



Fish Passage Center

Weekly Report #01 - 6

April 20, 2001

2501 SW First Ave., Suite 230
 Portland, OR 97201-4752
 phone: 503/230-4582
 fax: 503/230-7559

SUMMARY OF EVENTS:

Water Supply: Precipitation increased significantly during last week over the entire region. The lowest precipitation for the period of April 1-17 is 85% at Central Washington and the highest precipitation is 263% at Upper John Day for the same period. However, there is no significant rise in surface runoff due to previously long lasting dry conditions in 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, 76% of average.

The April Midmonth Runoff Volume Forecast was issued. Due to increased precipitation in the system, the estimated runoff volumes increased at the major sites in the range of 1%-10%. The highest increase of 10% was recorded at Libby. The Summary of the Runoff Volume Forecasts is given in the following Table:

Site	March Final		April Final		April Midmonth	
	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	1400	64
<i>Libby (April-Sep.)</i>	3570	53	3530	52	4170	62
<i>Grand Coulee (Jan-July)</i>	37600	59	37500	59	39000	62
<i>The Dalles (January-July)</i>	58600	55	56100	53	57700	54
<i>Brownlee (April-July)</i>	2390	41	1890	33	2050	35
<i>Dworshak (April-July)</i>	1550	57	1400	52	1470	54
<i>Lower Granite (Jan-July)</i>	16300	55	14100	47	14400	48
<i>Heise (ID) (April-July)</i>	2170	63	2030	59	2160	63
<i>Weiser (ID) (April-July)</i>	2230	41	1730	32	1880	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 current 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 19, 2001 [ft]	Required End of April Flood Control Elev. [ft]	Maximum Reservoir pool [ft]
<i>Libby</i>	2385.86	2448.0	2459
<i>Hungry Horse</i>	3487.49	3558.2	3560
<i>Grand Coulee</i>	1217.0	1283.3	1290
<i>Brownlee</i>	2074.86*	2077.0	2077
<i>Dworshak</i>	1519.88	1597.4	1600

*as of April 18

Libby reservoir continued to be at minimum outflow of 4 kcfs. Inflows were in the range of 2.1 kcfs-3.3 kcfs for the period of April 13-19.

Hungry Horse was operating on minimum outflow of 2.13 kcfs-2.4 kcfs to meet the required minimum of 3.5 kcfs at Columbia Falls. Inflows were in the range of 0.27 to 1.02 kcfs for the period of April 13-19.

Grand Coulee was operated to meet system power peaking demands. The most current outflows were in the range of 40.4 kcfs-69.6 kcfs for the period of April 13-19. For the same period, inflows were in the range of 52.7 kcfs-67 kcfs.

Brownlee was operated at elevations close to flood control elevations, fluctuating between 2074.59 ft and 2075.28 ft. The outflows at Hells Canyon Dam project were in the range of 9.14 kcfs to 15.9 kcfs for the period of April 13-19. The *Brownlee* inflows were in the range of

11.88 kcfs to 12.92 kcfs for the same period.

Dworshak was operated on minimum outflow of 1.4 kcfs-1.5 kcfs. Inflow was fluctuating between 2.9 kcfs and 5.7 kcfs for the period of April 13-19.

Upper Snake projects continue with gradual refill since fall. Currently, as of April 19, the system is at 80% of capacity; American Falls is full, Palisades is at 53% of capacity and Jackson Lake is at 76 % of capacity.

Flows: Flows below Bonneville were fluctuating between 98.2 kcfs and 137 kcfs for the period of April 13-19, depending upon power generation demands.

Flows at Priest Rapids have been maintained at minimum 65 kcfs for protection of redds at Vernita Bar. Redd counts on November 19, 2000 determined the minimum required protection flows for the 2000-2001 season. Since the juveniles emerged earlier this season, Priest Rapids program operating constraints began on March 26 with +/- 20 kcfs hourly fluctuating band at Priest Rapids. The maximum hourly flows were fluctuating outside the band during period of April 12-15.

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 24.9 kcfs-33.4 kcfs for the period of April 13-19.

Spill: Consistent with BPA's declaration of a continued power emergency, there was no spill in the federal power system this past week. In spite of the fact that no spill has occurred the total dissolved gas readings at most all the monitors exceed 100%. Total dissolved gas concentrations have been as high as 111% (average of 12 highest hourly readings in a day) (see total dissolved gas tables) at the McNary Dam forebay monitors. Hourly readings have soared as high as 114% in the forebay on the Washington side of the project. Fish with bubbles in their lateral line have been sampled at McNary Dam. At this time it is not clear if these signs are related to the higher than normal levels of gas in the forebay, or are resulting from fish holding in shallow water areas of the bypass

channel. Sampling for signs of gas bubble trauma at other projects has shown a few fish with bubbles in their lateral lines at Rock Island Dam, while all other projects have not observed any signs.

Smolt Monitoring: Compared to last week, trap collections of yearling chinook this reporting period (April 13-April 19) have changed little on the lower Salmon River (WTB), increased greatly the last two days on the lower Imnaha River (IMN), and dropped to low numbers on the lower Grande Ronde River (GRN). Based on adipose fin clips, the hatchery percentage of the yearling chinook collection this week was 86% at the Salmon River trap, 75% at the Grande Ronde River trap, and 77% at the Imnaha River trap. Few fish have been collected to date in the Snake River trap (LEW) due to high trap avoidance of fish in the low flows. Increased daily smolt collections occurred at Lower Granite Dam, reaching 14,060 yearling chinook and 3,660 steelhead by week's end. Large numbers of yearling chinook (averaging nearly 4,600 fish per day) continue to be collected this week at Lower Monumental Dam, with the bulk of these fish being yearling fall chinook from Lyons Ferry Hatchery. Daily yearling chinook collections at Rock Island Dam remained much lower this week until the last day. Smolt collections at McNary Dam rose this week to over 2,000 yearling chinook and 1,500 steelhead by week's end. Collections of yearling chinook average about 580 fish per day this week at John Day Dam. The smolt passage indices at Bonneville Dam rose to nearly 9,700 yearling chinook and 1,500 steelhead on April 18. On that day subyearling chinook passage indices started to rise at Bonneville Dam, following the recent Spring Creek Hatchery release of tule fall chinook, and reached over 38,000 fish the next day.

Adult Fish Passage – Fish counting started April 1 at most COE projects; currently all COE projects are counting adult fish passing mainstem Columbia 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 FPC Weekly Report will list in a Table the adult fish counts for the week with the previous year (2000) and the 10-year average 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 17,635 per day for the week with the daily peak count of 27,020 on April 18. The total count since March 15 is now 240,465. This year's count through April 19 compares with 64,756 in 2000 and 23,651 for the 10-year average. The 2001 count is about 3.7 times and 10.2 times greater than the respective 2000 and 10-year average. The New Estimated Passage of adult spring Chinook Salmon was updated by the Technical Advisory Committee on April 19 with 409,800 projected for Bonneville Dam. With the new estimate, the spring Chinook Run would be about 59% completed for the Season. At The Dalles Dam, 137,466 adult salmon were counted through April 19, about 57% of the Bonneville Dam count. The McNary Dam count through April 19 is 62,828 with 37,178 adult spring Chinook (Ice Harbor Count) continuing up the Snake River and about 2,000 counted at Priest Rapids Dam. Approximately 300 adult spring Chinook were counted at Prosser Dam (through April 16). Based on some of the adult spring Chinook detected at Bonneville Dam (PIT tagged) and then being re-detected upstream at Lower Granite Dam, rate of passage is averaging approximately 20 miles per day from Bonneville through the Snake River to Lower Granite.

Tribal commercial fishing began in the Zone 6 portion of the River this week with platform fishing for ceremonial purposes on-going.

Steelhead passage ranged between 6 and 72/day through the week at Bonneville Dam with the total through April 19 of 2,247. At Bonneville

Dam, steelhead are mostly lower river, winter steelhead with some upriver summer fish moving upstream to spawning sites as well. At Lower Granite Dam, steelhead counts have decreased to about 50/day during the latter part of the week with 5,172 counted since March 1. Most steelhead passing the project are those that have over-wintered in the Snake or Columbia rivers.

Hatchery Releases – See the Hatchery Release Summary for the Previous 2-wk and next 2-wk 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 continued with about 92% of the Rapid River chinook exiting the ponds to date based on the PIT tag detections. The volitional release of yearling chinook from the Imnaha Acclimation Ponds was completed during the week and all fish are in-river. Yearling spring chinook were released during the week of April 9 from the Powell and Crooked River Acclimation Ponds located in the Clearwater River basin. Dworshak and Kooskia National Fish Hatcheries released spring chinook on 3/28 and 3/27, respectively into the Clearwater River basin. Spring chinook are being released by the Nez Perce Tribe from the Lostine and Grande Ronde Acclimation Ponds. Summer chinook from McCall Hatchery were trucked and released into the South Fork Salmon River throughout the week (3/26-29). Yearling fall chinook have been released directly from Lyons Ferry Hatchery as well as upstream from the Acclimation Ponds at Cpt Johns, Pittsburg Landing and Big Canyon Creek (Clearwater River). About 560,000 coho were released into Lapwai Creek and Potlatch River in March. Steelhead releases from Niagara Springs Hatchery to below Hells Canyon have been completed with most steelhead releases on-going from Magic Valley and Hagerman hatcheries in the Salmon River basin. IDFG and USFWS released steelhead into the S Fk Clearwater basin during the week. Oregon Department of Fish and Wildlife have been releasing juvenile steelhead into the Grande Ronde and Imnaha River basins with additional fish releases planned in late April and

May. The next two weeks will see the bulk of steelhead for the basin (about 9.7 million total for the year) released throughout the Salmon, Clearwater, Grande Ronde, Imnaha, and Tucannon rivers.

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. Yearling chinook from Entiat National Fish Hatchery were released April 4th with Winthrop and Leavenworth National Fish Hatchery releasing fish this week. WDFW began releasing spring chinook into the Methow River this week as well. 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 were released in the Similkameen River (Okanogan River basin) last week and are being released into the Wenatchee, Methow and mainstem Columbia river this week and next week. About 4.3 million yearling summer chinook are scheduled for release in the Mid-Columbia Reach and this total should be the highest total (about 0.5 million greater) since Fish Passage Center has been reporting hatchery releases. Hatchery steelhead releases began this week with most juvenile steelhead released by the first week of May. Numbers scheduled for release will be near normal (1.4 million). The Wenatchee, Entiat, Methow, Okanogan and main Columbia (Ringold Hatchery release) will be planted with the “threatened” status steelhead from Washington Department of Fish and Wildlife 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. Release of yearling coho will occur mainly during the latter part of April and into May with an estimated 2.1 million for the season. Coho will be released into the Methow, Wenatchee and Yakama R basins.

Lower Columbia [McNary Dam to above Bonneville Dam]– Yearling spring chinook have been released in the Umatilla, Klickitat, Deschutes, and Hood rivers to date. Yearling spring chinook

were released in the Umatilla River in March and April from the acclimation ponds located in that drainage. Spring chinook were released in the Deschutes River basin as well as Hood River during the previous week. Most of these releases have been volitional and will continue until forced from the ponds. Yearling spring chinook were released into the Wind and Little White Salmon rivers on April 19 so nearly all the yearling spring chinook have been released in this River Zone to date. The 2nd release of 5.3 million subyearling tule fall chinook was completed on April 16. Yearling releases of “bright” fall chinook were made in March with the remaining yearling fall chinook released by the end of the month. All coho salmon have been released in the Umatilla River basin with 2.8 million released in the Klickitat River during the previous week. This week, yearling coho salmon were released in the Little White Salmon River. 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.

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
04/06/01	58.0	0.0	63.1	0.0	65.2	0.0	64.1	0.0	65.0	0.0	60.8	0.0	68.1	0.0
04/07/01	56.8	0.0	58.4	0.0	59.2	0.0	61.5	0.0	62.8	0.0	68.5	0.0	68.2	0.0
04/08/01	50.0	0.0	51.2	0.0	56.6	0.0	56.0	0.0	56.8	0.0	65.7	0.0	68.0	0.0
04/09/01	72.4	0.0	75.2	0.0	67.9	0.0	64.6	0.0	65.5	0.0	62.9	0.0	68.2	0.0
04/10/01	81.4	0.0	80.3	0.0	81.2	0.0	83.9	0.0	82.4	0.0	65.7	0.0	66.9	0.0
04/11/01	73.2	0.0	80.7	0.0	90.2	0.0	92.3	0.0	96.9	0.0	83.1	0.0	85.5	0.0
04/12/01	85.8	0.0	88.2	0.0	86.2	0.0	81.3	0.0	80.8	0.0	95.7	0.0	95.5	0.0
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

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

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/06/01	1.5	0.0	12.2	13.2	32.5	0.0	42.1	0.0	45.9	0.0	43.6	0.0
04/07/01	1.5	0.0	11.4	11.0	29.9	0.0	29.0	0.0	29.6	0.0	30.6	0.0
04/08/01	1.5	0.0	11.9	9.9	26.7	0.0	25.3	0.0	26.2	0.0	25.7	0.0
04/09/01	1.5	0.0	12.1	13.1	32.7	0.0	37.0	0.0	42.5	0.0	41.2	0.0
04/10/01	1.4	0.0	11.5	13.2	35.0	0.0	36.1	0.0	38.5	0.0	41.8	0.0
04/11/01	1.4	0.0	10.6	9.7	24.3	0.0	25.6	0.0	25.9	0.0	25.0	0.0
04/12/01	1.4	0.0	13.6	11.3	27.3	0.0	27.2	0.0	28.3	0.0	27.5	0.0
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
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
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
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
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
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
04/19/01	1.5	0.0	---	---	30.8	0.0	32.0	0.0	32.9	0.0	33.7	0.0

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

Date	McNary		John Day		The Dalles		Bonneville			
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
04/06/01	112.3	0.0	122.6	0.0	123.7	0.0	133.8	0.0	18.6	106.0
04/07/01	97.6	0.0	111.5	0.0	114.2	0.0	121.2	0.0	9.4	102.6
04/08/01	90.6	0.0	92.3	0.0	92.8	0.0	104.0	0.0	3.4	91.4
04/09/01	115.1	0.0	119.6	0.0	120.1	0.0	120.4	0.0	12.8	98.4
04/10/01	116.3	0.0	121.8	0.0	126.7	0.0	137.2	0.0	22.6	105.4
04/11/01	104.7	0.0	125.1	0.0	123.1	0.0	133.7	0.0	23.9	100.6
04/12/01	125.2	0.0	126.6	0.0	124.0	0.0	132.5	0.0	22.3	101.5
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

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	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/6	---	---	---	0	105	105	106	23	106	106	107	23	108	108	109	14	107	107	107	23
4/7	---	---	---	0	104	104	105	24	106	106	107	24	108	109	109	22	106	106	107	23
4/8	---	---	---	0	104	104	105	24	105	105	106	24	108	108	109	17	106	106	106	21
4/9	---	---	---	0	104	104	105	24	105	106	106	24	107	107	108	17	106	106	107	23
4/10	---	---	---	0	104	104	105	24	105	105	106	24	108	108	108	23	106	106	106	23
4/11	---	---	---	0	103	104	104	24	104	105	105	24	107	108	108	22	105	106	106	23
4/12	---	---	---	0	103	104	104	24	104	105	105	24	107	107	108	18	105	105	106	23
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

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	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/6	106	107	108	23	107	107	107	22	107	107	107	22	---	---	---	0	---	---	---	0
4/7	106	107	108	23	106	106	107	21	106	106	107	21	---	---	---	0	---	---	---	0
4/8	106	107	107	21	106	107	107	23	106	106	107	23	---	---	---	0	---	---	---	0
4/9	106	106	107	19	106	106	106	22	106	106	107	22	---	---	---	0	---	---	---	0
4/10	106	106	107	23	106	106	107	21	106	106	107	21	---	---	---	0	---	---	---	0
4/11	105	106	106	23	106	106	106	17	106	106	106	17	---	---	---	0	---	---	---	0
4/12	105	105	106	23	105	105	105	21	105	105	106	21	---	---	---	0	---	---	---	0
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

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	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/6	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/7	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/8	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/9	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/10	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/11	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/12	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
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

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			Clrwtr-Peck			Anatone			#				
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h						
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High		hr			
4/6	---	---	---	0	104	105	105	24	107	107	108	21	102	102	103	24	102	102	103	23
4/7	---	---	---	0	104	105	105	24	105	106	106	24	101	101	102	24	101	101	102	24
4/8	---	---	---	0	104	104	105	24	104	104	105	24	101	102	102	24	101	103	104	24
4/9	---	---	---	0	103	104	105	21	105	105	106	21	101	102	103	21	102	103	104	21
4/10	---	---	---	0	104	105	105	24	106	107	108	24	102	103	104	24	102	103	104	24
4/11	---	---	---	0	103	103	104	24	107	107	108	24	102	103	104	21	102	103	104	24
4/12	---	---	---	0	103	104	104	24	106	107	108	24	102	103	104	24	101	102	104	24
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

Total Dissolved Gas Saturation Data at Snake River Sites

Date	Clrwtr-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						
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High		hr			
4/6	102	103	104	24	102	102	103	21	102	102	102	23	102	102	102	24	101	101	101	24
4/7	100	101	102	24	101	102	102	23	101	101	101	23	102	102	102	24	101	101	101	24
4/8	101	103	105	24	100	100	100	24	100	100	100	24	101	101	102	24	100	100	101	24
4/9	102	104	105	21	100	101	101	21	100	100	101	21	101	101	101	21	100	100	100	21
4/10	102	103	105	24	101	102	102	24	101	101	101	24	101	102	102	24	101	101	101	24
4/11	102	103	105	24	101	101	102	24	103	105	109	24	101	101	102	24	100	101	101	24
4/12	102	103	104	24	99	100	100	24	99	100	101	24	100	100	101	24	100	100	100	24
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

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						
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High		hr			
4/6	103	103	103	24	102	102	103	24	101	102	102	23	103	103	104	23	105	106	106	24
4/7	102	102	102	24	102	102	103	24	101	101	101	24	103	103	103	24	105	105	107	24
4/8	101	102	102	24	101	102	103	24	100	100	101	24	102	103	104	24	104	104	105	24
4/9	101	101	101	21	100	101	102	21	100	100	100	21	101	102	102	21	104	105	105	21
4/10	101	101	102	24	101	101	102	24	100	101	101	24	102	103	103	24	104	104	104	24
4/11	101	101	101	24	100	101	101	24	101	102	104	23	102	102	103	24	103	104	104	24
4/12	100	100	100	24	100	101	101	24	101	101	101	24	101	102	102	24	103	103	104	24
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

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		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
4/6	105	105	106	24	104	104	105	24	104	105	105	23	105	108	138	24	104	104	104	23
4/7	104	104	105	24	104	104	104	24	104	104	104	23	103	104	104	24	102	103	103	23
4/8	104	104	104	24	103	103	104	24	102	103	103	23	102	103	104	24	101	102	102	23
4/9	103	104	104	21	103	103	104	21	102	102	102	23	101	102	102	21	101	101	102	19
4/10	104	104	104	24	103	103	104	24	102	103	103	23	102	102	105	24	102	102	102	23
4/11	103	104	104	24	103	103	104	24	102	103	103	23	102	103	104	24	100	101	102	23
4/12	103	103	103	24	102	103	103	24	102	102	102	23	102	102	103	24	99	102	102	21
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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	The Dalles Dnst				Bonneville				Warrendale				Skamania				Camas\Washugal			
	24 h		12 h		#	24 h		12 h		#	24h		12h		#	24h		12h		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
4/6	104	104	105	24	104	104	105	23	105	105	105	23	104	105	105	23	105	105	106	24
4/7	102	102	103	24	103	103	104	23	104	104	106	23	103	103	104	23	104	105	105	24
4/8	100	101	101	24	102	102	103	23	104	104	105	23	103	103	103	23	103	104	104	24
4/9	100	101	101	20	102	102	102	19	103	103	104	19	102	102	104	15	103	104	104	20
4/10	101	102	103	24	102	102	103	23	103	103	104	23	102	102	103	23	103	104	104	24
4/11	101	102	102	24	101	102	102	23	103	103	103	23	102	102	102	23	103	104	105	24
4/12	102	102	103	24	101	102	102	23	102	102	103	22	101	101	102	23	102	102	104	24
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

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													
	04/10/01	Yearling Chinook	41	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/10/01	Steelhead	11	1	1	9.09%	0.00%	1	0	0	0	0	0
	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
Little Goose Dam													
	04/11/01	Yearling Chinook	1	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/11/01	Steelhead	8	0	0	0.00%	0.00%	0	0	0	0	0	0
	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
Lower Monumental Dam													
	04/16/01	Yearling Chinook	97	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/16/01	Steelhead	3	0	0	0.00%	0.00%	0	0	0	0	0	0
McNary Dam													
	04/12/01	Yearling Chinook	36	2	0	0.00%	0.00%	0	0	0	0	2	1
	04/12/01	Steelhead	14	1	0	0.00%	0.00%	0	0	0	0	1	1
	04/16/01	Yearling Chinook	34	6	0	0.00%	0.00%	0	0	0	0	6	1
	04/16/01	Steelhead	26	8	0	0.00%	0.00%	0	0	0	0	8	1.1
	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
Bonneville Dam													
	04/10/01	Yearling Chinook	90	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/13/01	Yearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/13/01	Steelhead	6	0	0	0.00%	0.00%	0	0	0	0	0	0
	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
Rock Island Dam													
	04/12/01	Yearling Chinook	24	6	0	0.00%	0.00%	0	0	0	0	6	1
	04/12/01	Steelhead	2	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/19/01	Yearling Chinook	77	3	0	0.00%	0.00%	0	0	0	0	3	1
	04/12/01	Steelhead	7	0	0	0.00%	0.00%	0	0	0	0	0	0

HATCHERY RELEASE SUMMARY LAST TWO WEEKS

From: **4/6/01** to **4/19/01**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
IDFG	Clearwater	CH1	SP	2001	84,654	04-13-01	04-13-01	Crooked R Acclim Pd	S Fk Clearwater River
IDFG	Clearwater	CH1	SP	2001	212,777	04-12-01	04-12-01	Powell Acclim Pd	Lochsa River
IDFG	Clearwater	ST	SU	2001	97,500	04-16-01	04-20-01	Redhouse (SFk ClearH2O R)	S Fk Clearwater River
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	60,000	04-11-01	04-11-01	Lemhi 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	04-09-01	04-10-01	Little Salmon R	Salmon River
IDFG	Magic Valley	ST	SU	2001	80,000	04-09-01	04-12-01	Squaw Cr Acclim Pd	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	550,000	03-26-01	04-07-01	Hells Canyon Dam	Snake 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	04-25-01	Rapid River H	Little Salmon River
IDFG Total					5,596,931				
Nez Perce Tribe	Hagerman	ST	SU	2001	140,000	04-11-01	04-15-01	Yankee Fk (Salmon R)	Salmon River
Nez Perce Tribe	Hagerman	ST	SU	2001	164,000	04-02-01	04-10-01	Little 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					934,200				
ODFW	Big Canyon	ST	SU	2001	87,000	04-06-01	04-07-01	Big Canyon Acclim.Pd	Grande Ronde River
ODFW	Big Canyon	ST	SU	2001	87,000	04-08-01	04-22-01	Big Canyon Acclim.Pd	Grande Ronde River
ODFW	Imnaha	CH1	SP	2001	123,112	03-21-01	04-16-01	Imnaha Acclim Pd	Imnaha 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	2,500	04-01-01	04-15-01	Grande Ronde Acclim Pd	Grande Ronde River
ODFW	Round Butte	CH1	SP	2001	302,000	04-02-01	04-19-01	Bel. Pelton Dam	Deschutes River
ODFW	Round Butte	ST	SU	2001	169,000	04-02-01	04-09-01	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					1,199,612				

HATCHERY RELEASE SUMMARY LAST TWO WEEKS (CON'T)

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	Imeques Acclim Pd	Umatilla River
Umatilla Tribe	Umatilla	ST	SU	2001	48,508	04-06-01	04-06-01	Bonifer Acclim Pd	Umatilla River
Umatilla Tribe Total					1,221,886				
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	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					12,615,036				
Warm Spgs Tribe	Oak Springs	ST	SU	2001	15,000	04-12-01	04-12-01	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					144,200				
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	Washougal	CO	SO	2001	2,800,000	04-02-01	04-12-01	Klickitat R	Klickitat River
WDFW	Wells	CH1	SU	2001	424,787	04-19-01	04-27-01	Carlton Acclim Pd	Methow 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 Total					7,280,438				
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 Total					757,000				
Grand Total					29,749,303				

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

Hatchery Release Summary Next Two Weeks

Page 12
4/20/01

From:	4/20/01	to	5/3/01						
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
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	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	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	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	04-25-01	Rapid River H	Little Salmon River
IDFG	Sawtooth	CH1	SP	2001	57,000	04-20-01	04-20-01	Sawtooth H	Salmon 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					4,818,000				
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	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	800	05-03-01	05-07-01	Deer Cr	Grande Ronde River
ODFW Total					87,800				
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	Imeques 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	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					4,158,000				
Warm Spgs Tribe	Oak Springs	ST	SU	2001	20,000	04-26-01	04-26-01	Blackberry Acclim Pd	Hood River
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	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					175,150				

Hatchery Release Summary Next Two Weeks (con't)

WDFW	East Bank	CH1	SU	2001	1,013,000	04-23-01	05-05-01	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	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	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	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	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					5,668,305				
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					18,782,133				

Two-Week Summary of Passage Indices

COMBINED YEARLING CHINOOK

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
04/06/200	115	109	146	0	1,380	228	4,100	55	180	208	689
04/07/200	---	67	---	---	1,290	180	1,970	56	76	416	579
04/08/200	---	270	---	---	1,450	220	4,360	51	152	172	986
04/09/200	310	231	115	0	1,550	244	4,833	74	224	208	2,698
04/10/200 *	182	165	116	2	1,280	317	8,420	28	218	340	---
04/11/200 *	80	143	70	1	3,771	421	9,050	53	252	936	---
04/12/200 *	172	399	73	0	5,170	165	1,710	31	316	1,104	---
04/13/200 *	209	219	56	1	3,430	273	2,460	23	420	804	2,809
04/14/200	---	157	---	---	3,200	400	4,660	26	581	436	2,967
04/15/200	---	165	---	---	3,740	260	5,300	11	1,180	456	2,343
04/16/200	155	97	30	0	4,200	316	4,757	8	748	320	2,075
04/17/200 *	116	147	11	1	4,460	419	6,040	6	1,010	736	3,161
04/18/200	205	677	20	0	5,138	616	5,680	11	1,352	528	9,685
04/19/200	401	2,906	45	0	14,060	439	3,120	83	2,196	776	8,862
04/20/200	---	---	---	---	11,640	---	---	---	---	692	---
Total:	1,945	5,752	682	5	65,759	4,498	66,460	516	8,905	8,132	36,854
# Days:	10	14	10	10	15	14	14	14	14	15	11
Average:	195	411	68	1	4,384	321	4,747	37	636	542	3,350

COMBINED SUBYEARLING CHINOOK

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
04/06/200	0	0	0	0	0	0	0	2	20	0	160
04/07/200	---	0	---	---	0	0	0	7	28	0	129
04/08/200	---	0	---	---	10	0	0	3	12	0	117
04/09/200	0	0	0	0	0	0	0	5	28	0	152
04/10/200 *	0	0	0	0	0	0	0	2	20	0	---
04/11/200 *	0	0	0	0	0	0	0	8	40	0	---
04/12/200 *	0	0	0	0	0	0	0	6	32	0	---
04/13/200 *	0	0	0	0	0	0	0	8	45	0	202
04/14/200	---	0	---	---	0	0	0	5	20	0	181
04/15/200	---	0	---	---	10	0	0	3	20	0	260
04/16/200	0	0	0	0	0	0	0	2	8	0	275
04/17/200 *	0	0	0	0	0	0	0	18	144	0	214
04/18/200	0	0	0	0	0	0	0	18	148	0	1,228
04/19/200	0	0	0	0	0	0	0	7	256	0	38,209
04/20/200	---	---	---	---	0	---	---	---	---	0	---
Total:	0	0	0	0	20	0	0	94	821	0	41,127
# Days:	10	14	10	10	15	14	14	14	14	15	11
Average:	0	0	0	0	1	0	0	7	59	0	3,739

*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)
04/06/200	0	0	0	0	0	0	0	0	4	0	0
04/07/200	---	0	---	---	0	0	0	0	0	0	36
04/08/200	---	0	---	---	0	0	0	0	8	0	52
04/09/200	0	0	0	0	10	0	0	0	0	4	74
04/10/200 *	0	0	0	0	0	0	0	0	8	8	---
04/11/200 *	0	0	0	0	0	0	0	0	12	8	---
04/12/200 *	0	0	0	0	0	0	0	0	8	12	---
04/13/200 *	0	0	0	0	0	0	0	0	16	8	79
04/14/200	---	0	---	---	0	0	0	0	16	4	128
04/15/200	---	0	---	---	0	0	0	0	12	0	79
04/16/200	0	0	0	0	10	0	0	0	4	4	106
04/17/200 *	0	0	0	0	0	0	0	0	12	4	187
04/18/200	0	0	0	0	0	0	0	0	16	4	273
04/19/200	0	0	0	0	0	0	0	0	36	16	0
04/20/200	---	---	---	---	0	---	---	---	---	36	---
Total:	0	0	0	0	20	0	0	0	152	108	1,014
# Days:	10	14	10	10	15	14	14	14	14	15	11
Average:	0	0	0	0	1	0	0	0	11	7	92

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)
04/06/200	0	1	3	1	550	64	90	2	160	100	42
04/07/200	---	1	---	---	890	64	30	4	244	84	114
04/08/200	---	1	---	---	1,020	172	120	3	176	36	73
04/09/200	7	0	4	1	1,130	136	27	8	232	64	103
04/10/200 *	8	0	20	4	990	72	90	3	271	84	---
04/11/200 *	21	1	6	8	1,651	272	110	7	300	164	---
04/12/200 *	34	11	31	4	1,490	148	30	5	244	212	---
04/13/200 *	68	20	30	21	1,290	128	60	1	362	208	173
04/14/200	---	42	---	---	990	108	120	1	532	128	416
04/15/200	---	83	---	---	1,410	104	80	4	1,228	252	441
04/16/200	142	22	9	1	2,110	120	43	1	669	220	313
04/17/200 *	87	19	2	8	2,080	128	220	1	659	364	461
04/18/200	130	102	4	1	2,002	116	180	1	632	276	1,500
04/19/200	150	394	9	96	3,660	279	240	7	1,552	368	726
04/20/200	---	---	---	---	5,100	---	---	---	---	396	---
Total:	647	697	118	145	26,363	1,911	1,440	48	7,261	2,956	4,362
# Days:	10	14	10	10	15	14	14	14	14	15	11
Average:	65	50	12	15	1,758	137	103	3	519	197	397

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)
04/06/200	0	0	0	0	0	8	0	0	12	0	14
04/07/200	---	0	---	---	40	0	0	0	4	0	7
04/08/200	---	0	---	---	40	4	0	0	0	4	4
04/09/200	0	0	0	0	20	4	0	0	4	4	4
04/10/200 *	0	0	0	0	40	4	0	0	12	0	---
04/11/200 *	0	0	0	0	40	8	0	0	4	0	---
04/12/200 *	0	0	0	0	50	24	0	0	0	4	---
04/13/200 *	0	0	0	0	0	4	0	0	4	4	5
04/14/200	---	0	---	---	0	4	0	0	0	0	0
04/15/200	---	0	---	---	0	8	0	0	4	0	0
04/16/200	0	0	0	0	0	4	0	0	12	0	0
04/17/200 *	0	0	0	0	10	12	10	1	4	0	7
04/18/200	0	0	0	0	0	12	0	5	8	0	0
04/19/200	0	0	0	0	20	12	0	7	20	8	0
04/20/200	---	---	---	---	20	---	---	---	---	4	---
Total:	0	0	0	0	280	108	10	13	88	28	41
# Days:	10	14	10	10	15	14	14	14	14	15	11
Average:	0	0	0	0	19	8	1	1	6	2	4

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 04/19

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	240,465	516	64,756	1,180	23,651	195	0	0	0	0	0	0	0	0	0	0	0	0
TDA	137,466	254	26,371	452	8,862	69	0	0	0	0	0	0	0	0	0	0	0	0
JDA	95,008	58	13,635	176	4,090	42	0	0	0	0	0	0	0	0	0	0	0	0
MCN	62,828	119	5,217	73	1,995	23	0	0	0	0	0	0	0	0	0	0	0	0
IHR	37,178	79	1,772	42	680	6	0	0	0	0	0	0	0	0	0	0	0	0
LMN	23,049	20	764	28	380	4	0	0	0	0	0	0	0	0	0	0	0	0
LGS	19,835	283	546	22	213	4	0	0	0	0	0	0	0	0	0	0	0	0
LWG	14,215	4	278	16	121	1	0	0	0	0	0	0	0	0	0	0	0	0
PRD	2,085	0	97	0	97	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	411	0	6	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
RRH	3	0	0	0	0	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	2,247	1,550	1,662	734
TDA	0	0	0	0	0	0	0	0	0	514	404	784	206
JDA	0	0	0	0	0	0	0	0	0	1,814	2,133	1,939	477
MCN	0	0	0	0	0	0	0	0	0	1,104	484	1,360	506
IHR	0	0	0	0	0	0	0	0	0	1,080	700	1,714	383
LMN	0	0	0	0	0	0	0	0	0	1,336	782	1,703	599
LGS	0	0	0	0	0	0	0	0	0	1,501	689	762	702
LWG	0	0	0	0	0	0	0	0	0	5,172	2,209	4,342	1,289
PRD	0	0	0	0	0	0	0	0	0	4	0	3	**
RIS	0	0	0	0	0	0	0	0	0	9	4	7	*
RRH	0	0	0	0	0	0	0	0	0	18	15	8	*
WEL	---	---	---	---	---	---	---	---	---	---	---	---	---

LMN, PRD is through 04/18. RIS and RRH counts from Chelan Co. PUD and are through 04/17.

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.

Two Week Transportation Summary

		04/07/01 TO 04/20/01					
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	20	65,759	20	280	26,363	92,442
	Sum of NumberBarged	20	63,877	20	278	25,099	89,294
	Sum of NumberBypassed	0	377	0	0	710	1,087
	Sum of Numbertrucked	0	2,064	0	30	1,219	3,313
	Sum of TotalProjectMortalities	0	128	0	2	4	134
LGS	Sum of NumberCollected		4,498		108	1,911	6,517
	Sum of NumberBarged		3,804		86	1,566	5,456
	Sum of NumberBypassed		0		0	0	0
	Sum of Numbertrucked		471		12	184	667
	Sum of TotalProjectMortalities		27		2	3	32
LMN	Sum of NumberCollected		66,460		10	1,440	67,910
	Sum of NumberBarged		58,867		10	1,100	59,977
	Sum of NumberBypassed		190		0	10	200
	Sum of Numbertrucked		5,069		0	169	5,238
	Sum of TotalProjectMortalities		192		0	2	194
MCN	Sum of NumberCollected	821	8,905	152	88	7,261	17,227
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	817	8,881	152	88	7,241	17,179
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	4	24	0	0	20	48
Total Sum of NumberCollected		841	145,622	172	486	36,975	184,096
Total Sum of NumberBarged		20	126,548	20	374	27,765	154,727
Total Sum of NumberBypassed		817	9,448	152	88	7,961	18,466
Total Sum of Numbertrucked		0	7,604	0	42	1,572	9,218
Total Sum of TotalProjectMortalities		4	371	0	4	29	408

This page last updated on: 4/20/01 11:56 AM

YTD Transportation Summary

TO: 04/20/01

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	20	70,849	50	450	29,203	100,572
	Sum of NumberBarged	20	63,877	20	278	25,099	89,294
	Sum of NumberBypassed	0	377	0	0	710	1,087
	Sum of NumberTrucked	0	6,433	30	167	3,386	10,016
	Sum of TotalProjectMortalities	0	162	0	5	8	175
LGS	Sum of NumberCollected		5,172		129	2,183	7,484
	Sum of NumberBarged		3,804		86	1,566	5,456
	Sum of NumberBypassed		0		0	0	0
	Sum of NumberTrucked		899		28	336	1,263
	Sum of TotalProjectMortalities		29		3	3	35
LMN	Sum of NumberCollected		67,880		10	1,670	69,560
	Sum of NumberBarged		58,867		10	1,100	59,977
	Sum of NumberBypassed		190		0	10	200
	Sum of NumberTrucked		5,519		0	319	5,838
	Sum of TotalProjectMortalities		192		0	2	194
MCN	Sum of NumberCollected	913	9,323	152	92	7,575	18,055
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	908	9,297	152	92	7,555	18,004
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	5	26	0	0	20	51
Total Sum of NumberCollected		933	153,224	202	681	40,631	195,671
Total Sum of NumberBarged		20	126,548	20	374	27,765	154,727
Total Sum of NumberBypassed		908	9,864	152	92	8,275	19,291
Total Sum of NumberTrucked		0	12,851	30	195	4,041	17,117
Total Sum of TotalProjectMortalities		5	409	0	8	33	455

This page last updated on:

4/20/01 11:56 AM