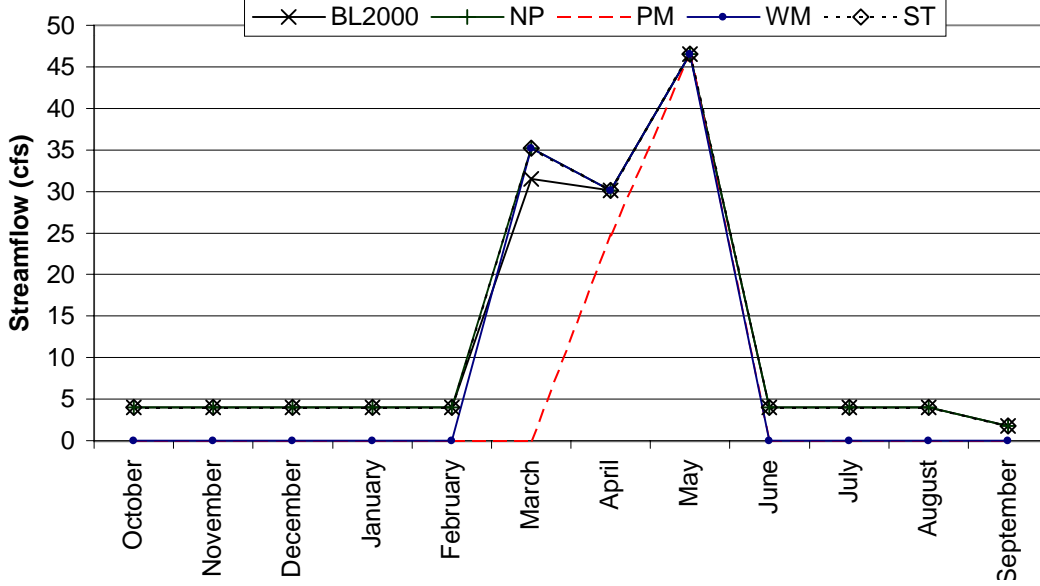
A BL2000 = Baseline 2000  
 NP = No Project  
 PM = PowerMax  
 WM =WaterMax  
 ST =PG&E Co.'s preposed Settlement Agreement  
 ND =No Data



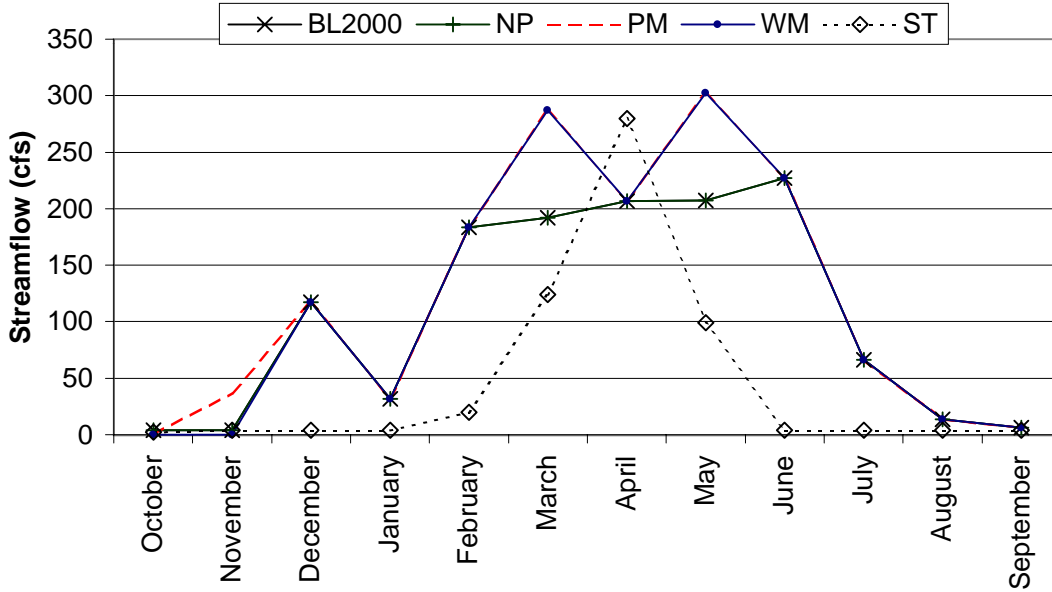


Kings Crane-Helms: Appendix Figure-1 Modeled mean monthly flows in 1977 (top) and 1981 (bottom) water years.

**Kings Crane-Helms: South Fork Willow Creek-Normal**

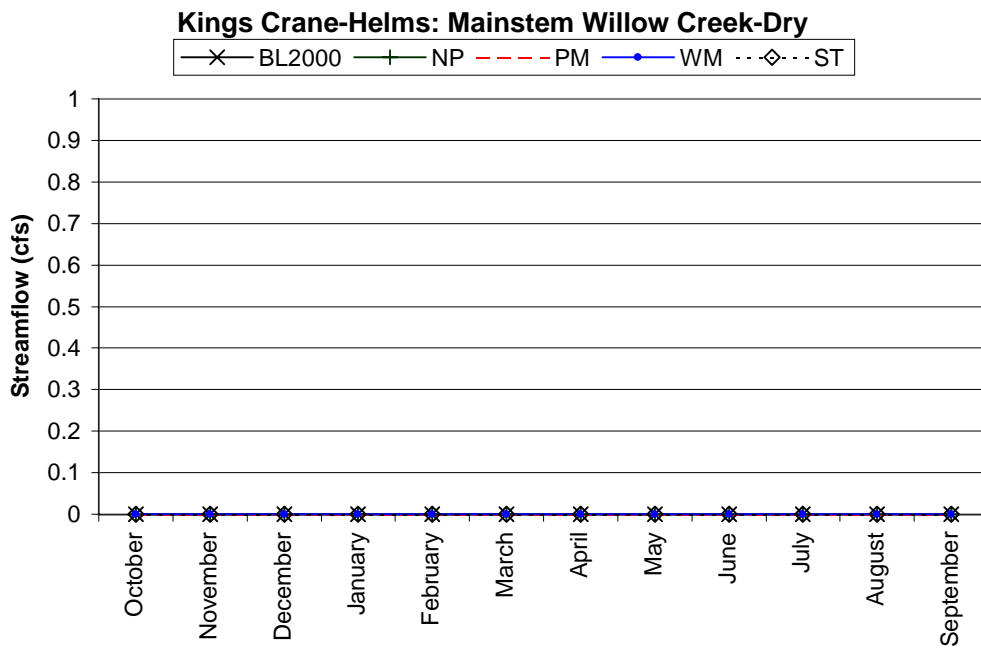
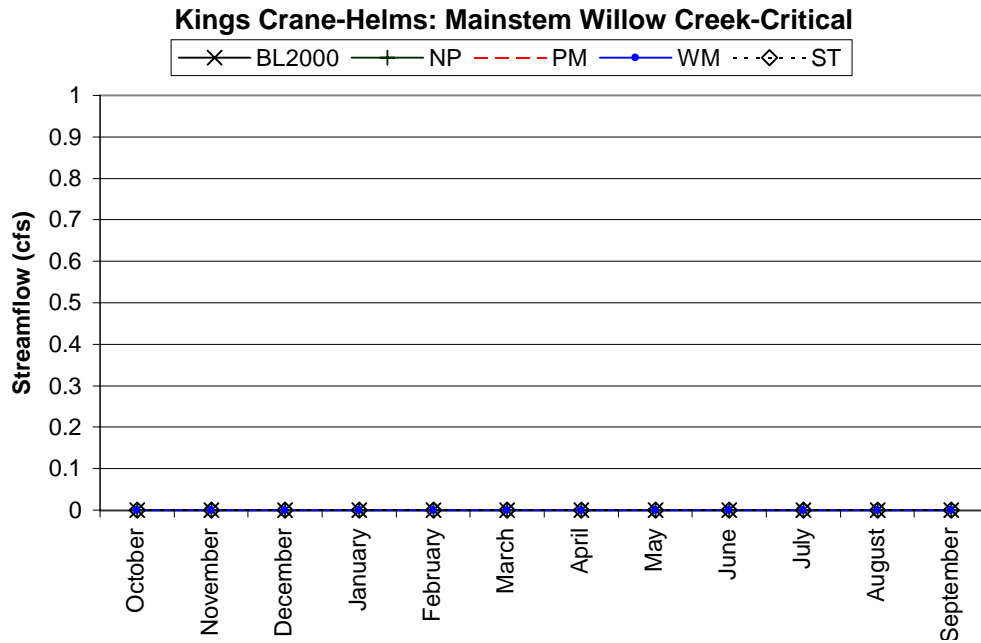


**Kings Crane-Helms: South Fork Willow Creek-Wet**

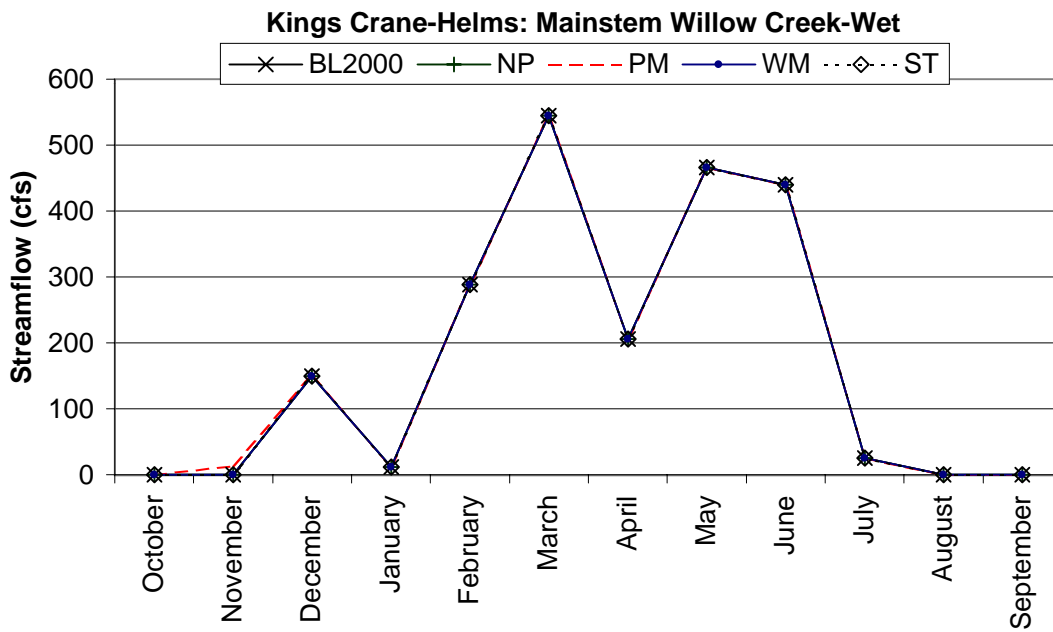
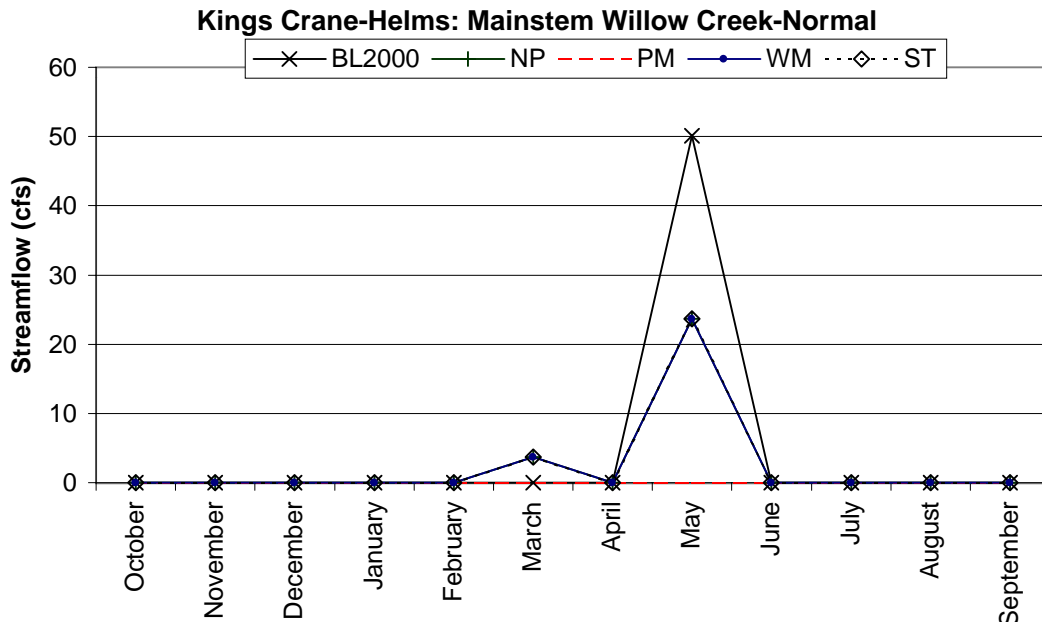


Kings Crane-Helms: Appendix Figure-2 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

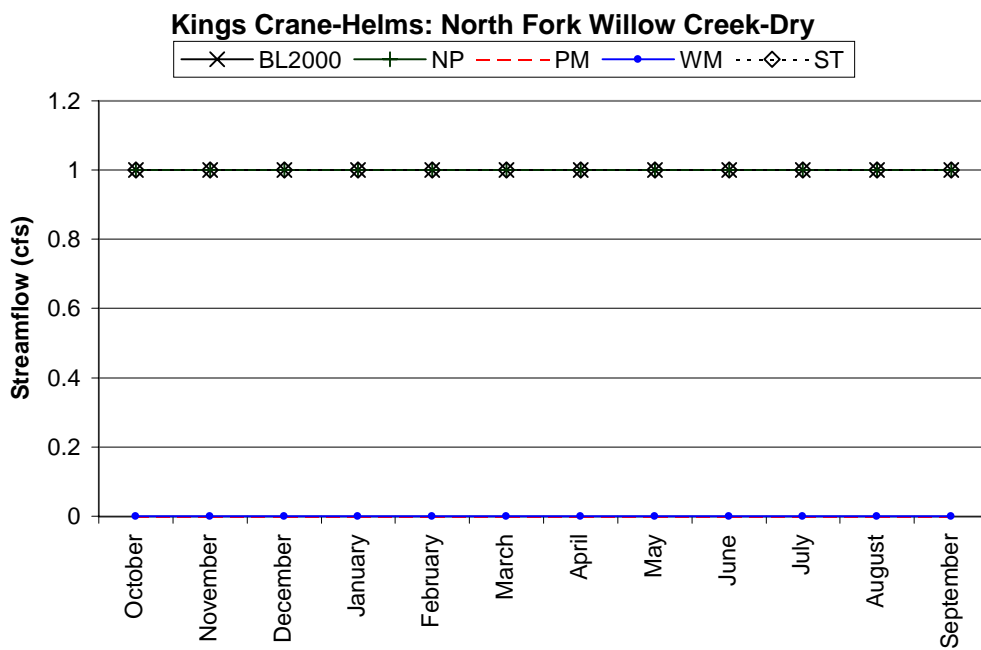
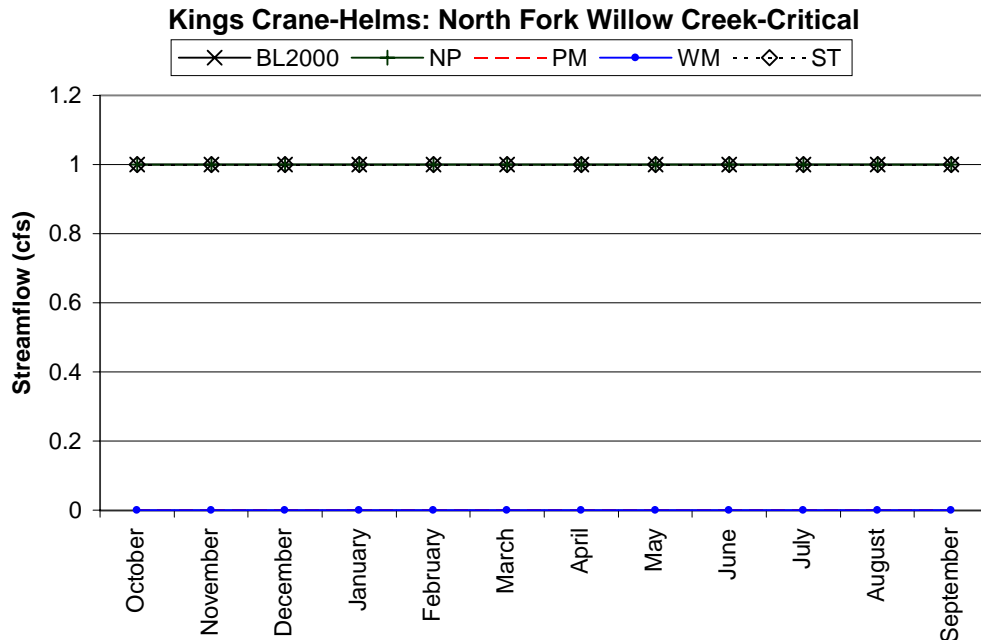




Kings Crane-Helms: Appendix Figure-3 Modeled mean monthly flows in 1977 (top) and 1981 (bottom) water years.

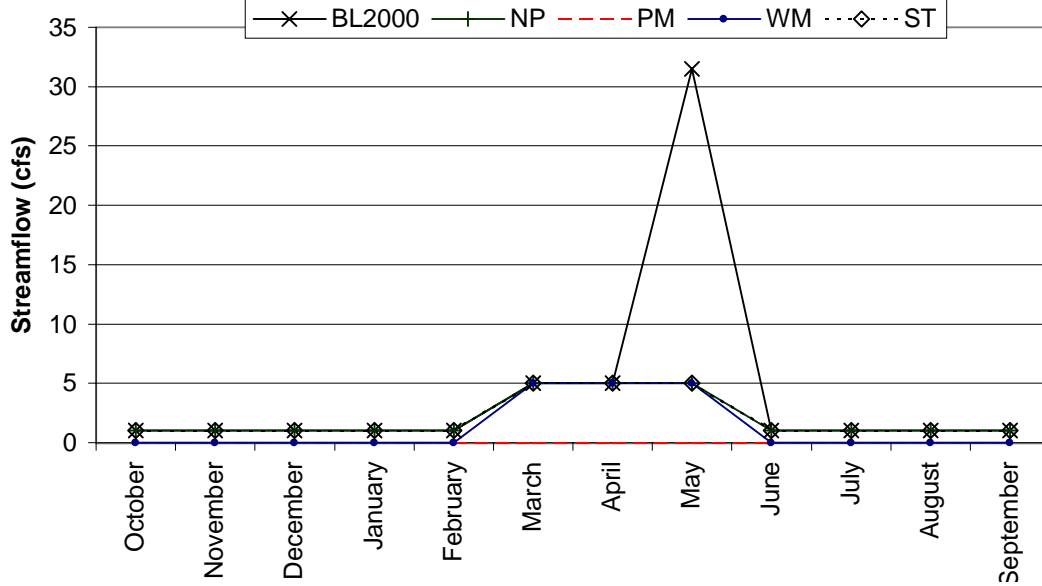


Kings Crane-Helms: Appendix Figure-4 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

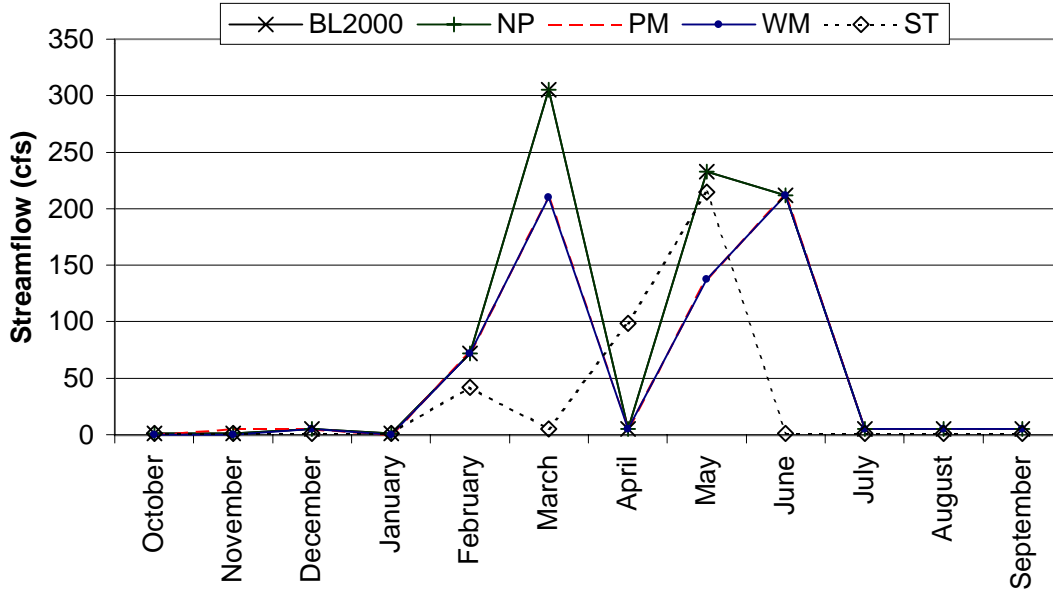


Kings Crane-Helms: Appendix Figure-5 Modeled mean monthly flows in 1977 (top) and 1981(bottom) water years.

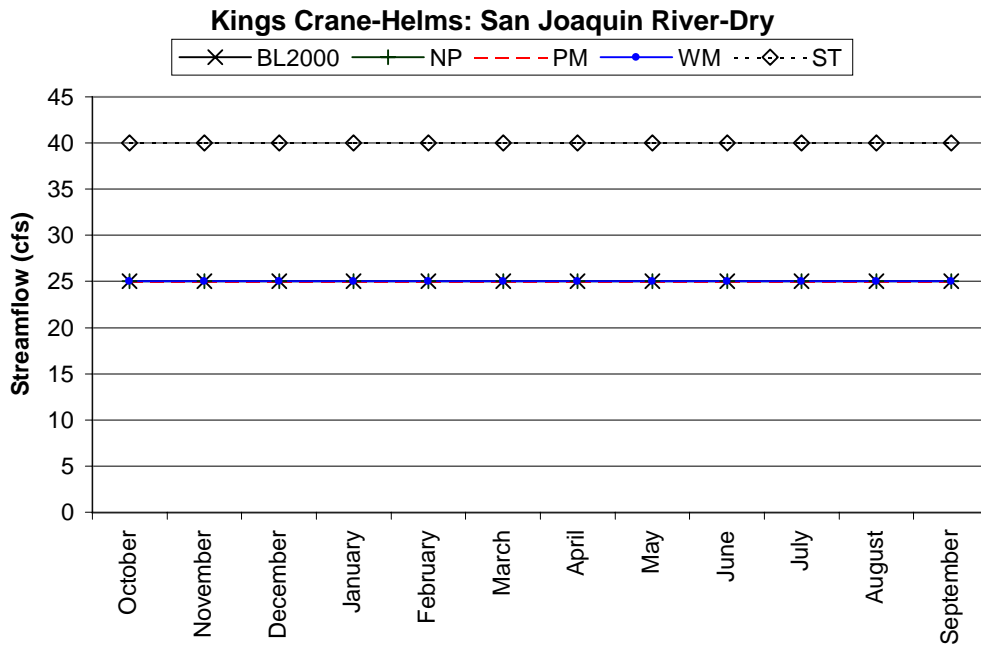
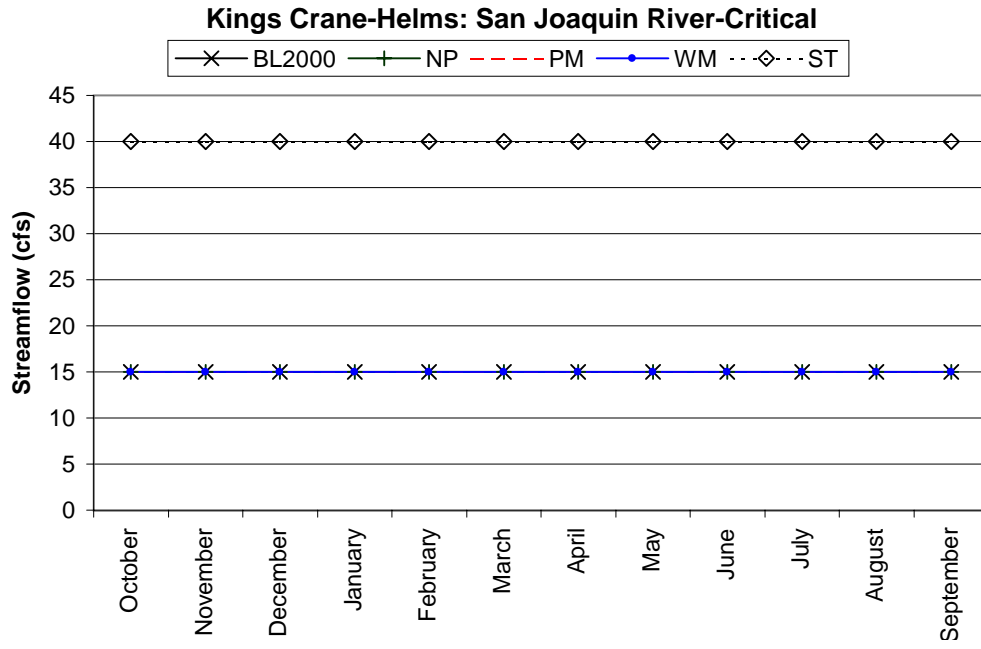
**Kings Crane-Helms: North Fork Willow Creek-Normal**



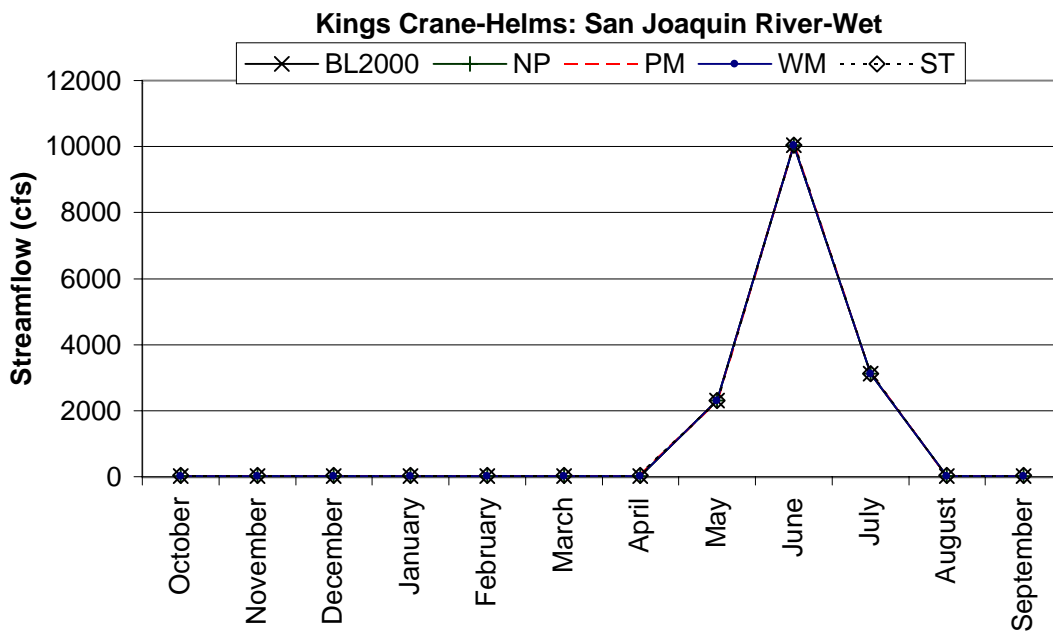
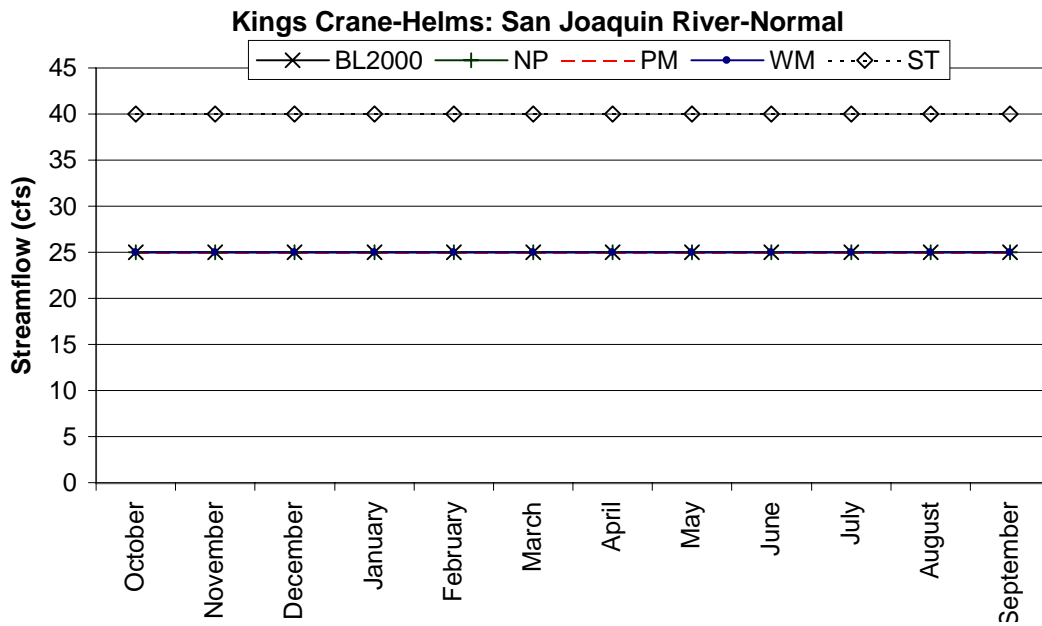
**Kings Crane-Helms: North Fork Willow Creek-Wet**



Kings Crane-Helms: Appendix Figure-6 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

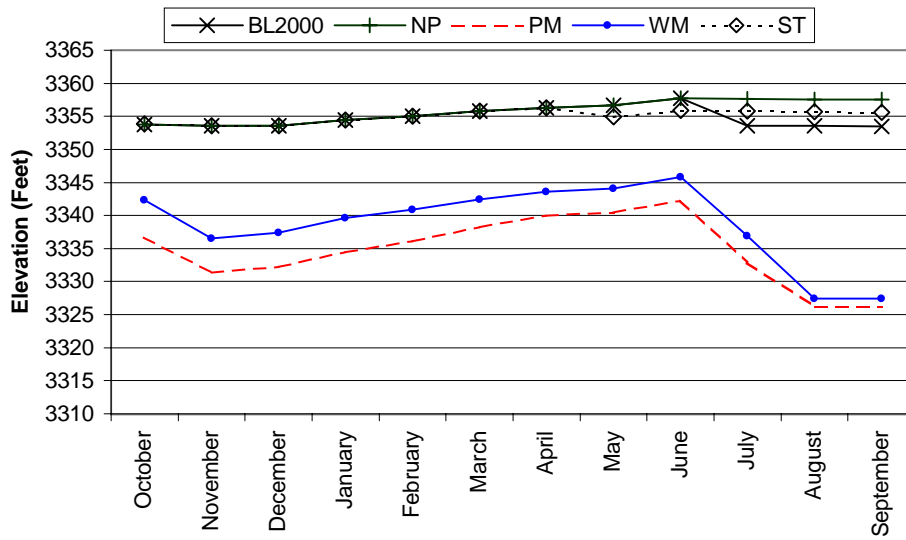
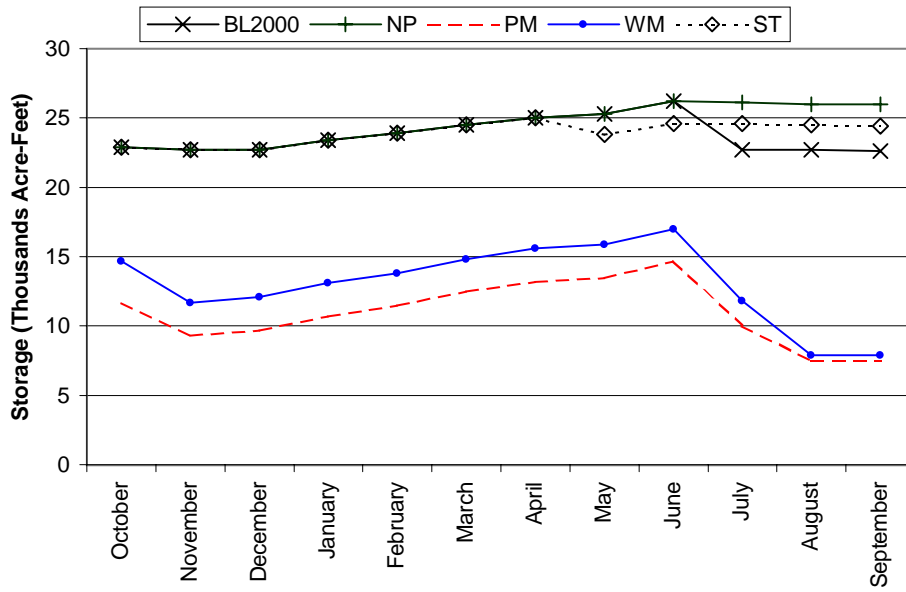


Kings Crane-Helms: Appendix Figure-7 Modeled mean monthly flows in 1977 (top) and 1981 (bottom) water years.

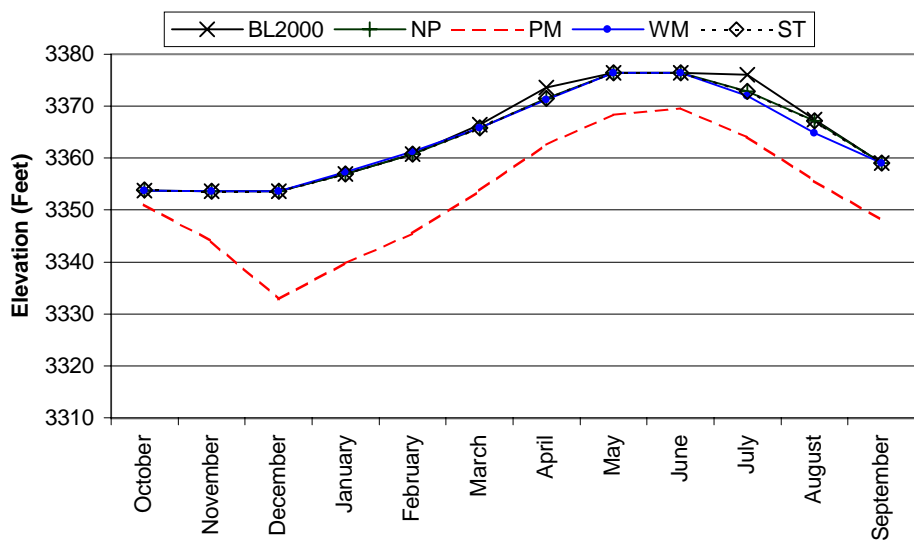
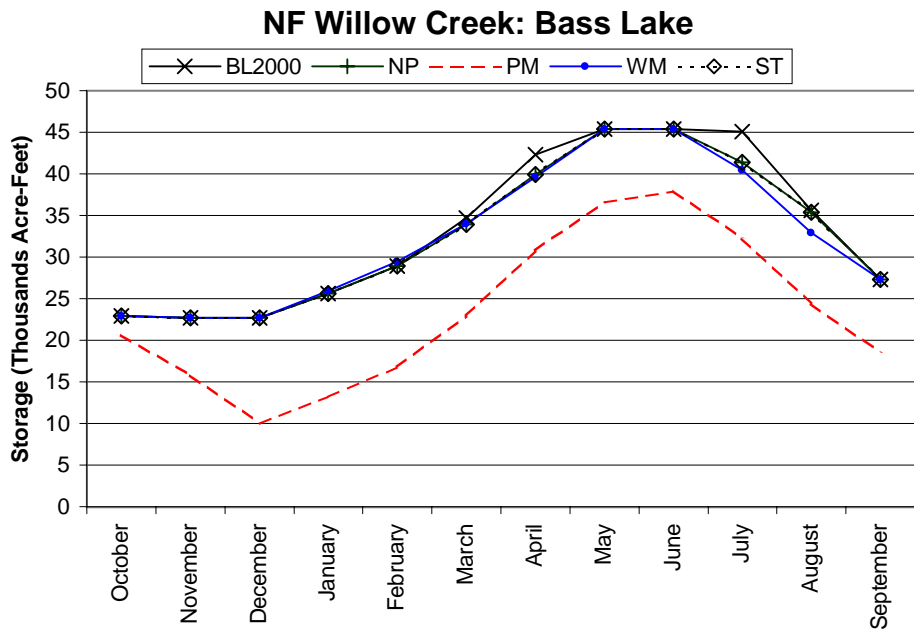


Kings Crane-Helms: Appendix Figure-8 Modeled mean monthly flows in 1979 (top) and 1983 (bottom) water years.

### NF Willow Creek: Bass Lake

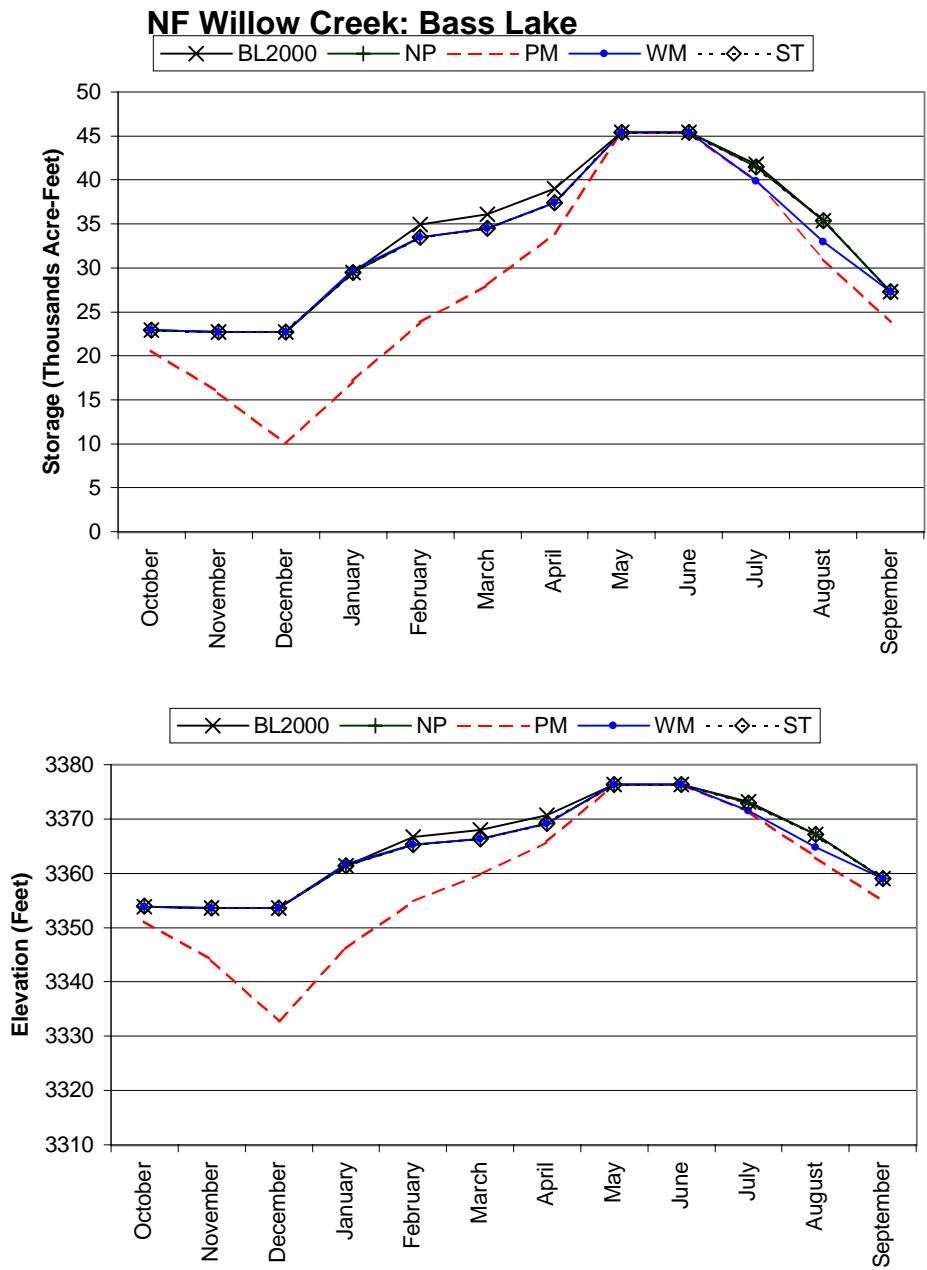


Kings Crane-Helms: Appendix Figure-9 Modeled storage and elevations in a critically dry year, 1977.



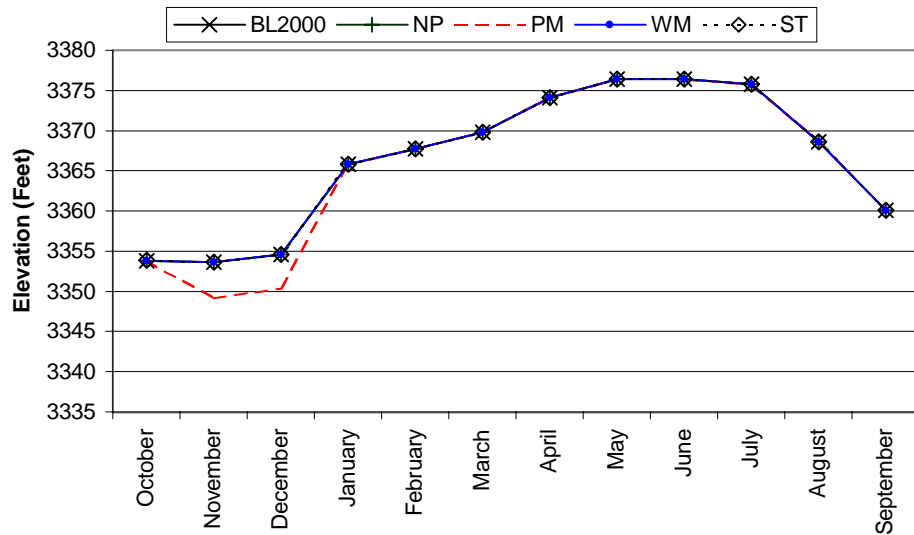
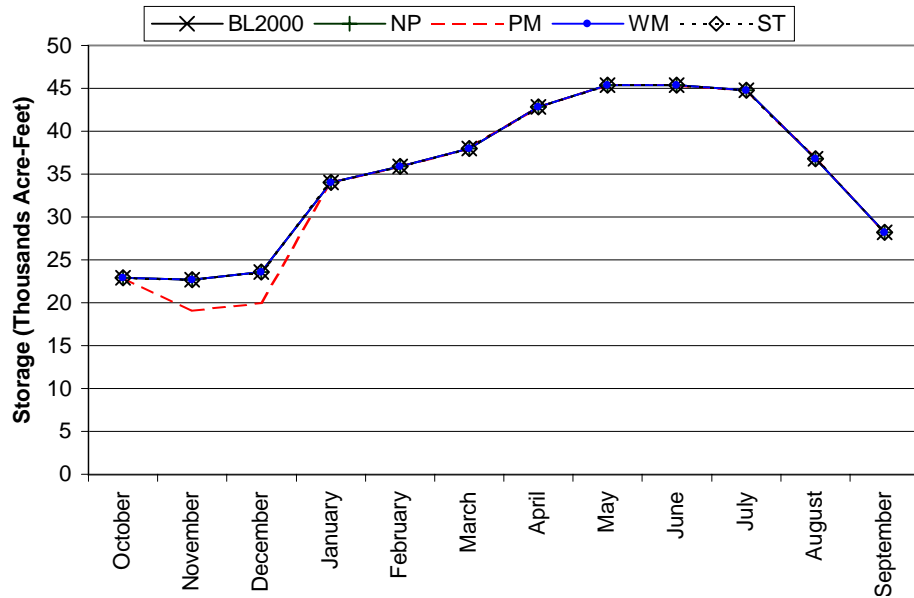
Kings Crane-Helms: Appendix Figure-10 Modeled storage and elevations in a dry year, 1981.





Kings Crane-Helms: Appendix Figure-11 Modeled storage and elevations in a normal water year, 1979.

### NF Willow Creek: Bass Lake



Kings Crane-Helms: Appendix Figure-12 Modeled storage and elevations in a wet water year, 1983.