



Fish Passage Center

Weekly Report #04 - 21

July 30, 2004

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Highlights:

- **Biological Opinion Spill Program to continue through August 31.**
- **Summer flows at Lower Granite Dam have averaged 38.3 kcfs to-date, and at McNary Dam flows have averaged 142.8 kcfs to-date.**

Summary of Events:

Columbia Basin precipitation throughout the first twenty-six days of July has generally been slightly below average in most basins. Over the entire water year, precipitation also remains slightly below average in most basins.

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

Location	Water Year 2004 July 1-26		Water Year 2004 October 1, 2003 to July 26, 2004	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.31	88	20.56	93
Snake River Above Ice Harbor	0.81	105	15.00	95
Columbia Above The Dalles	0.91	88	19.93	96
Kootenai	1.40	88	20.68	91
Clark Fork	0.69	70	13.93	92
Flathead	1.31	98	18.34	91
Pend Oreille/ Spokane	0.53	46	26.35	93
Central Washington	0.24	77	7.65	93
Snake River Plain	0.61	121	8.64	86
Salmon/Boise/ Payette	0.51	75	16.78	92
Clearwater	0.74	61	28.62	102
SW Washington Cascades/Cowlitz	0.19	16	58.52	88
Willamette Valley	0.12	17	52.37	93

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 38.3 Kcfs over the summer flow period; the flow objective is 50 Kcfs. Flows at Lower Granite have averaged 30.8 Kcfs over the last week.

The summer flow period began at McNary on July 1st with a flow objective of 200 Kcfs. Flows have averaged 142.8 Kcfs at McNary over the summer season and 126.5 Kcfs last week.

Grand Coulee is currently at an elevation of 1285.4 feet and has drafted nearly two feet over the past week. Because the July Final (April-August) water supply forecast at The Dalles is less than 92 Maf, the summer draft limit at Grand Coulee will be 1278 feet.

The Libby Reservoir has released a constant 12.5 Kcfs for the entire month of July. Libby is currently at an elevation of 2449.5 feet. In response to the last Montana SOR, NOAA Fisheries has recommended maintaining a constant discharge at both Libby (12.5 Kcfs) and Hungry Horse (5.1-5.2 Kcfs) over July and August and release any volume above the BIOP draft elevations in September. This operation will not result in the drafting of the full 20 feet by August 31 from these reservoirs as specified in the 2000 BIOP. Consequently, flows in the lower Columbia will be lower during July and August with this implementation.

The Hungry Horse Reservoir has been drafting slightly over July for summer flow augmentation and is currently at an elevation of 3553.7 feet. Outflows at Hungry Horse have been approximately 5.2 Kcfs over the week.

The Dworshak Reservoir is currently at an elevation of 1572.8 feet and has been drafting over July for flow and temperature augmentation

in the Lower Snake River. Outflows at Dworshak have averaged 11.6 Kcfs over the last several days.

The Brownlee Reservoir is currently at an elevation of 2065.2 feet and has drafted 1.3 feet over the last week. Outflows to Brownlee have ranged between 7.2 and 11.6 Kcfs over the last week.

Spill: The summer spill program is continuing at the Mid-Columbia projects. Some spill at Dworshak Dam has been occurring since July 12, as augmentation flows exceed 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 73% of daily average flow from July 23 through July 29. During the same time period, summer spill continued at the Lower Columbia projects with spill averaging 30% of daily average flow at John Day dam, 40% at The Dalles Dam and 48% 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.

On July 28, 2004 U.S. District Judge James Redden blocked federal dam managers from reducing the amount of water diverted from dam spillways in the Columbia River basin. The court ordered dam managers to continue spilling water through the end of August as specified in the 2000 Biological Opinion. This includes the implementation of the summer spill program at Ice Harbor, John Day, The Dalles and Bonneville dams.

Gas bubble trauma monitoring is continuing at Rock Island, and at McNary and Bonneville dams. No signs of gas bubble trauma have been observed over the past week.

Smolt Monitoring: Subyearling chinook indices decreased at sites in the Snake River and Mid-Columbia, but increased at McNary and John Day dams over the past week compared to the previous week.

At Lower Granite Dam, subyearling chinook

indices were down from an average index of 4,200 per day last week to 1,700 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 6 detected in the past week down from 16 the previous week for a total of 32% of released tags detected to date. On the other hand, detections of subyearlings marked in the Clearwater River only began three weeks ago, with 27 detected last week and 14 this week, only 3% of total tags have been 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 900 per day at Little Goose, and 300 per day at Lower Monumental compared to 1,700 and 700 last week, respectively.

At Rock Island Dam the numbers of subyearling chinook remained relatively high, with the index averaging 400 per day this week compared to 420 last week. The season high index of 1,019 was reached on July 15.

In the Lower Columbia, at McNary Dam, based on full samples taken every day, subyearling chinook indices averaged nearly 61,000 per day this week compared to nearly 37,000 per day last week. At John Day Dam the subyearling average index was 14,000 per day this week compared to 13,000 last week, while at Bonneville Dam the average index was 10,000 compared to 12,000 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 30-July-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, summer chinook passage ranged between 150 and 600 per day through the count week ending July 29. To date, 91,223 adult summer chinook have been counted; this total is less than the counts recorded during the preceding two years but is double the 10-year average at Bonneville Dam. Summer chinook passage above McNary Dam totaled 62,574 through July 29 with the turnoff into the Snake River at 12,453 (Ice Harbor count), and in the Mid-Columbia River about 62,100 summer chinook were counted at Priest Rapids Dam. Daily counts of adult summer chinook at Ice Harbor Dam averaged 25 per day with counts at Priest Rapids Dam averaging 763 per day for the week ending July 29. 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 83% of the 2003 count at Priest Rapids Dam, but is 2.1 times greater than the 10-year average count for the season.

Steelhead passage at Bonneville Dam continued to fall with numbers reduced from about 2,400 per day early in the week to 1,300 per day late in the week ending July 29. As in previous reports, only about 1/3rd to 1/4th of these fish are now passing upstream of The Dalles Dam (range = 300 to 700 per day). At Bonneville, the steelhead

run totals 85,188 through July 29 and this count is about 83% and 114% of the respective 2003 and 10-year average. Steelhead passage in the Snake River increased slightly above the preceding week with daily counts that ranged between 350 and 700 at Ice Harbor Dam, and a season total of 12,100 through July 29. In the Mid-Columbia River, steelhead counts at Priest Rapids Dam averaged 168 per day, an increase from the previous week. The total steelhead count is about 3,800 for the season. Warm water temperatures were prevalent in the lower Columbia River, and a portion of the fish bound for upriver sites are temporarily 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.

Sockeye passage at Bonneville Dam is nearing completion for the year with about 50 per day passing the project. The total count through July 29 was 122,994, and compares to 39,109 and 42,499 for the respective 2003 and 10-year average. Sockeye passage through the upper Columbia projects: Rock Island, Rocky Reach and Wells dams had daily counts that ranged between 300 and 1,200 for the week. The Rock Island count was near 105,500 with about 79,500 counted upstream at Rocky Reach Dam. To date, at least 75% of the sockeye run will be bound for the Okanogan River system with the remaining total (currently 25%) to the Wenatchee River system. Overall, the 2004 count of adult sockeye will be slightly above the 2001 total and the highest count since 1985. 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
07/16/04	90.6	0.2	88.5	0.0	94.2	6.7	94.9	10.9	96.7	21.6	96.1	28.8	82.1	44.0
07/17/04	80.0	0.2	80.7	0.0	81.8	6.3	79.9	7.8	83.0	18.1	95.6	28.7	90.2	48.9
07/18/04	89.2	0.2	88.5	0.0	90.9	6.9	85.8	6.6	86.0	14.9	93.1	28.0	87.5	47.3
07/19/04	82.2	0.2	86.0	0.0	91.6	6.7	92.1	9.8	94.5	20.1	103.6	31.0	97.5	52.9
07/20/04	70.5	0.2	70.3	0.0	72.8	5.9	67.1	8.7	69.9	19.4	73.4	18.8	77.4	42.0
07/21/04	84.8	0.2	83.9	0.0	85.6	6.7	84.9	8.5	85.0	18.0	76.6	13.4	95.2	51.5
07/22/04	76.9	0.2	77.9	0.0	82.9	6.7	82.5	6.6	86.3	14.3	92.1	25.0	81.2	44.0
07/23/04	85.9	0.2	87.3	0.0	89.8	6.9	88.5	7.3	91.0	14.9	91.4	27.4	85.9	46.3
07/24/04	79.8	0.2	76.8	0.0	79.4	6.1	80.2	6.6	83.4	16.0	87.5	26.1	81.2	43.9
07/25/04	54.2	0.2	59.8	0.0	61.4	4.9	61.4	6.3	62.5	15.1	72.1	21.6	69.8	37.9
07/26/04	95.1	0.2	95.7	0.0	98.9	6.9	92.6	8.8	93.5	17.7	97.8	29.3	91.6	49.6
07/27/04	96.9	0.2	94.1	0.0	95.7	7.1	95.8	8.4	97.1	16.5	108.0	33.1	107.8	58.2
07/28/04	101.8	0.2	109.8	0.0	113.0	7.3	109.8	8.4	110.3	17.1	124.0	40.1	113.2	61.1
07/29/04	113.7	0.2	109.1	0.0	111.4	7.6	110.5	8.6	112.9	19.4	125.2	40.0	119.9	64.7

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

Date	Dworshak		Hells Brownlee Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
07/16/04	11.6	2.0	9.1	13.4	37.6	0.0	39.4	0.0	40.8	0.0	42.6	35.0
07/17/04	11.6	1.9	8.9	14.8	35.7	0.0	35.5	0.0	34.5	0.0	34.4	27.0
07/18/04	11.6	1.9	7.9	10.9	34.3	0.0	33.1	0.0	33.6	0.0	35.9	26.6
07/19/04	11.6	1.9	7.9	13.7	32.4	0.0	33.3	0.0	34.9	0.0	36.4	29.2
07/20/04	11.5	1.9	8.8	8.8	35.8	0.0	36.4	0.0	38.0	0.0	37.8	28.9
07/21/04	11.5	1.9	9.7	11.9	32.5	0.0	31.7	0.0	32.7	0.0	35.8	28.5
07/22/04	11.6	1.9	8.9	13.7	35.8	0.0	38.4	0.0	39.5	0.0	39.9	31.6
07/23/04	12.3	2.7	9.3	11.3	34.4	0.0	34.7	0.0	35.4	0.0	35.1	26.6
07/24/04	13.6	3.9	8.1	9.3	32.9	0.0	32.1	0.0	32.9	0.0	36.1	29.0
07/25/04	13.6	3.9	9.2	10.6	31.5	0.0	31.2	0.0	31.4	0.0	31.5	22.4
07/26/04	12.2	2.9	8.5	10.5	32.1	0.0	32.7	0.0	33.4	0.0	34.0	23.9
07/27/04	11.6	1.9	8.2	8.1	28.8	0.0	29.6	0.0	31.0	0.0	30.1	19.9
07/28/04	11.6	1.8	7.5	9.8	27.3	0.0	28.4	0.0	29.9	0.0	32.4	25.0
07/29/04	11.6	1.8	---	---	28.7	0.0	28.2	0.0	28.2	0.0	27.9	20.2

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		
07/16/04	125.0	0.0	125.9	37.9	123.9	48.9	145.2	59.4	0.0	74.4
07/17/04	126.5	0.0	131.4	39.7	132.8	52.8	155.7	50.2	0.0	94.2
07/18/04	106.1	0.0	100.6	29.7	105.6	41.1	138.8	72.6	0.0	54.9
07/19/04	146.6	0.0	141.4	41.7	139.3	54.8	151.2	80.3	0.8	58.7
07/20/04	120.0	0.0	124.9	36.5	126.0	49.6	151.5	62.7	1.6	75.8
07/21/04	121.0	0.0	113.5	32.9	114.1	45.3	136.4	50.2	1.5	73.2
07/22/04	111.8	0.0	112.9	33.7	115.6	45.4	139.2	51.0	2.1	74.7
07/23/04	126.7	0.0	124.5	37.9	125.8	50.0	147.0	51.5	2.0	82.2
07/24/04	115.6	0.0	110.3	33.5	113.0	45.4	140.5	72.8	0.8	55.5
07/25/04	117.8	0.0	112.3	34.2	110.2	43.3	131.3	82.0	0.0	37.9
07/26/04	129.7	0.0	136.1	40.2	137.2	53.6	161.2	84.6	2.7	62.6
07/27/04	116.2	0.0	125.8	37.4	128.8	51.1	161.2	93.8	0.0	56.0
07/28/04	142.3	0.0	127.8	38.7	129.1	51.0	152.3	66.3	3.3	71.7
07/29/04	137.5	0.0	134.5	40.3	135.1	54.0	157.6	50.6	7.5	88.1

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											
	07/22/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/26/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	07/20/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/24/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/27/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	07/22/04	Chinook + Steelhead	71	0	0	0.00%	0.00%	0	0	0	0
	07/29/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	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	<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>		
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
7/16	---	---	---	0	115	116	116	20	112	112	113	24	110	111	112	22	111	111	111	23
7/17	---	---	---	0	115	115	116	24	111	112	112	24	110	111	113	24	111	112	112	23
7/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/19	---	---	---	0	115	115	116	24	110	111	111	24	110	110	111	24	111	111	111	23
7/20	---	---	---	0	114	115	116	24	110	111	111	24	109	110	114	24	110	111	111	23
7/21	---	---	---	0	114	115	118	22	110	111	111	24	109	110	113	24	110	110	111	23
7/22	---	---	---	0	114	115	116	24	110	111	111	23	109	111	112	24	110	110	111	23
7/23	---	---	---	0	114	116	117	24	110	110	111	21	110	110	111	24	111	111	112	23
7/24	---	---	---	0	116	116	117	24	110	111	112	24	110	111	112	24	111	112	113	23
7/25	---	---	---	0	117	117	118	24	110	111	111	24	109	110	111	24	112	113	114	23
7/26	---	---	---	0	116	117	118	24	110	111	111	24	111	112	114	24	112	112	113	23
7/27	---	---	---	0	116	117	117	24	110	111	112	24	110	110	111	24	111	111	112	23
7/28	---	---	---	0	116	117	118	24	110	110	111	21	110	111	112	24	111	112	112	23
7/29	---	---	---	0	116	117	118	24	111	112	112	24	111	112	114	24	111	111	112	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>		
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
7/16	111	112	113	23	110	111	112	24	111	112	113	24	113	114	114	24	114	114	115	24
7/17	112	112	113	23	111	112	112	23	112	113	113	23	114	114	115	24	114	115	115	24
7/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/19	112	112	113	23	110	111	112	24	112	112	113	24	112	112	113	24	112	113	113	24
7/20	111	112	112	23	109	110	111	24	110	111	112	24	111	112	112	24	112	112	113	24
7/21	110	111	112	23	109	111	111	24	110	112	113	24	111	111	111	24	111	112	112	24
7/22	110	111	112	23	110	111	111	24	111	112	113	24	110	111	111	24	111	111	112	24
7/23	111	112	113	23	110	111	112	24	111	113	113	24	111	112	113	24	112	113	113	24
7/24	112	112	113	23	111	112	114	24	112	113	113	24	113	114	114	24	113	114	114	24
7/25	112	112	113	23	110	111	112	24	112	113	114	24	113	114	114	24	113	114	114	24
7/26	112	112	113	23	112	113	116	24	112	113	114	24	113	113	114	24	113	113	114	24
7/27	111	111	112	23	112	113	113	24	113	114	114	24	112	113	113	24	112	113	114	24
7/28	112	112	112	23	112	113	114	24	113	113	114	24	113	113	114	24	113	114	114	24
7/29	111	112	113	23	112	113	113	24	113	114	114	24	113	114	114	24	114	114	115	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>		
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
7/16	112	113	114	24	117	117	118	24	112	113	114	23	113	113	114	23	111	112	113	23
7/17	113	113	114	24	117	118	119	24	115	117	118	23	114	114	115	23	113	114	115	23
7/18	---	---	---	0	---	---	---	0	113	114	115	23	113	114	115	23	112	112	113	23
7/19	111	112	112	24	116	116	117	24	113	113	114	23	113	114	114	23	112	112	113	23
7/20	111	111	112	24	117	118	119	24	111	112	113	23	115	118	120	23	110	111	112	22
7/21	110	111	112	24	115	116	119	24	111	113	114	23	117	118	122	23	110	112	114	23
7/22	111	111	112	24	115	116	117	24	---	---	---	0	---	---	---	0	---	---	---	0
7/23	111	112	112	24	115	116	118	24	---	---	---	0	---	---	---	0	---	---	---	0
7/24	112	112	113	24	116	117	118	24	116	117	118	23	114	114	115	23	115	116	117	23
7/25	112	113	114	24	117	118	120	24	113	114	115	23	113	113	114	23	113	114	116	23
7/26	111	112	113	24	116	117	119	24	---	---	---	0	---	---	---	0	---	---	---	0
7/27	112	112	112	24	116	117	118	24	112	113	114	23	113	113	113	23	110	111	111	23
7/28	112	113	113	24	115	116	117	24	113	114	116	23	114	114	115	23	112	113	113	23
7/29	112	113	113	24	116	117	120	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 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	
7/16	113	114	119	20	112	113	114	24	103	104	104	23	105	106	107	24	103	104	105	24
7/17	114	117	118	23	110	111	112	21	103	104	104	24	105	106	107	24	103	104	105	21
7/18	113	115	118	23	110	111	111	24	---	---	---	0	---	---	---	0	---	---	---	0
7/19	114	115	117	23	109	109	111	24	103	103	103	24	104	105	107	24	102	103	104	24
7/20	114	114	116	11	109	110	110	24	102	103	103	20	104	105	107	20	102	103	104	24
7/21	112	112	115	14	108	109	110	24	102	103	103	18	104	105	106	18	102	103	104	24
7/22	---	---	---	0	108	110	111	24	103	103	103	24	104	105	106	24	102	103	104	24
7/23	---	---	---	0	110	111	112	24	104	106	108	24	105	107	109	24	102	104	105	24
7/24	---	---	---	0	112	113	114	24	108	108	108	24	108	109	110	24	102	104	105	24
7/25	---	---	---	0	109	110	111	24	108	108	108	24	108	109	110	24	102	103	104	24
7/26	---	---	---	0	109	110	111	24	105	107	108	24	106	108	110	24	101	103	104	24
7/27	115	115	116	6	108	109	109	24	101	101	101	24	102	104	105	24	102	103	104	24
7/28	---	---	---	0	110	111	111	24	101	101	102	24	102	104	105	24	102	103	104	23
7/29	---	---	---	0	110	112	112	24	101	102	102	21	103	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 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	
7/16	104	106	108	24	106	107	109	24	102	103	103	24	102	104	107	24	100	101	101	24
7/17	103	105	107	21	109	110	111	21	102	103	103	21	106	108	110	21	101	102	102	21
7/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/19	103	105	107	24	106	107	107	24	102	102	102	24	106	107	109	24	100	101	101	24
7/20	104	105	107	20	106	107	107	24	102	102	102	24	101	101	102	24	100	100	101	24
7/21	103	104	107	18	105	105	107	24	101	101	102	24	102	103	104	24	100	101	101	24
7/22	103	106	107	24	110	113	116	24	102	102	102	24	106	109	111	24	102	103	104	24
7/23	104	106	108	24	112	114	115	24	102	102	103	24	110	111	113	24	102	103	104	24
7/24	105	108	109	24	112	113	114	24	102	102	102	24	110	111	112	24	102	102	103	24
7/25	105	107	109	24	109	111	112	24	102	102	102	24	104	106	107	24	101	102	102	24
7/26	105	107	109	24	104	105	106	24	101	102	102	24	101	101	103	24	101	101	102	24
7/27	103	105	107	24	104	105	106	24	101	102	102	24	103	104	104	24	102	102	103	24
7/28	103	106	107	24	108	111	113	24	102	103	104	21	104	105	108	24	101	102	103	24
7/29	104	106	107	24	112	112	113	24	103	104	104	24	104	105	106	24	101	102	103	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	
7/16	101	103	105	24	100	100	101	24	100	101	102	24	113	116	117	24	113	115	116	24
7/17	103	104	107	21	100	100	101	21	101	101	103	21	113	114	115	21	116	117	119	21
7/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	115	116	117	24
7/19	100	101	103	24	100	100	101	24	98	99	99	24	113	114	115	24	114	115	115	24
7/20	100	100	101	24	100	100	101	24	96	97	98	24	113	115	115	24	111	112	113	24
7/21	101	101	102	24	100	100	101	24	99	100	101	17	113	115	116	24	110	112	114	24
7/22	104	106	110	24	100	101	101	24	100	100	101	24	113	115	116	24	112	113	115	24
7/23	106	106	107	24	100	101	102	24	101	101	101	24	114	116	117	24	112	114	118	24
7/24	106	107	107	24	101	102	103	24	101	101	102	24	113	115	116	24	113	115	116	24
7/25	102	103	105	24	101	102	103	24	102	102	102	24	113	115	116	24	112	112	113	24
7/26	102	103	104	24	101	101	102	24	101	102	102	24	113	114	115	24	111	112	114	24
7/27	103	104	106	24	101	102	102	24	103	103	104	24	111	113	114	24	112	114	117	24
7/28	104	105	106	24	101	101	102	24	102	103	103	24	112	114	115	24	112	115	118	24
7/29	102	103	105	24	101	101	102	24	102	103	104	24	111	114	115	24	113	116	118	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>24 h</u>		<u>12 h</u>		#	<u>24h</u>		<u>12h</u>		#	<u>24h</u>		<u>12h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
7/16	112	113	117	24	111	111	112	24	102	103	103	23	114	114	115	24	105	106	106	23
7/17	113	114	116	21	111	111	112	24	103	103	104	23	114	114	115	24	107	107	108	23
7/18	113	115	117	24	110	111	111	24	103	104	104	23	112	113	114	24	106	106	107	23
7/19	112	113	115	24	110	110	111	24	103	104	104	23	114	115	115	24	105	105	106	23
7/20	111	111	113	24	109	110	110	24	103	103	104	23	113	114	114	24	106	106	107	23
7/21	110	112	115	24	108	109	109	24	103	103	104	23	113	114	114	24	106	106	107	23
7/22	110	112	113	24	108	109	109	24	104	104	104	23	113	114	114	24	107	108	109	23
7/23	111	112	113	24	109	110	110	24	104	105	106	23	114	114	115	24	108	109	109	23
7/24	113	114	115	24	110	110	110	24	106	107	107	23	113	114	114	24	108	109	109	23
7/25	110	110	112	24	109	109	110	24	104	105	105	23	113	114	114	24	107	107	108	23
7/26	110	111	115	24	109	110	110	24	104	104	104	23	113	115	115	24	104	104	105	23
7/27	114	115	119	24	110	110	111	24	104	104	104	23	114	114	115	24	105	106	107	23
7/28	110	111	114	24	109	109	110	24	104	104	104	23	114	115	115	24	107	108	108	23
7/29	109	110	112	24	108	108	109	24	104	104	105	23	114	115	115	24	106	107	107	23

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>				<u>Bonneville</u>				<u>Warrendale</u>				<u>Camas\Washugal</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24h</u>		<u>12h</u>		#	
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg
7/16	112	113	113	24	105	106	106	23	113	114	116	23	110	113	115	24
7/17	113	113	114	24	106	107	107	23	110	111	111	23	109	110	113	24
7/18	112	113	113	24	106	106	107	23	112	114	115	23	116	124	125	24
7/19	112	112	113	24	106	106	106	23	113	114	115	23	119	125	125	24
7/20	112	112	113	24	105	106	106	23	112	113	116	23	111	112	114	24
7/21	113	113	113	24	106	107	107	23	111	113	114	23	109	110	112	24
7/22	113	114	115	24	107	107	108	23	112	113	114	23	110	111	112	24
7/23	114	114	115	24	109	109	110	23	113	113	114	23	110	111	111	24
7/24	114	114	114	24	110	111	111	23	114	115	116	23	110	111	112	24
7/25	113	113	114	24	108	109	110	23	114	114	115	23	110	111	112	24
7/26	112	112	113	24	105	105	106	23	112	113	114	23	111	112	113	24
7/27	112	113	113	24	104	104	104	23	114	115	117	23	111	113	115	24
7/28	113	113	114	24	105	105	105	23	113	115	117	23	111	113	114	24
7/29	113	113	113	24	105	105	106	23	110	111	111	23	108	109	112	24

Two-Week Summary of Passage Indices

COMBINED YEARLING CHINOOK												
	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)
07/16/2004	---	---	---	---	---	180	110	28	2	50	6	9
07/17/2004	*	---	---	---	---	140	125	20	0	0	0	16
07/18/2004	---	---	---	---	---	220	130	27	0	50	6	13
07/19/2004	*	---	---	---	---	100	112	40	0	25	0	0
07/20/2004	---	---	---	---	---	80	132	10	0	25	11	0
07/21/2004	*	---	---	---	---	110	62	8	0	20	0	0
07/22/2004	*	---	---	---	---	30	75	0	0	20	0	3
07/23/2004	*	---	---	---	---	40	53	8	0	0	4	3
07/24/2004	*	---	---	---	---	10	60	16	0	0	4	23
07/25/2004	*	---	---	---	---	15	72	8	0	25	4	0
07/26/2004	*	---	---	---	---	5	40	20	0	0	0	0
07/27/2004	---	---	---	---	---	0	38	3	0	0	0	0
07/28/2004	*	---	---	---	---	5	16	6	0	0	7	0
07/29/2004	*	---	---	---	---	5	12	0	0	0	0	0
07/30/2004	*	---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:	0	0	0	0	0	940	1,037	194	2	215	42	67
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	67	74	14	0	15	3	5
YTD	835	29,063	73,567	9,904	4,053	5,175,904	2,658,176	913,791	12,573	1,069,702	1,005,402	1,466,443

COMBINED SUBYEARLING CHINOOK												
	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)
07/16/2004	---	---	---	---	---	4,700	1,330	1,244	641	45,500	5,683	19,391
07/17/2004	*	---	---	---	---	4,040	1,560	1,088	313	58,775	13,753	10,822
07/18/2004	---	---	---	---	---	5,720	3,660	1,047	257	37,525	19,662	15,078
07/19/2004	*	---	---	---	---	6,390	2,769	880	391	37,650	8,358	8,646
07/20/2004	---	---	---	---	---	4,120	2,159	230	543	25,750	15,564	8,941
07/21/2004	*	---	---	---	---	2,330	463	280	373	20,260	11,927	10,736
07/22/2004	*	---	---	---	---	2,130	390	244	418	35,500	13,402	8,319
07/23/2004	*	---	---	---	---	1,240	1,669	396	631	30,960	15,836	8,444
07/24/2004	*	---	---	---	---	1,535	2,230	292	473	53,500	15,498	12,195
07/25/2004	*	---	---	---	---	1,785	566	248	352	36,000	10,582	7,500
07/26/2004	*	---	---	---	---	2,530	289	176	143	99,650	7,668	11,674
07/27/2004	---	---	---	---	---	1,495	329	450	284	50,800	10,767	11,864
07/28/2004	*	---	---	---	---	1,655	690	318	390	36,700	20,464	9,074
07/29/2004	*	---	---	---	---	1,705	498	288	512	117,400	14,438	9,323
07/30/2004	*	---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:	0	0	0	0	0	41,375	18,602	7,181	5,721	685,970	183,602	152,007
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	2,955	1,329	513	409	48,998	13,114	10,858
YTD	1,579	0	29	80	935	989,507	460,776	183,702	24,055	8,215,489	1,629,589	4,670,611

* 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

Date	COMBINED COHO											
	ENT (Coll)	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/16/2004	---	---	---	---	---	0	95	4	12	25	4	2
07/17/2004 *	---	---	---	---	---	0	105	12	2	0	6	12
07/18/2004	---	---	---	---	---	20	145	6	0	100	11	3
07/19/2004 *	---	---	---	---	---	0	160	0	0	175	0	11
07/20/2004	---	---	---	---	---	20	154	10	6	125	18	0
07/21/2004 *	---	---	---	---	---	10	86	0	9	20	4	0
07/22/2004 *	---	---	---	---	---	10	75	8	5	20	7	0
07/23/2004 *	---	---	---	---	---	0	152	16	3	20	12	3
07/24/2004 *	---	---	---	---	---	5	164	16	3	100	19	7
07/25/2004 *	---	---	---	---	---	5	60	12	6	0	7	6
07/26/2004 *	---	---	---	---	---	10	24	4	3	0	0	12
07/27/2004	---	---	---	---	---	0	46	6	2	100	4	0
07/28/2004 *	---	---	---	---	---	0	14	6	3	0	0	0
07/29/2004 *	---	---	---	---	---	5	23	6	0	0	0	0
07/30/2004 *	---	---	---	---	---	---	---	---	---	---	---	---

Total:	0	0	0	0	0	85	1,303	106	54	685	92	56
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	6	93	8	4	49	7	4
YTD	0	0	0	0	45	259,398	127,208	15,900	28,659	90,676	175,311	937,974

Date	COMBINED STEELHEAD											
	ENT (Coll)	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/16/2004	---	---	---	---	---	340	285	20	0	0	1	0
07/17/2004 *	---	---	---	---	---	260	220	44	3	0	7	0
07/18/2004	---	---	---	---	---	240	295	15	0	25	0	0
07/19/2004 *	---	---	---	---	---	310	352	40	0	0	0	6
07/20/2004	---	---	---	---	---	330	250	10	0	0	0	0
07/21/2004 *	---	---	---	---	---	230	153	12	0	20	4	0
07/22/2004 *	---	---	---	---	---	150	90	16	0	0	4	0
07/23/2004 *	---	---	---	---	---	150	168	20	0	0	4	0
07/24/2004 *	---	---	---	---	---	325	193	44	0	0	16	3
07/25/2004 *	---	---	---	---	---	440	248	32	0	0	4	0
07/26/2004 *	---	---	---	---	---	265	164	8	0	0	1	0
07/27/2004	---	---	---	---	---	160	81	9	0	0	7	0
07/28/2004 *	---	---	---	---	---	130	67	6	0	0	0	0
07/29/2004 *	---	---	---	---	---	130	56	21	2	0	0	0
07/30/2004 *	---	---	---	---	---	---	---	---	---	---	---	---

Total:	0	0	0	0	0	3,460	2,622	297	5	45	48	9
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	247	187	21	0	3	3	1
YTD	195	2,106	36,152	1,857	8,418	5,826,041	1,915,938	343,122	10,713	124,510	257,194	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)
07/16/2004	---	---	---	---	---	0	0	0	4	200	3	0
07/17/2004 *	---	---	---	---	---	0	0	0	3	175	7	3
07/18/2004	---	---	---	---	---	0	0	0	0	250	6	10
07/19/2004 *	---	---	---	---	---	0	0	0	0	175	0	11
07/20/2004	---	---	---	---	---	0	0	0	1	0	0	5
07/21/2004 *	---	---	---	---	---	0	0	0	3	40	7	13
07/22/2004 *	---	---	---	---	---	0	0	0	5	160	0	7
07/23/2004 *	---	---	---	---	---	0	0	0	0	40	4	7
07/24/2004 *	---	---	---	---	---	0	0	0	0	60	12	10
07/25/2004 *	---	---	---	---	---	0	0	0	0	225	4	0
07/26/2004 *	---	---	---	---	---	0	0	0	0	50	0	0
07/27/2004	---	---	---	---	---	0	0	0	2	200	4	0
07/28/2004 *	---	---	---	---	---	0	0	0	2	0	22	5
07/29/2004 *	---	---	---	---	---	0	0	0	0	100	0	17
07/30/2004 *	---	---	---	---	---	---	---	---	---	---	---	---

Total:	0	0	0	0	0	0	0	0	20	1,675	69	88
# Days:	0	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	0	0	0	1	120	5	6
YTD	6	9	0	0	25	7,564	4,716	955	7,108	308,813	235,747	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
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 2 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$
- MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 2 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$
- BO1 (Index) = Bonneville Dam First Powerhouse Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 1 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$

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:

7/30/04 11:31 AM

07/17/04 TO 07/30/04

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	41,375	940	85		3,460	45,860
	Sum of NumberBarged	38,583	929	82		3,426	43,020
	Sum of NumberBypassed	2,372	0	0		0	2,372
	Sum of Numbertrucked	0	0	0		0	0
	Sum of TotalProjectMortalities	420	11	3		34	468
LGS	Sum of NumberCollected	18,602	1,037	1,303		2,622	23,564
	Sum of NumberBarged	18,307	1,031	1,284		2,567	23,189
	Sum of NumberBypassed	0	0	0		0	0
	Sum of Numbertrucked	0	0	0		0	0
	Sum of TotalProjectMortalities	295	6	19		55	375
LMN	Sum of NumberCollected	7,181	194	106		297	7,778
	Sum of NumberBarged	6,424	181	106		290	7,001
	Sum of NumberBypassed	639	0	0		0	639
	Sum of Numbertrucked	0	0	0		0	0
	Sum of TotalProjectMortalities	118	13	0		7	138
MCN	Sum of NumberCollected	685,970	215	685	1,675	45	688,590
	Sum of NumberBarged	609,207	285	657	1,643	20	611,812
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	13,806	30	77	82	25	14,020
Total Sum of NumberCollected		753,128	2,386	2,179	1,675	6,424	765,792
Total Sum of NumberBarged		672,521	2,426	2,129	1,643	6,303	685,022
Total Sum of NumberBypassed		3,011	0	0	0	0	3,011
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		14,639	60	99	82	121	15,001

YTD Transportation Summary

Source: Fish Passage Center

Updated:

7/30/04 11:31 AM

TO: 07/30/04

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	959,291	4,846,381	252,779	7,253	5,674,875	11,740,579
	Sum of NumberBarged	908,320	4,627,869	238,900	6,734	5,366,551	11,148,374
	Sum of NumberBypassed	46,049	151,332	13,352	285	289,607	500,625
	Sum of NumberTrucked	129	43,991	220	181	15,496	60,017
	Sum of TotalProjectMortalities	4,793	23,189	307	53	3,218	31,560
LGS	Sum of NumberCollected	460,509	2,572,650	123,951	4,664	1,869,842	5,031,616
	Sum of NumberBarged	459,678	2,569,007	123,811	4,658	1,866,430	5,023,584
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of NumberTrucked	0	2,096	0	2	1,333	3,431
	Sum of TotalProjectMortalities	828	1,506	43	4	2,075	4,456
LMN	Sum of NumberCollected	175,739	843,324	14,865	901	287,966	1,322,795
	Sum of NumberBarged	168,375	834,154	14,858	900	284,526	1,302,813
	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	688	1,485	4	0	695	2,872
MCN	Sum of NumberCollected	7,477,836	657,998	56,919	190,461	76,214	8,459,428
	Sum of NumberBarged	6,246,912	8,039	5,009	10,139	1,291	6,271,390
	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	64,782	2,908	168	1,050	311	69,219
Total Sum of NumberCollected		9,073,375	8,920,353	448,514	203,279	7,908,897	26,554,418
Total Sum of NumberBarged		7,783,285	8,039,069	382,578	22,431	7,518,798	23,746,161
Total Sum of NumberBypassed		1,097,442	804,609	65,097	179,459	366,360	2,512,967
Total Sum of NumberTrucked		139	47,439	220	183	17,433	65,414
Total Sum of TotalProjectMortalities		71,091	29,088	522	1,107	6,299	108,107

Cumulative Adult Passage at Mainstem Dams Through: 07/29

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	91,223	12,733	113,332	12,995	46,157	6,159	0	0	0	0	0	0
TDA	130,240	7,717	131,207	11,522	87,249	5,199	77,939	8,217	99,032	9,769	39,095	4,364	0	0	0	0	0	0
JDA	112,153	6,367	101,436	10,206	72,403	4,083	70,780	10,178	92,743	9,289	36,426	3,816	0	0	0	0	0	0
MCN	107,497	7,682	95,550	11,123	66,222	4,195	62,574	8,277	90,193	10,167	35,887	3,846	0	0	0	0	0	0
IHR	76,806	4,646	78,170	8,020	44,313	2,700	12,453	2,834	20,504	4,561	8,873	1,498	0	0	0	0	0	0
LMN	71,673	3,786	70,603	7,344	42,703	2,607	10,429	2,176	18,495	3,488	8,625	1,245	0	0	0	0	0	0
LGS	62,458	3,404	69,017	7,079	41,666	2,708	9,159	2,227	14,062	3,470	7,494	1,492	0	0	0	0	0	0
LWG	70,742	4,482	70,609	8,295	40,647	2,828	8,688	2,455	16,079	4,032	7,646	1,611	0	0	0	0	0	0
PRD	13,521	1,020	18,136	656	14,413	382	62,082	5,167	74,540	2,605	28,978	930	0	0	0	0	0	0
RIS	10,917	958	16,881	753	11,256	609	54,860	4,075	68,857	4,166	24,314	2,670	0	0	0	0	0	0
RRH	4,365	734	4,216	450	4,023	171	34,303	6,296	49,862	3,573	16,154	1,180	0	0	0	0	0	0
WEL	4,615	178	4,504	198	2,563	172	21,987	743	29,929	646	10,091	473	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	0	0	8	0	5	0	122,994	39,109	42,499	85,188	102,607	74,954	37,786
TDA	0	0	0	0	0	0	107,327	34,076	34,522	31,783	41,800	34,921	15,101
JDA	0	0	0	0	1	0	112,678	35,201	37,673	28,456	33,451	25,794	12,782
MCN	0	0	0	0	0	0	89,630	31,987	33,214	19,307	23,159	17,509	7,831
IHR	0	0	0	0	0	0	157	37	18	12,093	13,389	8,716	3,663
LMN	0	0	0	0	0	0	71	14	24	8,708	10,125	7,658	2,736
LGS	0	0	0	0	0	0	78	22	26	5,389	7,188	4,953	2,088
LWG	0	0	0	0	0	0	110	10	22	10,359	19,349	8,201	3,598
PRD	0	0	2	1	3	0	124,418	36,043	39,793	3,772	2,586	1,414	0
RIS	0	0	9	0	1	0	105,436	34,241	35,692	2,457	1,284	805	2,189
RRH	0	0	2	0	1	0	79,403	29,504	22,488	2,044	945	506	1,785
WEL	0	0	0	0	0	0	74,449	27,371	20,693	792	354	206	609

WEL is through 07/26. RIS, RRH are through 07/27.

IHR is missing 06/18, 07/02. LGR has duplicate data 07/14 and 07/15.

**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: 07/30/04

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

