



## Fish Passage Center

# Weekly Report #01 - 16

June 29, 2001

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

### SIGNIFICANT POINTS

- **Mainstem migration flows declined throughout the week, and fell further below the NMFS Biological Opinion target than previous weeks.**
- **The Biological Opinion summer flow target for Lower Granite Dam of 50 kcfs began on June 20.**
- **The Biological Opinion summer flow target for McNary Dam of 200 kcfs begins on July 1.**

### SUMMARY OF EVENTS:

**Water Supply:** For the June 1 thorough June 26 period precipitation was above average for the Columbia River above Grand Coulee at 124% and 100% of average for the Columbia River above The Dalles. Precipitation for the Snake River above Ice Harbor was 82% of average. The July "early bird" runoff volume forecast shows a decline in the runoff volume from the June "final" forecast. The summary of the Runoff Volume Forecasts is given in the following Table:

Site	May Final		June Final		July Early	
	Runoff Volume [KAF]	% of avg	Runoff Volume [KAF]	% of avg	Runoff Volume [KAF]	% of avg
<i>Hungry Horse (Apr-Sep)</i>	1330	61	1300	60	1300	60
<i>Libby (April-Sep.)</i>	3740	55	3750	55	3480	51
<i>Grand Coulee (Jan-July)</i>	37800	60	36500	58	35200	56
<i>The Dalles (Jan-July)</i>	56500	53	55500	52	53900	51
<i>Brownlee (April-July)</i>	1950	34	1970	34	1770	31
<i>Dworshak (April-July)</i>	1440	53	1550	57	1460	54
<i>Lower Granite (Jan-July)</i>	14100	47	14800	50	14400	48

**Reservoir Operations:** Federal operators and regulators continued to operate to refill system reservoirs. Over the past week, system reservoirs refilled as illustrated in the following table. Grand Coulee Reservoir filled from elevation 1280.7 on June 22 to elevation 1282.3 on June 24 and then drafted to elevation 1281.3 by June 28. Libby outflow has been a steady 4 Kcfs, but the project will begin releasing 6 Kcfs on Monday July 2 for bull trout purposes. Albeni Falls outflow will be reduced and the project will be operated between 2062 and 2062.5. Flow augmentation from Dworshak Reservoir for flow and temperature regulation is scheduled to begin on July 2. Outflow from Dworshak will increase to 5 Kcfs for July 2-4, 7 Kcfs for July 5-6 and 10 Kcfs for July 7-8.

The Upper Snake projects continued drafting pools due to irrigation demands, to 56% of capacity on June 28. American Falls is at 50% of capacity, Palisades is at 38% of capacity and Jackson Lake is at 82% of capacity.

Reservoir	Elevations June 22 – June 28, 2001
Libby	2426.3 – 2429.9
Hungry Horse	3538.6 – 3540.9
Grand Coulee	1280.7 – 1281.3
Dworshak	1585.6 – 1587.0
Brownlee	2075.9 – 2075.5*

\* Through midnight 6/27

**Flows:** The continuing priority for refill has resulted in mainstem migration flows far below the NMFS Biological Opinion requirement in all river reaches. For the week of June 22 through June 28, weekly average flows at Priest Rapids was 91.4 kcfs with the highest daily average flow of 109.6 kcfs occurring on June 27 and the lowest daily average flow occurring on of 60.2 kcfs occurring on June 24.

Daily average flows at Lower Granite Dam have declined steadily through the week. The highest daily average flow of 30.4 kcfs occurred on June 22 and the lowest daily average flow of 20.5 occurred on June 24. The weekly average flow at Lower Granite Dam was 26.7 kcfs. The NMFS Biological Opinion summer flow target for Lower Granite Dam of 50 kcfs began on June 20.

The weekly average flows at McNary Dam have been 118.6 kcfs with the lowest daily average flow occurring on June 25 of 94.9 kcfs and the highest daily average flow of 145.4 occurring on June 22.

**Spill:** No spill is presently occurring in the federal hydrosystem. A summer spill program will be discussed among the Federal Executive Committee members today. A summer spill program at Priest and Wanapum dams began at 0001 hours on the morning of June 16<sup>th</sup>.

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, and two steelhead with bubbles in the unpaired fins were observed at Rock Island Dam.

**Smolt Monitoring Program.** Collection of subyearling chinook at Lower Granite Dam was up 22% this week, and averaged nearly 12,000 fish per day. Subyearling chinook passage indices at Rock Island Dam rose 260% this week, and averaged 233 fish per day. Subyearling chinook passage indices at McNary Dam rose nearly 300% this week, and averaged 338,000 fish per day. McNary Dam hit a peak subyearling chinook collection day on May 25 with 500,000 fish. Subyearling chinook passage indices at John Day Dam rose nearly 150% this week, and averaged

26,000 fish per day. Again there was no week-to-week change in passage index trend for subyearling chinook at Bonneville Dam, with this week averaging 21,400 fish per day.

**Adult Fish Passage:** At Bonneville Dam, 42,201 adult summer chinook salmon have been counted through June 28 and this total was about 2.5 times and 3.6 times greater than the respective Year 2000 and 10-year average. One interesting fact, the adult chinook counts at Bonneville Dam have been 1,000 or more per day since 16-hour per day counts started on April 1. At The Dalles Dam, 37,079 adult summer chinook salmon have been counted, approximately 87.9% of the Bonneville count. At McNary Dam, 29,449 adult summer chinook salmon have been counted with 11,086 tallied at Ice Harbor (Snake River) and about 7,200 (through June 26) at Priest Rapids Dam (Mid-Columbia River). Numbers of adult chinook entering the Snake River were beginning to decline by week's end while the Priest Rapids counts were about 900 fish per day and fairly consistent for the week. At Lower Granite Dam, of the 675 adult chinook (PIT tagged) sampled at the trapping site, 68 or 10.1% had gillnet marks; 89 or 13.2% displayed marine mammal descaling marks; and of the 89 fish with marine mammal marks, 55 or 8.1% had flesh wounds. Only 5 of the 675 chinook sampled (0.7%) had any sign of head burn this year.

Steelhead passage at Bonneville Dam averaged 1,154 per day through the week ending June 28 with the steelhead count now at 27,149 which is 1.8 times the year 2000 count and 2.4 times greater than the 10-year average. Steelhead are passing upstream dams in good numbers with McNary Dam averaging 568 per day for the week. Daily counts at Ice Harbor Dam increased from 200 early in the week to 400 by the end of the counting week. Steelhead counts at Mid-Columbia projects also increased through the week with about 40 fish per day now passing Priest Rapids Dam and moving upstream.

Adult sockeye passage at Bonneville Dam ranged from a high count 8,122 to a low of 3,650, and averaged 5,119 for the week ending June 28.

The count through June 28 is 93,412 and was about 1.25 times and 3.8 times greater than the respective 2000 count and 10-year average count. Sockeye counted at McNary totaled 59,522 with most of these continuing up into the Mid-Columbia River to their destination spawning sites in Lake Wenatchee and Lake Osoyoos basins. A small portion of the run will enter the Snake River with the Ice Harbor count showing eight sockeye counted through June 28.

**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 hatchery fish for the 2001 migration year are completed with exception of the final research subyearling fall chinook (2 groups of 4k each).

*Mid-Columbia [above McNary Dam]* – Releases of yearling spring and summer chinook, sockeye, and coho salmon and steelhead are completed for the 2001 spring migration season. The final release of subyearling summer chinook from Turtle Rock Hatchery is scheduled for June 29. Subyearling fall and summer chinook have been released in the Yakama River, Hanford Reach, and the main Columbia River just below Wells Dam

*Lower Columbia [McNary Dam to above Bonneville Dam]* – Releases of yearling spring and fall chinook salmon, coho salmon, and steelhead are completed for the 2001 migration season. All subyearling fall chinook from hatcheries have been completed as well. Numbers from the Umatilla River were reduced in the hatchery database.

6/29/01

## 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
06/15/01	93.4	0.1	97.5	0.0	100.9	7.5	100.0	0.0	105.3	20.1	121.6	52.0	106.2	64.9
06/16/01	62.2	0.1	64.4	0.0	71.4	5.5	69.5	0.0	75.3	14.1	82.3	24.9	72.5	16.7
06/17/01	42.7	0.1	43.0	0.0	49.4	4.1	51.3	0.0	57.3	6.7	70.3	21.9	63.2	13.8
06/18/01	92.4	0.1	93.8	0.0	95.2	7.4	92.5	0.0	96.7	0.0	106.6	33.0	94.1	21.4
06/19/01	94.6	0.1	97.5	0.0	101.6	7.4	99.8	0.0	101.5	0.0	119.0	36.9	118.9	28.4
06/20/01	104.9	0.1	105.6	0.0	109.4	7.6	106.7	0.0	111.2	0.0	121.7	37.7	107.6	25.9
06/21/01	101.3	0.1	115.0	0.0	118.9	8.0	109.7	0.0	112.2	0.0	127.9	39.8	116.7	28.0
06/22/01	96.5	0.1	88.8	0.0	89.8	6.8	92.6	0.0	101.1	0.0	115.7	35.9	101.8	25.2
06/23/01	52.6	0.1	59.8	0.0	65.4	5.0	65.4	0.0	71.0	0.0	91.3	28.2	89.2	23.6
06/24/01	47.4	0.1	42.2	0.0	43.8	3.4	42.5	0.0	46.9	0.0	64.3	20.0	60.2	14.6
06/25/01	87.9	0.1	87.7	0.0	89.4	7.1	90.1	0.0	95.6	0.0	102.2	32.1	90.3	22.0
06/26/01	80.0	0.1	82.4	0.0	86.4	7.4	86.8	0.0	90.5	0.0	102.9	31.9	92.3	22.4
06/27/01	93.9	0.1	95.1	0.0	98.7	7.6	96.6	0.0	99.3	0.0	113.0	35.1	109.6	26.1
06/28/01	81.1	0.1	85.1	0.0	92.1	6.5	90.9	0.0	93.5	0.0	102.3	31.8	96.2	23.6

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

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/15/01	1.7	0.0	9.3	10.8	37.8	0.0	38.3	0.0	41.3	0.0	38.9	0.0	38.9	0.0
06/16/01	1.7	0.0	7.9	7.7	37.6	0.0	38.7	0.0	40.5	0.0	40.2	0.0	40.2	0.0
06/17/01	1.7	0.0	8.1	8.1	34.9	0.0	34.4	0.0	35.2	0.0	35.5	0.0	35.5	0.0
06/18/01	1.7	0.0	7.3	8.0	33.3	0.0	33.7	0.0	34.5	0.0	33.3	0.0	33.3	0.0
06/19/01	1.7	0.0	7.5	7.8	30.4	0.0	31.6	0.0	32.7	0.0	32.0	0.0	32.0	0.0
06/20/01	1.7	0.0	7.1	9.5	31.9	0.0	31.8	0.0	33.0	0.0	30.6	0.0	30.6	0.0
06/21/01	1.7	0.0	6.7	8.2	27.8	0.0	26.8	1.5	27.1	0.0	26.8	0.0	26.8	0.0
06/22/01	1.7	0.0	6.8	7.7	30.4	0.0	32.8	0.0	34.6	0.0	34.7	0.0	34.7	0.0
06/23/01	1.7	0.0	5.8	7.5	26.7	0.0	27.2	0.0	28.4	0.0	27.9	0.0	27.9	0.0
06/24/01	1.7	0.0	7.0	7.0	20.5	0.0	19.8	0.0	20.5	0.0	18.0	0.0	18.0	0.0
06/25/01	1.7	0.0	6.6	7.8	29.5	0.0	28.5	0.0	27.7	0.0	28.1	0.0	28.1	0.0
06/26/01	1.7	0.0	7.3	7.9	29.6	0.0	31.9	0.0	35.0	0.0	34.0	0.0	34.0	0.0
06/27/01	1.7	0.0	7.0	7.6	24.2	0.0	23.2	0.0	24.5	0.0	24.8	0.0	24.8	0.0
06/28/01	1.7	0.0	---	---	26.0	0.0	26.1	0.0	26.9	0.0	26.2	0.0	26.2	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		
06/15/01	133.0	7.2	129.3	14.4	135.0	40.0	127.1	48.9	1.9	69.6
06/16/01	132.7	0.0	129.3	0.0	124.4	0.0	126.9	0.0	11.2	107.2
06/17/01	92.6	0.0	88.0	0.0	90.2	0.0	103.1	0.0	0.6	94.0
06/18/01	108.2	0.0	120.4	0.0	126.1	0.0	122.8	0.0	15.9	98.3
06/19/01	146.4	0.0	135.7	0.0	135.8	0.0	151.0	0.0	30.4	112.0
06/20/01	125.7	0.0	139.5	0.0	139.5	0.0	144.4	0.0	27.0	108.8
06/21/01	141.8	0.0	138.7	0.0	139.8	0.0	134.8	0.0	18.4	107.8
06/22/01	145.4	0.0	133.5	0.0	132.4	0.0	138.0	0.0	21.2	108.2
06/23/01	118.0	0.0	129.9	0.0	134.0	0.0	129.7	0.0	27.2	93.9
06/24/01	102.7	0.0	100.4	0.0	103.6	0.0	117.9	0.0	18.0	91.3
06/25/01	94.9	0.0	100.2	0.0	104.5	0.0	117.7	0.0	17.8	91.3
06/26/01	133.7	0.0	125.6	0.0	121.9	0.0	117.2	0.0	15.1	93.5
06/27/01	110.0	0.0	115.6	0.0	117.9	0.0	129.3	0.0	16.1	104.6
06/28/01	125.2	0.0	123.9	0.0	127.3	0.0	129.3	0.0	16.2	104.5

## 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
<b>Lower Granite Dam</b>													
	06/19/01	Yearling Chinook	4	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/19/01	Steelhead	96	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/26/01	Yearling Chinook	1	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/26/01	Steelhead	99	0	0	0.00%	0.00%	0	0	0	0	0	0
<b>Little Goose Dam</b>													
	06/20/01	Yearling Chinook	1	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/20/01	Steelhead	99	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/27/01	Steelhead	10	0	0	0.00%	0.00%	0	0	0	0	0	0
<b>Lower Monumental Dam</b>													
	06/25/01	Yearling Chinook	15	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/25/01	Steelhead	32	0	0	0.00%	0.00%	0	0	0	0	0	0
<b>McNary Dam</b>													
	06/21/01	Subyearling Chinook	81	2	0	0.00%	0.00%	0	0	0	0	2	1
	06/21/01	Yearling Chinook	13	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/21/01	Steelhead	6	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/25/01	Subyearling Chinook	100	2	0	0.00%	0.00%	0	0	0	0	2	1
	06/28/01	Subyearling Chinook	97	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/28/01	Yearling Chinook	3	0	0	0.00%	0.00%	0	0	0	0	0	0
<b>Bonneville Dam</b>													
	06/22/01	Subyearling Chinook	43	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/26/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/29/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
<b>Rock Island Dam</b>													
	06/26/01	Yearling Chinook	9	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/26/01	Steelhead	55	2	2	3.63%	0.00%	2	0	0	0	0	0
	06/28/01	Yearling Chinook	29	1	0	0.00%	0.00%	0	0	0	0	1	1
	06/28/01	Steelhead	71	0	0	0.00%	0.00%	0	0	0	0	0	0

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

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

Date	Hungry H. Dnstr			Boundary			Grand Coulee			Grand C. Tlwr			Chief Joseph			#				
	24 h	12 h		24 h	12 h		24 h	12 h		24 h	12 h		24 h	12 h						
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
6/15	102	103	104	24	109	109	110	24	106	106	107	24	104	105	105	24	104	105	105	23
6/16	102	103	104	24	108	109	110	24	107	107	107	24	105	106	107	24	105	106	106	24
6/17	102	103	104	24	107	108	109	24	107	107	107	24	105	107	108	24	106	106	107	23
6/18	101	102	103	24	108	109	116	24	107	107	108	24	105	105	106	24	105	106	106	23
6/19	102	103	104	24	108	110	115	24	107	107	107	24	105	105	107	24	106	106	107	23
6/20	102	103	104	24	108	110	115	24	107	107	107	24	105	105	106	24	106	106	106	7
6/21	103	104	108	19	107	108	109	24	107	108	108	24	106	106	107	24	107	107	107	23
6/22	106	107	109	24	107	108	109	24	108	108	109	24	106	106	107	23	107	107	107	24
6/23	106	107	109	24	108	108	109	24	108	108	109	24	106	107	108	24	107	107	107	24
6/24	107	108	109	24	107	108	109	24	108	108	108	24	106	106	108	22	106	107	107	23
6/25	107	107	109	24	107	108	108	24	107	108	108	20	105	106	106	24	106	107	107	23
6/26	107	107	109	23	107	107	108	24	108	108	108	24	106	106	107	23	106	107	107	24
6/27	106	106	106	24	107	107	107	24	108	108	108	24	106	107	108	24	106	106	107	23
6/28	106	106	106	24	106	106	108	24	107	107	108	24	106	106	107	22	106	106	110	23

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

Date	Chief J. Dnstr			Wells			Wells Dwnstrm			Rocky Reach			Rocky R. Tlwr			#				
	24 h	12 h		24 h	12 h		24 h	12 h		24 h	12 h		24 h	12 h						
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
6/15	105	105	106	23	105	105	106	24	107	107	107	24	105	106	106	23	107	107	107	22
6/16	106	107	108	24	105	105	106	19	106	106	107	19	105	106	106	24	107	107	107	23
6/17	106	106	106	23	105	106	107	24	106	107	108	24	106	107	107	24	107	107	108	24
6/18	105	106	107	23	106	107	107	24	107	108	109	24	106	106	107	23	107	107	107	23
6/19	106	107	108	23	107	107	109	24	108	109	109	24	106	107	107	24	107	108	108	23
6/20	107	107	107	7	107	107	108	23	108	109	109	23	108	109	109	23	109	110	123	16
6/21	107	108	109	23	107	108	108	23	109	110	110	23	109	109	110	24	---	---	---	0
6/22	107	108	109	24	108	108	108	10	109	109	109	10	109	109	110	23	114	114	144	14
6/23	109	109	109	24	---	---	---	0	---	---	---	0	109	109	109	24	109	110	111	24
6/24	108	109	109	23	---	---	---	0	---	---	---	0	109	109	109	24	109	109	110	24
6/25	107	108	108	23	106	106	106	16	108	108	109	16	108	108	109	18	108	108	108	17
6/26	107	108	109	24	106	107	108	24	108	109	109	24	108	108	108	23	108	108	108	22
6/27	108	109	109	23	106	106	107	21	108	108	109	21	108	108	108	22	107	108	113	18
6/28	107	108	108	23	105	106	107	24	107	107	108	24	107	107	108	20	145	145	145	1

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

Date	Rock Island			Rock I. Tlwr			Wanapum			Wanapum Tlwr			Priest Rapids			#				
	24 h	12 h		24 h	12 h		24 h	12 h		24 h	12 h		24 h	12 h						
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
6/15	105	105	106	22	115	115	116	21	109	110	110	24	112	113	113	24	108	109	110	24
6/16	105	105	105	22	115	115	115	21	110	110	110	24	110	111	113	24	111	111	112	24
6/17	105	105	106	24	113	116	117	23	108	109	110	24	109	109	110	24	109	109	110	24
6/18	105	106	107	24	106	107	108	24	109	111	113	24	109	110	111	24	107	108	110	24
6/19	106	106	107	23	107	107	108	23	112	114	115	24	111	112	112	24	110	111	113	24
6/20	106	107	108	22	108	108	109	22	113	115	115	24	111	112	112	24	112	112	113	24
6/21	108	109	110	24	109	110	111	24	111	112	113	24	111	111	112	24	112	113	114	24
6/22	108	109	109	24	110	110	110	24	109	110	110	24	110	110	112	24	111	111	112	24
6/23	107	108	109	23	109	109	110	23	108	109	109	24	110	110	111	24	109	109	110	24
6/24	107	108	108	24	109	109	110	24	107	107	109	24	109	109	109	24	108	108	108	24
6/25	106	107	108	23	108	108	109	23	108	109	110	24	109	110	111	24	107	108	109	24
6/26	107	107	108	21	108	109	109	21	110	110	112	24	111	111	111	24	109	110	111	24
6/27	106	106	107	22	107	108	108	21	---	---	---	0	---	---	---	0	---	---	---	0
6/28	105	105	106	11	106	107	107	24	---	---	---	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		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		
6/15	115	117	118	24	109	109	110	24	105	107	108	24	---	---	---	0	103	104	106	23	
6/16	111	113	118	24	110	111	112	24	106	107	108	24	---	---	---	0	103	104	106	24	
6/17	109	109	109	24	109	110	110	23	105	106	107	24	102	102	103	24	102	103	105	24	
6/18	108	108	109	24	106	107	107	24	105	106	107	24	102	104	105	24	102	104	106	24	
6/19	110	111	113	24	107	107	108	24	105	106	107	24	103	104	105	24	103	104	106	24	
6/20	111	112	112	24	107	107	107	5	104	104	104	5	101	101	102	5	100	100	101	5	
6/21	111	112	112	24	109	110	110	21	104	106	107	24	103	104	106	24	103	105	107	24	
6/22	111	111	112	24	109	110	110	24	105	106	107	24	---	---	---	0	103	105	107	24	
6/23	110	111	116	24	108	109	110	24	105	106	108	24	---	---	---	0	103	105	106	24	
6/24	108	108	109	24	106	107	107	24	104	104	106	24	101	102	102	24	100	102	102	24	
6/25	107	108	110	24	103	104	105	24	104	105	106	24	102	104	105	24	101	103	105	24	
6/26	109	110	110	24	106	106	107	24	104	105	106	23	103	104	105	23	102	103	105	24	
6/27	---	---	---	0	106	107	107	24	104	105	108	23	102	103	104	24	101	102	103	24	
6/28	---	---	---	0	105	106	107	24	105	106	107	24	102	104	105	24	102	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	#	24 h		12 h		#
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		
6/15	103	104	106	24	100	100	101	24	100	100	100	24	100	100	101	24	101	101	102	24	
6/16	102	104	106	24	100	101	102	24	99	100	100	24	101	101	101	24	101	102	102	24	
6/17	101	103	104	24	100	100	100	24	100	100	101	24	101	101	101	24	102	102	102	24	
6/18	102	104	106	24	101	102	103	24	101	101	102	24	102	102	103	24	101	102	102	24	
6/19	102	105	106	24	106	109	112	24	102	103	103	24	108	112	115	24	102	103	104	24	
6/20	99	99	100	5	106	106	107	5	102	102	102	5	109	109	110	5	102	102	102	5	
6/21	103	105	107	24	111	114	117	24	104	105	111	23	109	111	114	24	103	105	112	24	
6/22	102	105	107	24	107	107	110	24	103	103	104	23	100	100	102	24	100	101	102	24	
6/23	102	104	105	24	106	107	108	24	102	103	104	24	101	102	103	24	101	101	101	24	
6/24	100	101	102	24	106	106	107	24	102	103	103	24	102	103	103	24	101	102	102	24	
6/25	101	104	106	22	106	108	110	24	103	104	105	24	104	107	109	24	101	103	104	24	
6/26	100	100	101	23	107	108	111	23	104	104	105	23	108	110	114	22	104	105	105	23	
6/27	100	101	103	23	104	105	106	24	103	103	105	24	108	109	110	24	103	104	105	24	
6/28	102	104	106	24	102	103	104	24	101	101	102	24	104	105	107	23	102	102	103	23	

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

Date	Lower Mon.			L. Mon. Tlwr				Ice Harbor				Ice Harbor Tlwr				McNary-Oregon				#	
	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h		#
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		
6/15	100	101	101	23	100	101	101	24	101	103	105	24	103	104	104	24	105	107	109	24	
6/16	101	102	102	24	101	102	102	24	103	104	105	24	104	105	105	24	108	110	110	24	
6/17	101	102	103	24	101	101	102	24	101	103	104	24	103	104	106	24	108	109	111	23	
6/18	103	104	109	24	102	102	103	24	101	102	104	24	103	104	105	24	108	110	112	24	
6/19	108	112	115	24	103	104	105	24	101	102	104	24	104	105	106	24	111	113	115	24	
6/20	112	112	113	5	102	102	102	5	101	101	103	5	103	103	103	5	112	112	113	5	
6/21	107	108	110	24	103	104	105	24	102	104	107	24	105	106	107	24	112	113	115	24	
6/22	107	108	110	24	104	105	105	24	103	105	107	22	105	106	106	22	111	112	113	24	
6/23	106	107	108	24	103	104	105	24	104	105	106	24	105	106	106	24	109	110	111	24	
6/24	105	105	105	24	102	103	103	24	103	104	105	24	105	106	107	24	108	108	109	24	
6/25	103	105	106	24	101	103	104	24	102	103	104	24	104	104	105	24	107	108	109	24	
6/26	105	106	107	24	102	103	104	24	103	104	105	24	105	105	107	24	108	109	111	24	
6/27	104	105	106	24	101	102	102	24	102	102	104	24	104	105	105	24	106	106	107	24	
6/28	102	102	103	24	100	101	102	23	101	102	103	24	103	104	104	24	104	106	106	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	High	24 h	12 h	High	24 h	12 h	High	24 h	12 h	High	24 h	12 h	High					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	AVG	High					
6/15	104	105	108	24	108	110	113	24	99	99	100	24	105	110	113	24	102	102	103	24
6/16	108	109	110	24	107	108	108	24	99	99	100	24	100	101	112	24	102	103	104	24
6/17	108	108	109	23	107	107	108	23	99	99	100	23	99	99	100	24	101	102	102	23
6/18	107	108	108	24	106	107	108	24	100	101	104	23	99	100	100	24	100	100	101	23
6/19	110	111	113	24	107	108	109	24	104	106	107	23	101	101	102	24	101	101	102	23
6/20	111	111	112	5	108	108	108	5	104	104	105	7	102	102	103	5	101	101	101	7
6/21	110	111	113	24	108	109	109	23	103	104	107	23	102	102	102	24	102	102	103	23
6/22	109	110	112	24	108	109	109	24	102	102	103	17	102	102	103	17	101	101	102	24
6/23	110	110	110	24	109	109	109	24	102	103	103	22	103	103	104	22	101	101	101	24
6/24	108	109	109	24	108	108	109	24	102	102	103	23	103	103	104	24	100	101	101	23
6/25	107	107	109	24	107	107	108	24	103	104	106	21	103	103	104	21	100	101	101	23
6/26	108	110	111	24	107	107	108	24	105	105	107	23	103	104	104	24	102	103	104	17
6/27	107	108	109	24	106	107	107	24	105	106	107	23	104	104	104	24	103	103	104	23
6/28	104	104	104	24	104	104	104	24	101	102	103	23	102	102	103	23	102	102	102	23

**Total Dissolved Gas Saturation Data at Lower Columbia River Sites**

Date	The Dalles Dnst			Bonneville			Warrendale			Skamania			Camas\Washugal			#				
	24 h	12 h	High	24 h	12 h	High	24 h	12 h	High	24 h	12 h	High	24 h	12 h	High					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	AVG	High					
6/15	109	110	110	24	104	104	104	24	112	113	114	24	108	109	110	24	109	110	111	23
6/16	103	105	107	24	103	104	104	24	106	108	111	24	104	105	108	24	108	109	110	24
6/17	100	101	103	24	103	103	104	23	104	104	105	23	103	104	104	23	104	105	106	24
6/18	100	100	101	24	103	103	103	23	103	104	104	23	103	104	104	23	104	106	106	24
6/19	100	102	102	24	102	102	103	23	103	103	104	23	103	103	103	23	105	106	107	24
6/20	100	100	101	4	102	102	102	7	102	102	103	7	102	102	103	7	104	104	105	4
6/21	103	103	103	23	102	103	103	23	103	103	103	23	103	103	103	23	104	106	107	24
6/22	102	102	103	23	102	102	103	24	102	102	103	24	102	102	103	24	104	105	105	24
6/23	101	101	102	24	101	102	102	24	102	102	103	24	102	102	102	24	103	104	105	24
6/24	100	100	101	24	100	101	101	23	101	102	102	23	101	101	101	23	102	102	103	24
6/25	100	101	101	24	100	100	101	23	101	102	103	23	100	101	101	23	102	103	104	24
6/26	102	103	103	24	101	101	101	23	101	102	103	23	101	101	102	23	102	102	103	24
6/27	103	103	104	24	101	101	101	23	101	102	103	23	101	102	103	23	101	102	102	23
6/28	102	102	102	24	100	101	101	23	101	101	101	23	101	101	101	23	101	102	103	24



## HATCHERY RELEASE SUMMARY LAST TWO WEEKS

Hatchery Release Summary									
From:	6/15/01		to		6/28/01				
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
<b>Nez Perce Tribe Total</b>					<b>1,024,000</b>				
NMFS	Lyons Ferry	CH0	FA	2001	7,500	06-01-01	07-06-01	Pittsburg Landing	Snake River
<b>NMFS Total</b>					<b>7,500</b>				
USFWS	L White Salmon	CH0	FA	2001	1,939,000	06-21-01	06-21-01	Little White Salmon H	Little White Salmon River
<b>USFWS Total</b>					<b>1,939,000</b>				
WDFW	Klickitat	CH0	FA	2001	2,300,000	05-29-01	06-15-01	Klickitat H	Klickitat River
WDFW	Priest Rapids	CH0	FA	2001	6,900,000	06-11-01	06-21-01	Priest Rapids H	Mid-Columbia River
WDFW	Ringold Springs	CH0	FA	2001	3,500,000	06-18-01	06-22-01	Ringold Springs H	Mid-Columbia River
WDFW	Wells	CH0	SU	2001	484,000	06-20-01	06-22-01	Wells H	Mid-Columbia River
<b>WDFW Total</b>					<b>13,184,000</b>				
<b>Grand Total</b>					<b>16,154,500</b>				

## HATCHERY RELEASE SUMMARY NEXT TWO WEEKS

Hatchery Release Summary									
From:	6/29/01		to		7/12/01				
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
<b>Nez Perce Tribe Total</b>					<b>24,000</b>				
NMFS	Lyons Ferry	CH0	FA	2001	7,500	06-01-01	07-06-01	Pittsburg Landing	Snake River
<b>NMFS Total</b>					<b>7,500</b>				
WDFW	Turtle Rock	CH0	SU	2001	450,000	06-29-01	06-29-01	Turtle Rock H	Mid-Columbia River
WDFW	Turtle Rock	CH0	SU	2001	600,000	06-29-01	06-29-01	Turtle Rock H	Mid-Columbia River
<b>WDFW Total</b>					<b>1,050,000</b>				
<b>Grand Total</b>					<b>1,081,500</b>				

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

## Two-Week Summary of Passage Indices

### COMBINED YEARLING CHINOOK

Date	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
06/15/2001 *	---	0	---	1	900	2,542	972	5	12,333	4,881	7,055
06/16/2001 *	---	---	---	---	400	952	582	11	7,100	6,010	3,576
06/17/2001	---	---	---	---	380	310	420	4	6,900	5,050	3,979
06/18/2001 *	---	---	---	---	500	281	227	4	5,700	1,515	1,499
06/19/2001	---	0	---	---	420	60	36	8	7,788	4,310	1,405
06/20/2001 *	---	12	---	0	84	75	24	14	10,900	7,950	1,768
06/21/2001 *	---	11	---	0	120	86	52	11	7,750	10,068	---
06/22/2001 *	---	---	---	0	80	129	150	18	5,113	8,750	1,535
06/23/2001	---	---	---	---	60	285	180	16	3,800	9,150	3,039
06/24/2001 *	---	---	---	---	240	531	102	6	4,500	4,770	2,264
06/25/2001	---	---	---	0	40	100	129	9	1,850	3,050	2,506
06/26/2001	---	---	---	0	40	241	180	11	2,800	2,150	2,712
06/27/2001	---	---	---	1	21	42	220	18	3,000	6,725	1,732
06/28/2001	---	---	---	1	20	31	180	55	2,900	5,700	1,113
06/29/2001	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>23</b>	<b>0</b>	<b>3</b>	<b>3,305</b>	<b>5,665</b>	<b>3,454</b>	<b>190</b>	<b>82,434</b>	<b>80,079</b>	<b>34,183</b>
<b># Days:</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>8</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>13</b>
<b>Average:</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>236</b>	<b>405</b>	<b>247</b>	<b>14</b>	<b>5,888</b>	<b>5,720</b>	<b>2,629</b>
<b>YTD</b>	<b>12,660</b>	<b>26,732</b>	<b>9,049</b>	<b>527</b>	<b>1,955,786</b>	<b>744,968</b>	<b>547,826</b>	<b>6,601</b>	<b>2,262,775</b>	<b>962,076</b>	<b>1,676,134</b>

### COMBINED SUBYEARLING CHINOOK

Date	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
06/15/2001 *	---	0	---	0	15,500	532	114	155	13,240	2,799	32,967
06/16/2001 *	---	---	---	---	6,600	990	186	35	38,800	4,295	25,355
06/17/2001	---	---	---	---	3,660	1,910	102	32	56,700	5,725	20,559
06/18/2001 *	---	---	---	---	4,560	1,070	42	75	26,900	4,500	13,905
06/19/2001	---	0	---	---	10,880	410	30	53	109,060	22,270	25,293
06/20/2001 *	---	0	---	2	11,740	215	12	43	196,000	22,200	27,505
06/21/2001 *	---	0	---	0	12,300	264	68	52	157,250	11,440	---
06/22/2001 *	---	---	---	1	4,940	724	144	51	87,281	8,150	22,667
06/23/2001	---	---	---	---	12,160	1,584	60	122	188,200	8,760	28,218
06/24/2001 *	---	---	---	---	22,080	2,180	96	87	292,500	26,670	19,988
06/25/2001	---	---	---	0	7,180	610	60	217	500,000	35,800	18,419
06/26/2001	---	---	---	1	14,940	3,137	352	387	448,400	15,050	14,915
06/27/2001	---	---	---	0	11,940	2,151	90	520	491,100	54,350	23,832
06/28/2001	---	---	---	0	10,240	780	50	246	356,800	31,500	22,039
06/29/2001	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>148,720</b>	<b>16,557</b>	<b>1,406</b>	<b>2,075</b>	<b>2,962,231</b>	<b>253,509</b>	<b>295,662</b>
<b># Days:</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>8</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>13</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>10,623</b>	<b>1,183</b>	<b>100</b>	<b>148</b>	<b>211,588</b>	<b>18,108</b>	<b>22,743</b>
<b>YTD</b>	<b>1</b>	<b>1</b>	<b>13</b>	<b>31</b>	<b>315,140</b>	<b>17,048</b>	<b>9,066</b>	<b>3,532</b>	<b>3,718,030</b>	<b>319,065</b>	<b>1,503,014</b>

\*The total, #days and average do not include the current day's data. \*See sampling comments. <http://www.fpc.org/current/daily/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)
06/15/2001 *	---	0	---	0	450	300	6	70	574	239	2,566
06/16/2001 *	---	---	---	---	350	140	6	78	2,500	171	1,734
06/17/2001	---	---	---	---	220	60	18	53	1,500	100	2,321
06/18/2001 *	---	---	---	---	300	80	18	35	800	30	1,085
06/19/2001	---	0	---	---	180	10	0	192	1,488	410	1,581
06/20/2001 *	---	0	---	0	40	10	0	114	2,400	1,750	1,441
06/21/2001 *	---	0	---	0	120	116	12	106	3,450	2,520	---
06/22/2001 *	---	---	---	0	460	308	36	169	700	600	1,122
06/23/2001	---	---	---	---	80	84	0	159	1,000	410	1,985
06/24/2001 *	---	---	---	---	120	0	0	103	100	240	2,135
06/25/2001	---	---	---	0	0	10	6	89	50	250	1,282
06/26/2001	---	---	---	0	380	100	20	86	100	200	590
06/27/2001	---	---	---	0	140	180	0	232	400	1,450	299
06/28/2001	---	---	---	0	60	80	0	278	1,400	450	390
06/29/2001	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,900</b>	<b>1,478</b>	<b>122</b>	<b>1,764</b>	<b>16,462</b>	<b>8,820</b>	<b>18,531</b>
<b># Days:</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>8</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>13</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>207</b>	<b>106</b>	<b>9</b>	<b>126</b>	<b>1,176</b>	<b>630</b>	<b>1,425</b>
<b>YTD</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>41,620</b>	<b>8,048</b>	<b>776</b>	<b>43,896</b>	<b>141,482</b>	<b>57,963</b>	<b>2,154,626</b>

## 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)
06/15/2001 *	---	0	---	29	10,000	1,345	708	72	1,978	375	2,181
06/16/2001 *	---	---	---	---	4,200	1,128	1,140	125	4,600	294	2,600
06/17/2001	---	---	---	---	4,700	1,098	768	103	2,100	250	3,150
06/18/2001 *	---	---	---	---	4,200	956	545	26	500	300	1,396
06/19/2001	---	0	---	---	2,500	537	888	133	2,496	570	1,874
06/20/2001 *	---	24	---	16	1,876	456	438	166	4,000	900	720
06/21/2001 *	---	20	---	10	4,240	3,236	1,416	78	2,550	836	---
06/22/2001 *	---	---	---	9	5,720	6,913	1,848	98	2,706	200	649
06/23/2001	---	---	---	---	4,940	5,075	600	77	1,400	460	1,116
06/24/2001 *	---	---	---	---	3,620	574	468	86	1,600	360	712
06/25/2001	---	---	---	76	860	262	122	56	500	100	991
06/26/2001	---	---	---	18	5,980	1,028	1,724	106	1,100	250	707
06/27/2001	---	---	---	19	4,219	1,486	320	151	1,400	2,100	896
06/28/2001	---	---	---	8	4,780	1,415	190	77	2,500	750	557
06/29/2001	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>44</b>	<b>0</b>	<b>185</b>	<b>61,835</b>	<b>25,509</b>	<b>11,175</b>	<b>1,354</b>	<b>29,430</b>	<b>7,745</b>	<b>17,549</b>
<b># Days:</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>8</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>13</b>
<b>Average:</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>23</b>	<b>4,417</b>	<b>1,822</b>	<b>798</b>	<b>97</b>	<b>2,102</b>	<b>553</b>	<b>1,350</b>
<b>YTD</b>	<b>4,567</b>	<b>34,103</b>	<b>4,357</b>	<b>5,373</b>	<b>5,443,516</b>	<b>787,231</b>	<b>321,113</b>	<b>17,280</b>	<b>555,265</b>	<b>187,100</b>	<b>482,264</b>

## 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)
06/15/2001 *	---	0	---	0	0	0	0	4	1,262	2,389	1,155
06/16/2001 *	---	---	---	---	50	0	0	1	1,300	3,056	2,059
06/17/2001	---	---	---	---	20	10	6	1	1,500	1,750	1,824
06/18/2001 *	---	---	---	---	20	10	0	0	700	2,715	1,292
06/19/2001	---	0	---	---	0	0	6	0	366	3,370	1,522
06/20/2001 *	---	0	---	0	20	10	0	1	2,200	12,100	1,768
06/21/2001 *	---	0	---	0	0	4	0	0	650	7,146	---
06/22/2001 *	---	---	---	0	0	0	6	0	1,000	1,750	6,257
06/23/2001	---	---	---	---	0	20	0	1	300	1,060	6,202
06/24/2001 *	---	---	---	---	0	0	0	0	300	510	1,811
06/25/2001	---	---	---	0	20	0	0	1	100	800	1,224
06/26/2001	---	---	---	0	0	10	0	4	200	850	707
06/27/2001	---	---	---	0	0	0	0	0	500	5,175	657
06/28/2001	---	---	---	0	0	20	0	1	400	1,350	390
06/29/2001	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>130</b>	<b>84</b>	<b>18</b>	<b>14</b>	<b>10,778</b>	<b>44,021</b>	<b>26,868</b>
<b># Days:</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>8</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>13</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>770</b>	<b>3,144</b>	<b>2,067</b>
<b>YTD</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,470</b>	<b>9,379</b>	<b>904</b>	<b>2,837</b>	<b>282,330</b>	<b>98,329</b>	<b>98,271</b>

#### 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: 06/28**

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	42,201	6,885	16,771	6,636	11,604	1,627	0	0	0	0	0	0
TDA	302,738	10,133	102,953	14,796	41,161	3,200	37,079	4,440	12,439	4,820	8,517	1,078	0	0	0	0	0	0
JDA	260,954	6,165	86,553	12,157	33,812	2,643	31,662	3,057	11,338	3,254	7,460	827	0	0	0	0	0	0
MCN	258,749	6,683	64,647	10,836	30,645	2,566	29,449	2,977	7,744	2,786	6,219	698	0	0	0	0	0	0
IHR	171,173	3,023	38,807	9,489	16,921	1,647	11,086	1,197	2,897	1,980	2,928	429	0	0	0	0	0	0
LMN	180,799	1,783	35,520	10,336	15,613	1,775	11,871	768	2,861	1,813	2,428	381	0	0	0	0	0	0
LGS	174,823	2,990	34,330	10,152	14,769	1,744	9,439	964	2,459	2,109	2,278	408	0	0	0	0	0	0
LWG	171,958	3,136	33,822	10,318	13,830	1,676	7,745	1,181	2,145	1,776	2,095	346	0	0	0	0	0	0
PRD	50,379	987	20,098	1,092	9,843	292	7,191	455	3,483	341	1,611	71	0	0	0	0	0	0
RIS	39,785	1,761	14,850	1,558	7,292	362	3,818	326	2,001	401	795	73	0	0	0	0	0	0
RRH	15,857	537	5,336	392	1,847	90	354	21	231	13	86	4	0	0	0	0	0	0
WEL	9,961	878	2,100	438	847	93	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	2	0	0	0	0	0	93,412	75,180	24,788	27,149	15,308	11,200	7,024
TDA	0	0	0	0	0	0	79,893	57,346	17,109	11,405	6,127	3,824	3,792
JDA	0	1	2	0	0	0	77,994	66,702	16,646	11,778	6,886	4,942	2,988
MCN	0	0	0	0	0	0	59,552	37,748	10,975	8,207	2,317	3,140	2,036
IHR	0	0	0	0	0	0	8	29	3	4,431	1,560	2,478	1,193
LMN	0	0	0	0	0	0	87	14	2	3,415	1,262	2,325	1,107
LGS	0	0	0	0	0	0	6	20	2	3,157	1,259	1,359	1,257
LWG	0	0	0	0	0	0	3	10	1	6,560	2,703	4,922	1,850
PRD	1	2	1	0	0	0	18,165	16,836	3,091	206	91	114	**
RIS	7	0	1	0	0	0	6,332	6,262	973	178	77	134	81*
RRH	0	0	7	0	0	0	793	1,120	162	120	100	98	67
WEL	0	0	0	0	0	0	994	1,496	187	44	29	44	26

LMN through 6/27; PRD through 6/26; RIS data from Chelan CO PUD's website and through 6/26.

RRH from COE and through 6/23. WEL data from Douglas CO PUD and through 6/26.

RRH missing counts for 6/13. Erroneous sockeye count at LMN on 6/23 and 6/24.

\* Wild Steelhead count from COE and through 6/23. \*\*PRD is not reporting Wild Steelhead numbers.

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

Wild steelhead numbers are included in the total.

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

Historic counts 1997 to present were obtained from the Corps of Engineers.

### Two Week Transportation Summary

		06/16/01 TO 06/29/01					
Site	Data	Species					Grand Total
		CH0	CH1	CO	SO	ST	
<b>LGR</b>	Sum of NumberCollected	148,720	3,305	2,900	130	61,835	216,890
	Sum of NumberBarged	173,787	5,540	3,773	230	79,421	262,751
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	91	3	4	0	89	187
<b>LGS</b>	Sum of NumberCollected	16,557	5,665	1,478	84	25,509	49,293
	Sum of NumberBarged	15,759	5,586	1,398	64	23,857	46,664
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	30	54	0	0	256	340
<b>LMN</b>	Sum of NumberCollected	1,406	3,454	122	18	11,175	16,175
	Sum of NumberBarged	1,724	4,364	153	18	13,962	20,221
	Sum of NumberBypassed	0	20	0	0	109	129
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	0	17	1	0	262	280
<b>MCN</b>	Sum of NumberCollected	2,960,530	80,849	16,388	10,616	29,176	3,097,559
	Sum of NumberBarged	2,627,523	50,867	11,744	6,843	18,819	2,715,796
	Sum of NumberBypassed	9,816	0	0	0	0	9,816
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	9,872	754	294	133	985	12,038
Total Sum of NumberCollected		3,127,213	93,273	20,888	10,848	127,695	3,379,917
Total Sum of NumberBarged		2,818,793	66,357	17,068	7,155	136,059	3,045,432
Total Sum of NumberBypassed		9,816	20	0	0	109	9,945
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		9,993	828	299	133	1,592	12,845

### YTD Transportation Summary

TO: 06/29/01

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	315,140	1,955,786	41,620	4,470	5,443,516	7,760,532
	Sum of NumberBarged	304,737	1,865,756	40,526	4,070	5,168,784	7,383,873
	Sum of NumberBypassed	0	79,198	976	221	265,274	345,669
	Sum of NumberTrucked	0	6,433	30	167	3,386	10,016
	Sum of TotalProjectMortalities	169	4,379	28	12	1,298	5,886
<b>LGS</b>	Sum of NumberCollected	17,052	747,090	8,068	9,381	788,899	1,570,490
	Sum of NumberBarged	16,252	741,152	7,809	9,300	778,628	1,553,141
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of NumberTrucked	0	898	0	28	336	1,262
	Sum of TotalProjectMortalities	32	3,085	29	23	4,071	7,240
<b>LMN</b>	Sum of NumberCollected	9,066	547,826	776	904	321,113	879,685
	Sum of NumberBarged	9,010	524,436	775	900	318,105	853,226
	Sum of NumberBypassed	0	16,478	0	0	511	16,989
	Sum of NumberTrucked	0	5,519	0	0	319	5,838
	Sum of TotalProjectMortalities	6	1,217	1	4	1,991	3,219
<b>MCN</b>	Sum of NumberCollected	3,670,827	2,189,546	135,825	266,862	545,743	6,808,803
	Sum of NumberBarged	2,909,522	986,910	71,815	125,263	226,834	4,320,344
	Sum of NumberBypassed	432,302	1,162,074	57,288	136,862	303,005	2,091,531
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	10,735	5,655	469	489	3,737	21,085
Total Sum of NumberCollected		4,012,085	5,440,248	186,289	281,617	7,099,271	17,019,510
Total Sum of NumberBarged		3,239,521	4,118,254	120,925	139,533	6,492,351	14,110,584
Total Sum of NumberBypassed		432,302	1,257,750	58,264	137,083	568,790	2,454,189
Total Sum of NumberTrucked		0	12,850	30	195	4,041	17,116
Total Sum of TotalProjectMortalities		10,942	14,336	527	528	11,097	37,430