SUMMARY OF EVENTS:

Reservoir Operations: Reservoir elevation changes over the past two weeks are illustrated in the following table. Libby outflow continues at 6 Kcfs. Releases from Hungry Horse will be maintained to provide a minimum flow at Columbia Falls of 3.26 Kcfs. Albeni Falls is presently releasing near 18 Kcfs. The project is targeting an end of October lake elevation of 2053 to 2054 feet and is expected to reach an elevation of 2051 feet by November 15 to 20. Grand Coulee refilled to elevation 1283 feet by the end of September and filled an additional two feet since then.

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<th>Reservoir</th>
<th>Elevations (feet)</th>
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The Upper Snake River, Boise River and Payette River system of reservoirs continue drafting slightly. The Boise system, Anderson Ranch, Arrowrock, Lucky Peak remained at 20% of capacity. The Payette River system comprised of Cascade and Deadwood reservoirs is at 37% of capacity compared to 38% two weeks ago. The Upper Snake River system comprised of Jackson Lake, Palisades, Grassy Lake, Island Park, Ririe, American Falls and Lake Walcott is at 9% of capacity compared to 10% last report.

Flows: Flows at McNary, Lower Granite, and Priest Rapids dams over the past two weeks averaged 75.8 Kcfs, 14.1 Kcfs and 63.3 Kcfs, respectively.

Smolt Monitoring Program: From the first to second week of this two-week reporting period, collection of subyearling chinook at Lower Granite, Little Goose, Lower Monumental, and McNary dams dropped between 39 and 84%, and passage indices at Bonneville Dam dropped 17%. Although the week-to-week drop at Bonneville Dam was comparatively small, there was a 40% drop in the subyearling chinook average passage index between this two-week reporting period (9/28-10/11) and the previous two-week reporting period (9/14-9/27).

Adult Fish Passage: At Bonneville Dam, counts of adult fall chinook ranged between 1,600 and 500 per day through the past two weeks with the cumulative count now 391,651 (end date 10/11). This compares with 185,037 for year 2000 and 168,729 for the 10-year average. Fish counts are decreasing through time, normal for this time of year, but overall, the upriver bright and tule fall chinook posted large numbers in 2001. Tule fall chinook topped 128,000 for the season with bright fall chinook still passing the dams. Tule fall chinook are destined for Bonneville Pool tributaries and Spring Creek National Fish Hatchery while the “bright” component of the fall chinook run are destined for most larger tributaries and streams in the basin including the Hanford Reach area. The adult fall chinook at The Dalles Dam topped 175,000 to date with 105,000 now past McNary Dam through October 11. About 12,700 adult fall chinook have been counted at Ice Harbor Dam, with the mid-Columbia count at Priest Rapids about 20,000. The majority of fall chinook counted at McNary Dam generally migrate to the Hanford Reach (including Priest Rapids Hatchery) and the Yakama River basin.
Note: This year’s fall chinook run total at Bonneville Dam exceeded the highest total since counting began at the Dam in 1938.

Steelhead counts at Bonneville Dam ranged between 2,300 (early in the report week) to near 400 per day with the cumulative count now approaching 622,000, about 2.3 and 2.8 times greater than the respective year 2000 and 10-year average counts. The B-Run steelhead counts started August 26 and will continue through the end of the count season. B-Run steelhead are mainly destined for the Clearwater River and some tributaries of the Salmon River in Idaho. Returns of unclipped (mostly wild) steelhead exceed 147,300 to date and account for about 24% of the total run. About 56% of the fish counted at Bonneville have arrived at McNary Dam (N=346,671). Steelhead passage into the Snake River remained at high levels through the past 2-weeks with peak numbers of 12,000 early in the report week to 2,500-4,000 later in the report week. The cumulative count at Ice Harbor Dam now exceeds 221,000. This total was 2.1 and 2.8 times greater than the respective 2000 and 10-year average. Steelhead counts at Priest Rapids Dam have steadily declined to near 100 per day through the past two weeks with the season total exceeding 28,000, about 2.5 and 3.4 times greater than the respective 2000 and 10-year average. Steelhead passing Rocky Reach Dam will be destined for the Entiat, Methow, and Okanogan River basins or to Wells Hatchery. Greater than 16,500 steelhead should post record or near record returns for adult steelhead into both reaches this year.

Coho salmon counts at Bonneville Dam ranged from 600-1,500 per day through the report week with 236,360 through October 11, and compares with 69,937 in year 2000 and the 10-year average count of 26,737. Note: This year’s run of coho has already exceeded the previous high count of coho salmon recorded at Bonneville Dam. The former record was set in 1986. Adult coho salmon normally spend two summers in the ocean with this season’s large return from the 2000 migration year of juvenile coho. Most coho salmon that pass Bonneville Dam are destined for the Bonneville pool tributaries and hatcheries with other coho returning to the Umatilla, Yakama, Snake, and upper Columbia River basins. So far, this run of coho is considered part of the early return, or Type-S Coho with the later run coho, Type-N normally returning from mid-October through November time frame.

Hatchery Releases.

Snake River – Releases of yearling and subyearling chinook, sockeye, and coho salmon and steelhead are completed for the 2001 migration season. Sockeye salmon will be released into Pettit, Alturas, and Redfish lakes in early October. Most of these fish will reside in the lakes through the fall and winter months and will migrate from the lakes in spring 2002.

Mid-Columbia [above McNary Dam] – Releases of yearling and subyearling chinook, sockeye, and coho salmon and steelhead are completed for the 2001 migration season. The final release of hatchery sockeye was completed into Lake Wenatchee on 9/27/01. The August/September releases of sockeye are expected to reside in the Lake through the fall and winter and migrate in spring 2002.

Lower Columbia [McNary Dam to Bonneville Dam]– Releases of yearling chinook, coho and steelhead are completed for the 2001 migration season.
### Daily Average Flow and Spill (in kcfs) at Mid-Columbia Projects

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### Daily Average Flow and Spill (in kcfs) at Snake Basin Projects

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HATCHERY RELEASE SUMMARY LAST TWO WEEKS

Hatchery Release Summary

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### Total Dissolved Gas Saturation Data at Mid Columbia River Sites

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Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

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## Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

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*The total, #days and average do not include the current day’s data. *See sampling comments. [http://www.fpc.org/current daily/smpcoments.htm](http://www.fpc.org/current daily/smpcoments.htm). This means that one or more of the sites on this date had an incomplete or biased sample.

These data are preliminary and have been derived from various sources. For verification and/or origin of these data, contact the operators of the Fish Passage Data System at (503) 230-4099.

Smolt indices, clipped & unclipped or combined, are presented in the following order: yearling chinook (chinook 1’s), subyearling chinook (chinook 0’s), steelhead, coho, and sockeye. Two classes of fish counts are shown in these tables: collection counts, which account for sample rates but are not adjusted for flow; and passage indices, which are collection counts divided by the proportion of water passing through the sampled powerhouse. Passage indices are not population estimates, but are used to adjust collection counts for daily fluctuations in the site’s or project’s operations. The classes of counts presented in the report are defined below for each site. Most samples occur over a 24-hr period that spans two calendar days. In this report, the date shown corresponds with the sample end date.
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Average: 0 0 0 0 35 29 17 0 7 0 1

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## Two-Week Summary of Passage Indices

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### Definitions for Smolt Index Counts

- **WTB (Collection):** Salmon River Trap at Whitebird : Collection Counts
- **IMN (Collection):** Imnaha River Trap : Collection Counts
- **GRN (Collection):** Grande Ronde River Trap : Collection Counts
- **LEW (Collection):** Snake River Trap at Lewiston : Collection Counts
- **LGR (Index):** Lower Granite Dam Bypass Collection System : Passage Index Counts
  - Passage Index = Collection Counts / (Powerhouse Flow / (Powerhouse Flow + Spill))
- **LGS (Index):** Little Goose Bypass Collection System : Passage Index Counts
  - Passage Index = Collection Counts / (Powerhouse Flow / (Powerhouse Flow + Spill))
- **LMN (Index):** Lower Monumental Dam Bypass Collection System : Passage Index Counts
  - Passage Index = Collection Counts / (Powerhouse Flow / (Powerhouse Flow + Spill))
- **RIS (Index):** Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts
  - Passage Index = Collection Counts / (Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill))
- **MCN (Index):** McNary Dam Bypass Collection System : Passage Index Counts
  - Passage Index = Collection Counts / (Powerhouse Flow / (Powerhouse Flow + Spill))
- **JDA (Index):** John Day Dam Bypass Collection System : Passage Index Counts
  - Passage Index = Collection Counts / (Powerhouse Flow / (Powerhouse Flow + Spill))
- **BO2 (Index):** Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts
  - Passage Index = Collection Counts / (Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill))
- **BO1 (Index):** Bonneville Dam First Powerhouse Bypass Collection System : Passage Index Counts
  - Passage Index = Collection Counts / (Powerhouse 1 Flow / (Powerhouse 1 & 2 Flow + Spill))

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.
RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.
LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.
LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.
IMN data collected for the FPC by the Nez Perce Tribe.
## Cumulative Adult Passage at Mainstem Dams Through: 10/11

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PRD is through 10/09; RIS, RRH are through 10/07. WEL is through 10/10 and is from Douglas CO PUD.

**PRD is not reporting Wild Steelhead numbers.

These numbers were collected from the COE's Running Sums text files.

Wild steelhead numbers are included in the total.

Historic counts (pre-1996) were obtained from CRITFC and compiled by the FPC.

Historic counts 1997 to present were obtained from the Corps of Engineers.
### Two Week Transportation Summary

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