



Fish Passage Center

Weekly Report #01 - 7

April 27, 2001

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SIGNIFICANT POINTS

- **Downstream migration flows at Lower Granite Dam averaged 33.4 kcfs this past week. Well below the minimum migration requirement of 85 kcfs identified in the Biological Opinion and well below the 102.5 kcfs average occurring in 2000 during the same time period.**
- **Based on average run timing for the past fifteen years, we would have expected 25% of yearling chinook and 12% of juvenile steelhead annual migration to have passed by April 26. Thus far, based upon annual estimates of expected outmigration numbers (NMFS) only 12% of the expected juvenile chinook and 3% of the expected juvenile steelhead have been observed.**
- **Thus far travel time of PIT tagged yearling chinook released from traps during the first two weeks of April are averaging; 40% longer from the Salmon River trap, 20% longer from the Imnaha trap, and 60% longer from the Grande Ronde trap when compared to 2000 travel times during the same period.**
- **The Idaho Power Company and federal action agencies have declined to take action thus far on SOR#3 for flow augmentation from Brownlee Reservoir. The request is designed to address the critical fish migration conditions above Lower Granite Dam and to increase power generation to benefit BPA.**

SUMMARY OF EVENTS:

Water Supply: Precipitation continued to be average and above average for the most of the region. The cumulative precipitation for October through April for the Columbia above Grand Coulee was 64% of average, for the Columbia above The Dalles, 66% of average, and for the Snake River above Ice Harbor, 77% of average.

The May Early Runoff Volume Forecast was issued. Due to increased precipitation in the system, the estimated runoff volumes remained higher than in April Final Runoff Volume Forecasts. The Summary of the Runoff Volume Forecasts is given in the following Table:

Site	March Final		April Final		May Early	
	Runoff Volume [KAF]	% of avg	Runoff Volume [KAF]	% of avg	Runoff Volume [KAF]	% of avg
<i>Mica (April-Sept.)</i>	9620	76	9800	77	9800	77
<i>Hungry Horse (Apr-Sep)</i>	1320	60	1300	60	1360	62
<i>Libby (April-Sep.)</i>	3570	53	3530	52	3850	57
<i>Grand Coulee (Jan-July)</i>	37600	59	37500	59	38600	61
<i>The Dalles (January-July)</i>	58600	55	56100	53	57200	54
<i>Brownlee (April-July)</i>	2390	41	1890	33	2020	35
<i>Dworshak (April-July)</i>	1550	57	1400	52	1380	51
<i>Lower Granite (Jan-July)</i>	16300	55	14100	47	14100	47
<i>Heise (ID) (April-July)</i>	2170	63	2030	59	2130	62
<i>Weiser (ID) (April-July)</i>	2230	41	1730	32	1860	34

Reservoir Operations: Reservoirs continued to be operated for power emergency needs and are far below required end of month flood control elevations. Under the prevailing conditions of low water supply it is highly unlikely that reservoirs will be refilled by the end of June as required by the 2000 Biological Opinion. A summary of the actual elevations and required flood control elevations at the end of April is shown in the following Table:

Reservoir	Actual Elev. as of April 26, 2001 [ft]	Required End of April Flood Control Elev. [ft]	Maximum Reservoir pool [ft]
<i>Libby</i>	2385.52	2448.0	2459
<i>Hungry Horse</i>	3488.01	3558.2	3560
<i>Grand Coulee</i>	1217.40	1283.3	1290
<i>Brownlee</i>	2074.79*	2077.0	2077
<i>Dworshak</i>	1524.77	1597.4	1600

*as of April 25

Libby reservoir continued at minimum outflow of 4 kcfs. Inflows were increasing from 2.2 kcfs on April 21 to 4.6 kcfs on April 26.

Hungry Horse was operating at minimum outflow of 0.93 kcfs-2.05 kcfs for the period of April 20-26 to meet the required minimum of 3.5 kcfs at Columbia Falls. Inflows were increasing from 0.5 kcfs on April 23 to 4.45 kcfs on April 26.

Grand Coulee continues to be operated to meet system power peaking demands. The most current outflows were in the range of 40.9 kcfs-69.9 kcfs for the period of April 20-26. For the same period, inflows were in the range of 60.3 kcfs-72.9 kcfs, increasing from 61.7 kcfs on April 24 to 72.9 kcfs on April 25.

Brownlee continues to be operated at elevations close to flood control elevations, fluctuating between 2074.79 ft and 2075.07 ft. The outflows at Hells Canyon Dam project were in the range of 12.06 kcfs to 14.56 kcfs for the period of April 20-26. The *Brownlee* inflows were in the range of 11.99 kcfs to 12.72 kcfs for the same period.

Dworshak was operated on minimum outflow of 1.5 kcfs-1.8 kcfs. Inflow was increasing from 4.7 kcfs on April 22 to 9.3 kcfs on April 26.

Upper Snake projects continue with refill at slower rate since fall. Currently, as of April 26, the system is at 81% of capacity; American Falls is full, Palisades is at 55% of capacity and Jackson Lake is at 77 % of capacity.

Flows: Warmer weather and increased precipitation resulted in temporary increase in outflows in the system beginning of April 25. Flows below Bonneville were fluctuating between 93.5 kcfs and 125.4 kcfs for the period of April 20-26, depending upon power generation demands.

Flows at Priest Rapids for power generation resulted in higher flows than minimum 65 kcfs for protection of redds at Vernita Bar. The daily flows were fluctuating between 67.4 kcfs and 73.7 kcfs for the period of April 20-26.

The Biological Opinion of 1995 spring flow target of 85 Kcfs at Lower Granite began on April 10. Current flows were in the range of 31.7 kcfs-42.3 kcfs for the period of April 20-26.

The Biological Opinion of 1995 spring flow target at McNary is 220 kcfs, began on April 20. The average daily flow for the period of April 20-26 was 101.8 kcfs, with fluctuations between 80.9 kcfs on April 22 to 111.8 kcfs on April 25.

Spill: There was no spill in the federal power system this past week. However, while the federal system is not providing spill for fish passage, the FERC fish spill program has begun in the Mid Columbia. Total dissolved gas readings at all the monitors are reading well in excess of 100%. Total dissolved gas concentrations have been as high as 114% (average of 12 highest hourly readings in a day) (see total dissolved gas tables) at the McNary Dam forebay monitors with hourly readings as high as 118% in the forebay on the Oregon side of the project. Some of the recent increased levels of TDGS may be attributed to the Mid Columbia fish spill program, but in general the present readings are far in excess of the concentrations anticipated based on the very limited amount of spill occurring only in the Mid Columbia River. Fish with bubbles in their lateral line have been sampled at McNary and Rock Island dams.

Smolt Monitoring: Compared to last week, trap collections of yearling chinook this reporting period (April 20-April 26) have doubled on the lower Salmon River (WTB) and increased six-fold on the lower Grande Ronde River (GRN). Following several days of collections in the thousands, the last four days of this reporting period has seen trap collections on the lower Imnaha River (IMN) drop closer in line with the other two trap sites. Steelhead collections have also increased greatly at the Imnaha and Grande Ronde River traps this week, while dropping at the Salmon River trap. The Snake River trap (LEW) has been picking up mostly low numbers of steelhead this week. Yearling chinook and steelhead PIT tagged and released from the traps on the lower Salmon, Imnaha, and Grande Ronde rivers are taking longer to migrate to Lower Granite Dam than last year at this time. The travel time to Lower Granite Dam for PIT tagged yearling chinook, released from these traps during the first two weeks of April this year, is averaging about 40% longer from the Salmon River trap, 20% longer from the Imnaha River trap, and nearly 60% longer from the Grande Ronde River trap than in 2000 during this period. This year's increase in travel time is even greater for steelhead from these traps, ranging from about 40% to nearly 130% longer than in 2000. Taking into account the NMFS's annual estimates of expected collections at Lower Granite Dam, the cumulative proportions collected of yearling chinook and steelhead at Lower Granite Dam to date in 2001 are running less than half of last year's cumulative proportion at this time. Yearling chinook collections at Lower Granite Dam have been mostly in the 20,000 fish range this week, while steelhead collections have steadily increased from around 5,000 to 50,000. This week saw over a ten-fold increase in yearling chinook passage indices at Rock Island Dam. Likewise, the last three days of this week saw yearling chinook and steelhead collection rise at McNary Dam to above 3,000 and 10,000 fish, respectively. Increases in the collections of yearling chinook and steelhead have also occurred at John Day and Bonneville dams this week. Subyearling chinook remained the second most numerous fish collected at Bonneville Dam this week following the prior week's Spring Creek Hatchery release of tule fall chinook.

Hatchery Releases – See the Hatchery Release Summary for the previous two-week and next two week projected releases for the Columbia River Basin above Bonneville Dam.

Snake River – For the week, the volitional hatchery release of yearling spring chinook from Rapid River Hatchery was completed on April 24. Release of yearling chinook into the Imnaha River, Grande Ronde River, Tucannon River, Clearwater River, and Salmon River basins have been completed for this 2001 migration season. Approximately 4.15 million spring and summer chinook were released this year, which includes a small number released last fall. Hatchery release of yearling fall chinook is complete for the season with approximately 450,000 yearling fall chinook released directly from Lyons Ferry Hatchery and 343,000 released from the Acclimation Ponds at Captain Johns, Pittsburg Landing (Snake River) and Big Canyon (Clearwater River). About 560,000 coho were released into Lapwai Creek and Potlatch River in March; one additional release of coho is scheduled for release into the Clearwater River basin. Steelhead releases are on-going from many of the hatcheries with close to 75% of the 2001 migration fish in the river basins including Imnaha River, Grande Ronde River, Salmon River, Clearwater River, Tucannon River, and the Snake River. About 9.7 million total for the year will be released in the Snake River basin for the 2001 migration season.

Mid-Columbia [above McNary Dam] – Volitional releases of spring chinook from the Acclimation Ponds in the Yakama River began mid-March and will continue through May. These include the Yakama River chinook, and approximately 3.3 million yearling spring chinook to be released in the Mid-Columbia River Zone for the 2001 migration season. About 241,000 sockeye salmon were released into Lake Wenatchee from net pens and into Lake Osoyoos (direct releases) during the fall prior to their migration this April through May. Yearling summer chinook from Wells Hatchery have been released in the Similkameen River (Okanogan River basin), with the Wenatchee, Methow and mainstem Columbia River receiving fish this week. About 4.3 million yearling summer

chinook are scheduled for release in the Mid-Columbia Reach and this total should be the highest since the Fish Passage Center began reporting hatchery releases. Hatchery steelhead releases began this week with most juvenile steelhead scheduled for release by the first week of May. The numbers scheduled for release will be almost normal (1.4 million). The Wenatchee, Entiat, Methow, Okanogan and main Columbia (Ringold Hatchery release) will be planted with the "threatened" status steelhead from WDFW and USFWS hatcheries. Steelhead from Lyons Ferry Hatchery will be released into the Walla Walla River basin, but are not considered part of the listed steelhead. The scheduled release of yearling coho will be an estimated 2.1 million for the season, also a record high for our database to date for the Mid-Columbia River Zone. Coho will be released into the Methow, Wenatchee and Yakama River basins.

Lower Columbia [McNary Dam to above Bonneville Dam]– Yearling spring chinook from State, Federal, and Tribal facilities are nearing completion for the year. Spring chinook have been released in the Umatilla, Klickitat, Deschutes, Hood, Wind, and Little White Salmon rivers to date. The estimated total of hatchery spring Chinook is 5.4 million in this River Zone; there will be a release of subyearling spring chinook in the Klickitat River in late May or early June. About 10.6 million subyearling tule fall chinook were released from Spring Creek NFH this season. Yearling releases of "bright" fall chinook were made in March and April in the Umatilla River; all other fall chinook released will be subyearling fish that will be planted in late May or June. All coho salmon have been released in the Umatilla River, Klickitat River, and Little White Salmon River basins for the 2001 migration. About 6.7 million coho salmon will be released in this Reach for the 2001 season. Steelhead have been released in the Umatilla River with the Little White Salmon, Klickitat, and Hood River basins receiving steelhead in late April through early May.

Adult Fish Passage – Fish counting started April 1 at most COE projects; currently all COE projects are counting adult fish passing mainstem Colum-

bia and Snake River dams. The PUD projects on the Mid-Columbia River began counting on April 15 at Priest Rapids, Rock Island, and Rocky Reach dams with Wells Dam scheduled to start counting on May 1. The Fish Passage Center Weekly Report will list in a Table; the adult fish counts for the week with the previous year (2000) and the 10-year averages through the same ending date so the reader can compare passage throughout the year for the individual species.

At Bonneville Dam, adult spring chinook salmon counts averaged about 6,700 per day for the week with the daily peak count of 7,689 on April 26. The total count since March 15 is now 287,722 through April 26. This year's count through April 26 compares with 102,344 in 2000 and 37,829 for the 10-year average. The 2001 count is about 2.8 times and 7.6 times greater than the respective 2000 and 10-year average. At The Dalles Dam, 205,221 adult salmon were counted through April 26, about 71.3% of the Bonneville Dam count. The McNary Dam count through April 26 is 144,188, with 90,888 adult spring chinook (Ice Harbor Count) continuing up the Snake River and about 11,410 counted at Priest Rapids Dam. Approximately 1,700 adult spring chinook were counted at Prosser Dam (through April 23). Up the Mid-Columbia River, about 2,700 adult spring chinook have passed Rock Island Dam with 372 passing Rocky Reach Dam through April 24.

As a point of interest, the jack chinook counts increased substantially this week at Bonneville Dam with a count of 34 on April 20 and an increase to 237 by April 26. Although well below the 2000 jack count, this number of jacks is twice the 10-year average.

Steelhead passage ranged between 45 and 91/day through the week at Bonneville Dam with the total through April 26 of 2,722. At Bonneville Dam, steelhead continue to primarily be lower river, winter steelhead and summer stock Skamania steelhead. Some upriver summer fish continue moving upstream to spawning sites as well. At Lower Granite Dam, steelhead counts have decreased to about 40 per day during the week with 5,451 counted since March 1. Most steelhead passing the project are those that have over-wintered in the Snake or Columbia rivers.

Daily Average Flow and Spill (in kcfs) at Mid-Columbia Projects

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/13/01	65.3	0.0	67.0	0.0	69.3	0.0	70.3	0.0	73.3	0.0	76.8	0.0	80.2	0.0
04/14/01	57.5	0.0	59.9	0.0	57.7	0.0	60.1	0.0	61.8	0.0	70.0	0.0	71.5	0.0
04/15/01	40.4	0.0	39.1	0.0	33.6	0.0	34.9	0.0	35.2	0.0	59.9	0.0	68.3	0.0
04/16/01	69.6	0.0	64.5	0.0	68.8	5.3	63.5	0.0	64.3	0.0	72.0	0.0	69.1	0.0
04/17/01	69.4	0.0	73.8	0.0	72.5	5.9	74.3	0.0	75.7	0.0	65.5	0.0	67.8	0.0
04/18/01	58.5	0.0	59.6	0.0	70.7	5.5	68.9	0.0	66.6	0.0	68.2	0.0	67.6	0.0
04/19/01	67.7	0.0	68.6	0.0	62.6	4.5	61.2	0.0	63.4	0.0	51.3	0.0	69.2	0.0
04/20/01	68.2	0.0	67.3	0.0	69.5	5.4	69.3	0.0	71.4	2.5	81.4	0.0	68.6	0.0
04/21/01	40.9	0.0	44.2	0.0	43.5	4.2	41.8	0.0	43.7	9.6	65.2	0.0	68.2	0.0
04/22/01	43.1	0.0	42.8	0.0	43.7	3.7	43.2	0.0	44.6	8.7	66.3	0.0	68.1	0.0
04/23/01	69.9	0.0	69.2	0.0	71.3	5.7	68.0	0.0	69.1	13.8	61.0	0.0	67.9	0.0
04/24/01	69.3	0.0	71.3	0.0	73.7	5.7	73.8	0.0	77.4	15.4	68.9	0.0	73.7	0.0
04/25/01	63.2	0.0	64.5	0.0	64.9	5.3	65.7	0.0	68.3	14.1	71.5	5.2	67.4	0.0
04/26/01	66.4	0.0	68.7	0.0	68.7	6.6	68.1	0.0	71.4	14.2	78.8	34.0	67.7	6.6

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

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/13/01	1.4	0.0	12.4	12.0	28.8	0.0	30.8	0.0	31.9	0.0	31.1	0.0	31.1	0.0
04/14/01	1.4	0.0	11.9	10.4	29.0	0.0	30.3	0.0	31.9	0.0	31.5	0.0	31.5	0.0
04/15/01	1.5	0.0	11.9	9.1	26.5	0.0	25.9	0.0	27.4	0.0	26.9	0.0	26.9	0.0
04/16/01	1.5	0.0	12.1	13.7	24.9	0.0	26.4	0.0	28.1	0.0	28.7	0.0	28.7	0.0
04/17/01	1.5	0.0	12.6	15.9	29.8	0.0	29.8	0.0	30.2	0.0	29.7	0.0	29.7	0.0
04/18/01	1.5	0.0	12.9	12.2	33.4	0.0	35.1	0.0	37.4	0.0	37.5	0.0	37.5	0.0
04/19/01	1.5	0.0	12.2	11.9	30.8	0.0	32.0	0.0	32.9	0.0	33.7	0.0	33.7	0.0
04/20/01	1.5	0.0	12.1	13.2	33.7	0.0	33.7	0.0	34.5	0.0	32.9	0.0	32.9	0.0
04/21/01	1.7	0.0	12.2	12.1	36.2	0.0	37.7	0.0	40.3	0.0	39.5	0.0	39.5	0.0
04/22/01	1.8	0.0	12.7	14.6	32.5	0.0	33.4	0.0	34.9	0.0	35.1	0.0	35.1	0.0
04/23/01	1.8	0.0	12.2	12.4	34.1	0.0	35.1	0.0	36.4	0.0	35.3	0.0	35.3	0.0
04/24/01	1.7	0.0	12.0	12.4	31.7	0.0	31.7	0.0	33.0	0.0	32.6	0.0	32.6	0.0
04/25/01	1.7	0.0	11.5	14.2	35.0	0.0	36.7	0.0	38.7	0.0	40.3	0.0	40.3	0.0
04/26/01	1.7	0.0	---	---	42.3	0.0	42.4	0.0	43.6	0.0	41.8	0.0	41.8	0.0

Daily Average Flow and Spill (in kcfs) at Lower Columbia Projects

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
04/13/01	114.4	0.0	116.7	0.0	119.7	0.0	124.3	0.0	15.5	100.6
04/14/01	95.3	0.0	87.7	0.0	89.6	0.0	99.9	0.0	0.5	91.1
04/15/01	80.8	0.0	83.6	0.0	84.0	0.0	98.2	0.0	2.4	87.6
04/16/01	107.5	0.0	113.1	0.0	115.2	0.0	112.9	0.0	11.4	93.3
04/17/01	112.5	0.0	116.0	0.0	113.4	0.0	121.1	0.0	12.1	100.8
04/18/01	114.8	0.0	125.7	0.0	131.0	0.0	137.0	0.0	21.8	107.0
04/19/01	100.4	0.0	112.9	0.0	111.2	0.0	121.2	0.0	11.9	101.1
04/20/01	103.1	0.0	111.0	0.0	113.1	0.0	123.9	0.0	9.1	106.6
04/21/01	99.2	0.0	89.2	0.0	95.0	0.0	109.3	0.0	4.2	96.9
04/22/01	80.9	0.0	86.1	0.0	87.9	0.0	93.5	0.0	0.5	84.8
04/23/01	101.3	0.0	99.7	0.0	100.6	0.0	102.2	0.0	0.6	93.5
04/24/01	106.3	0.0	109.9	0.0	111.7	0.0	120.4	0.0	9.6	102.6
04/25/01	111.8	0.0	119.9	0.0	117.1	0.0	122.5	0.0	9.3	105.0
04/26/01	109.7	0.0	114.8	0.0	119.1	0.0	125.4	0.0	8.5	108.7

Gas Bubble Trauma Monitoring Results from Representative Sites on the Snake River and Columbia River

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank				Fish with L. Line GBT	
								Rank 1	Rank 2	Rank 3	Rank 4	Num Fish	Avg. Rank
Lower Granite Dam													
	04/17/01	Yearling Chinook	68	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/17/01	Steelhead	32	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/24/01	Yearling Chinook	49	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/24/01	Steelhead	51	0	0	0.00%	0.00%	0	0	0	0	0	0
Little Goose Dam													
	04/18/01	Yearling Chinook	14	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/18/01	Steelhead	10	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/25/01	Yearling Chinook	71	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/25/01	Steelhead	15	0	0	0.00%	0.00%	0	0	0	0	0	0
Lower Monumental Dam													
	04/23/01	Yearling Chinook	88	2	0	0.00%	0.00%	0	0	0	0	2	1
	04/23/01	Steelhead	12	0	0	0.00%	0.00%	0	0	0	0	0	0
McNary Dam													
	04/19/01	Yearling Chinook	50	6	0	0.00%	0.00%	0	0	0	0	6	1
	04/19/01	Steelhead	50	10	0	0.00%	0.00%	0	0	0	0	10	1.1
	04/23/01	Yearling Chinook	37	4	0	0.00%	0.00%	0	0	0	0	4	1
	04/23/01	Steelhead	63	7	0	0.00%	0.00%	0	0	0	0	7	1.1
	04/26/01	Yearling Chinook	8	2	0	0.00%	0.00%	0	0	0	0	2	1
	04/26/01	Steelhead	20	3	0	0.00%	0.00%	0	0	0	0	3	1
Bonneville Dam													
	04/17/01	Yearling Chinook	89	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/20/01	Yearling Chinook	99	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/20/01	Steelhead	1	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/24/01	Yearling Chinook	6	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/24/01	Steelhead	3	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/27/01	Yearling Chinook	97	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/27/01	Steelhead	3	0	0	0.00%	0.00%	0	0	0	0	0	0
Rock Island Dam													
	04/19/01	Yearling Chinook	77	4	0	0.00%	0.00%	0	0	0	0	4	1
	04/19/01	Steelhead	7	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/23/01	Yearling Chinook	92	15	1	1.08%	0.00%	1	0	0	0	14	1
	04/23/01	Steelhead	8	1	0	0.00%	0.00%	0	0	0	0	1	1
	04/26/01	Yearling Chinook	98	5	0	0.00%	0.00%	0	0	0	0	5	1
	04/26/01	Steelhead	2	0	0	0.00%	0.00%	0	0	0	0	0	0

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	Hungry H. Dnstr			Boundary				Grand Coulee				Grand C. Tlwr				Chief Joseph				#	
	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h		#
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		
4/13	---	---	---	0	103	103	103	24	104	104	105	24	107	107	108	17	105	105	105	24	
4/14	95	95	96	2	103	104	104	24	104	105	106	24	107	107	107	20	104	105	105	24	
4/15	95	96	96	23	104	104	105	24	105	106	107	24	107	107	107	6	105	105	106	23	
4/16	96	96	96	16	104	106	107	24	106	107	109	24	107	107	108	14	106	106	107	23	
4/17	96	96	96	24	105	106	106	24	105	106	107	24	105	106	106	24	106	106	107	23	
4/18	96	97	97	24	104	105	105	24	105	106	106	24	105	105	106	24	106	107	107	23	
4/19	96	97	97	24	104	105	106	24	107	108	109	24	105	106	106	24	107	107	108	23	
4/20	96	96	97	24	105	105	106	24	108	108	109	24	106	106	107	24	108	108	108	23	
4/21	95	96	96	19	104	105	105	24	107	107	108	24	106	107	108	24	107	107	108	23	
4/22	95	95	96	17	104	105	105	24	106	107	107	24	106	106	107	24	106	107	107	23	
4/23	95	95	96	13	104	104	105	24	106	106	107	24	104	105	105	24	106	106	107	23	
4/24	95	95	96	12	104	105	106	24	107	107	108	23	105	106	107	24	106	107	107	23	
4/25	96	97	97	22	105	106	107	24	107	108	109	15	106	106	107	24	107	108	109	23	
4/26	100	102	105	22	105	106	106	24	107	107	108	12	106	107	108	24	109	109	109	23	

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	Chief J. Dnstr			Wells				Wells Dwnstrm				Rocky Reach				Rocky R. Tlwr				#	
	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h		#
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		
4/13	105	105	106	24	105	105	106	24	105	105	105	24	---	---	---	0	---	---	---	0	
4/14	104	105	106	24	105	105	106	22	104	105	105	22	---	---	---	0	---	---	---	0	
4/15	105	106	106	23	105	106	106	22	105	106	106	22	---	---	---	0	---	---	---	0	
4/16	105	107	108	23	107	107	108	19	107	109	109	19	---	---	---	0	---	---	---	0	
4/17	106	107	107	23	107	107	108	24	108	109	109	24	---	---	---	0	---	---	---	0	
4/18	107	107	108	23	106	107	107	21	108	108	109	21	107	107	107	10	---	---	---	0	
4/19	106	107	108	23	107	107	108	23	109	109	110	23	108	108	108	8	---	---	---	0	
4/20	107	108	109	23	108	108	108	23	109	110	111	23	109	109	109	24	109	110	110	24	
4/21	107	108	108	23	107	108	108	22	109	109	110	22	108	108	109	24	109	109	109	24	
4/22	106	106	107	23	107	107	108	22	108	109	109	22	108	108	108	24	108	108	109	24	
4/23	105	106	107	23	107	107	107	23	108	108	109	23	108	108	108	23	108	108	108	23	
4/24	106	107	107	23	107	107	108	22	108	109	109	22	108	108	108	22	108	108	108	20	
4/25	107	107	108	23	108	109	110	22	109	109	110	22	108	109	110	14	109	109	110	14	
4/26	108	109	109	23	109	109	110	17	110	110	111	17	110	110	111	22	110	111	111	22	

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	Rock Island			Rock I. Tlwr				Wanapum				Wanapum Tlwr				Priest Rapids				#	
	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h		#
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		
4/13	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	
4/14	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	
4/15	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	
4/16	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	
4/17	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	
4/18	103	103	104	9	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	
4/19	104	104	104	7	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	
4/20	106	106	107	24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	
4/21	105	106	106	24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	
4/22	105	105	105	24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	
4/23	104	105	105	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	
4/24	104	104	105	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	
4/25	104	104	105	15	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	
4/26	105	105	106	22	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	

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

Total Dissolved Gas Saturation Data at Lower Columbia and Snake River Sites

Date	Priest R. Dnst			Pasco			Dworshak			Clrwrtr-Peck			Anatone			#				
	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
4/13	---	---	---	0	103	104	104	24	106	108	108	24	---	---	---	0	102	103	105	24
4/14	---	---	---	0	104	105	105	24	107	108	109	24	---	---	---	0	103	104	105	24
4/15	---	---	---	0	105	105	106	21	107	108	110	24	103	104	106	24	103	104	106	24
4/16	---	---	---	0	106	106	108	8	107	108	109	24	103	105	106	24	103	105	106	24
4/17	---	---	---	0	106	106	107	14	107	107	108	24	102	103	105	24	102	103	104	24
4/18	---	---	---	0	106	107	107	24	106	107	108	24	102	102	103	24	102	102	103	24
4/19	---	---	---	0	106	107	107	24	106	106	108	24	102	103	104	24	103	104	105	24
4/20	---	---	---	0	107	107	108	24	106	107	108	24	102	102	103	24	102	103	104	24
4/21	---	---	---	0	106	107	107	24	105	106	107	24	102	103	104	24	102	103	104	24
4/22	---	---	---	0	105	106	107	24	102	103	103	24	101	103	103	24	102	103	104	24
4/23	---	---	---	0	105	105	106	24	102	103	104	24	101	102	103	24	102	103	104	24
4/24	---	---	---	0	106	107	108	24	104	105	107	24	103	104	105	24	103	105	106	24
4/25	---	---	---	0	108	109	109	24	105	107	108	24	103	104	105	24	103	105	106	24
4/26	---	---	---	0	109	110	110	24	106	107	108	24	102	102	103	24	103	104	105	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	Clrwrtr-Lewiston			Lower Granite			L Granite Tlwr			Little Goose			L Goose Tlwr			#				
	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
4/13	102	104	105	24	99	99	99	24	98	98	99	24	100	100	100	24	99	99	100	24
4/14	103	105	107	24	100	101	103	24	98	99	99	23	100	101	104	24	99	99	100	24
4/15	103	106	108	24	102	103	105	24	99	99	100	24	103	104	106	24	100	100	100	24
4/16	104	106	109	24	103	103	104	24	100	101	102	23	103	104	105	24	101	101	102	24
4/17	103	105	106	24	102	102	103	24	100	100	102	24	101	102	103	24	100	100	101	24
4/18	101	102	102	24	102	102	103	24	100	101	102	24	101	101	102	24	100	100	101	24
4/19	102	104	105	24	103	104	106	24	101	102	102	24	102	102	103	24	101	101	101	24
4/20	102	103	104	24	105	105	105	24	103	103	103	24	103	103	104	24	101	101	101	24
4/21	102	105	106	24	103	103	104	24	102	102	103	24	102	103	105	24	101	101	101	24
4/22	102	104	105	24	101	102	103	24	101	101	101	24	101	101	102	24	100	100	100	24
4/23	102	103	104	24	101	102	105	24	100	100	100	24	101	101	101	24	100	100	100	24
4/24	103	106	108	24	103	104	105	24	101	101	102	24	103	104	106	24	101	101	102	24
4/25	104	106	108	24	105	107	108	24	101	102	102	24	109	111	116	24	103	104	104	24
4/26	102	104	105	24	105	106	107	24	103	103	103	24	108	111	114	24	104	104	105	24

Total Dissolved Gas Saturation Data at Snake and Lower Columbia River Sites

Date	Lower Mon.			L. Mon. Tlwr			Ice Harbor			Ice Harbor Tlwr			McNary-Oregon			#				
	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
4/13	100	100	100	24	100	100	101	24	100	100	101	24	101	102	102	24	103	103	104	24
4/14	100	100	102	24	100	100	101	24	99	100	100	24	101	102	102	24	104	106	109	24
4/15	102	103	105	24	101	101	103	24	101	102	105	24	101	102	103	24	104	106	107	24
4/16	103	105	107	24	102	103	103	24	102	102	103	24	102	103	104	24	104	106	107	24
4/17	101	102	105	24	101	101	101	24	100	101	102	24	101	102	102	24	105	107	110	24
4/18	102	102	103	24	101	101	102	24	101	102	103	24	102	102	103	24	107	108	110	24
4/19	102	103	104	24	102	103	103	24	102	103	103	24	103	104	104	24	108	109	112	24
4/20	104	104	106	24	101	101	102	5	103	104	106	24	103	104	105	24	109	111	113	24
4/21	103	103	104	24	---	---	---	0	102	102	103	24	103	104	104	24	109	110	112	24
4/22	102	102	102	24	---	---	---	0	100	101	101	24	102	102	103	24	107	108	110	24
4/23	101	101	101	24	---	---	---	0	100	101	101	24	102	102	102	24	106	107	108	24
4/24	102	102	104	24	---	---	---	0	102	103	104	24	102	103	104	24	108	110	116	24
4/25	104	105	107	24	103	103	104	18	105	107	109	24	103	104	105	24	112	114	117	24
4/26	105	107	108	24	103	103	104	24	103	104	105	24	104	104	105	24	111	114	118	24

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	McNary-Wash			McNary Tlwr			John Day			John Day Tlwr			The Dalles			#				
	24 h	12 h		24 h	12 h		24h	12h		24h	12h		24h	12h						
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High		hr			
4/13	102	102	103	24	102	102	102	24	101	101	102	24	102	102	104	24	101	102	102	24
4/14	103	104	105	24	102	103	103	24	102	103	104	24	102	102	103	24	101	102	102	24
4/15	105	107	108	24	103	104	104	24	103	104	105	23	103	103	104	24	102	102	103	23
4/16	106	107	108	24	104	105	106	24	104	105	106	23	103	103	104	24	103	104	104	23
4/17	105	106	109	24	104	104	105	24	102	102	102	23	102	102	103	24	103	103	103	23
4/18	108	109	110	24	105	106	106	24	102	103	103	23	102	102	103	24	103	103	103	23
4/19	109	111	114	24	107	107	107	24	102	103	103	23	103	103	104	24	103	103	104	23
4/20	111	112	113	24	107	108	108	24	103	103	103	23	104	104	105	24	103	103	104	23
4/21	109	110	111	24	107	107	108	24	103	103	104	23	103	104	105	24	102	103	103	23
4/22	106	107	107	24	105	105	106	24	102	102	102	23	103	104	105	24	102	102	103	23
4/23	105	105	105	24	104	105	105	24	102	102	102	23	103	104	105	24	102	102	103	23
4/24	107	108	109	24	105	106	106	24	103	104	105	23	103	104	104	22	103	104	104	23
4/25	111	113	115	24	107	107	108	24	108	111	113	23	106	106	107	24	105	105	106	23
4/26	109	110	112	24	107	107	107	24	108	110	112	23	106	106	107	24	106	106	107	23

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	The Dalles Dnst			Bonneville			Warrendale			Skamania			CamasWashugal			#				
	24 h	12 h		24 h	12 h		24h	12h		24h	12h		24h	12h						
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High		hr			
4/13	102	102	103	24	101	102	102	24	102	102	103	22	101	102	102	24	102	103	104	24
4/14	102	102	103	24	102	102	103	22	102	103	104	24	102	102	103	24	103	103	104	24
4/15	102	103	103	24	103	103	103	23	103	104	104	23	102	103	104	23	103	103	104	24
4/16	103	104	104	24	104	104	104	23	104	104	105	23	103	104	104	23	104	105	105	24
4/17	103	103	104	24	103	104	104	23	103	104	104	23	103	104	104	23	103	104	105	24
4/18	103	104	104	24	104	105	106	22	105	105	107	23	104	105	105	23	105	106	107	24
4/19	103	103	103	24	105	105	106	23	105	106	107	23	105	105	106	23	105	107	107	24
4/20	103	103	104	24	105	105	105	23	105	105	106	23	105	105	105	23	106	106	107	24
4/21	102	102	103	24	104	104	104	23	104	105	106	23	104	104	104	23	105	106	106	24
4/22	101	102	103	24	103	103	104	23	103	104	104	23	103	103	103	23	104	104	105	24
4/23	101	102	103	24	102	102	103	23	103	103	104	22	102	103	103	23	103	104	105	24
4/24	102	103	103	24	103	103	104	23	104	104	105	22	103	104	104	23	104	106	107	24
4/25	104	106	107	24	105	106	107	22	105	107	107	23	105	106	107	23	106	107	108	24
4/26	106	106	107	24	106	107	107	23	107	108	109	23	106	107	107	23	108	109	110	24

HATCHERY RELEASE SUMMARY LAST TWO WEEKS

From:		4/14/01		to		4/27/01			
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
IDFG	Clearwater	CH1	SP	2001	84,649	03-29-01	04-13-01	Crooked R Acclim Pd	S Fk Clearwater River
IDFG	Clearwater	ST	SU	2001	97,500	04-16-01	04-20-01	Redhouse (SFk ClearH20 R)	S Fk Clearwater River
IDFG	Clearwater	ST	SU	2001	97,500	04-20-01	04-26-01	Clear Cr	Clearwater Rvr M F
IDFG	Clearwater	ST	SU	2001	245,000	04-18-01	04-26-01	Crooked R Acclim Pd	S Fk Clearwater River
IDFG	Clearwater	ST	SU	2001	249,000	04-09-01	04-26-01	Red River Acclim Pd	S Fk Clearwater River
IDFG	Magic Valley	ST	SU	2001	50,000	04-16-01	05-11-01	E Fk Salmon R	Salmon River
IDFG	Magic Valley	ST	SU	2001	65,000	04-17-01	04-17-01	Salmon R Idaho	Salmon River
IDFG	Magic Valley	ST	SU	2001	80,000	04-16-01	04-16-01	N Fk Salmon R	Salmon River
IDFG	Magic Valley	ST	SU	2001	100,000	04-16-01	05-11-01	Lemhi R	Salmon River
IDFG	Magic Valley	ST	SU	2001	100,000	04-16-01	05-11-01	Yankee Fk (Salmon R)	Salmon River
IDFG	Magic Valley	ST	SU	2001	115,000	04-12-01	04-24-01	Salmon R Idaho	Salmon River
IDFG	Magic Valley	ST	SU	2001	140,000	04-17-01	04-20-01	McNabb/Salmon R	Salmon River
IDFG	Magic Valley	ST	SU	2001	150,000	04-14-01	04-18-01	Shoup Br (Salmon R)	Salmon River
IDFG	Magic Valley	ST	SU	2001	180,000	04-16-01	05-11-01	Hammer Cr	Salmon River
IDFG	Magic Valley	ST	SU	2001	185,000	04-19-01	05-04-01	Squaw Cr Acclim Pd	Salmon River
IDFG	Magic Valley	ST	SU	2001	240,000	04-16-01	05-11-01	Lemhi R	Salmon River
IDFG	Magic Valley	ST	SU	2001	435,000	04-10-01	04-27-01	Little Salmon R	Salmon River
IDFG	Niagara Springs	ST	SU	2001	250,000	04-08-01	04-13-01	Little Salmon R	Salmon River
IDFG	Niagara Springs	ST	SU	2001	830,000	04-15-01	05-02-01	Pahsimeroi H	Pahsimeroi River
IDFG	Pahsimeroi	CH1	SP	2001	85,000	04-12-01	04-20-01	Pahsimeroi H	Pahsimeroi River
IDFG	Pahsimeroi	CH1	SP	2001	197,000	04-12-01	04-20-01	Pahsimeroi H	Pahsimeroi River
IDFG	Rapid River	CH1	SP	2001	736,000	03-15-01	04-24-01	Rapid River H	Little Salmon River
IDFG	Sawtooth	CH1	SP	2001	57,134	04-18-01	04-18-01	Sawtooth H	Salmon River
IDFG Total					4,768,783				
Nez Perce Tribe	Hagerman	ST	SU	2001	140,000	04-11-01	04-15-01	Yankee Fk (Salmon R)	Salmon River
Nez Perce Tribe	Lookingglass	CH1	SP	2001	134,800	04-01-01	04-15-01	Lostine Accim Pd	Grande Ronde River
Nez Perce Tribe	Lookingglass	CH1	SP	2001	142,400	04-01-01	04-15-01	Catherine Cr Acclim Pd	Grande Ronde River
Nez Perce Tribe	Lyons Ferry	CH1	FA	2001	111,000	04-09-01	04-13-01	Cpt John Acclim Pd	Snake River
Nez Perce Tribe	Lyons Ferry	CH1	FA	2001	113,000	04-09-01	04-13-01	Pittsburg Landing	Snake River
Nez Perce Tribe	Lyons Ferry	CH1	FA	2001	129,000	04-09-01	04-13-01	Big Canyon (Clearwater R)	Clearwater Rvr M F
Nez Perce Tribe Total					770,200				
ODFW	Big Canyon	ST	SU	2001	87,000	04-08-01	04-22-01	Big Canyon Acclim.Pd	Grande Ronde River
ODFW	Irrigon	ST	SU	2001	100,000	04-16-01	04-18-01	Big Sheep Cr	Imnaha River
ODFW	Li Sheep	ST	SU	2001	155,000	04-12-01	04-13-01	L Sheep Acclim Pd	Imnaha River
ODFW	Lookingglass	CH1	SP	2001	2,564	03-16-01	04-15-01	Grande Ronde Acclim Pd	Grande Ronde River
ODFW	Lookingglass	CH1	SP	2001	123,014	03-21-01	04-16-01	Imnaha Acclim Pd	Imnaha River
ODFW	Round Butte	CH1	SP	2001	302,000	04-02-01	04-19-01	Bel. Pelton Dam	Deschutes River
ODFW	Wallowa	ST	SU	2001	174,000	04-01-01	04-15-01	Wallowa Acclim Pd	Grande Ronde River
ODFW Total					943,578				
Umatilla Tribe	Bonneville	CH1	FA	2001	240,000	04-10-01	04-20-01	Thornhollow Acclim Pd	Umatilla River
Umatilla Tribe	Cascade	CO	UN	2001	750,000	04-10-01	04-20-01	Pendelton Acclim Pd	Umatilla River
Umatilla Tribe	L White Salmon	CH1	SP	2001	183,378	04-10-01	04-20-01	Imeqes Acclim Pd	Umatilla River
Umatilla Tribe	Umatilla	ST	SU	2001	53,000	04-23-01	04-30-01	Minthorn Acclim Pd	Umatilla River
Umatilla Tribe Total					1,226,378				
USFWS	Carson	CH1	SP	2001	1,609,000	04-19-01	04-21-01	Carson H	Wind River
USFWS	Dworshak	ST	SU	2001	300,000	04-16-01	04-20-01	Kooskia H	Clearwater Rvr M F
USFWS	Dworshak	ST	SU	2001	600,000	04-16-01	04-20-01	Redhouse (SFk ClearH20 R)	S Fk Clearwater River
USFWS	Dworshak	ST	SU	2001	1,300,000	04-23-01	04-27-01	Dworshak H	Clearwater Rvr M F
USFWS	L White Salmon	CH1	SP	2001	1,100,000	04-19-01	04-19-01	Little White Salmon H	Little White Salmon River
USFWS	Leavenworth	CH1	SP	2001	1,695,000	04-17-01	04-17-01	Leavenworth H	Wenatchee River
USFWS	Spring Creek	CH0	FA	2001	5,250,000	04-15-01	04-16-01	Spring Creek H	L Col R (D/s McN Dam)
USFWS	Warm Springs	CH1	SP	2001	785,036	03-22-01	04-18-01	Warm Springs H	Deschutes River
USFWS	Willard	CO	UN	2001	1,000,000	04-19-01	04-19-01	Willard H	Little White Salmon River
USFWS	Winthrop	CH1	SP	2001	177,000	04-17-01	04-17-01	Winthrop H	Methow River
USFWS	Winthrop	ST	SU	2001	99,000	04-11-01	05-20-01	Winthrop H	Methow River
USFWS Total					13,915,036				

HATCHERY RELEASE SUMMARY LAST TWO WEEKS (CON'T)

Warm Spgs Tribe	Oak Springs	ST	SU	2001	20,000	04-26-01	04-26-01	Blackberry Acclim Pd	Hood River
Warm Spgs Tribe	Round Butte	CH1	SP	2001	31,400	04-09-01	04-24-01	Parkdale Acclim Pd	Hood River
Warm Spgs Tribe	Round Butte	CH1	SP	2001	40,000	04-09-01	04-23-01	Jones Creek Acclim Pd	Hood River
Warm Spgs Tribe	Round Butte	CH1	SP	2001	57,800	04-09-01	04-23-01	Blackberry Acclim Pd	Hood River
Warm Spgs Tribe Total					149,200				
WDFW	East Bank	CH1	SU	2001	1,009,000	04-23-01	04-25-01	Dryden Acclim Pd	Wenatchee River
WDFW	East Bank	ST	SU	2001	33,475	04-23-01	05-11-01	Chiwawa H	Wenatchee River
WDFW	East Bank	ST	SU	2001	45,500	04-23-01	05-11-01	Chiwawa H	Wenatchee River
WDFW	East Bank	ST	SU	2001	48,058	04-23-01	05-11-01	Chiwawa H	Wenatchee River
WDFW	East Bank	ST	SU	2001	57,814	04-23-01	05-11-01	Chiwawa H	Wenatchee River
WDFW	Klickitat	CO	NO	2001	1,350,000	04-16-01	04-20-01	Klickitat H	Klickitat River
WDFW	Lyons Ferry	CH1	FA	2001	450,000	04-02-01	04-13-01	Lyons Ferry H	Snake River
WDFW	Lyons Ferry	ST	SU	2001	40,000	04-02-01	04-30-01	Dayton Acclim Pd	Touchet River
WDFW	Lyons Ferry	ST	SU	2001	60,000	04-16-01	04-27-01	Lyons Ferry H	Snake River
WDFW	Lyons Ferry	ST	SU	2001	60,000	04-16-01	04-30-01	Tucannon R	Tucannon River
WDFW	Lyons Ferry	ST	SU	2001	100,000	03-26-01	04-30-01	Dayton Acclim Pd	Touchet River
WDFW	Lyons Ferry	ST	SU	2001	125,000	04-16-01	04-30-01	Walla Walla R	Walla Walla River
WDFW	Lyons Ferry	ST	SU	2001	135,000	04-16-01	04-30-01	Tucannon R	Tucannon River
WDFW	Lyons Ferry	ST	SU	2001	200,000	03-26-01	04-30-01	Cottonwood Acclim Pd	Grande Ronde River
WDFW	Methow	CH1	SP	2001	66,500	04-17-01	05-07-01	Twisp R	Methow River
WDFW	Methow	CH1	SP	2001	180,000	04-17-01	04-20-01	Methow H	Methow River
WDFW	Ringold Springs	ST	SU	2001	225,000	04-02-01	04-15-01	Ringold Springs H	Mid-Columbia River
WDFW	Tucannon	CH1	SP	2001	100,000	04-02-01	04-13-01	Curl Lake	Tucannon River
WDFW	Turtle Rock	CH1	SU	2001	294,020	04-25-01	04-25-01	Turtle Rock H	Mid-Columbia River
WDFW	Wells	CH1	SU	2001	424,787	04-19-01	04-27-01	Carlton Acclim Pd	Methow River
WDFW	Wells	CH1	SU	2001	430,000	04-23-01	05-07-01	Wells H	Mid-Columbia River
WDFW	Wells	CH1	SU	2001	632,151	04-11-01	04-20-01	Similkameen Acclim Pd	Okanogan River
WDFW	Wells	ST	SU	2001	50,000	04-16-01	04-16-01	Okanogan R	Okanogan River
WDFW	Wells	ST	SU	2001	50,000	04-16-01	04-16-01	Similkameen Acclim Pd	Okanogan River
WDFW	Wells	ST	SU	2001	116,000	04-16-01	04-16-01	Methow R	Methow River
WDFW	Wells	ST	SU	2001	116,000	04-16-01	04-16-01	Twisp R	Methow River
WDFW	Wells	ST	SU	2001	116,000	04-23-01	04-27-01	Chewuch R	Methow River
WDFW	Wells	ST	SU	2001	117,000	04-23-01	04-27-01	Methow R	Methow River
WDFW Total					6,631,305				
Yakima Tribe	Cascade	CO	UN	2001	853,000	04-25-01	04-25-01	Icicle Cr	Wenatchee River
Yakima Tribe	Cle Elum	CH1	SP	2001	232,700	03-15-01	05-31-01	Clark Flat Acclim Pd	Yakama River
Yakima Tribe	Cle Elum	CH1	SP	2001	257,700	03-15-01	05-31-01	Jack Creek Acclim Pd	Yakama River
Yakima Tribe	Cle Elum	CH1	SP	2001	266,600	03-15-01	05-31-01	Easton Pd	Yakama River
Yakima Tribe	Eagle Creek	CO	UN	2001	250,000	04-25-01	05-15-01	Winthrop H	Methow River
Yakima Tribe	Prosser	CH0	FA	2001	162,000	04-25-01	04-25-01	Prosser Acclim Pd	Yakama River
Yakima Tribe	Winthrop	CO	UN	2001	146,500	04-25-01	04-25-01	Methow R	Methow River
Yakima Tribe Total					2,168,500				
Grand Total					30,572,980				

**CH=Chinook, ST=Steelhead, CO=Coho,
CM=Chum, CT=Cutthroat Trout,
SO=Sockeye**

Hatchery Release Summary Next Two Weeks

Agency	From: Hatchery	4/28/01 Species	Race	to MigYr	5/11/01 NumRel	RelStart	RelEnd	RelSite	RelRiver
IDFG	Magic Valley	ST	SU	2001	50,000	04-16-01	05-11-01	E Fk Salmon R	Salmon River
IDFG	Magic Valley	ST	SU	2001	100,000	04-16-01	05-11-01	Lemhi R	Salmon River
IDFG	Magic Valley	ST	SU	2001	100,000	04-16-01	05-11-01	Yankee Fk (Salmon R)	Salmon River
IDFG	Magic Valley	ST	SU	2001	180,000	04-16-01	05-11-01	Hammer Cr	Salmon River
IDFG	Magic Valley	ST	SU	2001	185,000	04-19-01	05-04-01	Squaw Cr Acclim Pd	Salmon River
IDFG	Magic Valley	ST	SU	2001	240,000	04-16-01	05-11-01	Lemhi R	Salmon River
IDFG	Magic Valley	ST	SU	2001	435,000	04-10-01	04-27-01	Little Salmon R	Salmon River
IDFG	Niagara Springs	ST	SU	2001	165,000	05-03-01	06-02-01	Little Salmon R	Salmon River
IDFG	Niagara Springs	ST	SU	2001	830,000	04-15-01	05-02-01	Pahsimeroi H	Pahsimeroi River
IDFG	Sawtooth	SO	UN	2001	14,000	05-01-01	05-01-01	Redfish Lake Cr	Salmon River
IDFG	Sawtooth	ST	SU	2001	500,000	04-27-01	04-27-01	Sawtooth H	Salmon River
IDFG Total					2,799,000				
Nez Perce Tribe	Hagerman	ST	SU	2001	100,000	05-02-01	05-10-01	American R	S Fk Clearwater River
Nez Perce Tribe	Hagerman	ST	SU	2001	100,000	05-02-01	05-10-01	Newsome Cr	S Fk Clearwater River
Nez Perce Tribe	Kooskia	CO	UN	2001	280,000	05-01-01	05-18-01	Kooskia H	Clearwater Rvr M F
Nez Perce Tribe Total					480,000				
ODFW	Irrigon	ST	SU	2001	800	05-03-01	05-07-01	Deer Cr	Grande Ronde River
ODFW	Li Sheep	ST	SU	2001	80,000	05-10-01	05-11-01	L Sheep Acclim Pd	Imnaha River
ODFW	Wallowa	ST	SU	2001	108,750	05-05-01	05-15-01	Wallowa Acclim Pd	Grande Ronde River
ODFW Total					189,550				
Umatilla Tribe	Umatilla	ST	SU	2001	53,000	04-23-01	04-30-01	Minthorn Acclim Pd	Umatilla River
Umatilla Tribe Total					53,000				
USFWS	Dworshak	ST	SU	2001	1,300,000	04-23-01	04-27-01	Dworshak H	Clearwater Rvr M F
USFWS	Hagerman	ST	SU	2001	250,000	04-27-01	04-27-01	Sawtooth H	Salmon River
USFWS	Winthrop	ST	SU	2001	99,000	04-11-01	05-20-01	Winthrop H	Methow River
USFWS Total					1,649,000				
Warm Spgs Tribe	Oak Springs	ST	WI	2001	12,950	04-30-01	04-30-01	Parkdale Acclim Pd	Hood River
Warm Spgs Tribe	Oak Springs	ST	WI	2001	13,000	04-30-01	04-30-01	E Fk Irrig Dist Sand Trap	Hood River
Warm Spgs Tribe Total					25,950				
WDFW	East Bank	ST	SU	2001	33,475	04-23-01	05-11-01	Chiwawa H	Wenatchee River
WDFW	East Bank	ST	SU	2001	45,500	04-23-01	05-11-01	Chiwawa H	Wenatchee River
WDFW	East Bank	ST	SU	2001	48,058	04-23-01	05-11-01	Chiwawa H	Wenatchee River
WDFW	East Bank	ST	SU	2001	57,814	04-23-01	05-11-01	Chiwawa H	Wenatchee River
WDFW	Lyons Ferry	ST	SU	2001	40,000	04-02-01	04-30-01	Dayton Acclim Pd	Touchet River
WDFW	Lyons Ferry	ST	SU	2001	60,000	04-16-01	04-27-01	Lyons Ferry H	Snake River
WDFW	Lyons Ferry	ST	SU	2001	60,000	04-16-01	04-30-01	Tucannon R	Tucannon River
WDFW	Lyons Ferry	ST	SU	2001	100,000	03-26-01	04-30-01	Dayton Acclim Pd	Touchet River
WDFW	Lyons Ferry	ST	SU	2001	125,000	04-16-01	04-30-01	Walla Walla R	Walla Walla River
WDFW	Lyons Ferry	ST	SU	2001	135,000	04-16-01	04-30-01	Tucannon R	Tucannon River
WDFW	Lyons Ferry	ST	SU	2001	200,000	03-26-01	04-30-01	Cottonwood Acclim Pd	Grande Ronde River
WDFW	Methow	CH1	SP	2001	66,500	04-17-01	05-07-01	Twisp R	Methow River
WDFW	Skamania	ST	SU	2001	20,000	05-01-01	05-10-01	Little White Salmon R	Little White Salmon River
WDFW	Skamania	ST	SU	2001	100,000	05-01-01	05-10-01	Klickitat R	Klickitat River
WDFW	Skamania	ST	WI	2001	20,000	05-01-01	05-10-01	White Salmon R	White Salmon River
WDFW	Wells	CH1	SU	2001	424,787	04-19-01	04-27-01	Carlton Acclim Pd	Methow River
WDFW	Wells	CH1	SU	2001	430,000	04-23-01	05-07-01	Wells H	Mid-Columbia River
WDFW	Wells	ST	SU	2001	116,000	04-23-01	04-27-01	Chewuch R	Methow River
WDFW	Wells	ST	SU	2001	117,000	04-23-01	04-27-01	Methow R	Methow River
WDFW Total					2,199,134				
Yakima Tribe	Cle Elum	CH1	SP	2001	232,700	03-15-01	05-31-01	Clark Flat Acclim Pd	Yakama River
Yakima Tribe	Cle Elum	CH1	SP	2001	257,700	03-15-01	05-31-01	Jack Creek Acclim Pd	Yakama River
Yakima Tribe	Cle Elum	CH1	SP	2001	266,600	03-15-01	05-31-01	Easton Pd	Yakama River
Yakima Tribe	Cle Elum	CO	UN	2001	97,450	05-07-01	05-07-01	Cle Elem Slough	Yakama River
Yakima Tribe	Eagle Creek	CO	UN	2001	250,000	04-25-01	05-15-01	Winthrop H	Methow River
Yakima Tribe	Easton Pond	CO	UN	2001	115,000	05-07-01	05-07-01	Easton Pd	Yakama River
Yakima Tribe	Klickitat	CH0	SP	2001	160,000	05-07-01	05-09-01	Upper Klickitat R	Klickitat River
Yakima Tribe	Lost Creek	CO	UN	2001	115,000	05-07-01	05-07-01	Lost Creek Acclim Pd	Yakama River
Yakima Tribe	Stiles Pond	CO	UN	2001	115,000	05-07-01	05-07-01	Naches R	Yakama River
Yakima Tribe Total					1,609,450				
Grand Total					9,005,084				

Two-Week Summary of Passage Indices

COMBINED YEARLING CHINOOK

Date	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
04/13/2001 *	209	219	56	1	3,430	273	2,460	23	420	804	2,809
04/14/2001	---	157	---	---	3,200	400	4,660	26	581	436	2,967
04/15/2001	---	165	---	---	3,740	260	5,300	11	1,180	456	2,343
04/16/2001	155	97	30	0	4,200	316	4,757	8	748	320	2,075
04/17/2001 *	116	147	11	1	4,460	419	6,040	6	1,010	736	3,161
04/18/2001	205	677	20	0	5,138	616	5,680	11	1,352	528	9,685
04/19/2001	401	2,906	45	0	14,060	439	3,120	83	2,196	776	8,862
04/20/2001	756	1,484	51	2	11,640	1,009	3,450	867	1,982	692	5,700
04/21/2001 *	---	1,943	---	---	16,020	1,206	9,945	278	1,422	1,056	15,991
04/22/2001	---	906	---	---	22,850	1,236	6,930	247	1,476	940	23,262
04/23/2001	379	496	240	8	19,750	948	8,128	173	1,512	1,260	18,740
04/24/2001	314	182	234	1	22,200	3,756	6,060	85	3,247	1,528	16,887
04/25/2001	260	106	191	2	27,799	2,642	5,580	186	3,124	1,395	27,251
04/26/2001	584	320	276	0	25,800	3,549	9,300	295	3,814	1,760	27,145
04/27/2001 *	---	---	---	---	75,750	---	---	---	2,980	1,480	27,945
Total:	3,379	9,805	1,154	15	260,037	17,069	81,410	2,299	27,044	14,167	194,823
# Days:	10	14	10	10	15	14	14	14	15	15	15
Average:	338	700	115	2	17,336	1,219	5,815	164	1,803	944	12,988

COMBINED SUBYEARLING CHINOOK

Date	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
04/13/2001 *	0	0	0	0	0	0	0	8	45	0	202
04/14/2001	---	0	---	---	0	0	0	5	20	0	181
04/15/2001	---	0	---	---	10	0	0	3	20	0	260
04/16/2001	0	0	0	0	0	0	0	2	8	0	275
04/17/2001 *	0	0	0	0	0	0	0	18	144	0	214
04/18/2001	0	0	0	0	0	0	0	18	148	0	1,228
04/19/2001	0	0	0	0	0	0	0	7	256	0	38,209
04/20/2001	0	0	0	0	0	0	0	6	282	0	91,601
04/21/2001 *	---	0	---	---	0	0	0	9	132	0	87,556
04/22/2001	---	0	---	---	0	0	0	5	24	4	33,006
04/23/2001	0	0	0	1	0	0	0	10	12	0	17,894
04/24/2001	0	0	0	0	0	0	0	7	6	0	13,148
04/25/2001	0	0	0	0	0	0	0	1	20	0	15,853
04/26/2001	0	0	0	0	0	0	0	3	0	16	13,376
04/27/2001 *	---	---	---	---	0	---	---	---	90	10	10,946
Total:	0	0	0	1	10	0	0	102	1,207	30	323,949
# Days:	10	14	10	10	15	14	14	14	15	15	15
Average:	0	0	0	0	1	0	0	7	80	2	21,597

*The total, #days and average do not include the current day's data. *See sampling comments. [http://www.fpc.org/current daily/smpcomments.htm](http://www.fpc.org/current%20daily/smpcomments.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.

Two-Week Summary of Passage Indices

COMBINED COHO

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
04/13/2001 *	0	0	0	0	0	0	0	0	16	8	79
04/14/2001	---	0	---	---	0	0	0	0	16	4	128
04/15/2001	---	0	---	---	0	0	0	0	12	0	79
04/16/2001	0	0	0	0	10	0	0	0	4	4	106
04/17/2001 *	0	0	0	0	0	0	0	0	12	4	187
04/18/2001	0	0	0	0	0	0	0	0	16	4	273
04/19/2001	0	0	0	0	0	0	0	0	36	16	0
04/20/2001	0	0	0	0	0	0	0	0	18	36	0
04/21/2001 *	---	0	---	---	0	0	0	0	6	8	131
04/22/2001	---	0	---	---	0	0	0	0	18	16	365
04/23/2001	0	0	0	0	0	0	0	0	18	4	363
04/24/2001	0	0	0	0	0	0	0	0	18	32	362
04/25/2001	0	0	0	0	0	0	0	0	40	140	262
04/26/2001	0	0	0	0	0	0	0	11	241	104	393
04/27/2001 *	---	---	---	---	0	---	---	---	120	30	258
Total:	0	0	0	0	10	0	0	11	591	410	2,986
# Days:	10	14	10	10	15	14	14	14	15	15	15
Average:	0	0	0	0	1	0	0	1	39	27	199

COMBINED STEELHEAD

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
04/13/2001 *	68	20	30	21	1,290	128	60	1	362	208	173
04/14/2001	---	42	---	---	990	108	120	1	532	128	416
04/15/2001	---	83	---	---	1,410	104	80	4	1,228	252	441
04/16/2001	142	22	9	1	2,110	120	43	1	669	220	313
04/17/2001 *	87	19	2	8	2,080	128	220	1	659	364	461
04/18/2001	130	102	4	1	2,002	116	180	1	632	276	1,500
04/19/2001	150	394	9	96	3,660	279	240	7	1,552	368	726
04/20/2001	143	845	22	3	5,100	240	615	14	1,484	396	398
04/21/2001 *	---	1,028	---	---	11,400	261	1,455	11	2,280	776	1,049
04/22/2001	---	769	---	---	19,000	384	660	19	2,071	488	853
04/23/2001	36	405	120	20	13,050	492	1,662	15	2,556	872	1,088
04/24/2001	50	198	538	3	26,050	584	810	22	9,699	1,088	844
04/25/2001	30	127	177	9	37,451	530	720	31	12,526	3,325	1,048
04/26/2001	95	442	140	4	52,900	1,200	920	14	11,235	2,776	393
04/27/2001 *	---	---	---	---	91,050	---	---	---	11,008	1,640	2,447
Total:	931	4,496	1,051	166	269,543	4,674	7,785	142	58,493	13,177	12,150
# Days:	10	14	10	10	15	14	14	14	15	15	15
Average:	93	321	105	17	17,970	334	556	10	3,900	878	810

Two-Week Summary of Passage Indices

COMBINED SOCKEYE

Date	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
04/13/2001 *	0	0	0	0	0	4	0	0	4	4	5
04/14/2001	---	0	---	---	0	4	0	0	0	0	0
04/15/2001	---	0	---	---	0	8	0	0	4	0	0
04/16/2001	0	0	0	0	0	4	0	0	12	0	0
04/17/2001 *	0	0	0	0	10	12	10	1	4	0	7
04/18/2001	0	0	0	0	0	12	0	5	8	0	0
04/19/2001	0	0	0	0	20	12	0	7	20	8	0
04/20/2001	0	0	0	0	20	0	0	5	18	4	0
04/21/2001 *	---	0	---	---	40	0	0	4	6	0	0
04/22/2001	---	0	---	---	0	56	0	0	6	0	0
04/23/2001	0	0	0	0	0	36	0	4	0	4	0
04/24/2001	0	0	0	0	0	16	0	6	24	0	0
04/25/2001	0	0	0	0	0	80	0	3	0	0	0
04/26/2001	0	0	0	0	0	60	20	9	0	0	0
04/27/2001 *	---	---	---	---	0	---	---	---	0	0	0
Total:	0	0	0	0	90	304	30	44	106	20	12
# Days:	10	14	10	10	15	14	14	14	15	15	15
Average:	0	0	0	0	6	22	2	3	7	1	1

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 04/26

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2001		2000		10-Yr Avg.		2001		2000		10-Yr Avg.		2001		2000		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	287,722	1,275	102,344	3,722	37,829	612	0	0	0	0	0	0	0	0	0	0	0	0
TDA	205,221	617	51,711	1,680	17,451	246	0	0	0	0	0	0	0	0	0	0	0	0
JDA	168,094	440	34,026	1,027	10,235	162	0	0	0	0	0	0	0	0	0	0	0	0
MCN	144,188	465	13,343	442	5,758	85	0	0	0	0	0	0	0	0	0	0	0	0
IHR	90,888	360	6,657	238	2,252	31	0	0	0	0	0	0	0	0	0	0	0	0
LMN	82,137	93	4,481	203	1,552	28	0	0	0	0	0	0	0	0	0	0	0	0
LGS	68,437	382	3,094	132	995	21	0	0	0	0	0	0	0	0	0	0	0	0
LWG	56,231	56	1,927	90	706	10	0	0	0	0	0	0	0	0	0	0	0	0
PRD	11,410	0	1,136	0	556	1	0	0	0	0	0	0	0	0	0	0	0	0
RIS	2,752	4	64	1	85	0	0	0	0	0	0	0	0	0	0	0	0	0
RRH	372	1	10	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0
WEL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

DAM	Coho						Sockeye			Steelhead			
	2001		2000		10-Yr Avg.		10-Yr			10-Yr			Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2001	2000	Avg.	2001	2000	Avg.	2001
BON	0	0	0	0	0	0	0	0	0	2,722	1,836	1,982	848
TDA	0	0	0	0	0	0	0	0	0	660	461	919	276
JDA	0	0	0	0	0	0	0	0	0	2,087	2,540	2,317	619
MCN	0	0	0	0	0	0	0	0	0	1,267	560	1,548	598
IHR	0	0	0	0	0	0	0	0	0	1,210	775	1,930	458
LMN	0	0	0	0	0	0	0	0	0	1,553	882	1,948	754
LGS	0	0	0	0	0	0	0	0	0	1,726	787	969	847
LWG	0	0	0	0	0	0	0	0	0	5,451	2,335	4,583	1,478
PRD	0	0	0	0	0	0	0	0	0	10	1	11	**
RIS	0	0	0	0	0	0	0	0	0	30	11	21	17
RRH	0	0	0	0	0	0	0	0	0	54	46	27	25
WEL	---	---	---	---	---	---	---	---	---	---	---	---	---

PRD is through 04/25; RIS and RRH are through 04/24. MCN is missing the left ladder counts for 04/26.

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

Wild steelhead numbers are included in the total.

* Chelan Co. PUD does not have a wild steelhead breakout on their website.

**PRD is not reporting Wild Steelhead numbers.

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.

YTD Transportation Summary

		TO: 04/28/01					
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	20	281,018	50	490	280,104	561,682
	Sum of NumberBarged	20	198,051	20	318	183,300	381,709
	Sum of NumberBypassed	0	407	0	0	2,624	3,031
	Sum of NumberTrucked	0	6,433	30	167	3,386	10,016
	Sum of TotalProjectMortalities	0	460	0	5	40	505
LGS	Sum of NumberCollected		19,518		377	5,874	25,769
	Sum of NumberBarged		18,556		346	5,534	24,436
	Sum of NumberBypassed		0		0	0	0
	Sum of NumberTrucked		899		28	336	1,263
	Sum of TotalProjectMortalities		60		3	4	67
LMN	Sum of NumberCollected		117,273		30	8,512	125,815
	Sum of NumberBarged		111,141		30	8,154	119,325
	Sum of NumberBypassed		278		0	22	300
	Sum of NumberTrucked		5,519		0	319	5,838
	Sum of TotalProjectMortalities		335		0	17	352
MCN	Sum of NumberCollected	1,479	28,880	631	146	60,434	91,570
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	1,472	28,824	630	146	60,379	91,451
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	7	56	1	0	55	119
Total Sum of NumberCollected		1,499	446,689	681	1,043	354,924	804,836
Total Sum of NumberBarged		20	327,748	20	694	196,988	525,470
Total Sum of NumberBypassed		1,472	29,509	630	146	63,025	94,782
Total Sum of NumberTrucked		0	12,851	30	195	4,041	17,117
Total Sum of TotalProjectMortalities		7	911	1	8	116	1,043

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Two Week Transportation Summary

		04/15/01 TO 04/28/01					
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	10	260,037	10	90	269,543	529,690
	Sum of NumberBarged	10	183,569	10	90	176,291	359,970
	Sum of NumberBypassed	0	407	0	0	2,465	2,872
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	0	394	0	0	33	427
LGS	Sum of NumberCollected		17,069		304	4,674	22,047
	Sum of NumberBarged		17,016		303	4,671	21,990
	Sum of NumberBypassed		0		0	0	0
	Sum of Numbertrucked		0		0	0	0
	Sum of TotalProjectMortalities		49		1	3	53
LMN	Sum of NumberCollected		81,410		30	7,785	89,225
	Sum of NumberBarged		80,986		30	7,754	88,770
	Sum of NumberBypassed		185		0	15	200
	Sum of Numbertrucked		0		0	0	0
	Sum of TotalProjectMortalities		239		0	16	255
MCN	Sum of NumberCollected	1,207	27,044	591	106	58,493	87,441
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	1,203	26,994	590	106	58,440	87,333
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	4	50	1	0	53	108
Total Sum of NumberCollected		1,217	385,560	601	530	340,495	728,403
Total Sum of NumberBarged		10	281,571	10	423	188,716	470,730
Total Sum of NumberBypassed		1,203	27,586	590	106	60,920	90,405
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		4	732	1	1	105	843

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