



Fish Passage Center

Weekly Report #04 - 23

August 13, 2004

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Highlights:

- Flows have averaged 35.4 Kcfs at Lower Granite over the summer flow period and the flow objective is 50 Kcfs.
- Flows have averaged 135.7 Kcfs at McNary over the summer season and the flow objective is 200Kcfs.

Summary of Events:

Water Supply: Columbia Basin precipitation throughout the first nine days of August has generally been slightly above average in most basins. Over the entire water year, precipitation remains slightly below average in most basins.

Table 1. Summary of August precipitation and cumulative October through August precipitation with respect to average (1971-2000), at select locations within the Columbia and Snake River Basins.

Location	Water Year 2004		Water Year 2004 October 1, 2003 to August 9, 2004	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.59	120	21.20	93
Snake River Above Ice Harbor	0.16	62	15.23	94
Columbia Above The Dalles	0.44	126	20.40	96
Kootenai	0.63	127	21.39	91
Clark Fork	0.37	97	14.43	91
Flathead	0.61	130	19.08	91
Pend Oreille/Spokane	0.69	188	27.21	94
Central Washington	0.41	373	8.01	95
Snake River Plain	0.03	16	8.66	84
Salmon/Boise/Payette	0.11	56	16.9	91
Clearwater	0.29	84	29.11	102
SW Washington Cascades/Cowlitz	0.83	186	59.33	88
Willamette Valley	0.23	73	52.58	92

The summer Flow Objective period started in the Lower Snake River on June 21st, 2004 and will end on August 31st, 2004. Flows have averaged 35.4 Kcfs over the summer flow period; the flow objective is 50 Kcfs. Flows at Lower Granite have averaged 26.6 Kcfs over the last week.

The summer flow period at McNary began on July 1st with a flow objective of 200 Kcfs. Flows have averaged 135.7 Kcfs at McNary over the summer season and 115.9 Kcfs last week.

Grand Coulee is currently at an elevation of 1280.9 feet and has drafted 2.6 feet over the past week. The summer draft limit at Grand Coulee is 1278 feet.

The Libby Reservoir has released a constant 12.5 Kcfs for the entire month of July and most of the month of August. Outflows at Libby were reduced to 10 Kcfs on August 12th, 2004 between the hours of 7 AM to 2 PM to repair a transmission line, flows at Libby are currently back at 12.5 Kcfs. Libby is currently at an elevation of 2446.7 feet. Current projections have Libby drafting to an elevation of 2441.0 feet on August 31st, 2004, which is 86 Kaf of storage above 2439 feet.

The Hungry Horse Reservoir has been drafting for summer flow augmentation and is currently at an elevation of 3548.3 feet. Outflows at Hungry Horse have ranged between 5.2 and 5.9 Kcfs over the last week. Current projections have Hungry Horse drafting to an elevation of 3541.6 feet on August 31st, 2004, which is 36.9 Kaf of storage above 3540.0 feet.

The Dworshak Reservoir is currently at an elevation of 1555.3 feet and has been drafting for flow and temperature augmentation in the Lower Snake River. Outflows at Dworshak have been approximately 10 Kcfs over the last four days with a temperature between 45-46°F.

The Brownlee Reservoir is currently at an elevation of 2060.9 feet and has drafted 1.7 feet over the last week. Outflows to Brownlee have ranged between 8.5 and 12.2 Kcfs over the last week.

Spill: Spill at Dworshak ended on August 8, as augmentation flows were reduced to less than powerhouse capacity. There has been no spill at Lower Granite, Little Goose or Lower Monumental dams on the Snake River to facilitate the present policy of maximization of fall chinook juvenile transportation. Summer spill for fish passage is continuing at Ice Harbor Dam, with spill averaging 64% of daily average flow from August 6 through August 12. During the same time period, Biological Opinion summer spill continued at the Lower Columbia projects with spill averaging 30% of daily average flow at John Day dam, 37% at The Dalles Dam and 63% at Bonneville Dam. There is no summer spill program at McNary Dam as the present Biological Opinion focuses on the maximization of transportation of fall chinook juveniles.

The percentage of water spilled at Bonneville Dam remains increased this past week. This, however, does not represent an increase in spill volumes, but is necessary due to a discrepancy identified by the COE last week in the calibration of the spill gate openings. This incorrect calibration at Bonneville Lock and Dam caused less water to be released than reported. Because of this calibration error the daytime spill quantity reported at Bonneville Dam will continue to be approximately 85 kcfs, while the actual spill quantity is about 75 kcfs. This discrepancy in actual and reported spill quantities will continue until a plan for calibration is prepared by the COE.

Gas bubble trauma monitoring is continuing at Rock Island, and at McNary and Bonneville dams. One fish was observed with minor signs of gas bubble trauma at Rock Island Dam over the past week.

Smolt Monitoring: Subyearling chinook indices decreased at most sites in the Snake River and Lower Columbia over the past week compared to the previous week.

At Lower Granite Dam, subyearling chinook indices were down from an average index of 1,100 per day last week to 730 per day this week. Of the wild subyearling PIT-tags passing Lower Granite Dam, Snake River origin tagged fish passed in relatively small numbers this week with 1 detected in the past week down from 3 the previous week for a total of 32% of released tags detected to date. There were 20 detections of subyearlings marked in the Clearwater River compared to 23 last week, representing 6% of total tags detected to date at Lower Granite Dam. Little Goose and Lower Monumental dams also had drops in subyearling chinook numbers over the past week, with the index averaging 860 per day at Little Goose, and 180 per day at Lower Monumental compared to 660 and 220 last week, respectively.

At Rock Island Dam the numbers of subyearling chinook decreased, with the index averaging 80 per day this week compared to 100 last week. In the Lower Columbia, at McNary Dam, based on full samples taken every day, subyearling chinook indices averaged 3,400 per day this week compared to nearly 23,000 per day last week. At John Day Dam the subyearling average index was 1,400 per day this week compared to 11,000 last week, while at Bonneville Dam the average index was 1,800 compared to 5,000 last week.

Hatchery Releases - For the 2004 juvenile migration, about 83.3 million yearling chinook, coho, steelhead, sockeye, and subyearling chinook salmon were released from Columbia River Basin hatcheries above Bonneville Dam. Salmon species released into streams or lakes (sockeye) during this summer and fall, 2004, normally reside in the streams or rivers through the winter and then migrate to the ocean the following spring (2005). Hatchery release numbers will be updated and finalized through the year; however, the numbers below represent most of the hatchery releases for the 2004 migration season.

2004 Hatchery Zone Report

Race/Species	Friday 12-August-2004			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	2,580,499	12,511,808	21,958,796	37,051,103
Spring Chinook	10,487,462	3,975,400	5,226,390	19,689,252
Summer Chinook	2,374,050	3,125,983		5,500,033
Coho	1,367,111	2,387,178	5,959,828	9,714,117
Sockeye	76,927	315,790		392,717
Summer Steelhead	9,214,209	1,184,775	454,392	10,848,923
Winter Steelhead			79,070	79,070
Total	26,100,258	23,500,934	33,674,023	83,275,215

Adult Fish Passage - At Bonneville Dam, final count of summer chinook for the 2004 season was 92,143 through July 31. This total was less than recorded during the preceding two years, but was near double the 10-year average. Summer chinook passage at projects above McNary Dam totaled 66,837 at Priest Rapids Dam in the Mid-Columbia River and about 12,600 adult chinook at Ice Harbor Dam for the Snake River portion. Daily counts of adult summer chinook at Ice Harbor Dam averaged only 14 per day, while adult summer chinook counts at Priest Rapids Dam averaged 352 per day for the week ending August 12. For the season, chinook passage into the Snake River is reduced from 2003 (about 61% of 2003 count) but about 1.4 times greater than the 10-year average. Mid-Columbia passage of adult summer chinook in 2004 is returning at about 81% of the 2003 count at Priest Rapids Dam, but about double the 10-year average count for the season. Upstream at Rock Island Dam, the count now exceeds 59,600 with almost 39,000 above Rocky Reach Dam. A portion of the summer chinook is destined for the Wenatchee River, and these fish entering the Wenatchee River should be fairly close to the difference between the Rock Island and Rocky Reach count. Summer chinook above Rocky Reach will be entering River systems such as the Entiat, Methow, and Okanogan with the major hatchery of return being Wells Hatchery. In

the Snake River, most of the summer chinook are bound for the Salmon River, principally the S. Fork Salmon and the Pahsimeroi rivers.

On August 1st, the counts of chinook changed to "fall chinook" and will be designated as such through the remainder of the fish counting season at Bonneville Dam. Through August 12, adult fall chinook appear to be passing satisfactorily as 7,930 have been counted compared to 7,920 in 2003 and 5,246 for the 10-year average. The TAC projects another excellent run of fall chinook for the 2004 season and although this is just a start of the run, it has at least started on the right foot, despite warm water temperatures and other factors that might reduce or delay the run.

Steelhead passage at Bonneville Dam have averaged 5,800 per day for the week ending on August 12. Steelhead counts passing upstream of The Dalles Dam ranged from 200 to 700 per day with the season total at 38,907. At Bonneville, the steelhead run totals 153,236 through August 12, and this count was about 87% and 113% of the respective 2003 and 10-year average. Steelhead passage in the Snake River decreased from the preceding week with daily counts that were between 90 and 200 at Ice Harbor Dam, and a season total of 14,551 through August 12. In the Mid-Columbia River, steelhead counts at Priest Rapids Dam averaged 104 per day, a decrease from the previous week. The total steelhead count is about 5,300 for the season. Warm water temperatures remain present in the lower Columbia River, and a portion of the fish bound for upriver sites are residing in some of the backwater areas and tributaries in the Bonneville pool as these rivers and streams have cooler water temperatures than the mainstem Columbia River. Once past The Dalles Dam, additional steelhead hold in the Deschutes River as it also has cooler water temperatures than the main Columbia River. Water temperatures measured at Snake and Columbia River sites are near the 70°F point, not great temperatures for salmon species.

Sockeye passage is winding down in the upper Columbia as Rock Island and Rocky Reach dams have about 30 or fewer sockeye per day now passing the projects. The Rock Island count was

near 106,500 with about 81,000 counted upstream at Rocky Reach Dam. To date, at least 78% of the sockeye run will be bound for the Okanogan River system with the remaining total (currently 22%) to the Wenatchee River system. Overall, the 2004 count of adult sockeye will be highest count recorded since 1985 at Bonneville Dam with the majority of these fish migrating to the Mid- and Upper-Columbia. This year's count of 110 sockeye at Lower Granite Dam is one of the higher totals in recent years. These Snake River sockeye are mainly destined for several of the lakes in the upper Salmon River basin.

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
07/30/04	104.6	0.2	105.6	0.0	105.8	7.3	105.4	8.5	106.6	20.8	117.5	37.7	111.3	60.0
07/31/04	103.8	0.2	99.6	0.0	101.2	7.1	103.3	6.6	107.0	16.4	109.0	35.1	103.4	56.4
08/01/04	76.1	0.2	78.7	0.0	81.8	6.3	76.7	5.7	77.8	14.8	80.1	25.5	77.6	41.8
08/02/04	77.6	0.2	84.0	0.0	85.3	6.3	86.1	8.5	90.4	23.6	106.1	34.1	97.9	53.0
08/03/04	89.6	0.1	88.8	0.0	90.6	6.6	88.1	8.3	87.3	25.9	87.7	28.0	93.5	50.6
08/04/04	96.3	0.1	93.5	0.0	95.7	7.0	93.7	0.0	96.2	17.3	105.9	33.9	90.2	49.0
08/05/04	72.3	0.1	77.8	0.0	76.0	6.0	78.1	0.0	79.8	0.0	91.4	29.1	87.8	47.4
08/06/04	57.3	0.1	59.5	0.0	62.3	5.8	65.8	0.0	69.0	0.0	81.1	1.8	83.4	44.8
08/07/04	54.8	0.2	54.2	0.0	56.0	5.4	53.0	0.0	53.5	0.0	46.0	1.8	44.7	0.8
08/08/04	64.4	0.1	61.8	0.0	65.1	5.3	60.8	0.0	62.4	0.0	65.6	1.9	61.6	1.1
08/09/04	99.3	0.1	100.0	0.0	101.3	7.3	95.0	0.0	95.2	0.0	92.2	1.9	85.1	1.1
08/10/04	101.8	0.1	107.1	0.0	109.7	7.7	106.7	5.2	105.8	0.0	112.8	4.7	110.0	3.1
08/11/04	104.3	0.1	104.9	0.0	108.7	7.5	107.2	9.0	107.3	0.0	119.6	1.8	121.4	0.9
08/12/04	101.9	0.1	102.6	0.0	104.1	7.5	105.3	9.6	108.8	0.0	108.3	1.9	103.4	1.0

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

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
07/30/04	11.6	1.8	7.8	8.7	29.4	0.0	29.1	0.0	31.1	0.0	33.6	26.0
07/31/04	11.6	1.8	7.7	8.5	26.6	0.0	26.9	0.0	26.1	0.0	26.3	18.7
08/01/04	11.6	1.8	7.6	9.5	26.6	0.0	26.4	0.0	27.0	0.0	27.8	17.4
08/02/04	11.6	1.8	6.9	10.9	27.6	0.0	27.5	0.0	27.1	0.0	28.5	18.8
08/03/04	11.6	1.8	8.6	8.2	28.9	0.0	28.2	0.0	28.8	0.0	29.7	20.5
08/04/04	11.5	1.7	7.4	11.2	26.3	0.0	26.7	0.0	26.8	0.0	26.4	15.4
08/05/04	11.6	1.7	8.0	11.1	29.5	0.2	29.1	0.0	29.5	0.0	30.2	20.7
08/06/04	11.5	1.6	7.8	8.7	28.0	0.0	27.6	0.0	27.2	0.0	26.2	15.7
08/07/04	11.5	1.6	7.7	8.5	25.3	0.0	25.9	0.0	26.5	0.0	27.9	18.4
08/08/04	11.4	1.6	7.3	9.1	25.7	0.0	25.7	0.0	25.8	0.0	26.7	17.5
08/09/04	9.9	0.0	8.2	10.6	25.5	0.0	26.1	0.0	26.8	0.0	26.8	17.0
08/10/04	10.0	0.0	8.2	11.4	25.8	0.0	27.4	0.0	28.9	0.0	30.1	21.0
08/11/04	10.0	0.0	8.9	13.1	26.8	0.0	25.9	0.0	25.0	0.0	24.9	16.0
08/12/04	10.1	0.0	---	---	28.8	0.0	29.1	0.0	29.7	0.0	28.9	18.0

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

Date	McNary		John Day		The Dalles		Bonneville			
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
07/30/04	149.9	0.0	150.7	45.3	146.4	58.0	172.0	76.4	2.1	82.2
07/31/04	144.4	0.0	143.7	43.1	143.4	56.1	168.9	88.8	5.6	63.1
08/01/04	114.2	0.0	106.4	32.3	108.2	44.2	145.5	94.2	0.0	39.9
08/02/04	118.7	0.0	122.7	36.8	123.1	49.5	142.8	88.7	0.0	42.7
08/03/04	117.8	0.0	117.4	35.3	118.7	47.2	144.4	89.7	0.0	43.2
08/04/04	116.4	0.0	121.6	36.1	123.0	49.1	157.4	92.8	6.3	46.9
08/05/04	120.8	0.0	119.0	35.7	120.7	47.8	144.7	89.3	0.4	43.6
08/06/04	105.7	0.0	97.6	29.5	96.9	38.5	129.5	87.8	0.0	30.4
08/07/04	100.6	0.0	101.2	30.3	103.1	40.6	126.6	84.7	0.0	30.5
08/08/04	74.3	0.0	76.7	22.9	87.0	27.5	124.3	82.1	0.0	30.8
08/09/04	113.5	0.0	109.7	32.7	104.2	34.8	123.8	81.2	0.0	31.2
08/10/04	125.8	0.0	124.8	37.9	122.4	44.5	141.8	87.2	0.0	42.9
08/11/04	155.1	0.0	154.4	45.7	156.4	61.8	181.3	97.6	1.8	70.4
08/12/04	136.1	0.0	138.0	41.9	136.2	54.5	162.2	95.2	0.0	55.8

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
McNary Dam											
	08/05/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/09/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/12/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	08/03/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/07/04	Chinook + Steelhead	54	0	0	0.00%	0.00%	0	0	0	0
	08/10/04	Chinook + Steelhead	95	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	08/09/04	Chinook + Steelhead	27	0	0	0.00%	0.00%	0	0	0	0
	08/12/04	Chinook + Steelhead	62	1	1	1.61%	0.00%	1	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	<u>Hungry H. Dnst</u>			<u>Boundary</u>			<u>Grand Coulee</u>			<u>Grand C. Tlwr</u>			<u>Chief Joseph</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>		
	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>
7/30	---	---	---	0	117	118	119	24	111	111	112	24	111	111	112	24	111	111	111	24
7/31	---	---	---	0	118	118	118	24	110	111	112	24	111	112	113	24	111	111	112	24
8/1	---	---	---	0	118	118	119	24	110	110	111	24	111	111	114	24	111	111	112	23
8/2	---	---	---	0	118	119	119	24	110	110	111	24	109	110	111	24	111	111	112	23
8/3	---	---	---	0	116	117	119	23	108	109	110	23	109	110	110	23	110	111	111	23
8/4	---	---	---	0	116	117	118	24	107	108	109	24	110	111	113	24	110	111	111	23
8/5	---	---	---	0	114	115	118	24	108	109	110	24	108	109	109	24	110	110	110	23
8/6	---	---	---	0	112	115	118	24	105	107	109	23	108	109	110	24	109	109	110	23
8/7	---	---	---	0	111	111	111	24	106	106	107	21	107	108	110	24	108	109	109	23
8/8	---	---	---	0	109	112	115	24	104	106	107	24	108	109	110	24	108	108	108	23
8/9	---	---	---	0	107	108	111	24	105	106	107	24	109	109	110	24	109	110	110	24
8/10	---	---	---	0	109	113	116	24	105	105	106	24	107	108	108	24	110	111	111	23
8/11	---	---	---	0	106	107	111	24	104	105	106	24	108	108	109	24	110	111	111	23
8/12	---	---	---	0	113	114	117	24	105	105	106	24	108	109	110	24	109	109	110	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>		
	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>
7/30	111	112	113	24	111	112	112	23	112	113	113	23	113	113	114	24	113	114	114	24
7/31	111	112	113	24	111	112	113	23	112	113	113	23	113	113	114	24	113	114	114	24
8/1	111	112	113	23	111	112	112	24	112	112	113	24	113	114	114	24	113	113	114	24
8/2	112	112	113	23	111	112	112	24	111	112	113	24	112	113	114	24	113	113	114	24
8/3	111	111	112	23	110	111	112	24	111	112	112	24	111	112	112	24	112	112	113	24
8/4	111	111	112	23	110	111	112	24	111	112	113	24	111	111	112	24	111	111	112	24
8/5	111	112	113	23	110	110	111	24	111	112	113	24	110	111	111	24	110	111	111	24
8/6	110	111	112	23	108	109	109	24	110	111	113	24	110	110	111	24	110	110	110	24
8/7	109	109	110	23	108	109	111	23	108	109	110	23	109	109	110	24	109	109	110	24
8/8	108	109	110	23	107	109	111	24	108	109	109	24	109	110	111	24	109	110	110	24
8/9	109	110	111	24	109	110	111	24	109	111	111	24	110	110	111	24	110	110	111	24
8/10	110	111	111	23	109	110	110	24	110	111	111	24	109	110	110	24	110	110	111	24
8/11	111	112	112	23	110	111	113	24	111	112	112	24	111	111	111	24	111	112	112	24
8/12	110	110	111	23	111	112	113	24	112	113	113	24	111	112	112	24	112	112	113	24

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>			<u>Rock I. Tlwr</u>			<u>Wanapum</u>			<u>Wanapum Tlwr</u>			<u>Priest Rapids</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>		
	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>
7/30	112	113	113	24	117	118	120	24	112	113	115	23	113	113	114	23	111	112	113	23
7/31	112	113	113	24	116	117	117	24	112	113	115	23	113	114	115	23	112	112	114	23
8/1	112	112	113	24	116	117	118	24	112	112	113	23	113	113	113	23	111	113	115	23
8/2	111	112	113	24	118	119	121	24	112	112	113	23	113	113	114	23	110	111	112	23
8/3	111	111	111	24	117	118	118	24	110	110	111	23	112	113	113	23	109	110	111	23
8/4	110	111	111	24	115	116	119	24	110	111	112	23	113	114	114	23	109	110	112	23
8/5	109	110	110	24	110	110	114	24	110	111	111	23	113	113	114	23	110	111	112	23
8/6	109	109	109	24	109	109	109	24	110	110	111	23	110	110	113	23	109	110	111	23
8/7	108	109	110	24	108	109	109	24	108	109	110	23	109	109	109	23	108	108	109	23
8/8	108	109	109	24	108	109	109	24	109	112	113	23	109	110	110	23	108	108	110	23
8/9	109	110	111	24	110	110	111	24	111	112	113	23	109	110	110	23	109	110	112	23
8/10	109	109	110	24	109	110	110	24	110	111	112	23	109	109	115	23	110	110	111	23
8/11	110	111	111	24	110	111	112	24	110	112	113	23	109	109	110	23	109	109	110	23
8/12	110	111	112	24	111	112	112	24	111	112	114	23	110	110	110	23	109	110	111	23

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 Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
7/30	---	---	---	0	111	112	112	24	101	102	102	24	---	---	---	0	102	104	105	24
7/31	---	---	---	0	110	111	111	24	101	102	102	24	---	---	---	0	102	104	105	24
8/1	---	---	---	0	110	110	110	24	101	102	102	24	103	104	104	24	102	103	105	24
8/2	---	---	---	0	109	110	111	24	101	102	102	23	103	103	104	23	101	102	104	24
8/3	---	---	---	0	107	108	109	24	101	101	102	24	102	103	103	24	101	102	103	23
8/4	---	---	---	0	108	109	110	24	101	102	102	24	102	103	103	24	101	102	103	24
8/5	---	---	---	0	107	108	109	24	102	102	103	22	103	103	104	22	101	102	104	24
8/6	---	---	---	0	106	106	107	24	102	102	103	24	102	103	104	24	100	101	102	24
8/7	---	---	---	0	105	106	106	24	101	101	102	24	102	102	103	24	100	102	103	24
8/8	---	---	---	0	106	107	108	24	101	101	102	24	102	103	103	24	101	103	104	24
8/9	---	---	---	0	106	107	107	24	99	100	100	23	102	102	102	23	102	104	104	24
8/10	109	109	110	7	106	107	108	24	99	99	100	24	101	101	102	24	102	103	105	24
8/11	---	---	---	0	107	108	108	24	99	100	100	24	101	102	104	24	102	104	105	24
8/12	---	---	---	0	107	107	108	24	99	99	100	24	101	103	104	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 Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
7/30	103	105	107	24	110	112	113	24	103	103	103	24	101	103	105	24	100	101	101	24
7/31	103	106	107	24	110	111	111	24	103	103	105	24	102	103	104	24	101	101	102	24
8/1	104	106	108	24	111	111	111	24	102	103	103	24	105	107	109	24	101	102	102	24
8/2	103	104	106	23	106	108	111	24	103	103	103	24	105	106	108	24	100	101	101	24
8/3	103	104	106	24	105	105	106	24	102	102	102	24	100	101	103	24	100	100	100	24
8/4	103	104	106	24	106	107	107	24	102	102	103	24	106	109	113	24	102	103	103	24
8/5	103	104	106	22	105	106	107	24	102	102	102	24	104	105	108	24	101	101	103	24
8/6	102	104	106	24	103	104	104	24	101	102	102	24	102	103	105	24	99	100	102	24
8/7	102	104	105	24	103	104	106	23	100	100	101	23	99	100	101	19	99	99	100	19
8/8	103	105	107	24	107	108	109	24	101	101	101	24	105	109	111	24	100	101	101	24
8/9	104	106	106	23	109	109	110	24	101	101	102	24	108	109	109	24	101	101	101	24
8/10	102	105	106	24	109	110	111	24	101	101	102	24	107	109	111	24	99	99	100	13
8/11	103	105	107	24	109	110	111	24	101	101	102	24	110	112	113	24	100	100	100	16
8/12	103	105	107	24	109	109	110	24	101	102	102	24	112	113	113	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 Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
7/30	102	103	104	24	101	101	102	24	101	102	103	24	112	114	115	24	111	112	114	24
7/31	103	104	105	24	101	101	102	24	102	103	103	24	111	112	115	24	110	112	113	24
8/1	104	106	108	24	103	105	116	24	103	103	103	24	110	111	113	24	110	111	112	24
8/2	104	105	106	24	101	102	103	24	102	103	105	24	110	111	113	24	112	114	115	24
8/3	101	102	103	24	100	100	101	24	101	102	103	24	112	114	115	24	107	109	110	24
8/4	102	103	105	24	100	102	110	24	104	105	107	24	111	112	113	24	108	110	111	24
8/5	101	102	103	24	100	100	101	24	102	102	103	24	112	113	114	24	107	108	110	24
8/6	101	102	103	24	99	100	101	24	101	102	103	24	110	111	113	24	105	106	106	24
8/7	100	100	101	23	99	99	99	23	99	99	100	20	111	112	114	20	104	105	108	24
8/8	102	103	104	24	99	100	101	24	101	103	106	23	110	111	113	23	107	109	111	24
8/9	103	103	103	24	100	100	101	24	101	101	102	24	110	111	112	24	107	108	112	24
8/10	104	107	108	24	99	99	100	24	99	100	102	24	111	113	115	24	108	110	115	24
8/11	106	107	107	24	100	100	101	24	101	102	105	24	111	113	115	24	111	113	114	24
8/12	106	107	107	24	100	100	101	24	103	105	106	24	111	112	114	24	111	113	114	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	<u>McNary-Wash</u>			<u>McNary Tlwr</u>			<u>John Day</u>			<u>John Day Tlwr</u>			<u>The Dalles</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>				
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
7/30	108	109	110	24	108	109	109	24	104	104	104	24	114	115	116	24	105	106	106	24
7/31	109	110	112	24	109	109	110	24	103	103	104	24	114	115	116	24	105	105	106	24
8/1	110	111	113	24	109	110	110	24	103	103	104	23	113	114	115	24	105	106	106	23
8/2	110	112	116	24	108	108	109	24	102	103	103	23	113	114	115	24	104	104	105	23
8/3	107	108	109	24	107	107	108	24	102	102	102	23	113	114	115	24	103	104	104	23
8/4	109	110	114	24	107	108	108	24	102	102	102	23	113	115	115	23	104	105	105	23
8/5	106	107	108	24	105	106	107	24	101	101	102	23	113	114	115	23	105	105	105	23
8/6	105	105	106	24	104	104	105	24	101	101	101	23	113	113	114	23	104	105	105	23
8/7	105	105	109	24	104	104	104	24	100	100	101	23	113	114	114	24	104	104	105	17
8/8	108	109	111	24	104	104	105	24	102	103	105	23	111	112	112	24	105	106	106	23
8/9	107	109	110	24	105	105	106	24	102	102	103	24	114	114	115	24	107	107	107	24
8/10	108	110	113	24	105	106	106	24	101	102	104	23	114	114	115	24	108	109	109	23
8/11	111	113	115	24	107	107	108	24	102	103	104	23	115	115	115	24	108	108	108	23
8/12	110	111	113	24	107	108	108	24	104	105	105	23	115	115	115	24	108	108	108	23

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>CamasWashugal</u>						
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>				
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
7/30	112	112	113	24	104	104	105	24	110	111	112	24	106	107	107	24
7/31	112	113	113	24	104	104	104	24	113	115	116	24	108	110	113	24
8/1	112	113	113	24	104	104	104	23	113	114	116	23	109	111	112	24
8/2	111	112	112	24	103	103	104	23	112	113	114	23	110	110	111	24
8/3	111	111	111	24	102	102	103	23	113	114	114	23	109	111	113	24
8/4	111	112	112	23	103	103	103	23	113	114	115	23	111	112	112	24
8/5	112	112	112	24	103	103	104	23	113	114	115	23	109	111	112	24
8/6	112	112	112	24	104	104	105	23	113	115	115	23	110	111	112	24
8/7	111	112	112	17	103	104	104	23	114	114	115	23	122	125	126	23
8/8	110	111	112	24	105	105	105	23	112	113	114	23	125	125	126	24
8/9	110	111	113	24	105	105	106	24	112	113	114	24	125	126	126	24
8/10	112	113	114	24	107	108	109	23	114	115	115	23	121	125	126	24
8/11	113	114	114	24	108	108	109	23	115	116	117	23	113	115	116	24
8/12	113	114	115	24	109	109	110	23	116	117	118	23	111	113	115	24

Two-Week Summary of Passage Indices

Date	COMBINED YEARLING CHINOOK											
	ENT (Coll)	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/30/2004	---	---	---	---	---	5	15	0	0	0	0	0
07/31/2004	*	---	---	---	---	0	26	3	0	0	0	0
08/01/2004	*	---	---	---	---	15	10	0	1	0	0	0
08/02/2004	*	---	---	---	---	0	16	0	0	0	0	0
08/03/2004	*	---	---	---	---	4	13	0	0	0	0	0
08/04/2004	*	---	---	---	---	4	8	0	0	25	0	0
08/05/2004	*	---	---	---	---	0	19	0	0	0	0	0
08/06/2004	*	---	---	---	---	0	14	0	0	0	0	0
08/07/2004		---	---	---	---	0	16	0	0	0	0	0
08/08/2004		---	---	---	---	4	32	3	0	0	0	0
08/09/2004		---	---	---	---	4	10	0	0	0	0	0
08/10/2004		---	---	---	---	4	18	3	0	5	0	0
08/11/2004		---	---	---	---	4	18	3	0	0	0	0
08/12/2004		---	---	---	---	0	20	0	0	0	0	0
Total:	0	0	0	0	0	44	235	12	1	30	0	0
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	3	17	1	0	2	0	0
YTD	835	29,063	66,832	9,904	4,053	5,175,948	2,658,411	913,803	12,574	1,069,732	1,005,402	1,466,443

Date	COMBINED SUBYEARLING CHINOOK											
	ENT (Coll)	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/30/2004	---	---	---	---	---	1,835	405	264	265	32,250	20,278	7,908
07/31/2004	*	---	---	---	---	2,068	447	207	130	37,350	13,646	9,373
08/01/2004	*	---	---	---	---	1,365	592	222	90	21,950	19,965	5,413
08/02/2004	*	---	---	---	---	545	762	270	73	15,400	7,966	3,506
08/03/2004	*	---	---	---	---	732	692	255	79	32,850	5,346	5,209
08/04/2004	*	---	---	---	---	908	730	186	55	14,375	3,815	2,299
08/05/2004	*	---	---	---	---	432	1,008	153	49	4,700	3,030	2,221
08/06/2004	*	---	---	---	---	835	1,249	162	61	4,660	3,164	2,009
08/07/2004		---	---	---	---	1,352	1,422	351	41	7,192	2,185	821
08/08/2004		---	---	---	---	480	849	243	40	3,472	1,239	1,331
08/09/2004		---	---	---	---	580	746	144	55	1,834	948	1,393
08/10/2004		---	---	---	---	580	716	138	117	2,785	1,216	1,414
08/11/2004		---	---	---	---	692	530	165	158	1,520	822	2,390
08/12/2004		---	---	---	---	588	515	84	105	2,392	671	3,829
Total:	0	0	0	0	0	12,992	10,663	2,844	1,318	182,730	84,291	49,116
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	928	762	203	94	13,052	6,021	3,508
YTD	1,579	0	29	80	935	1,002,499	471,439	186,546	25,373	8,398,219	1,713,880	4,719,727

* See sampling comments <http://www.fpc.org/currentDaily/smpcomments.htm>
this means that one or more of the sites on this date had an incomplete or biased sample.

For clip information see: [Daily Catch Report](#)

For sockeye and yearling chinook (Snake only) race information see: [Current Passage Index Query](#)

If the text appears garbled, please hit the refresh button on your browser

NOTE for 2002 Lower Monumental Data: Due to the non-standard operation of Lower Monumental this year, the passage index reliability is in question and is being looked into.

Fall (post SMP season) trapping at the Imnaha River Fish Trap (IMN) is funded by the Lower Snake River Compensation Program (LSRCP)

Two-Week Summary of Passage Indices

COMBINED COHO												
	ENT	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
07/30/2004	---	---	---	---	---	5	7	0	2	0	0	0
07/31/2004	*	---	---	---	---	0	3	3	0	0	0	0
08/01/2004	*	---	---	---	---	5	27	3	0	0	0	0
08/02/2004	*	---	---	---	---	5	40	3	0	0	0	45
08/03/2004	*	---	---	---	---	4	47	3	0	0	0	0
08/04/2004	*	---	---	---	---	0	33	6	0	0	0	0
08/05/2004	*	---	---	---	---	12	46	0	0	0	0	0
08/06/2004	*	---	---	---	---	4	2	0	0	0	0	0
08/07/2004		---	---	---	---	0	14	0	1	0	0	0
08/08/2004		---	---	---	---	4	68	0	0	0	0	0
08/09/2004		---	---	---	---	4	58	0	1	0	0	0
08/10/2004		---	---	---	---	0	30	0	0	5	0	0
08/11/2004		---	---	---	---	0	38	0	0	0	0	0
08/12/2004		---	---	---	---	0	41	3	0	0	0	0

Total:	0	0	0	0	0	43	454	21	4	5	0	45
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	3	32	2	0	0	0	3
YTD	0	0	0	0	45	259,441	127,662	15,921	28,663	90,681	175,311	938,019

COMBINED STEELHEAD												
	ENT	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
07/30/2004	---	---	---	---	---	195	58	6	2	50	0	0
07/31/2004	*	---	---	---	---	190	87	9	0	0	0	0
08/01/2004	*	---	---	---	---	165	27	9	0	50	7	0
08/02/2004	*	---	---	---	---	125	41	6	0	0	0	0
08/03/2004	*	---	---	---	---	152	108	3	0	0	0	0
08/04/2004	*	---	---	---	---	120	50	12	0	0	0	0
08/05/2004	*	---	---	---	---	136	88	9	0	0	0	0
08/06/2004	*	---	---	---	---	89	182	12	1	0	0	0
08/07/2004		---	---	---	---	84	134	3	0	0	14	0
08/08/2004		---	---	---	---	12	92	3	0	0	0	0
08/09/2004		---	---	---	---	32	38	9	2	0	0	0
08/10/2004		---	---	---	---	40	78	0	0	0	0	0
08/11/2004		---	---	---	---	72	76	18	1	0	10	0
08/12/2004		---	---	---	---	40	86	15	1	0	14	0

Total:	0	0	0	0	0	1,452	1,145	114	7	100	45	0
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	104	82	8	1	7	3	0
YTD	195	2,106	36,387	1,857	8,418	5,827,493	1,917,083	343,236	10,720	124,610	257,239	155,670

* See sampling comments

Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE											
	ENT (Coll)	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/30/2004	---	---	---	---	---	0	0	0	0	50	29	0
07/31/2004 *	---	---	---	---	---	0	0	0	0	50	0	0
08/01/2004 *	---	---	---	---	---	5	0	0	1	0	7	0
08/02/2004 *	---	---	---	---	---	0	1	0	0	0	97	0
08/03/2004 *	---	---	---	---	---	0	0	0	0	0	0	0
08/04/2004 *	---	---	---	---	---	0	0	0	0	0	0	0
08/05/2004 *	---	---	---	---	---	0	2	0	1	0	19	0
08/06/2004 *	---	---	---	---	---	0	2	0	1	0	0	0
08/07/2004	---	---	---	---	---	0	0	0	0	8	0	0
08/08/2004	---	---	---	---	---	0	0	0	0	0	0	0
08/09/2004	---	---	---	---	---	0	0	0	0	0	0	0
08/10/2004	---	---	---	---	---	0	0	0	1	5	0	0
08/11/2004	---	---	---	---	---	4	2	0	1	0	0	0
08/12/2004	---	---	---	---	---	4	0	0	0	0	0	0

Total:	0	0	0	0	0	13	7	0	5	113	152	0
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	1	1	0	0	8	11	0
YTD	6	9	0	0	25	7,577	4,723	955	7,113	308,926	235,899	189,679

* See sampling comments

<http://www.fpc.org/currentDaily/smpcomments.htm>

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.

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

ENT (Collection) = Entiat River Trap : 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. ENT data collected for the FPC by USFWS.

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

8/13/04 8:24 AM

07/31/04 TO 08/13/04

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	12,982	44	43	13	1,451	14,533
	Sum of NumberBarged	12,470	42	43	11	1,440	14,006
	Sum of NumberBypassed	330	0	0	0	0	330
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	182	2	0	2	11	197
LGS	Sum of NumberCollected	10,663	235	454	7	1,145	12,504
	Sum of NumberBarged	10,553	229	440	6	1,133	12,361
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	110	6	14	1	12	143
LMN	Sum of NumberCollected	2,844	12	21		114	2,991
	Sum of NumberBarged	2,808	11	21		113	2,953
	Sum of NumberBypassed	0	0	0		0	0
	Sum of Numbertrucked	0	0	0		0	0
	Sum of TotalProjectMortalities	36	1	0		1	38
MCN	Sum of NumberCollected	182,730	30		113	100	182,973
	Sum of NumberBarged	292,951	23		200	93	293,267
	Sum of NumberBypassed	0	0		0	0	0
	Sum of Numbertrucked	0	0		0	0	0
	Sum of TotalProjectMortalities	3,922	7		11	7	3,947
Total Sum of NumberCollected		209,219	321	518	133	2,810	213,001
Total Sum of NumberBarged		318,782	305	504	217	2,779	322,587
Total Sum of NumberBypassed		330	0	0	0	0	330
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		4,250	16	14	14	31	4,325

YTD Transportation Summary

Source: Fish Passage Center

Updated:

8/13/04 8:24 AM

TO: 08/13/04

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	972,273	4,846,425	252,822	7,266	5,676,326	11,755,112
	Sum of NumberBarged	920,790	4,627,911	238,943	6,745	5,367,991	11,162,380
	Sum of NumberBypassed	46,379	151,332	13,352	285	289,607	500,955
	Sum of NumberTrucked	129	43,991	220	181	15,496	60,017
	Sum of TotalProjectMortalities	4,975	23,191	307	55	3,229	31,757
LGS	Sum of NumberCollected	471,172	2,572,885	124,405	4,671	1,870,987	5,044,120
	Sum of NumberBarged	470,231	2,569,236	124,251	4,664	1,867,563	5,035,945
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of NumberTrucked	0	2,096	0	2	1,333	3,431
	Sum of TotalProjectMortalities	938	1,512	57	5	2,087	4,599
LMN	Sum of NumberCollected	178,583	843,336	14,886	901	288,080	1,325,786
	Sum of NumberBarged	171,183	834,165	14,879	900	284,639	1,305,766
	Sum of NumberBypassed	6,666	6,333	3	1	2,141	15,144
	Sum of NumberTrucked	10	1,352	0	0	604	1,966
	Sum of TotalProjectMortalities	724	1,486	4	0	696	2,910
MCN	Sum of NumberCollected	7,660,566	658,028	56,924	190,574	76,314	8,642,406
	Sum of NumberBarged	6,539,863	8,062	5,009	10,339	1,384	6,564,657
	Sum of NumberBypassed	1,044,727	646,944	51,742	179,173	74,612	1,997,198
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	68,704	2,915	173	1,061	318	73,171
Total Sum of NumberCollected		9,282,594	8,920,674	449,037	203,412	7,911,707	26,767,424
Total Sum of NumberBarged		8,102,067	8,039,374	383,082	22,648	7,521,577	24,068,748
Total Sum of NumberBypassed		1,097,772	804,609	65,097	179,459	366,360	2,513,297
Total Sum of NumberTrucked		139	47,439	220	183	17,433	65,414
Total Sum of TotalProjectMortalities		75,341	29,104	541	1,121	6,330	112,437

Cumulative Adult Passage at Mainstem Dams Through: 08/12

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2004		2003		10-Yr Avg.		2004		2003		10-Yr Avg.		2004		2003		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	170,152	8,885	192,010	14,258	130,296	7,371	92,143	12,889	114,808	13,358	47,301	6,386	7,930	906	7,920	1,308	5,246	776
TDA	130,240	7,717	131,207	11,522	87,249	5,199	79,495	8,430	101,490	10,441	40,826	4,723	3,250	476	4,071	984	2,182	450
JDA	112,153	6,367	101,436	10,206	72,403	4,083	72,523	10,544	95,542	10,073	38,101	4,222	1,276	466	2,504	665	1,042	296
MCN	107,497	7,682	95,550	11,123	66,222	4,195	65,457	8,760	93,844	11,104	38,682	4,382	384	99	1,368	441	541	119
IHR	76,806	4,646	78,170	8,020	44,313	2,700	12,610	2,867	20,742	4,601	9,011	1,513	7	5	12	1	0	0
LMN	71,673	3,786	70,603	7,344	42,703	2,607	10,570	2,196	18,700	3,578	8,775	1,282	0	0	0	0	0	0
LGS	62,458	3,404	69,017	7,079	41,666	2,708	9,298	2,260	14,303	3,537	7,645	1,525	0	0	0	0	0	0
LWG	70,742	4,482	70,609	8,295	40,647	2,828	8,813	2,502	16,335	4,112	7,795	1,648	0	0	0	0	0	0
PRD	13,521	1,020	18,136	656	14,413	382	66,837	5,592	82,475	3,840	33,577	1,336	0	0	0	0	0	0
RIS	10,917	958	16,881	753	11,256	609	59,639	4,572	78,915	6,102	29,662	3,678	0	0	0	0	0	0
RRH	4,347	733	4,216	450	4,023	171	38,971	7,588	60,129	5,281	21,133	1,806	0	0	0	0	0	0
WEL	4,615	178	4,504	198	2,563	172	28,585	1,099	39,749	1,303	14,432	870	0	0	0	0	0	0

DAM	Coho						Sockeye			Steelhead			
	2004		2003		10-Yr Avg.		2004	2003	10-Yr Avg.	2004	2003	10-Yr Avg.	Wild 2004
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	89	13	60	15	47	3	123,183	39,254	42,648	153,236	176,005	136,207	60,172
TDA	1	0	0	0	0	0	107,442	34,172	34,656	38,907	51,850	55,673	18,174
JDA	0	0	0	0	2	0	112,839	35,401	37,892	33,380	39,582	38,656	14,750
MCN	0	0	0	0	0	0	89,680	32,034	33,479	22,795	28,833	28,397	9,275
IHR	0	0	0	0	0	0	83	37	18	14,551	18,638	13,895	4,220
LMN	0	0	0	0	0	0	76	14	24	10,649	13,391	11,856	3,282
LGS	0	0	1	0	0	0	78	22	26	6,804	9,514	7,469	2,505
LWG	0	0	0	0	0	0	110	10	22	11,301	20,809	9,906	3,965
PRD	1	1	4	4	5	0	124,859	36,499	40,699	5,337	5,370	3,073	0
RIS	0	0	9	0	1	0	106,479	34,718	37,537	3,963	3,322	2,049	3,109
RRH	0	0	2	0	1	0	80,990	30,223	24,198	3,215	2,459	1,269	2,336
WEL	0	0	0	0	0	0	77,106	28,900	23,585	1,575	1,185	662	1,181

RIS, RRH and WEL are through 8/11. MCN is missing 8/9.

IHR is missing 7/2 and 8/4-8/6. RIS/RRH are missing 8/5 and 8/7. LGR has duplicate data 7/14 and 7/15.

**PRD is not reporting Wild Steelhead numbers.

These numbers were collected from the COE's Running Sums text files, except where otherwise noted.

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.

Page last updated on: 08/13/04

BON counts from January 1, 2004 to March 14, 2004 (our traditional counts begin March 15)

Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
156	1	1,489	238

