

Summary of Feb 2002 QADJ Model Runs

Assumptions:

- * Streamflows were adjusted based on the Feb 2002 Final Water Supply Forecast and shaped 59 different ways based on observed historical runoff.
- * Projects were operated to normal flood control (i.e. no shifted flood control).
- * Starting Elevations were actual Jan 31 observed data.
- * Grand Coulee meets 15 Apr and 30 Apr flood control elevations, targets full by 30 June, drafts to meet McNary flows in July and targets 1280 ft by 31 Aug.
- * Hungry Horse meets Columbia Falls minimum flows of 3,500 cfs, targets full in June, and drafts to 3540 ft by 31 Aug.
- * Dworshak operates to flood control, attempts to meet Lower Granite flow objectives in May, targets full in June, releases 14,000 cfs in July and targets 1520 ft by 31 Aug.
- * Libby operates to flood control, releases flow for sturgeon and bull trout in May and June, targets full in July, and drafts to 2439 ft by 31 Aug.
- * Brownlee operates to flood control elevations.

Results:

Priest Rapids Meets Flow Objectives of 135 kcfs in Apr - Jun:

| Month | Occurrences out Average Flow for | |
|-------|----------------------------------|-----------------|
| | of 59 Years | 59 Years (kcfs) |
| Apr1 | 10 | 112 |
| Apr2 | 30 | 141 |
| May | 57 | 154 |
| Jun | 54 | 170 |

Lower Granite Meets Flow Objectives of 100 kcfs in Apr - Jun and 52 kcfs in Jul - Aug:

| Month | Occurrences out Average Flow for | |
|-------|----------------------------------|-----------------|
| | of 59 Years | 59 Years (kcfs) |
| Apr1 | 8 | 72 |
| Apr2 | 19 | 89 |
| May | 42 | 103 |
| Jun | 33 | 102 |
| Jul | 23 | 50 |
| Aug1 | 0 | 34 |
| Aug2 | 0 | 33 |

McNary Meets Flow Objectives of 247 kcfs in Apr2 - Jun and 200 kcfs in Jul - Aug:

| Month | Occurrences out Average Flow for | |
|-------|----------------------------------|-----------------|
| | of 59 Years | 59 Years (kcfs) |
| Apr2 | 18 | 228 |
| May | 58 | 252 |
| Jun | 42 | 270 |
| Jul | 53 | 214 |
| Aug1 | 0 | 133 |
| Aug2 | 0 | 129 |

Projects Refill by 30 June:

| Month | Occurrences out of 59 Years | Average |
|-------|--------------------------------|-------------------------------------|
| | | Elevation on 30 Jun for 59 Years |

| | | |
|--------------|----|------|
| Libby * | 4 | 2451 |
| Hungry Horse | 50 | 3559 |
| Grand Coulee | 59 | 1290 |
| Dworshak | 36 | 1591 |

* Libby refills 56 out of 59 years by 31 Jul with an average elevation of 2458.8 ft for the 59 years.