



Fish Passage Center

Weekly Report #01 - 13

June 8, 2001

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

SIGNIFICANT POINTS

- **Biological Opinion flow levels are not being met**
- **Average weekly flow (June 1-7) was 91.2 kcfs at Priest Rapids, 44.7 kcfs at Lower Granite, and 136.04 kcfs at McNary.**
- **The modified spill program continued this past week in the lower Columbia**

SUMMARY OF EVENTS:

Water Supply: Precipitation continues to be below average for most of the region during first week of June. The cumulative precipitation for October through May 31 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, 72% of average.

The June Final Runoff Volume Forecast was issued. Due to increased precipitation in the Upper Columbia part of the system, the estimated runoff volumes increased for 1% for Mica and Hungry Horse compared to May Final. This increase is smaller than previously forecasted by the June Early Forecast. At the same time, there is increase of 2% in projected Runoff Volumes at Libby compared to the June Early, so the resulting forecast is the same as in May Final. The Final Runoff Volumes for The Dalles decreased by 1% and at Lower Granite increased by 3% due to increased runoff volumes in the Clearwater drainages and parts of the Upper Snake drainages. The summary of the Runoff Volume Forecasts is given in the following Table:

Site	June Final		April Final		May Final	
	Runoff Volume [KAF]	% of avg	Runoff Volume [KAF]	% of avg	Runoff Volume [KAF]	% of avg
<i>Mica (April-Sept.)</i>	9400	74	9800	77	9300	73
<i>Hungry Horse (Apr-Sep)</i>	1350	62	1300	60	1330	61
<i>Libby (April-Sept.)</i>	3750	55	3530	52	3740	55
<i>Grand Coulee (Jan-July)</i>	36500	58	37500	59	37800	60
<i>The Dalles (Jan-July)</i>	55500	52	56100	53	56500	53
<i>Brownlee (April-July)</i>	1970	34	1890	33	1950	34
<i>Dworshak (April-July)</i>	1550	57	1400	52	1440	53
<i>Lower Granite (Jan-July)</i>	14800	50	14100	47	14100	47
<i>Heise (ID) (April-July)</i>	2180	63	2030	59	2040	59
<i>Weiser (ID) (April-July)</i>	1820	33	1730	32	1780	33

Reservoir Operations: Reservoirs continue to be operated for refill and power generation. Some of the reservoirs will not refill by the end of June as required by the 2000 Biological Opinion. A summary of the actual elevation change and full pool elevations is shown in the following Table:

Reservoir	The Change of Actual Elev. From June 1-7, 2001 [ft]	Maximum Reservoir pool [ft]
<i>Libby</i>	2411.42-2416.90	2459
<i>Hungry Horse</i>	3525.98-3530.35	3560
<i>Grand Coulee</i>	1273.90-1277.70	1290
<i>Brownlee</i>	2075.92-2076.55*	2077
<i>Dworshak</i>	1575.00-1579.20	1600

*as of June 6

Libby reservoir continued refill at a minimum outflow of 4 kcfs. Snowmelt in the subbasin continued with increased inflows in the range of 18 kcfs to 25 kcfs for the period of June 1-7.

Hungry Horse continued to be operated at a minimum outflow of 0.5 kcfs for the period of

June 1-7. Required minimum flows of 3.5 kcfs at Columbia Falls are being met by increased local inflows.

Grand Coulee continues to be operated to meet system power peaking demands and to refill. The current outflows were in the range of 49.8 kcfs-105.4 kcfs for the period of June 1-7. For the same period, inflows were in the range of 120 kcfs-100.8 kcfs.

Brownlee reservoir elevations fluctuated between 2075.92 ft and 2076.60 ft. The outflows at Hells Canyon Dam project were in the range of 7.67 kcfs to 10.42 kcfs for the period of June 1-6. The Brownlee inflows were in the range of 8.61 kcfs to 10.32 kcfs for the same period.

Dworshak operated at minimum outflow of 1.7 kcfs-1.8 kcfs. Inflows were in the range of 6.8 kcfs-9.6 kcfs.

Upper Snake projects continued to be drafting pools due to irrigation demands, to 68% of capacity on June 7. American Falls is at 67% of capacity, Palisades is at 51% of capacity and Jackson Lake is at 88% of capacity. Flow below Milner is only 245 cfs as of June 7.

Flows: Flows decreased in the Snake basin as snowmelt tapered. Flows fluctuated in the Upper and Mid Columbia subbasins due to continuing the snowmelt. Although the snowmelt season continues at a slower rate than the previous week, the flows are far below required BiOp flow targets, due to refill of the reservoirs. Flows below Bonneville fluctuated between 116.4 kcfs and 172.7 kcfs for the period of June 1-7, depending upon power generation demands.

Flows at Priest Rapids fluctuated between 70.5 kcfs and 115 kcfs for the period of June 1-7. The average flow for the same period was 91.2 kcfs.

The 1995 Biological Opinion spring flow target is 85 Kcfs at Lower Granite beginning April 10. Current flows were in the range of 41.4 kcfs on June 6 to 51.8 kcfs on June 1. The average daily flow for the period of June 1-7 was 44.7 kcfs.

The 1995 Biological Opinion spring flow target at McNary is 220 kcfs, beginning April 20.

The average daily flow for the period of June 1-7 was 136.04 kcfs, with fluctuations between 106.5 kcfs on June 3 to 158 kcfs on June 1.

Spill: A modified lower Columbia spill program continued at The Dalles, Bonneville, McNary and John Day dams. The FERC fish spill program continued at the Mid Columbia projects. Total dissolved gas readings at most monitors are reading in excess of 100%, but less than the waiver limits. Fish with bubbles in their lateral line have been sampled at both McNary and Rock Island dams, but no fish with bubbles in the unpaired fins have been observed.

Smolt Monitoring: Trap collections were lower this week at all SMP traps except steelhead increased slightly at the mainstem Snake (LEW) River trap. The Grande Ronde River trap has concluded its sampling for the season. Collections of yearling chinook at Lower Granite Dam varied between 1720 and 6460 fish per day. This same pattern was even more pronounced for steelhead where the passage indices began the week at 30,200, dropped to 1450 mid-week and again increased to 20,910 at week's end. Daily average flows at Lower Granite Dam were in the low forties for most of the week and relatively constant from day to day. No spikes in flow were observed to correlate with the day to day variations in passage indices this week. Subyearling chinook passage indices at Lower Granite increased through the week to 11,130 by week's end. Rock Island Dam passage indices for yearling chinook, coho, steelhead, and sockeye decreased this past week. This week also saw decreasing numbers of subyearling chinook, coho, and sockeye arriving at McNary Dam. In the lower Columbia River, yearling chinook predominated in this week's collections.

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 initiating 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, the adult spring chinook salmon count for 2001 was 391,367 and compares with 178,302 in 2000 and 70,775 for the 10-year average. The 2001 count was about double (2.2 times greater) and 5.5 times greater than the respective 2000 and 10-year average. At The Dalles Dam, 302,338 adult spring chinook salmon were counted for the season (approx. 77.3% of the Bonneville count). The McNary Dam count of adult spring chinook through June 7 was 257,791. The Snake River component of spring chinook at Ice Harbor was 167,160, while the Priest Rapids Dam count for the upper Columbia spring chinook was 47,339 (through June 4). Adult spring chinook passage at Prosser Dam (Yakama River) was estimated to range between 20,000 to 22,000 while numbers of adult spring chinook from Ringold Hatchery returns and the estimated sport catch totaled nearly 2,600. About 37,700 adult spring chinook have passed Rock Island Dam, with 15,300 passing Rocky Reach Dam through June 4. At Wells Dam, about 9,200 adult spring chinook were counted through June 6. At Lower Granite Dam, approximately 161,800 adult spring chinook have been tallied through June 7. The jack chinook count at Bonneville Dam was 14,174 for this season, about 3 times greater than the 10-year average and about 67% of the record 2000 jack spring chinook count.

The adult summer chinook count at Bonneville Dam ranged between 1,421 and 2,182 for the week with the total since June 1 of 11,523. Though June 7, the summer chinook count was 3 and 4.7 times greater than the 2000 and 10-year

average, respectively. There are no summer chinook released from hatcheries or native summer chinook in the lower Columbia River so these fish passing Bonneville Dam will be destined for the Snake River or Mid and Upper-Columbia River basins to spawn. The early component of the summer chinook run will be Snake River fish with the later portion of the Run destined for the Wenatchee, Methow, Okanogan and main stem Mid-Columbia rivers.

Steelhead passage at Bonneville Dam had counts ranging between 239 and 318 per day through the week with the total through June 7 of 8,233. Numbers were increasing at The Dalles, John Day, and McNary dams, with other projects still at reduced rates.

Adult sockeye passage at Bonneville Dam climbed from 28 (daily count on 6/1) to 357 on 6/7. The count to date is 1,019 and was about one half the 2000 count and 3 times greater than the 10-year average. These sockeye are passing the lower river projects and are moving up into the Mid-Columbia River to their main spawning sites in Lake Wenatchee and Lake Osoyoos. Only a small portion of the run will enter the Snake River to spawn.

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 – Releases of yearling chinook, coho, sockeye, and steelhead are completed for this 2001 migration season. Approximately 1.4 million subyearling fall chinook will be released from late May through June into the Snake and Clearwater rivers, with 107,000 released below Hells Canyon Dam by IDFG.

Mid-Columbia [above McNary Dam] – Releases of yearling spring and summer chinook and coho salmon are completed for this 2001 migration season. About 241,000 sockeye salmon were released into Lake Wenatchee from net pens and into Lake Osoyoos (direct releases) during the 2000 fall prior to the 2001 migration. Release of hatchery steelhead was completed in May. Subyearling summer chinook from Wells and Turtle

Rock hatcheries will be completed in June and possibly by early July. Subyearling fall chinook releases will be primarily from the lower section of the reach, i.e., from Priest Rapids and Ringold hatcheries in the Hanford Reach of the Mid-Columbia and into the Yakama River mainly near Prosser, WA. Release of subyearling fall chinook was initiated in the Yakama River basin with Priest Rapids and Ringold hatcheries scheduled for the next two-week period. The estimated release of 12.2 million subyearling fall chinook in 2001 will be close to the previous seven years' annual production.

Lower Columbia [McNary Dam to above Bonneville Dam]– Releases of yearling spring and fall chinook salmon are completed for this migration season. About 10.6 million subyearling fall chinook were released from Spring Creek National Fish Hatchery in 2001. Releases of subyearling fall chinook are on going during the week in the Umatilla and Klickitat River basins. Normal production of subyearling "bright" fall chinook generally ranges between 8 and 10 million annually. Releases of about 6.6 million coho salmon were completed in the Umatilla, Little White Salmon, and Klickitat River basins for the 2001 migration. Steelhead were released in the Umatilla, Little White Salmon, Klickitat, and Hood River basins from late April through 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
05/25/01	53.2	0.0	50.4	0.0	61.9	4.7	65.4	0.0	80.8	15.8	97.7	42.0	83.7	51.1
05/26/01	21.3	0.0	26.9	0.0	37.8	3.2	39.7	0.0	51.1	11.2	69.1	29.8	59.3	36.0
05/27/01	21.7	0.2	27.4	0.0	37.6	3.1	37.2	0.0	47.8	9.7	53.4	23.0	50.0	30.8
05/28/01	29.0	0.1	27.3	0.0	37.8	3.0	37.7	0.0	45.7	9.6	56.4	24.4	49.3	30.1
05/29/01	58.9	0.1	56.9	0.0	67.2	5.2	68.6	0.0	78.6	15.6	91.2	39.1	76.9	47.0
05/30/01	74.9	0.1	73.5	0.0	79.6	6.2	82.0	0.0	89.0	17.5	106.7	45.9	94.7	58.0
05/31/01	74.0	0.1	80.1	0.0	88.0	6.4	90.0	0.0	97.3	19.0	112.1	48.4	97.3	60.1
06/01/01	69.2	0.1	66.4	0.0	73.5	5.6	75.8	0.0	84.2	16.5	105.4	45.4	91.2	55.8
06/02/01	55.7	0.1	57.0	0.0	61.4	4.9	61.6	0.0	68.3	13.9	86.8	37.6	78.8	48.2
06/03/01	49.8	0.1	52.3	0.0	63.4	4.9	61.0	0.0	67.1	13.5	80.1	34.7	70.5	43.4
06/04/01	74.5	0.1	76.2	0.0	82.8	6.4	88.0	0.0	95.8	18.9	104.4	45.1	89.7	54.0
06/05/01	76.2	0.1	79.0	0.0	83.5	6.2	84.7	0.0	89.6	17.4	113.8	48.9	105.5	64.6
06/06/01	91.8	0.1	88.4	0.0	91.4	6.6	87.0	0.0	93.1	17.5	103.3	44.5	87.9	54.1
06/07/01	105.4	0.1	108.5	0.0	112.4	8.5	112.1	0.0	117.6	22.7	133.7	57.6	115.0	70.4

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
05/25/01	1.4	0.0	11.7	14.4	69.9	0.0	69.8	0.0	72.3	0.0	71.1	0.0	71.1	0.0
05/26/01	1.4	0.0	11.7	9.0	75.5	0.0	75.4	0.0	78.6	0.0	75.3	0.0	75.3	0.0
05/27/01	1.4	0.0	11.1	8.8	67.0	0.0	67.5	0.0	70.8	0.0	67.7	0.0	67.7	0.0
05/28/01	1.4	0.0	11.9	14.1	65.9	0.0	66.8	0.0	70.5	0.0	69.2	0.0	69.2	0.0
05/29/01	1.5	0.0	11.9	11.3	63.8	0.0	67.0	0.0	71.0	0.0	71.4	0.0	71.4	0.0
05/30/01	1.7	0.0	11.1	14.0	59.7	0.0	60.2	0.0	62.9	0.0	61.2	0.0	61.2	0.0
05/31/01	1.7	0.0	10.6	14.8	54.5	0.0	55.4	0.0	58.7	0.0	58.5	0.0	58.5	0.0
06/01/01	1.8	0.0	10.3	10.4	51.8	0.0	51.3	0.0	53.5	0.0	53.3	0.0	53.3	0.0
06/02/01	1.8	0.0	9.1	8.6	47.7	0.0	48.2	0.0	49.2	0.0	47.6	0.0	47.6	0.0
06/03/01	1.8	0.0	8.6	8.6	43.7	0.0	44.2	0.0	46.4	0.0	45.6	0.0	45.6	0.0
06/04/01	1.7	0.0	8.9	8.0	43.1	0.0	43.9	0.0	46.8	0.0	45.8	0.0	45.8	0.0
06/05/01	1.7	0.0	9.6	7.7	43.4	0.0	42.9	0.0	43.8	0.0	42.7	0.0	42.7	0.0
06/06/01	1.7	0.0	9.7	8.9	41.4	0.0	42.3	0.0	43.7	0.0	43.3	0.0	43.3	0.0
06/07/01	1.7	0.0	---	---	42.1	0.0	41.5	0.0	44.0	0.0	43.2	0.0	43.2	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		
05/25/01	155.7	7.5	152.0	12.6	145.3	43.6	159.0	49.7	0.6	102.1
05/26/01	144.1	7.6	134.9	17.8	134.2	40.3	143.7	49.9	0.6	86.5
05/27/01	122.3	7.4	116.0	17.0	116.9	35.9	134.3	49.6	0.6	77.4
05/28/01	116.4	7.6	111.8	15.1	109.3	33.8	121.4	49.8	0.4	64.5
05/29/01	141.0	7.5	153.4	18.5	151.9	45.1	152.4	49.7	0.6	95.5
05/30/01	145.1	7.5	161.8	23.9	156.3	46.8	174.9	49.7	13.7	104.9
05/31/01	153.4	7.5	163.9	19.7	163.6	48.4	171.2	49.5	8.3	106.7
06/01/01	158.0	7.6	153.4	20.8	158.6	46.6	172.7	49.3	8.1	108.6
06/02/01	126.4	7.3	125.9	17.4	117.4	34.8	133.9	49.6	0.5	77.1
06/03/01	106.5	7.2	101.5	15.7	101.6	30.1	116.4	49.4	0.6	59.8
06/04/01	135.9	7.5	141.2	19.1	143.3	42.5	144.6	49.3	0.5	88.1
06/05/01	157.7	7.5	152.4	20.6	148.6	43.8	154.3	49.6	2.3	95.7
06/06/01	133.8	7.3	147.1	19.2	149.4	44.8	157.3	49.8	0.6	100.2
06/07/01	134.0	7.3	128.4	17.6	126.8	36.9	142.5	49.7	0.7	85.4

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													
	05/29/01	Yearling Chinook	31	0	0	0.00%	0.00%	0	0	0	0	0	0
	05/29/01	Steelhead	69	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/05/01	Yearling Chinook	70	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/05/01	Steelhead	30	0	0	0.00%	0.00%	0	0	0	0	0	0
Little Goose Dam													
	05/30/01	Yearling Chinook	38	0	0	0.00%	0.00%	0	0	0	0	0	0
	05/30/01	Steelhead	62	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/06/01	Yearling Chinook	16	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/06/01	Steelhead	84	0	0	0.00%	0.00%	0	0	0	0	0	0
Lower Monumental Dam													
	06/04/01	Yearling Chinook	36	1	0	0.00%	0.00%	0	0	0	0	1	2
	06/04/01	Steelhead	64	1	0	0.00%	0.00%	0	0	0	0	1	1
McNary Dam													
	05/31/01	Subyearling Chinook	8	0	0	0.00%	0.00%	0	0	0	0	0	0
	05/31/01	Yearling Chinook	84	2	0	0.00%	0.00%	0	0	0	0	2	1
	05/31/01	Steelhead	8	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/04/01	Subyearling Chinook	45	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/04/01	Yearling Chinook	50	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/04/01	Steelhead	5	0	0	0.00%	0.00%	0	0	0	0	0	0
Bonneville Dam													
	06/05/01	Yearling Chinook	51	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/05/01	Steelhead	10	0	0	0.00%	0.00%	0	0	0	0	0	0
Rock Island Dam													
	05/31/01	Yearling Chinook	33	3	0	0.00%	0.00%	0	0	0	0	3	1
	05/31/01	Steelhead	67	3	0	0.00%	0.00%	0	0	0	0	3	1
	06/04/01	Yearling Chinook	20	1	0	0.00%	0.00%	0	0	0	0	1	1
	06/04/01	Steelhead	80	3	0	0.00%	0.00%	0	0	0	0	3	1
	06/07/01	Yearling Chinook	8	1	0	0.00%	0.00%	0	0	0	0	1	1
	06/07/01	Steelhead	92	5	0	0.00%	0.00%	0	0	0	0	5	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. Dnst			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	#				
5/25	105	107	108	23	115	116	119	24	106	106	107	24	105	106	107	24	108	108	108	24
5/26	104	105	107	24	115	116	118	24	107	107	107	24	106	107	109	24	109	110	111	23
5/27	104	105	106	24	116	118	119	24	107	107	107	24	106	107	109	24	108	109	109	23
5/28	104	105	106	24	114	117	120	24	106	106	107	24	106	107	108	24	108	108	109	23
5/29	104	105	106	24	114	115	118	24	105	105	105	24	103	103	104	7	106	107	107	23
5/30	103	103	103	10	112	112	113	9	104	104	105	8	---	---	---	0	106	107	108	19
5/31	104	105	106	14	116	116	117	14	106	106	106	15	104	104	105	15	107	108	108	23
6/1	104	105	107	23	114	116	117	24	107	107	108	24	105	106	107	24	108	108	109	24
6/2	106	107	108	24	111	112	114	24	106	106	106	24	104	105	105	24	106	106	107	24
6/3	105	105	106	23	111	112	114	23	106	106	106	23	104	105	106	23	106	106	107	23
6/4	104	105	106	24	111	111	114	24	106	107	108	24	104	105	106	24	106	106	107	23
6/5	104	105	106	24	110	110	112	24	106	106	107	24	104	105	105	24	105	105	105	24
6/6	104	105	105	24	109	110	111	24	105	105	105	24	103	104	105	20	104	104	105	23
6/7	104	105	106	23	111	112	115	24	105	105	106	24	103	104	104	24	104	105	105	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	Chief J. Dnst			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	#					
5/25	107	108	109	24	109	110	111	23	110	111	111	23	110	111	111	22	111	111	112	21	
5/26	107	109	109	23	110	111	112	23	111	111	112	23	112	112	113	24	112	112	113	23	
5/27	107	108	109	23	110	110	111	23	110	110	111	23	112	113	113	23	112	113	113	23	
5/28	107	108	109	23	108	109	109	22	109	110	110	22	111	111	112	24	111	112	112	24	
5/29	106	106	107	23	106	106	107	23	107	107	108	23	108	108	109	23	109	109	110	23	
5/30	106	107	110	19	105	106	107	21	107	107	108	21	107	108	108	17	108	109	109	15	
5/31	106	107	108	23	107	108	109	21	108	109	110	21	107	107	107	107	15	108	108	109	15
6/1	107	108	108	24	109	109	110	24	110	110	111	24	108	108	109	23	109	110	110	22	
6/2	107	107	109	24	107	107	108	23	108	109	109	23	107	107	108	24	109	109	109	24	
6/3	106	107	107	23	106	106	107	23	107	108	108	23	107	107	107	23	108	108	109	23	
6/4	106	107	108	23	106	107	107	24	108	109	109	24	107	107	107	21	108	108	109	20	
6/5	105	106	107	24	105	105	105	21	107	107	107	21	106	106	107	24	108	108	108	23	
6/6	105	105	106	23	104	105	105	24	106	107	107	24	105	105	106	23	107	107	107	23	
6/7	105	105	106	23	105	105	106	23	107	107	108	23	105	105	106	13	107	107	107	13	

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	#				
5/25	104	104	105	22	117	117	118	21	115	116	118	24	113	114	114	24	113	114	117	24
5/26	105	105	106	24	118	119	121	24	116	116	117	24	113	113	114	24	114	115	117	24
5/27	105	105	106	24	118	119	119	24	115	116	117	24	112	113	113	24	114	115	118	24
5/28	104	104	105	24	116	117	119	24	112	113	114	24	110	111	111	24	110	111	113	24
5/29	102	102	102	24	115	116	117	23	109	109	110	24	110	111	111	24	106	107	108	24
5/30	102	102	102	22	115	116	116	22	110	110	111	24	111	112	112	24	109	112	115	24
5/31	101	102	103	24	116	116	118	21	112	114	117	24	112	112	113	24	113	114	117	24
6/1	103	103	104	23	117	117	118	22	114	115	116	24	113	114	115	24	114	116	118	24
6/2	103	103	104	24	116	117	117	24	110	111	111	24	113	114	115	24	111	111	112	24
6/3	101	102	104	24	116	116	117	24	109	109	110	24	112	112	113	24	108	109	109	24
6/4	103	105	108	22	116	116	117	22	107	108	108	24	112	112	113	24	107	108	109	24
6/5	107	107	107	24	115	116	118	23	108	109	110	24	112	113	113	24	109	110	110	20
6/6	106	107	107	24	114	115	117	23	110	111	112	24	113	113	114	24	111	111	113	22
6/7	106	106	106	13	115	115	117	13	---	---	---	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	24 h			12 h	
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	
5/25	115	117	119	24	112	113	113	24	104	105	107	24	---	---	---	0	103	104	105	24	
5/26	113	115	117	24	114	114	115	24	104	106	107	24	103	105	105	24	104	105	106	24	
5/27	112	113	114	24	112	113	113	24	105	106	108	24	103	104	105	24	103	104	105	24	
5/28	109	110	111	24	106	107	108	24	104	106	107	24	102	103	104	24	103	104	105	24	
5/29	111	113	115	24	103	104	104	24	104	106	107	24	102	103	104	24	103	104	104	24	
5/30	114	116	117	24	105	107	109	21	105	107	108	21	102	103	104	21	103	104	105	21	
5/31	116	117	118	24	110	112	113	24	105	106	108	24	103	104	105	24	104	105	106	23	
6/1	116	118	119	24	112	113	114	24	105	107	109	24	---	---	---	0	103	104	106	24	
6/2	113	114	115	24	108	108	109	24	104	105	107	24	---	---	---	0	102	103	104	24	
6/3	111	112	113	24	107	108	108	24	104	105	105	24	101	101	102	24	101	102	103	23	
6/4	112	114	115	24	107	108	109	24	104	104	105	24	101	101	101	24	102	102	102	24	
6/5	115	115	116	24	106	107	108	24	105	106	107	24	---	---	---	0	101	102	103	24	
6/6	115	116	117	24	108	110	111	24	106	107	108	24	102	104	104	24	102	103	104	24	
6/7	---	---	---	0	111	113	113	24	105	106	107	24	102	103	104	24	103	103	104	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	24 h			12 h	
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	
5/25	102	104	105	24	107	108	108	24	105	105	105	22	105	105	106	24	105	105	105	24	
5/26	103	104	105	24	106	107	108	24	105	105	105	23	108	110	112	24	106	107	107	24	
5/27	102	103	104	24	105	106	108	24	104	105	105	24	108	110	112	24	106	107	107	24	
5/28	101	103	104	24	103	104	105	24	105	107	114	24	105	105	106	24	105	105	105	24	
5/29	101	103	104	24	101	102	102	24	105	109	119	24	103	103	103	24	103	103	103	24	
5/30	102	103	104	21	101	101	102	21	100	100	100	21	102	102	102	21	102	102	102	21	
5/31	103	105	106	24	103	104	106	24	100	101	101	24	104	106	109	24	102	103	103	24	
6/1	102	104	106	24	104	105	106	24	102	102	103	24	106	107	108	24	104	105	105	24	
6/2	100	102	103	24	103	103	103	24	102	102	102	24	102	102	103	24	102	102	103	24	
6/3	100	101	102	24	102	103	103	24	101	102	102	24	101	101	102	24	101	101	101	24	
6/4	100	101	101	24	102	103	103	24	101	102	102	24	100	101	101	24	101	101	102	24	
6/5	100	101	102	24	100	101	101	24	100	100	101	24	99	99	100	24	100	100	100	24	
6/6	102	104	106	24	99	99	100	24	98	98	98	24	98	98	98	24	99	99	99	24	
6/7	102	103	105	24	100	101	102	24	98	98	98	24	101	104	105	24	100	100	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	24 h			12 h	
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	
5/25	106	107	107	24	105	106	106	24	101	102	104	24	105	106	106	24	114	117	120	24	
5/26	107	108	109	24	106	107	107	24	103	103	104	14	106	107	108	24	116	119	121	24	
5/27	108	108	109	24	107	107	108	24	102	103	104	20	107	108	109	24	113	115	116	24	
5/28	106	106	107	24	106	106	107	24	---	---	---	0	107	107	108	24	109	110	110	24	
5/29	105	105	106	24	104	104	105	24	104	104	105	7	105	105	106	24	107	109	110	24	
5/30	104	104	105	21	103	104	105	21	104	104	106	21	105	105	106	21	107	109	113	21	
5/31	106	108	111	24	104	105	106	24	107	109	112	24	106	108	108	24	108	109	110	24	
6/1	106	107	107	24	105	105	106	24	106	107	109	24	107	108	110	24	106	107	110	24	
6/2	104	104	104	24	103	103	104	24	104	104	105	24	106	107	107	24	106	107	107	24	
6/3	103	103	104	24	102	103	104	24	103	104	105	24	106	107	107	24	106	107	107	24	
6/4	103	103	103	24	102	103	103	24	103	104	104	24	105	106	108	24	106	106	106	24	
6/5	102	102	103	24	101	102	102	24	102	103	103	24	104	104	105	24	104	104	105	24	
6/6	100	101	101	24	100	101	101	24	101	102	103	24	103	104	104	24	105	106	107	24	
6/7	102	105	108	24	100	101	102	24	103	104	107	23	104	105	105	23	110	113	116	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				
5/25	111	113	115	24	110	112	115	24	105	106	106	24	106	109	115	24	104	104	104	24
5/26	113	114	117	24	113	114	116	24	107	108	109	23	110	114	115	24	105	106	107	23
5/27	114	115	115	24	113	114	115	24	106	107	107	23	110	114	115	24	106	107	108	23
5/28	110	110	111	24	111	113	115	24	105	105	106	23	109	113	114	24	104	105	105	23
5/29	108	108	109	24	108	110	113	24	103	104	104	23	108	113	115	24	103	103	104	23
5/30	108	108	112	21	109	111	114	21	103	103	103	19	108	112	115	21	104	104	106	19
5/31	110	113	115	24	108	110	114	24	106	108	110	23	109	113	116	24	106	107	109	23
6/1	108	108	110	24	109	112	114	24	105	107	109	24	109	115	115	24	105	106	109	24
6/2	106	106	106	24	108	110	114	24	103	103	103	24	108	113	115	24	102	103	104	24
6/3	106	106	106	24	109	111	114	24	101	101	102	23	107	110	113	21	103	104	104	23
6/4	105	106	106	24	107	109	113	24	101	101	102	23	107	113	114	24	102	102	103	23
6/5	104	105	105	24	107	110	113	24	100	100	101	24	107	114	115	24	102	103	104	24
6/6	103	104	105	24	106	108	113	22	100	100	101	23	106	112	114	24	102	104	105	23
6/7	107	108	110	24	108	110	113	24	100	100	100	23	107	113	114	24	104	105	106	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	#	24h	12h	#					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr				
5/25	112	112	112	24	109	109	110	24	115	115	115	24	111	111	112	24	113	115	116	24
5/26	112	113	113	24	109	110	110	23	115	116	117	23	112	112	113	23	113	115	116	24
5/27	112	113	113	24	108	108	109	23	115	115	116	23	111	111	112	23	112	113	114	24
5/28	110	111	112	24	106	106	107	23	114	114	115	23	110	111	111	23	110	110	111	24
5/29	111	112	112	24	104	105	106	23	113	113	115	23	108	108	109	23	110	112	114	24
5/30	111	112	112	20	106	106	108	19	113	113	113	19	108	109	110	19	110	111	113	20
5/31	112	113	114	24	109	110	111	21	115	116	116	21	111	112	113	21	112	114	116	21
6/1	112	113	114	24	110	111	111	24	114	115	115	24	111	112	112	24	111	111	113	24
6/2	110	110	111	24	107	108	108	24	114	115	115	24	110	110	111	24	110	110	111	24
6/3	108	108	109	24	105	105	106	23	114	115	116	23	110	110	110	23	110	111	112	24
6/4	108	109	110	24	104	105	105	23	113	113	114	23	108	108	109	23	111	113	114	24
6/5	108	108	109	24	104	104	105	24	112	113	114	24	107	107	108	24	109	110	111	24
6/6	109	110	111	24	105	105	106	23	112	113	113	23	107	108	108	23	109	111	112	24
6/7	111	112	112	23	107	108	109	23	114	115	116	23	110	111	112	23	111	113	114	24

HATCHERY RELEASE SUMMARY LAST TWO WEEKS

Hatchery Release Summary

From: 5/25/01 to 6/7/01

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
IDFG	Magic Valley	ST	SU	2001	75,912	04-09-01	06-04-01	Squaw Cr Acclim Pd	Salmon River
IDFG	Oxbow-Idaho	CH0	FA	2001	107,000	05-25-01	06-01-01	Hells Canyon Dam	Snake River
IDFG Total					182,912				
Nez Perce Tribe	Lyons Ferry	CH0	FA	2001	24,000	06-01-01	07-06-01	Big Canyon (Clearwater R)	Clearwater Rvr M F
Nez Perce Tribe	Lyons Ferry	CH0	FA	2001	400,000	05-23-01	06-01-01	Pittsburg Landing	Snake River
Nez Perce Tribe	Lyons Ferry	CH0	FA	2001	500,000	05-23-01	06-22-01	Big Canyon (Clearwater R)	Clearwater Rvr M F
Nez Perce Tribe	Lyons Ferry	CH0	FA	2001	500,000	05-23-01	06-22-01	Cpt John Acclim Pd	Snake River
Nez Perce Tribe Total					1,424,000				
NMFS	Lyons Ferry	CH0	FA	2001	7,500	06-01-01	07-06-01	Pittsburg Landing	Snake River
NMFS Total					7,500				
ODFW	Big Canyon	ST	SU	2001	130,500	05-19-01	06-03-01	Big Canyon Acclim.Pd	Grande Ronde River
ODFW	Wallowa	ST	SU	2001	108,750	05-13-01	05-27-01	Wallowa Acclim Pd	Grande Ronde River
ODFW Total					239,250				
Umatilla Tribe	Umatilla	CH0	FA	2001	2,682,000	05-21-01	05-31-01	Thornhollow Acclim Pd	Umatilla River
Umatilla Tribe Total					2,682,000				
WDFW	Klickitat	CH0	FA	2001	1,600,000	05-21-01	05-25-01	Klickitat H	Klickitat River
WDFW	Klickitat	CH0	FA	2001	2,300,000	05-29-01	06-15-01	Klickitat H	Klickitat River
WDFW	Lyons Ferry	CH0	FA	2001	200,000	05-25-01	06-01-01	Lyons Ferry H	Snake River
WDFW	Wells	CH0	SU	2001	484,000	06-01-01	06-20-01	Wells H	Mid-Columbia River
WDFW Total					4,584,000				
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	94,800	05-31-01	05-31-01	Cle Elem Slough	Yakama River
Yakima Tribe	Easton Pond	CO	UN	2001	115,000	05-31-01	05-31-01	Easton Pd	Yakama River
Yakima Tribe	Lost Creek	CO	UN	2001	115,000	05-31-01	05-31-01	Lost Creek Acclim Pd	Yakama River
Yakima Tribe	Prosser	CH0	FA	2001	15,000	05-25-01	05-25-01	Yakama R	Yakama River
Yakima Tribe	Prosser	CH0	FA	2001	162,000	05-25-01	05-25-01	Prosser Acclim Pd	Yakama River
Yakima Tribe	Prosser	CH0	FA	2001	1,700,000	05-25-01	05-25-01	Prosser Acclim Pd	Yakama River
Yakima Tribe	Stiles Pond	CO	UN	2001	115,000	05-31-01	05-31-01	Naches R	Yakama River
Yakima Tribe Total					3,073,800				
Grand Total					12,193,462				

HATCHERY RELEASE SUMMARY NEXT TWO WEEKS

Hatchery Release Summary

From: 6/8/01 to 6/21/01

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Lyons Ferry	CH0	FA	2001	24,000	06-01-01	07-06-01	Big Canyon (Clearwater R)	Clearwater Rvr M F
Nez Perce Tribe	Lyons Ferry	CH0	FA	2001	500,000	05-23-01	06-22-01	Big Canyon (Clearwater R)	Clearwater Rvr M F
Nez Perce Tribe	Lyons Ferry	CH0	FA	2001	500,000	05-23-01	06-22-01	Cpt John Acclim Pd	Snake River
Nez Perce Tribe Total					1,024,000				
NMFS	Lyons Ferry	CH0	FA	2001	7,500	06-01-01	07-06-01	Pittsburg Landing	Snake River
NMFS Total					7,500				
USFWS	L White Salmon	CH0	FA	2001	2,000,000	06-21-01	06-21-01	Little White Salmon H	Little White Salmon River
USFWS Total					2,000,000				
WDFW	Klickitat	CH0	FA	2001	2,300,000	05-29-01	06-15-01	Klickitat H	Klickitat River
WDFW	Priest Rapids	CH0	FA	2001	6,700,000	06-10-01	06-25-01	Priest Rapids H	Mid-Columbia River
WDFW	Ringold Springs	CH0	FA	2001	3,500,000	06-15-01	06-22-01	Ringold Springs H	Mid-Columbia River
WDFW	Wells	CH0	SU	2001	484,000	06-01-01	06-20-01	Wells H	Mid-Columbia River
WDFW Total					12,984,000				
Grand Total					16,015,500				

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

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)
05/25/2001	8	62	4	2	7,800	10,971	20,103	366	194,288	29,850	10,020
05/26/2001	---	---	---	---	9,150	16,121	7,782	157	160,523	33,680	8,343
05/27/2001	---	---	---	---	25,700	10,572	3,700	112	122,900	11,769	11,509
05/28/2001	3	---	3	33	10,400	5,406	2,876	81	120,524	4,376	13,943
05/29/2001 *	10	19	3	2	6,700	12,691	6,870	87	45,382	5,577	16,870
05/30/2001	12	19	0	4	4,831	15,208	3,930	39	88,743	28,201	27,497
05/31/2001	10	5	2	6	2,450	3,504	3,600	53	82,100	34,611	41,631
06/01/2001	10	9	2	2	3,800	3,027	3,480	66	130,064	34,833	44,088
06/02/2001	---	---	---	---	6,460	2,390	2,910	56	81,000	59,634	30,809
06/03/2001	---	---	---	---	2,300	4,258	4,290	31	52,653	25,022	33,858
06/04/2001	0	9	---	2	1,720	1,926	1,236	37	20,700	15,413	58,300
06/05/2001	7	10	---	1	4,750	975	1,180	40	25,659	23,580	45,149
06/06/2001 *	0	9	---	2	5,020	575	400	24	14,900	24,578	45,589
06/07/2001	2	11	---	0	4,300	600	465	14	19,986	19,480	21,298
06/08/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	62	153	14	54	95,381	88,224	62,822	1,163	1,159,422	350,604	408,904
# Days:	10	9	6	10	14	14	14	14	14	14	14
Average:	6	17	2	5	6,813	6,302	4,487	83	82,816	25,043	29,207
YTD	12,657	26,618	9,049	520	1,928,076	730,271	541,475	6,312	2,088,275	785,956	1,560,715

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)
05/25/2001	0	0	0	1	150	0	301	29	9,502	240	9,294
05/26/2001	---	---	---	---	0	0	1	30	9,936	225	11,322
05/27/2001	---	---	---	---	100	0	100	19	11,800	104	16,606
05/28/2001	0	---	1	0	0	0	300	19	15,314	61	16,911
05/29/2001 *	0	0	0	0	0	0	240	49	19,413	315	12,237
05/30/2001	0	0	0	1	0	0	270	25	38,574	1,225	23,289
05/31/2001	0	0	3	0	0	0	240	21	36,200	977	33,764
06/01/2001	0	0	1	0	0	0	510	14	57,401	1,739	38,031
06/02/2001	---	---	---	---	60	0	600	13	36,800	984	25,635
06/03/2001	---	---	---	---	100	0	600	60	81,103	3,286	21,983
06/04/2001	0	0	---	1	180	0	900	170	65,800	1,845	25,211
06/05/2001	0	0	---	0	50	10	780	5	31,962	3,318	24,221
06/06/2001 *	0	0	---	0	830	0	260	3	18,200	2,024	33,156
06/07/2001	0	0	---	0	11,130	4	285	11	13,295	2,120	24,661
06/08/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	5	3	12,600	14	5,387	468	445,300	18,463	316,321
# Days:	10	9	6	10	14	14	14	14	14	14	14
Average:	0	0	1	0	900	1	385	33	31,807	1,319	22,594
YTD	1	1	13	25	12,770	14	6,352	884	480,947	19,887	963,061

*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)
05/25/2001	0	0	0	0	1,500	0	100	7,939	2,000	1,080	114,579
05/26/2001	---	---	---	---	1,500	0	100	3,264	2,121	449	137,354
05/27/2001	---	---	---	---	3,300	0	0	2,140	4,100	383	123,659
05/28/2001	0	---	0	0	2,700	0	0	588	2,878	344	108,033
05/29/2001 *	0	0	0	0	1,900	260	0	405	2,500	371	67,478
05/30/2001	0	0	0	0	450	140	30	588	6,186	735	76,977
05/31/2001	0	0	0	0	950	121	30	546	11,100	230	64,332
06/01/2001	0	0	0	0	980	200	90	732	17,287	8,056	82,656
06/02/2001	---	---	---	---	2,000	185	0	491	8,100	1,505	41,157
06/03/2001	---	---	---	---	260	35	30	464	2,997	346	31,584
06/04/2001	0	0	---	1	320	0	0	185	2,900	238	28,100
06/05/2001	0	0	---	0	260	285	0	191	2,594	209	26,808
06/06/2001 *	0	0	---	0	520	150	20	76	3,100	116	41,444
06/07/2001	0	0	---	0	2,360	192	0	212	4,827	57	18,832
06/08/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	1	19,000	1,568	400	17,821	72,690	14,119	962,993
# Days:	10	9	6	10	14	14	14	14	14	14	14
Average:	0	0	0	0	1,357	112	29	1,273	5,192	1,009	68,785
YTD	0	0	0	6	31,650	5,892	582	40,686	88,075	47,419	2,063,959

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)
05/25/2001	38	509	5	4	50,100	24,982	6,972	1,635	19,010	1,680	13,433
05/26/2001	---	---	---	---	49,050	16,796	5,948	911	16,312	2,643	11,769
05/27/2001	---	---	---	---	126,400	13,112	7,400	604	13,800	1,619	10,582
05/28/2001	10	---	2	43	71,300	10,050	3,624	325	6,568	1,114	9,715
05/29/2001 *	11	842	5	44	24,600	6,998	3,450	242	2,905	727	6,643
05/30/2001	13	762	1	55	9,219	6,472	3,870	384	7,548	1,662	10,230
05/31/2001	28	250	1	5	7,850	3,396	4,740	646	12,000	1,897	10,080
06/01/2001	32	131	0	9	9,440	3,629	4,830	583	15,205	5,970	7,974
06/02/2001	---	---	---	---	30,200	9,488	3,960	521	8,100	926	4,468
06/03/2001	---	---	---	---	7,500	4,029	2,340	278	3,348	519	4,548
06/04/2001	0	107	---	13	2,380	2,598	3,304	184	4,200	357	6,303
06/05/2001	8	80	---	111	1,450	4,901	3,480	301	6,886	612	6,819
06/06/2001 *	1	54	---	93	2,490	4,265	2,040	338	3,200	289	7,368
06/07/2001	5	38	---	22	20,910	3,912	1,365	420	8,215	1,089	3,587
06/08/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	146	2,773	14	399	412,889	114,628	57,323	7,372	127,297	21,104	113,519
# Days:	10	9	6	10	14	14	14	14	14	14	14
Average:	15	308	2	40	29,492	8,188	4,095	527	9,093	1,507	8,109
YTD	4,564	33,801	4,357	4,961	5,177,566	744,940	299,155	14,660	479,438	175,542	426,013

Two-Week Summary of Passage Indices

COMBINED SOCKEYE

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
05/25/2001	0	0	0	0	0	150	100	537	2,600	60	290
05/26/2001	---	---	---	---	150	0	0	380	5,023	86	372
05/27/2001	---	---	---	---	200	50	0	301	17,100	400	232
05/28/2001	0	---	0	0	200	50	0	80	15,885	88	90
05/29/2001 *	2	0	0	0	300	100	0	33	10,200	477	175
05/30/2001	1	0	0	0	200	0	0	35	13,722	1,732	435
05/31/2001	2	0	0	0	100	91	0	30	39,400	1,955	901
06/01/2001	2	0	0	0	40	50	0	42	79,892	10,432	2,607
06/02/2001	---	---	---	---	120	50	0	35	25,500	1,795	2,822
06/03/2001	---	---	---	---	40	0	30	46	8,759	692	4,548
06/04/2001	1	0	---	0	20	0	30	27	3,000	1,369	2,889
06/05/2001	0	0	---	0	40	10	0	16	5,976	1,642	3,762
06/06/2001 *	0	0	---	0	50	25	20	7	5,700	2,371	17,038
06/07/2001	0	0	---	0	50	0	0	17	5,167	3,552	4,035
06/08/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	8	0	0	0	1,510	576	180	1,586	237,924	26,651	40,196
# Days:	10	9	6	10	14	14	14	14	14	14	14
Average:	1	0	0	0	108	41	13	113	16,995	1,904	2,871
YTD	24	0	0	0	3,500	9,221	766	2,788	248,786	28,373	41,442

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 06/07

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	391,367	14,174	178,302	21,259	70,775	4,654	11,523	1,449	3,824	1,414	2,454	298	0	0	0	0	0	0
TDA	302,338	10,093	102,953	14,796	41,161	3,200	4,343	476	1,622	641	1,033	131	0	0	0	0	0	0
JDA	260,954	6,165	86,553	12,157	33,812	2,643	1,717	152	770	176	516	45	0	0	0	0	0	0
MCN	257,791	6,576	64,254	10,755	30,399	2,541	0	0	0	0	0	0	0	0	0	0	0	0
IHR	167,160	2,811	37,740	8,996	16,195	1,557	0	0	0	0	0	0	0	0	0	0	0	0
LMN	174,768	1,574	34,151	9,586	1,433	1,619	0	0	0	0	0	0	0	0	0	0	0	0
LGS	166,455	2,579	32,418	9,226	13,213	1,562	0	0	0	0	0	0	0	0	0	0	0	0
LWG	161,775	2,450	30,932	8,952	11,939	1,422	0	0	0	0	0	0	0	0	0	0	0	0
PRD	47,339	902	19,298	1,008	9,199	255	0	0	0	0	0	0	0	0	0	0	0	0
RIS	37,657	1,514	13,580	1,273	6,446	262	0	0	0	0	0	0	0	0	0	0	0	0
RRH	15,311	402	4,792	335	1,566	57	0	0	0	0	0	0	0	0	0	0	0	0
WEL	9,275	550	1,780	328	677	48	0	0	0	0	0	0	0	0	0	0	0	0

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	1,019	2,105	318	8,233	4,944	5,189	1,759
TDA	0	0	0	0	0	0	438	1,064	153	1,769	1,052	1,676	467
JDA	0	1	2	0	0	0	366	778	103	2,955	3,553	3,300	1,005
MCN	0	0	0	0	0	0	139	243	32	2,095	905	2,162	787
IHR	0	0	0	0	0	0	0	0	0	1,583	929	2,193	698
LMN	0	0	0	0	0	0	3	0	2	1,777	946	2,175	879
LGS	0	0	0	0	0	0	1	0	0	2,038	971	1,239	1,030
LWG	0	0	0	0	0	0	0	0	0	5,799	2,500	4,854	1,673
PRD	0	0	0	0	0	0	67	189	54	33	15	60	**
RIS	0	0	1	0	0	0	8	12	3	64	23	87	41
RRH	0	0	6	0	0	0	0	1	0	99	83	73	51
WEL	0	0	0	0	0	0	0	0	0	30	24	30	20

TDA is missing 6/4; PRD is through 6/5; RIS & RRH are through 6/4.

WEL's numbers from COE to 5/31 and from Douglas CO PUD 6/1 to 6/6 .

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

Wild steelhead numbers are included in the total.

**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

		05/26/01 TO 06/08/01						
		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	12,600	95,381	19,000	1,510	412,889	541,380	
	Sum of NumberBarged	12,595	95,001	18,988	1,508	409,540	537,632	
	Sum of NumberBypassed	0	292	0	0	3,099	3,391	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of TotalProjectMortalities	5	88	12	2	250	357	
LGS	Sum of NumberCollected	14	88,224	1,568	576	114,628	205,010	
	Sum of NumberBarged	13	90,159	1,752	621	122,352	214,897	
	Sum of NumberBypassed	0	0	0	0	0	0	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of TotalProjectMortalities	1	444	1	5	1,709	2,160	
LMN	Sum of NumberCollected	5,387	62,822	400	180	57,323	126,112	
	Sum of NumberBarged	5,385	60,886	400	180	56,413	123,264	
	Sum of NumberBypassed	0	1,753	0	0	88	1,841	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of TotalProjectMortalities	2	183	0	0	822	1,007	
MCN	Sum of NumberCollected	416,560	1,092,262	68,484	223,600	120,261	1,921,167	
	Sum of NumberBarged	197,266	559,286	33,739	103,316	61,799	955,406	
	Sum of NumberBypassed	218,794	530,756	34,668	120,050	56,811	961,079	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of TotalProjectMortalities	500	2,220	77	234	1,651	4,682	
Total Sum of NumberCollected		434,561	1,338,689	89,452	225,866	705,101	2,793,669	
Total Sum of NumberBarged		215,259	805,332	54,879	105,625	650,104	1,831,199	
Total Sum of NumberBypassed		218,794	532,801	34,668	120,050	59,998	966,311	
Total Sum of Numbertrucked		0	0	0	0	0	0	
Total Sum of TotalProjectMortalities		508	2,935	90	241	4,432	8,206	

YTD Transportation Summary

TO: 06/08/01

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	12,770	1,934,976	32,400	3,950	5,290,816	7,274,912
	Sum of NumberBarged	12,765	1,845,011	31,376	3,550	5,021,825	6,914,527
	Sum of NumberBypassed	0	79,197	976	221	264,474	344,868
	Sum of NumberTrucked	0	6,433	30	167	3,386	10,016
	Sum of TotalProjectMortalities	5	4,334	18	12	1,130	5,499
LGS	Sum of NumberCollected	14	732,367	5,912	9,223	746,426	1,493,942
	Sum of NumberBarged	13	730,878	6,068	9,222	752,009	1,498,190
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of NumberTrucked	0	898	0	28	336	1,262
	Sum of TotalProjectMortalities	1	2,970	29	23	3,514	6,537
LMN	Sum of NumberCollected	6,352	541,475	582	766	299,155	848,330
	Sum of NumberBarged	6,349	518,333	582	863	296,923	823,050
	Sum of NumberBypassed	0	16,451	0	0	349	16,800
	Sum of NumberTrucked	0	5,519	0	0	319	5,838
	Sum of TotalProjectMortalities	3	1,172	0	3	1,564	2,742
MCN	Sum of NumberCollected	452,233	2,021,236	83,881	234,491	472,526	3,264,367
	Sum of NumberBarged	210,829	902,364	39,912	107,377	188,990	1,449,472
	Sum of NumberBypassed	240,719	1,114,395	43,880	126,869	280,956	1,806,819
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	685	4,477	89	245	2,580	8,076
Total Sum of NumberCollected		471,369	5,230,054	122,775	248,430	6,808,923	12,881,551
Total Sum of NumberBarged		229,956	3,996,586	77,938	121,012	6,259,747	10,685,239
Total Sum of NumberBypassed		240,719	1,210,043	44,856	127,090	545,779	2,168,487
Total Sum of NumberTrucked		0	12,850	30	195	4,041	17,116
Total Sum of TotalProjectMortalities		694	12,953	136	283	8,788	22,854