

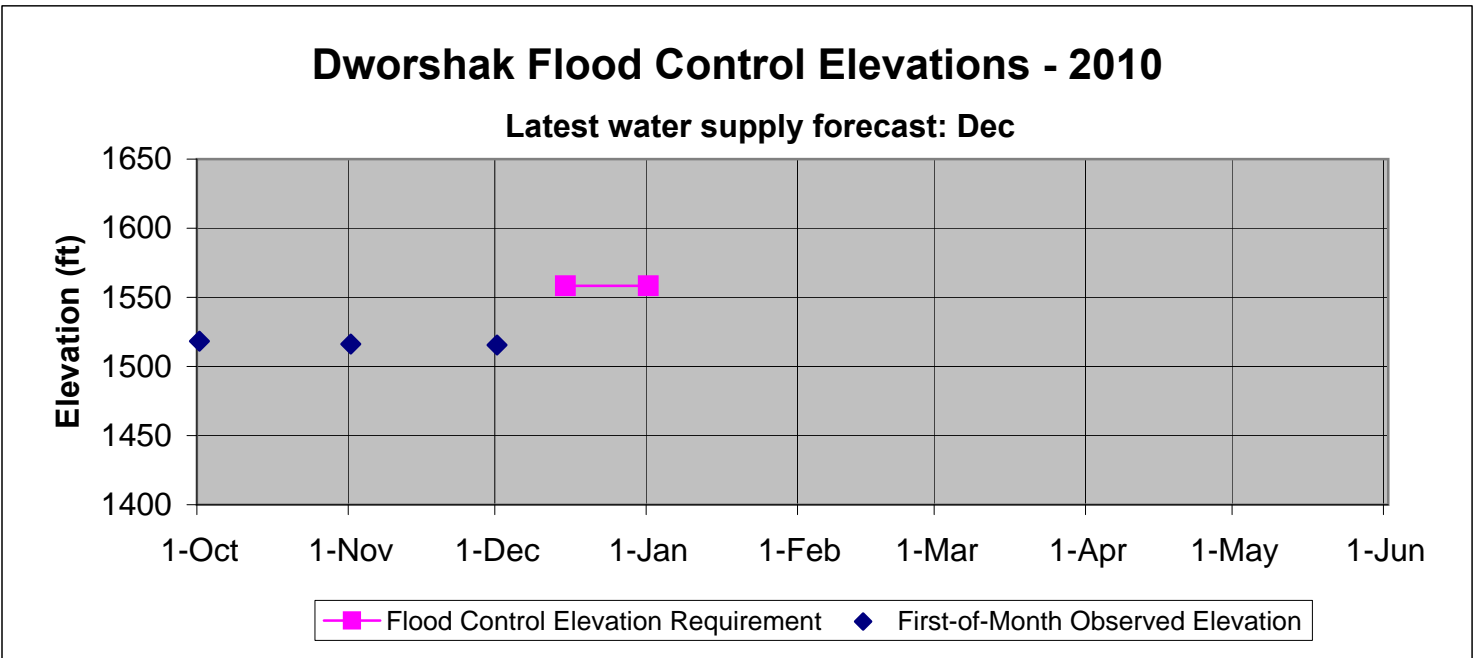
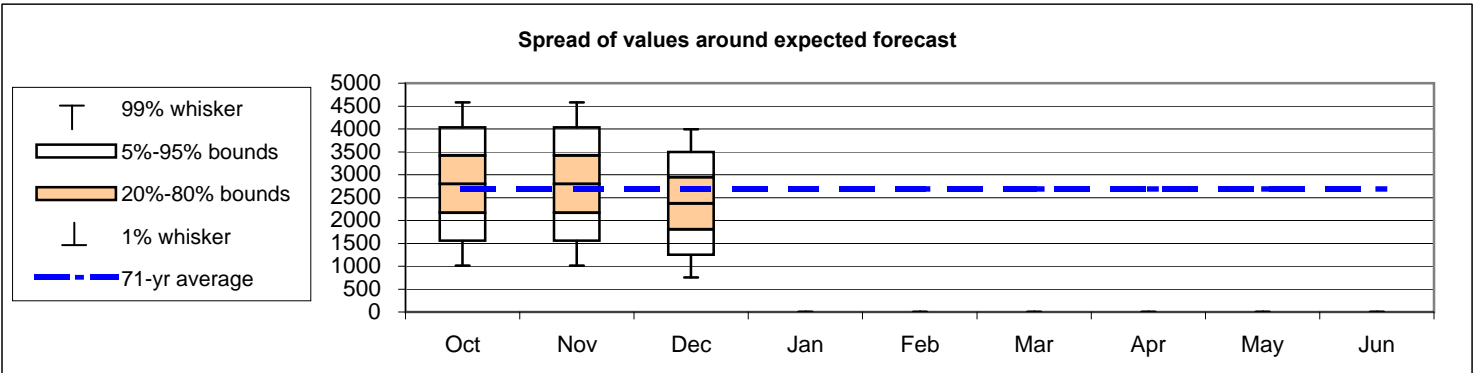
Dworshak : December Runoff Forecast & Flood Control Calculation WY 2010

Runoff Forecast and Flood Control

| | | | |
|---------------------------------------|----------------|---------------|------------|
| Most Probable Runoff Volume | Apr-Jul | 2373 | KAF |
| | May-Jul | 1751 | KAF |
| 31-Dec Flood Control Space | | 700 | KAF |
| 31-DEc Flood Control Elevation | | 1558.2 | ft |

| | |
|----------------------|-----------------------|
| 1929-1999 Average | Percent of Average |
| 2683 | 88% |
| 1980 | 88% |

| Seasonal Flood Control (assumes no shift of flood control space to Grand Coulee) | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| Forecast Date>> | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
| Apr-Jul Runoff Forecast | 2795 | 2795 | 2373 | | | | | | |
| First-of-Month Elev | 1518.2 | 1516.2 | 1515.6 | | | | | | |
| Date >> | | 15-Dec | 31-Dec | 31-Jan | 28-Feb | 31-Mar | 15-Apr | 30-Apr | |
| Flood Control Space | -- | 700 | 700 | | | | | | |
| Flood Control Elevation | -- | 1558.2 | 1558.2 | | | | | | |



Notes:

1. The given forecast is the official Corps of Engineers forecast for Dworshak. If you have any questions please contact Jeremy Giovando (509 527 7053), or Steve Hall (509 527 7550).
2. Due to updated values for precipitation, snow or streamflow, subsequent forecasts may be different from the forecast published herein.
3. 15-Dec and 31-Dec flood control space is fixed at 700 KAF.

Dworshak : December Runoff Forecast & Flood Control Calculation

| Apr-Jul Runoff Forecast Calculation: | | | | | |
|--------------------------------------|-------|----------------|--------------|------------------------|-----------------------|
| Variable | Month | Observed Value | % of Average | Regression Coefficient | Marginal Runoff (KAF) |
| | | A | | B | =A*B |
| SOI | Sep | 0.30 | | 344.40 | 103.3 |
| Headquarters Precip | Nov | 2.93 | 59% | 182.72 | 535.4 |
| Intercept | | 1 | | 1734.55 | 1734.6 |
| 1-Dec Forecast (KAF) | | | | Σ | 2373.2 |

| Data Station | Sept | Nov | Dec | 1-Jan | 1-Feb | 1-Mar | 1-Apr | 1-May | 1-Jun |
|--|------|------|-----|-------|-------|-------|-------|-------|-------|
| Climate (Stdzd SOI) | | | | | | | | | |
| September SOI | 0.30 | | | | | | | | |
| Precipitation (monthly depth, inches) | | | | | | | | | |
| Headquarters, ID | | 2.93 | -- | | | | | | |
| Snow Water Equiv (first of month SWE depth, inches) | | | | | | | | | |
| Elk Butte, ID | | | | -- | -- | -- | -- | -- | -- |
| Hemlock Butte, ID | | | | -- | -- | -- | -- | -- | -- |
| Hoodoo Basin, MT | | | | -- | -- | -- | -- | -- | -- |
| Pierce RS, ID | | | | -- | -- | -- | | | |
| Shanghi Summit, ID | | | | | | | -- | -- | |
| Lost Lake, ID | | | | | | | | -- | -- |
| Streamflow (monthly volume, KAF) | | | | Jan | Feb | Mar | Apr | May | Jun |
| Dworshak Inflow | | | | -- | -- | -- | -- | -- | -- |