Fish Passage Center

Weekly Report #01 - 15

June 22, 2001

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SIGNIFICANT POINTS

- **Mainstem migration flows continued to decline throughout the week, declining 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.**

SUMMARY OF EVENTS:

Water Supply: For the June 1 thorough June 19 period precipitation was above average for the Columbia River above Grand Coulee at 154% and 126% of average for the Columbia River above The Dalles. Precipitation for the Snake River above Ice Harbor was 77% of average. However, cumulative precipitation throughout the region continues to be below average for the water year to date. The June mid-month runoff volume forecast showed little difference from the June final forecast.

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 1280.4 on June 15 to elevation 1282.4 on June 18 and then drafted to elevation 1281.0 by June 21.

Reservoir	Elevations June 15 – June 21, 2001
Libby	2422.6 – 2425.62
Hungry Horse	3535.29 – 3538.20
Grand Coulee	1280.4 – 1281.0
Dworshak	1583.4 – 1585.39
Brownlee	2076.4 – 2076.1*

***as of June 20**

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 15 through June 21, weekly average flows at McNary Dam have been 125.8 kcfs with the lowest daily average flow occurring on June 17 of 92.6 kcfs and the highest daily average flow of 146.4 occurring on June 19.

Daily average flows at Lower Granite Dam have declined steadily through the week. The highest daily average flow of 37.8 kcfs occurred on June 15 and the lowest daily average flow of 27.8 occurred on June 21.The weekly average flow at Lower Granite Dam was 33.4 kcfs. The NMFS Biological Opiniion summer flow target flor Lower Granite Dam of 50 kcfs began on June 20. The summer flow target is not being met.The weekly average flow at Priest rapids was 97.2 kcfs with the highest daily average flow of 118.9 kcfs occurring on June 19 and the lowest daily average flow occurring on of 63.2 kcfs occurring on June 17.

Spill: The modified (600 MW) lower Columbia spill program ended at midnight of June 15th at The Dalles, Bonneville and John Day dams. Spill ended at McNary Dam on the morning of the 15th. A summer spill program continues to be discussed amongst the Federal Executive Committee. The spring spill program at Priest and Wanapum dams ended on June 15th and the summer spill program began at 0001 hours on the morning of the 16th.

Total dissolved gas readings at most monitors are 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 at any of the monitoring sites.

Smolt Monitoring Program. Collections of subyearling chinook at Lower Granite Dam dropped back to levels between 3,600 and 15,500 this week following last week's highs above 35,000 fish on June 13 and 14. Subyearling chinook originating above Lower Granite Dam began passing Little Goose Dam this week. Subyearling chinook passage indices at Rock Island Dam have again dropped to 50 or fewer fish this week following the June 14th peak of 205 fish. Since June 19, subyearling chinook passage indices at McNary and John Day dams have again risen to over 100,000 and 20,000 fish, respectively. There has been no change in daily passage index trend of subyearling chinook at Bonneville Dam again this week.

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 the spring 2001 migration season. Approximately 1.2 million subyearling fall chinook have been released from late May through June into the Snake and Clearwater rivers, with 107,000 released below Hells Canyon Dam by IDFG. The normal on-site release of subyearling fall chinook from Lyons Ferry Hatchery was transported by fish barge to the release site below Bonneville Dam. The approximate number of fall chinook loaded on the fish barge on 5/31 was 200,000 and would have been released June 1 or 2.

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. Release of subyearling summer chinook from Wells Hatchery was completed this week with Turtle Rock Hatchery tentatively scheduled to release their fish on July 5 and during the following two weeks. About 1.7 million subyearling fall chinook salmon were released from Priest Rapids Hatchery on June 11 with 1.3 million fish (each release day) scheduled on June 13, 15, 17, and the final one on June 19. Approximately 6.9 million will be released from Priest Rapids Hatchery at 47 fish per pound. Ringold Hatchery released subyearling fall chinook (3.5 million) from the hatchery ponds starting June 18 with all fish existing from the ponds by June 22. Release of subyearling fall chinook in the Yakama River basin has been completed.

Lower Columbia [McNary Dam to above Bonneville Dam]– Releases of yearling spring and fall chinook salmon, coho salmon, and steelhead are complete for the spring migration season. No summer chinook or sockeye salmon are released in this River Zone. About 10.6 million subyearling tule fall chinook were released from Spring Creek National Fish Hatchery in March and April. Releases of "Bright" subyearling fall chinook are completed in the Umatilla, Klickitat, and Little White Salmon rivers with the last group of about 2 million subyearling fall chinook released from Little White Salmon Hatchery on June 21st. Production of subyearling "bright" fall chinook, about 8.6 million, fell within the normal range of 8 to 10 million annually.

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, 33,198 adult summer chinook salmon were counted through June 21 and compares with the respective 2000 count and 10-year average count of 12,037 and 8,406. The 2001 count was about 2.6 times and 3.8 times greater than the respective Year 2000 and 10-year average. PIT tagged adult summer/fall chinook from the upper Columbia River and major tributaries (Wenatchee, Methow, Okanogan) and hatcheries continue passing Bonneville Dam and the lower Columbia River. At The Dalles Dam, 27,441 adult

summer chinook salmon have been counted (approx. 82.7% of the Bonneville count). Since there are no hatchery releases of summer chinook in the Bonneville Dam to McNary Dam Reach, the conversion rate should be fairly equal by the end of the summer migration. Currently, 17,414 adult summer chinook salmon have been counted at McNary Dam with 7,270 counted at Ice Harbor (Snake River) and more than 1,000 at Priest Rapids Dam.

Adult spring chinook counts are completed for the season in the Snake River and up through Rocky Reach Dam on the Mid-Columbia River. The preliminary spring chinook count at Lower Granite Dam was 171,958 through June 17 the final day for counting spring chinook. This compares with 33,822 for year 2000 and 13,830 for the 10-year average. Based on PIT tags at Lower Granite adult trap, "summer" chinook salmon from the South Fork Salmon River and other tributaries with "summer" chinook have dominated passage at the project for the past three to four weeks. An estimated 15,000 returning adult hatchery "summer chinook released in the South Fork Salmon River in migration year 1999 had passed Lower Granite Dam (based on PIT tag returns) prior to being officially called a summer chinook. In the Mid-Columbia River, about 50,000 adult spring chinook were counted at Priest Rapids Dam with 40,092 counted at Rock Island Dam. Based on the difference between the Rock Island count and Rocky Reach count (about 14,600); about 25,400 should have entered the Wenatchee River and tributaries. About 9,488 adult spring chinook have been counted at Wells Dam and would be expected to enter the Methow River and tributaries to spawn.

Steelhead passage at Bonneville Dam continued to rise with counts ranging between 703 and 1,343 per day, and averaged 1,061 per day through the week ending June 21. The count of steelhead at Bonneville Dam still indicates that the 2001 upstream migration season should be fairly strong as the 2001 count of 19,070 is double the year 2000 and 10-year average through June 21. Numbers are increasing daily at The Dalles, John Day, and McNary dams with about 50 to 100 being counted per day at Ice Harbor Dam. Steelhead counts at Mid-Columbia projects also began increasing through the week as a small number of the Wells stock steelhead began arriving at and passing Wells Dam.

Adult sockeye passage at Bonneville Dam ranged from a low of 2,918 to a high of 10,232 and averaged 6,923 for the week ending June 21. The count to date is 57,578 through June 21 and was about 1.4 times and 5.5 times greater than the respective 2000 count and 10-year average count. These sockeye continue passing the lower river projects and are steadily moving up into the Mid-Columbia River to their destination spawning sites in Lake Wenatchee and Lake Osoyoos basins. Only a small portion of the run will enter the Snake River to spawn. Only one or two sockeye were counted in the Snake River this week. The Compact Agencies will decide on Friday, June 22 (11 a.m. mtg) whether there will be a limited sockeye salmon fishery in the Columbia River.

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

	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/08/01	85.6	0.1	89.5	0.0	97.6	7.1	104.9	0.0	111.8	21.8	139.8	60.1	129.5	80.0
06/09/01	67.4	0.1	70.6	0.0	76.4	6.0	72.9	0.0	80.4	15.4	97.4	41.8	83.5	51.4
06/10/01	53.4	0.1	54.4	0.0	58.3	4.4	57.3	0.0	63.5	12.6	78.8	33.9	68.5	42.7
06/11/01	101.3	0.1	102.8	0.0	106.8	7.9	104.2	0.0	109.1	21.3	123.4	53.3	107.7	65.4
06/12/01	75.2	0.1	76.9	0.0	82.1	6.4	82.0	0.0	88.9	17.5	114.9	49.4	109.0	67.1
06/13/01	68.8	0.1	71.8	0.0	77.1	5.6	77.6	0.0	82.7	16.1	94.5	40.5	80.1	49.0
06/14/01	83.6	0.1	82.2	0.0	84.3	6.4	79.8	0.0	84.6	16.3	98.9	42.3	86.7	53.3
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

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

	Dworshak		Brownlee	Hells Canyon	Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
Date	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/08/01	1.6	0.0	9.0	13.2	45.7	0.0	46.7	0.0	49.5	0.0	49.3	0.0
06/09/01	1.7	0.0	8.9	8.8	45.7	0.0	44.5	0.0	45.4	0.0	43.5	0.0
06/10/01	1.7	0.0	8.7	7.6	38.2	0.0	39.4	0.0	41.5	0.0	40.3	0.0
06/11/01	1.7	0.0	9.0	8.1	39.0	0.0	40.2	0.0	41.3	0.0	41.3	0.0
06/12/01	1.6	0.0	8.9	7.8	39.4	0.0	40.1	0.0	43.0	0.0	41.2	0.0
06/13/01	1.7	0.0	8.9	7.8	41.6	0.0	41.0	0.0	41.6	0.0	41.6	0.0
06/14/01	1.7	0.0	9.4	7.9	38.2	0.0	40.0	0.0	41.2	0.0	41.0	0.0
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
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
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
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
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
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
06/21/01	1.7	0.0	---	---	27.8	0.0	26.8	1.5	27.1	0.0	26.8	0.0

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

	McNary		John Day		The Dalles		Bonneville			
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
06/08/01	159.3	7.4	160.9	23.6	156.5	46.1	160.3	49.7	9.1	94.8
06/09/01	148.3	7.4	140.7	20.2	136.2	41.1	163.6	49.3	9.2	98.3
06/10/01	111.6	7.4	109.8	15.4	110.4	33.1	117.3	49.3	0.7	60.6
06/11/01	129.0	7.3	133.1	17.4	137.2	40.7	147.1	49.3	2.3	88.8
06/12/01	166.3	7.2	167.7	20.8	162.7	47.6	166.3	49.1	8.7	101.8
06/13/01	124.8	7.4	132.8	17.5	134.6	40.8	159.1	49.1	3.9	99.4
06/14/01	123.9	7.4	120.6	15.0	115.3	34.0	133.4	48.7	0.7	77.3
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

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: Rank 1	Rank 2	Rank 3	Rank 4	Fish with L. Line GBT: Num Fish	Avg. Rank
Lower Granite Dam													
	06/12/01	Yearling Chinook	15	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/12/01	Steelhead	85	0	0	0.00%	0.00%	0	0	0	0	0	0
	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
Little Goose Dam													
	06/13/01	Yearling Chinook	76	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/13/01	Steelhead	24	0	0	0.00%	0.00%	0	0	0	0	0	0
	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
Lower Monumental Dam													
	06/11/01	Yearling Chinook	7	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/11/01	Steelhead	53	0	0	0.00%	0.00%	0	0	0	0	0	0
McNary Dam													
	06/11/01	Subyearling Chinook	91	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/11/01	Yearling Chinook	9	1	0	0.00%	0.00%	0	0	0	0	1	1
	06/14/01	Subyearling Chinook	31	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/14/01	Yearling Chinook	47	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/14/01	Steelhead	22	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/18/01	Subyearling Chinook	88	2	0	0.00%	0.00%	0	0	0	0	2	1
Bonneville Dam													
	06/12/01	Yearling Chinook	18	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/12/01	Steelhead	4	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/15/01	Subyearling Chinook	77	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/18/01	Subyearling Chinook	70	0	0	0.00%	0.00%	0	0	0	0	0	0
Rock Island Dam													
	06/12/01	Yearling Chinook	5	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/12/01	Steelhead	95	15	0	0.00%	0.00%	0	0	0	0	15	1
	06/14/01	Yearling Chinook	4	0	0	0.00%	0.00%	0	0	0	0	0	0
	06/14/01	Steelhead	34	2	0	0.00%	0.00%	0	0	0	0	2	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

	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		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/8	103	104	105	24	109	109	110	24	106	106	106	24	104	104	105	24	105	106	106	24
6/9	102	103	105	24	108	108	109	24	106	106	106	24	104	105	105	24	105	105	106	24
6/10	102	103	104	24	107	108	108	24	106	106	106	24	104	105	106	24	105	106	107	23
6/11	103	104	105	24	107	107	108	24	106	106	107	24	104	105	106	24	105	105	105	23
6/12	102	102	103	24	107	107	108	24	106	106	107	24	104	105	106	24	104	104	105	23
6/13	103	104	105	24	107	108	108	24	106	106	107	24	104	105	106	24	104	105	105	23
6/14	100	102	103	24	109	109	110	24	107	107	107	24	105	105	106	24	105	105	105	23
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

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

	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		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/8	106	107	108	24	106	106	107	23	107	108	108	23	107	107	107	16	108	108	108	16
6/9	107	108	109	23	105	106	106	21	107	107	108	21	108	108	108	23	108	108	108	23
6/10	106	106	107	23	105	105	105	24	106	107	107	24	107	107	108	22	108	108	109	21
6/11	106	106	107	23	105	106	106	23	107	108	108	23	107	108	108	23	108	108	108	20
6/12	105	106	107	23	104	105	105	24	106	107	107	24	106	106	106	21	106	106	107	21
6/13	105	105	106	23	104	104	105	20	106	106	107	20	105	106	106	23	106	106	107	20
6/14	105	105	106	21	105	105	106	22	106	107	108	22	106	107	107	20	107	107	107	17
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

Total Dissolved Gas Saturation at Mid Columbia River Sites

	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		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/8	107	107	108	16	115	115	116	16	113	114	115	24	114	114	114	24	114	114	115	24
6/9	107	107	108	23	115	116	117	22	113	113	114	24	114	114	115	24	113	114	114	24
6/10	107	107	108	20	116	116	118	20	112	112	112	24	113	113	114	24	112	112	113	24
6/11	107	108	108	22	116	116	118	18	111	111	112	24	113	115	117	24	111	112	112	24
6/12	105	106	107	23	115	115	116	20	110	110	111	24	113	113	115	24	111	111	113	23
6/13	105	106	106	20	114	115	116	20	110	111	111	24	112	113	114	24	111	113	115	24
6/14	106	106	106	17	114	115	116	13	109	110	110	24	112	113	114	24	110	111	111	24
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	---	---	---	0	---	---	---	0	---	---	---	0
6/19	106	106	107	23	107	107	108	23	---	---	---	0	---	---	---	0	---	---	---	0
6/20	106	107	108	22	108	108	109	22	---	---	---	0	---	---	---	0	---	---	---	0
6/21	108	109	110	24	109	110	111	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

	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		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/8	119	120	120	24	113	115	115	24	106	107	108	24	---	---	---	0	103	104	105	24
6/9	116	117	119	24	113	113	114	24	105	106	108	23	---	---	---	0	103	103	105	24
6/10	113	114	114	24	111	111	112	24	105	106	106	24	101	102	102	24	102	102	103	23
6/11	114	116	119	24	108	108	110	24	105	106	107	24	102	103	104	24	102	103	104	23
6/12	116	118	118	24	107	109	110	24	106	107	108	24	101	101	102	24	102	102	103	24
6/13	114	116	119	24	111	112	112	24	106	106	107	24	101	102	103	24	102	103	104	21
6/14	114	115	117	24	111	111	112	24	106	107	109	21	103	104	105	24	103	104	105	24
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	---	---	---	0	106	107	107	24	105	106	107	24	102	104	105	24	102	104	106	24
6/19	---	---	---	0	107	107	108	24	105	106	107	24	103	104	105	24	103	104	106	24
6/20	---	---	---	0	107	107	107	5	104	104	104	5	101	101	102	5	100	100	101	5
6/21	---	---	---	0	109	110	110	21	104	106	107	24	103	104	106	24	103	105	107	24

Total Dissolved Gas Saturation Data at Snake River Sites

	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		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/8	102	104	105	24	101	102	102	24	99	100	100	24	104	104	105	24	102	102	102	24
6/9	103	105	125	24	100	101	102	24	100	101	101	24	101	101	102	24	101	101	101	24
6/10	101	102	103	24	102	103	103	24	101	102	102	24	100	100	100	24	100	100	100	24
6/11	101	102	103	24	104	104	105	24	103	103	103	24	99	99	100	24	100	100	100	24
6/12	100	101	102	24	103	103	104	24	102	103	103	24	98	99	99	24	99	100	100	24
6/13	101	102	104	24	102	102	104	24	101	101	102	24	99	99	100	24	100	100	100	24
6/14	102	104	105	24	101	101	102	24	101	101	101	24	100	100	101	24	101	101	101	24
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

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

	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		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/8	103	104	107	24	102	102	103	24	103	105	108	23	104	105	105	24	110	112	114	24
6/9	101	102	104	24	101	101	101	23	101	102	103	24	104	105	105	24	110	111	113	24
6/10	102	102	102	24	101	102	102	24	101	101	103	24	104	105	105	24	109	110	110	24
6/11	102	102	102	24	102	102	103	24	100	101	101	24	103	104	105	24	109	109	110	24
6/12	101	101	102	24	101	101	101	24	99	99	99	24	103	103	104	24	107	107	108	24
6/13	100	101	102	24	100	101	101	24	99	99	100	24	102	103	104	24	106	107	109	24
6/14	101	102	103	24	100	101	102	24	100	102	103	24	103	104	104	24	107	108	109	24
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

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

	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		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
6/8	110	112	113	24	108	110	114	24	101	101	102	24	107	114	115	24	104	105	106	24
6/9	110	110	111	23	110	112	114	24	101	101	101	24	107	114	115	23	103	104	106	24
6/10	108	109	109	24	110	112	115	24	100	100	101	23	106	111	113	24	103	104	104	23
6/11	109	109	110	24	111	113	115	24	100	100	101	11	107	113	114	24	102	103	104	23
6/12	107	108	109	24	108	110	113	24	100	100	101	8	107	114	115	24	102	103	104	23
6/13	106	107	111	24	108	111	114	24	100	101	102	23	107	113	114	24	101	102	103	23
6/14	105	107	108	24	107	108	113	24	100	100	101	23	107	112	113	24	103	104	106	23
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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

	The Dalles Dnst				Bonneville				Warrendale				Skamania				Camas\Washugal			
	24 h	12 h		#	24 h	12 h		#	24h	12h		#	24h	12h		#	24h	12h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/8	112	113	113	24	109	110	111	24	115	115	116	23	111	112	113	24	113	115	116	24
6/9	111	112	113	24	108	108	108	23	112	114	114	24	110	110	111	24	110	111	113	24
6/10	110	111	111	24	107	107	108	23	115	115	116	23	111	112	113	23	110	112	113	24
6/11	110	111	111	24	106	107	107	23	113	114	115	23	109	111	111	23	110	111	113	24
6/12	109	110	111	24	104	104	105	23	111	112	113	23	107	107	109	23	107	107	108	24
6/13	110	110	110	24	104	105	106	23	112	112	113	23	107	108	108	23	108	110	112	24
6/14	109	110	111	24	104	104	105	21	112	112	114	16	108	109	109	21	109	110	114	23
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

HATCHERY RELEASE SUMMARY LAST 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	1,939,000	06-21-01	06-21-01	Little White Salmon H	Little White Salmon River
USFWS Total					**1,939,000**				
WDFW	Klickitat	CH0	FA	2001	2,300,000	05-29-01	06-15-01	Klickitat H	Klickitat River
WDFW	Priest Rapids	CH0	FA	2001	6,900,000	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
WDFW Total					**13,184,000**				
Grand Total					**16,154,500**				

HATCHERY RELEASE SUMMARY NEXT TWO WEEKS

Hatchery Release Summary
From: 6/22/01 to 7/5/01

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**				
WDFW	Ringold Springs	CH0	FA	2001	3,500,000	06-18-01	06-22-01	Ringold Springs H	Mid-Columbia River
WDFW	Turtle Rock	CH0	SU	2001	600,000	07-05-01	07-06-01	Turtle Rock H	Mid-Columbia River
WDFW	Wells	CH0	SU	2001	484,000	06-20-01	06-22-01	Wells H	Mid-Columbia River
WDFW Total					**4,584,000**				
Grand Total					**5,615,500**				

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)
06/08/2001	3	13	---	1	6,400	183	270	21	17,894	8,755	13,328
06/09/2001	---	---	---	---	2,700	627	210	22	22,321	19,903	14,252
06/10/2001	---	---	---	---	1,600	1,861	750	10	12,600	30,382	10,043
06/11/2001	---	20	---	1	1,300	3,287	537	11	10,782	10,557	8,421
06/12/2001 *	---	17	---	1	1,550	1,392	350	16	3,534	6,701	13,342
06/13/2001	---	23	---	1	1,695	545	390	14	11,424	12,572	15,125
06/14/2001	---	18	---	0	2,260	1,163	390	5	13,523	7,171	6,725
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	---	---	---	---	---	---	---	---	---	---	---
Total:	**3**	**114**	**0**	**5**	**20,309**	**13,364**	**5,210**	**156**	**150,549**	**135,825**	**100,518**
# Days:	**1**	**9**	**0**	**8**	**14**	**14**	**14**	**14**	**14**	**14**	**13**
Average:	**3**	**13**	**0**	**1**	**1,451**	**955**	**372**	**11**	**10,754**	**9,702**	**7,732**
YTD	**12,660**	**26,732**	**9,049**	**525**	**1,955,285**	**743,616**	**546,685**	**6,468**	**2,238,812**	**921,781**	**1,661,233**

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)
06/08/2001	0	0	---	1	17,550	4	440	26	20,053	1,230	23,373
06/09/2001	---	---	---	---	16,700	22	180	29	19,892	3,062	44,140
06/10/2001	---	---	---	---	14,100	4	150	33	17,300	4,505	38,917
06/11/2001	---	0	---	0	14,600	0	170	47	37,351	4,024	37,800
06/12/2001 *	---	0	---	0	17,000	0	120	109	33,916	4,525	33,665
06/13/2001	---	0	---	1	38,300	0	140	124	106,602	20,578	28,862
06/14/2001	---	0	---	0	35,400	451	108	205	39,769	7,745	37,534
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	---	---	---	---	---	---	---	---	---	---	---
Total:	**0**	**0**	**0**	**4**	**218,890**	**5,872**	**1,862**	**1,018**	**872,833**	**118,898**	**389,875**
# Days:	**1**	**9**	**0**	**8**	**14**	**14**	**14**	**14**	**14**	**14**	**13**
Average:	**0**	**0**	**0**	**1**	**15,635**	**419**	**133**	**73**	**62,345**	**8,493**	**29,990**
YTD	**1**	**1**	**13**	**29**	**231,660**	**5,885**	**8,214**	**1,902**	**1,353,749**	**138,785**	**1,352,936**

*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)
06/08/2001	0	0	---	0	2,700	180	30	343	17,625	176	12,749
06/09/2001	---	---	---	---	1,050	24	10	241	13,042	353	18,210
06/10/2001	---	---	---	---	500	102	0	174	2,300	347	11,456
06/11/2001	---	0	---	0	100	20	0	208	431	292	6,924
06/12/2001 *	---	0	---	0	150	20	10	291	300	69	8,067
06/13/2001	---	0	---	0	880	130	10	121	1,049	372	9,569
06/14/2001	---	0	---	0	940	202	12	68	2,204	115	5,161
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	---	---	---	---	---	---	---	---	---	---	---
Total:	**0**	**0**	**0**	**0**	**7,980**	**1,394**	**132**	**2,094**	**49,663**	**6,944**	**82,864**
# Days:	**1**	**9**	**0**	**8**	**14**	**14**	**14**	**14**	**14**	**14**	**13**
Average:	**0**	**0**	**0**	**0**	**570**	**100**	**9**	**150**	**3,547**	**496**	**6,374**
YTD	**0**	**0**	**0**	**6**	**40,380**	**7,286**	**714**	**42,780**	**137,732**	**54,363**	**2,146,823**

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)
06/08/2001	3	40	---	4	27,800	1,963	2,540	371	12,028	1,025	3,670
06/09/2001	---	---	---	---	16,900	3,466	1,590	176	15,251	530	5,146
06/10/2001	---	---	---	---	10,500	3,946	2,080	187	3,300	693	6,748
06/11/2001	---	19	---	23	2,050	1,397	1,173	161	2,848	292	2,058
06/12/2001 *	---	80	---	129	1,650	2,707	870	217	3,825	138	7,136
06/13/2001	---	61	---	51	9,505	1,807	1,330	108	5,856	676	9,878
06/14/2001	---	35	---	20	22,460	1,678	1,200	46	3,306	459	4,066
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	---	---	---	---	---	---	---	---	---	---	---
Total:	**3**	**279**	**0**	**282**	**122,581**	**25,720**	**16,686**	**1,969**	**64,638**	**7,338**	**50,623**
# Days:	**1**	**9**	**0**	**8**	**14**	**14**	**14**	**14**	**14**	**14**	**13**
Average:	**3**	**31**	**0**	**35**	**8,756**	**1,837**	**1,192**	**141**	**4,617**	**524**	**3,894**
YTD	**4,567**	**34,080**	**4,357**	**5,243**	**5,413,397**	**770,538**	**315,841**	**16,629**	**544,059**	**182,880**	**476,636**

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)
06/08/2001	0	0	---	0	50	4	0	12	5,625	4,158	2,125
06/09/2001	---	---	---	---	0	0	10	3	6,631	9,068	7,126
06/10/2001	---	---	---	---	0	2	0	8	4,600	3,985	7,375
06/11/2001	---	0	---	0	150	20	10	6	1,295	1,225	936
06/12/2001 *	---	0	---	0	50	0	0	0	900	1,485	4,964
06/13/2001	---	0	---	0	40	10	0	3	2,320	3,031	5,402
06/14/2001	---	0	---	0	100	38	0	3	1,402	2,983	2,033
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	---	---	---	---	---	---	---	---	---	---	---
Total:	**0**	**0**	**0**	**0**	**500**	**108**	**32**	**42**	**30,751**	**58,461**	**39,581**
# Days:	**1**	**9**	**0**	**8**	**14**	**14**	**14**	**14**	**14**	**14**	**13**
Average:	**0**	**0**	**0**	**0**	**36**	**8**	**2**	**3**	**2,197**	**4,176**	**3,045**
YTD	**24**	**0**	**0**	**0**	**4,450**	**9,329**	**898**	**2,830**	**279,530**	**86,834**	**81,023**

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: 06/21

	Spring Chinook						Summer Chinook						Fall Chinook					
	2001		2000		10-Yr Avg.		2001		2000		10-Yr Avg.		2001		2000		10-Yr Avg.	
DAM	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	33,198	4,899	12,037	4,802	8,406	1,106	0	0	0	0	0	0
TDA	302,738	10,133	102,953	14,796	41,161	3,200	27,441	3,176	8,123	3,304	5,634	708	0	0	0	0	0	0
JDA	260,954	6,165	86,553	12,157	33,812	2,643	21,209	1,706	7,093	2,157	4,458	500	0	0	0	0	0	0
MCN	258,749	6,683	64,647	10,836	30,645	2,566	17,414	1,501	4,329	1,642	3,524	413	0	0	0	0	0	0
IHR	171,173	3,023	38,807	9,489	16,921	1,647	7,270	595	2,032	1,024	1,865	236	0	0	0	0	0	0
LMN	180,799	1,783	35,520	10,336	15,613	1,755	7,262	163	1,950	1,052	1,468	211	0	0	0	0	0	0
LGS	173,705	2,947	34,330	10,152	14,769	1,744	4,728	340	1,481	963	1,239	179	0	0	0	0	0	0
LWG	171,958	3,136	33,822	10,318	13,830	1,676	2,833	279	887	624	794	117	0	0	0	0	0	0
PRD	50,379	987	20,098	1,092	9,843	292	1,334	144	1,211	169	514	32	0	0	0	0	0	0
RIS	40,092	1,792	14,850	1,558	7,292	362	219	25	334	58	124	13	0	0	0	0	0	0
RRH	14,658	534	5,336	392	1,847	90	0	0	0	0	0	0	0	0	0	0	0	0
WEL	9,488	765	1,867	390	790	84	0	0	0	0	0	0	0	0	0	0	0	0

	Coho						Sockeye			Steelhead			
	2001		2000		10-Yr Avg.				10-Yr			10-Yr	Wild
DAM	Adult	Jack	Adult	Jack	Adult	Jack	2001	2000	Avg.	2001	2000	Avg.	2001
BON	1	0	0	0	0	0	57,578	42,068	10,551	19,070	9,359	8,115	4,345
TDA	0	0	0	0	0	0	41,425	23,382	5,625	5,970	2,682	2,540	1,926
JDA	0	1	2	0	0	0	31,391	18,693	4,128	6,606	4,627	3,991	2,018
MCN	0	0	0	0	0	0	12,612	9,642	2,249	4,228	1,431	2,618	1,153
IHR	0	0	0	0	0	0	1	1	0	2,371	1,138	2,308	845
LMN	0	0	0	0	0	0	0	0	0	2,401	1,086	2,240	976
LGS	0	0	0	0	0	0	0	0	0	2,358	1,089	1,287	1,096
LWG	0	0	0	0	0	0	0	0	0	6,057	2,589	4,881	1,733
PRD	1	1	0	0	0	0	1,587	3,002	497	52	51	87	**
RIS	7	0	1	0	0	0	367	736	106	103	43	113	45*
RRH	0	0	7	0	0	0	183	341	53	132	93	93	53*
WEL	0	0	0	0	0	0	61	177	22	14	26	38	22

LGS is missing 6/9 count data.
Correction required for JDA (6/13) and TDA (6/15) ST counts
PRD through 6/19, RIS, RRH data from Chelan CO PUD's website and through 6/19.
WEL data from Douglas CO PUD and through 6/20.
These numbers were collected from the COE's Running Sums text files.
Wild steelhead numbers are included in the total.
* Wild Steelhead count from COE and through 6/13. **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

06/09/01 TO 06/22/01

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	218,890	20,309	7,980	500	122,581	370,260
	Sum of NumberBarged	183,402	18,007	7,037	400	99,226	308,072
	Sum of NumberBypassed	0	0	0	0	800	800
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	96	44	6	0	107	253
LGS	Sum of NumberCollected	5,872	13,364	1,394	108	25,720	46,458
	Sum of NumberBarged	5,418	10,199	1,042	60	19,192	35,911
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	4	90	0	0	413	507
LMN	Sum of NumberCollected	1,862	5,210	132	32	16,686	23,922
	Sum of NumberBarged	1,859	5,160	131	31	16,220	23,401
	Sum of NumberBypassed	0	12	0	0	130	142
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	3	38	1	1	336	379
MCN	Sum of NumberCollected	854,313	144,347	48,194	29,571	62,011	1,138,436
	Sum of NumberBarged	193,300	53,169	24,903	14,496	26,107	311,975
	Sum of NumberBypassed	151,355	39,909	13,118	9,211	21,564	235,157
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	1,408	892	232	192	493	3,217
Total Sum of NumberCollected		1,080,937	183,230	57,700	30,211	226,998	1,579,076
Total Sum of NumberBarged		383,979	86,535	33,113	14,987	160,745	679,359
Total Sum of NumberBypassed		151,355	39,921	13,118	9,211	22,494	236,099
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		1,511	1,064	239	193	1,349	4,356

YTD Transportation Summary

TO: 06/22/01

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	231,660	1,955,285	40,380	4,450	5,413,397	7,645,172
	Sum of NumberBarged	196,167	1,863,018	38,413	3,950	5,121,051	7,222,599
	Sum of NumberBypassed	0	79,197	976	221	265,274	345,668
	Sum of NumberTrucked	0	6,433	30	167	3,386	10,016
	Sum of TotalProjectMortalities	101	4,378	24	12	1,237	5,752
LGS	Sum of NumberCollected	5,886	745,731	7,306	9,331	772,146	1,540,400
	Sum of NumberBarged	5,431	738,698	6,925	9,232	761,768	1,522,054
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of NumberTrucked	0	898	0	28	336	1,262
	Sum of TotalProjectMortalities	5	3,060	29	23	3,927	7,044
LMN	Sum of NumberCollected	8,214	546,685	714	898	315,841	872,352
	Sum of NumberBarged	8,208	523,493	713	894	313,143	846,451
	Sum of NumberBypassed	0	16,463	0	0	479	16,942
	Sum of NumberTrucked	0	5,519	0	0	319	5,838
	Sum of TotalProjectMortalities	6	1,210	1	4	1,900	3,121
MCN	Sum of NumberCollected	1,306,546	2,165,583	132,075	264,062	534,537	4,402,803
	Sum of NumberBarged	404,129	955,533	64,815	121,873	215,097	1,761,447
	Sum of NumberBypassed	392,074	1,154,304	56,998	136,080	302,520	2,041,976
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	2,093	5,369	321	437	3,073	11,293
Total Sum of NumberCollected		1,552,306	5,413,284	180,475	278,741	7,035,921	14,460,727
Total Sum of NumberBarged		613,935	4,080,742	110,866	135,949	6,411,059	11,352,551
Total Sum of NumberBypassed		392,074	1,249,964	57,974	136,301	568,273	2,404,586
Total Sum of NumberTrucked		0	12,850	30	195	4,041	17,116
Total Sum of TotalProjectMortalities		2,205	14,017	375	476	10,137	27,210