Fish Passage Center

Weekly Report #04 - 18

July 09, 2004

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Highlights:

- **The July Final Water Supply Forecasts have decreased slightly with respect to the June Final forecasts. All locations remain below average in terms of Water Supply.**

- **Flows at Lower Granite have averaged 42.9 Kcfs over the summer flow period; the flow objective is 50 Kcfs.**

- **Flows at McNary have averaged 162.5 Kcfs over the summer flow period; the summer flow objective at McNary is 200 Kcfs.**

- **In accordance with SOR 2004-17, which was submitted to the Action Agencies this past week; outflows are currently at the Dworshak powerhouse capacity (approximately 9.5 Kcfs) and will be further increased to 12 Kcfs on July 12th, 2004.**

Summary of Events:

Water Supply: Columbia Basin precipitation throughout the first twenty-eight days of June has generally been below average in most basins. Over the entire water year, precipitation remains slightly below average in most basins.

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

Location	Water Year 2004 June 1-28		Water Year 2004 October 1, 2003 to June 28, 2004	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.74	78	19.10	94
Snake River Above Ice Harbor	1.20	88	13.98	93
Columbia Above The Dalles	1.48	88	18.85	96
Kootenai	1.91	83	19.13	92
Clark Fork	1.40	78	13.02	92
Flathead	1.82	74	16.97	91
Pend Oreille/Spokane	1.65	81	25.90	96
Central Washington	0.58	98	7.31	92
Snake River Plain	0.62	70	7.84	82
Salmon/Boise/ Payette	0.89	65	15.91	91
Clearwater	1.71	74	27.61	104
SW Washington Cascades/Cowlitz	2.47	89	58.36	89
Willamette Valley	2.04	97	52.36	94

The July Final Water Supply Forecasts have decreased slightly with respect to the June Final forecasts. All locations in Table 2 remain below average in terms of Water Supply.

Table 2. June Final and July Final Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins.

Location	June Final		July Final	
	% Average (1971-2000)	Probable Runoff Volume (Kaf)	% Average (1971-2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	79	85100	78	83700
Grand Coulee (Jan-July)	84	53000	83	52300
Libby Res. Inflow, MT (Jan-July)	76	4820	73	4580
Hungry Horse Res. Inflow, MT (Jan-July)	91	2020	86	1920
Lower Granite Res. Inflow (Apr- July)	71	15400	71	15200
Brownlee Res. Inflow (Apr-July)	44	2790	43	2690
Dworshak Res. Inflow (Apr-July)	91	2400	91	2400

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 42.9 Kcfs over the summer flow period; the flow objective is 50 Kcfs.

The summer flow period began at McNary on July 1st with a flow objective of 200 Kcfs. Flows have averaged 162.5 Kcfs at McNary.

Grand Coulee reached its maximum elevation of the season of 1289.3 feet on July 5th, 2004 and is currently at an elevation of 1288.2.0 feet (7-8-04). Because the July Final (April-August) water supply forecast at The Dalles is less than 92 Maf, the summer draft limit a Grand Coulee will be 1278 feet.

The Libby Reservoir is currently releasing a constant 12.5 Kcfs, as requested in SOR 2004-14. Inflows to Libby are still relatively high (averaged 20.8 Kcfs last week), enabling Libby to continue to refill despite outflows of 12.5 Kcfs. Libby is currently at an elevation of 2449.1 feet and refilling approximately 0.3 feet per day.

The Hungry Horse Reservoir is currently at an elevation of 3559.1 feet (7-8-04). According to the 2000 Biological Opinion, Libby will draft to elevation 3540 feet by the end of August for summer flow augmentation.

The Dworshak Reservoir is currently at an elevation of 1595.8 feet (7-8-04). In accordance with SOR 2004-17, which was submitted to the Action Agencies this past week; outflows are currently at the Dworshak powerhouse capacity (approximately 9.5 Kcfs) and will be further increased to 12 Kcfs on July 12th, 2004.

The Brownlee Reservoir is currently at an elevation of 2075.7 feet (7-8-04), 1.3 feet from full. Outflows to Brownlee have ranged between 5.4 and 13.9 Kcfs over the last week.

Spill: The summer spill program is continuing at the mid-Columbia projects. 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 daily average spill of 80% from July 2 through July 8. During the same time period, summer spill continued at the Lower Columbia projects with 30.0% daily average John Day, 39.5% daily average at The Dalles and 42% daily average at Bonneville dam. At 0600 on June 21, spill for fish passage at The Dalles was changed to the summer program of 30% spill 24 hours per day. Spill for fish passage at McNary Dam was modified on the basis of the occurrence of "summer conditions" with flows decreasing below the spring target. The summer program at McNary focuses on the maximization of transportation of fall chinook juveniles. McNary is operating within its 1% peak efficiency range which results in an involuntary spill condition when flows exceed 174 kcfs. Involuntary spill occurred at McNary dam from June 28 through July 1, with a day average of 9%. Spill has not occurred at McNary Dam since July 1.

Gas bubble trauma monitoring is continuing at Mid-Columbia sites, and at Bonneville Dam, no symptoms of gas bubble trauma have been observed.

Smolt Monitoring: Subyearling chinook indices decreased at most sites over the past week except at Rock Island in the Mid-Columbia where numbers remained relatively similar to the previous week.

At Lower Granite Dam, subyearling chinook indices were down from an average index of 24,000 per day last week to nearly 13,000 per day this week. Of the wild subyearling PIT-tags passing Lower Granite Dam, Snake River origin fish continue to pass in relatively good numbers with over 240 fish detected since July 1, while the first few detections of fish marked in the Clearwater River were seen this week. Little Goose and Lower Monumental dams also had drops in subyearling chinook numbers over the past week to a lesser extent, with the index averaging 8,000 per day at Little Goose, and 4,000 per day at Lower Monumental compared to 13,000 and 5,000 last week respectively.

At Rock Island Dam the numbers of subyearling chinook remained relatively steady with the index averaging 300 per day the past two weeks.

In the Lower Columbia, at McNary Dam, based on full samples taken every day, subyearling chinook indices averaged nearly 200,000 per day this week compared to 500,000 per day last week. At John Day Dam the subyearling average index was 35,000 per day this week compared to 62,000 last week, while at Bonneville Dam the average index was 67,000 compared to 150,000 last week.

Hatchery Releases: The scheduled release of juvenile salmonids from Columbia River Basin hatcheries above Bonneville Dam for the 2004 migration season totals about 83.2 million for the season with all yearling chinook, coho, steelhead, sockeye, and subyearling chinook in river to date. Supplemental and planned releases made during fall 2003 were considered to be 2004 migrants. The 2004 Hatchery Zone Report gives the latest numbers received for this year's report.

Hatcheries in the Snake and Columbia River basins finished release of about 5 million juvenile salmon during the past two weeks. No releases are scheduled for the next two weeks. See the Hatchery Release Summary Tables for details of individual release groups.

2004 Hatchery Zone Report

	Friday 9-July-2004			
Race/Species	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	2,580,499	12,511,808	21,958,796	37,051,103
Spring Chinook	10,492,087	3,975,400	5,175,531	19,643,018
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	10,853,376
Winter Steelhead			70,000	70,000
Total	26,104,883	23,500,934	33,618,547	83,224,364

Snake - Releases of 2004 migration fish from hatcheries is completed for the year.

Mid-Columbia - The last release of subyearling summer chinook from Turtle Rock Hatchery was completed the end of June and this should complete the hatchery plants for the 2004 season.

Lower Columbia - The final release of subyearling fall chinook from Klickitat Hatchery was completed by July 2, and that should be the final release of fish migrating in 2004.

Adult Fish Passage: At Bonneville Dam, summer chinook passage ranged from 1,376 to 1,940 per day for the week ending July 8. To date, 74,262 adult summer chinook have been counted, and this total compares to 89,926 in 2003 and 35,117 for the 10-year average at Bonneville Dam. The passage through McNary Dam totaled 47,906 through July 8 with the turnoff into the Snake River at 10,256 (Ice Harbor count), and the count at Priest Rapids near 35,400 through July 5. Daily counts of adult summer chinook at Ice Harbor Dam

averaged 168 per day through this count week while daily counts at Priest Rapids Dam range between 1,300 and 2,000 for the week. For the season, chinook passage into the Snake River is reduced from 2003 (about 54% of 03 count) while the Mid-Columbia passage in 2004 is so far running slightly above the 2003 counts at Priest Rapids Dam.

Steelhead passage at Bonneville Dam continued to increase with daily passage counts that averaged 1,298 for the week ending July 8; greater than one half of these fish are now passing upstream at The Dalles Dam (ave = 710 per day). The steelhead run remained about 1.3 and 1.5 times greater than the respective 2003 and 10-year average through July 8 at Bonneville Dam. Steelhead passage is beginning to increase in the Snake River as well as in the Mid-Columbia with counts at Ice Harbor Dam greater than 200 per day and at Priest Rapids Dam near 100 per day through the count week. As or if water temperatures increase in the main Columbia River, a portion of the fish bound for upriver sites will temporarily reside in some of the backwater areas of tributaries that have cooler water temperatures than the mainstem river.

Sockeye numbers at Bonneville Dam continued to decrease with fell from near 2,200 early in the week to 1,400 by the end of the count week; the total count through July 8 was 116,070. This total compares to only 34,903 and 38,217 for the respective 2003 and 10-year average. The majority of sockeye are now passing Rock Island and Rocky Reach dams and will be destined for the Wenatchee and Okanogan River basins. Of the 65,000 sockeye above Rock Island Dam, 42,400 have already passed Rocky Reach, indicating a greater portion of this year's sockeye return will again be bound for the Okanogan River system as opposed to those bound for the Wenatchee River system (difference between the Rock Island count and the Rocky Reach count). As a note, 68 sockeye have been counted at Lower Granite Dam and should be destined for the upper Salmon River basin.

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
06/25/04	121.4	0.2	117.3	0.0	121.5	7.9	117.4	11.8	122.7	27.2	130.3	36.8	122.2	68.4
06/26/04	114.8	0.1	113.7	0.0	121.7	7.8	119.0	11.2	123.6	24.7	134.4	38.4	129.8	72.6
06/27/04	93.0	0.2	92.0	0.0	101.3	7.6	102.0	10.3	108.1	20.4	117.5	32.8	113.0	63.0
06/28/04	147.4	0.2	141.3	0.0	149.9	8.6	141.4	12.9	144.0	30.7	154.5	43.2	147.9	83.3
06/29/04	146.1	0.2	154.4	0.0	168.6	10.0	167.3	13.0	169.2	32.3	181.7	51.0	176.4	98.2
06/30/04	143.6	0.2	139.3	0.0	148.3	10.0	146.8	13.1	147.0	30.8	161.8	45.4	159.7	90.1
07/01/04	93.3	0.2	100.2	0.0	109.7	7.5	113.2	12.1	118.8	29.2	141.1	39.4	132.3	73.7
07/02/04	106.7	0.2	106.3	0.0	112.7	8.1	112.6	9.5	115.6	19.5	113.5	32.6	105.9	58.6
07/03/04	95.4	0.2	94.9	0.0	100.0	7.4	96.4	8.6	99.0	18.6	105.8	31.8	102.6	55.4
07/04/04	82.8	0.3	79.8	0.0	84.2	6.2	84.9	5.9	90.1	12.1	99.9	29.9	95.9	51.9
07/05/04	90.9	0.2	106.5	0.0	118.4	7.7	116.6	8.3	118.9	20.1	143.0	43.3	136.8	73.9
07/06/04	134.8	0.2	124.4	0.0	125.7	7.8	118.7	12.7	118.7	29.1	116.8	35.0	115.5	62.2
07/07/04	125.8	0.2	125.9	0.0	131.1	8.1	130.6	12.5	133.4	28.9	140.1	42.1	129.1	69.9
07/08/04	125.6	0.2	124.3	0.0	129.8	7.9	127.9	11.5	130.0	26.7	141.8	42.4	137.7	74.4

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
06/25/04	5.2	0.0	10.2	9.8	52.9	0.0	53.1	0.0	53.9	0.0	56.8	41.2
06/26/04	5.2	0.0	8.8	8.4	43.6	0.0	45.0	0.0	46.5	0.0	48.2	39.5
06/27/04	5.2	0.0	10.2	8.6	44.3	0.0	43.6	0.0	44.2	0.0	46.2	37.9
06/28/04	3.4	0.0	10.1	8.1	43.4	0.0	43.8	0.0	45.9	0.0	50.0	39.1
06/29/04	2.2	0.0	9.2	7.7	38.4	0.0	38.7	0.0	38.6	0.0	38.3	23.2
06/30/04	4.4	0.1	10.1	7.5	38.2	0.0	39.1	0.0	39.8	0.0	41.3	33.9
07/01/04	6.9	0.0	9.9	7.6	42.1	0.0	41.9	0.0	42.9	0.0	45.6	29.9
07/02/04	7.0	0.0	11.4	7.6	41.3	0.0	41.4	0.0	42.4	0.0	43.9	34.3
07/03/04	7.0	0.0	10.4	14.2	43.9	0.0	44.8	0.0	46.1	0.0	49.8	39.3
07/04/04	7.0	0.0	8.0	9.0	37.3	0.0	37.2	0.0	37.7	0.0	40.0	32.6
07/05/04	7.0	0.0	10.6	7.9	36.2	0.0	36.4	0.0	37.7	0.0	38.4	31.2
07/06/04	8.9	0.0	9.0	8.9	36.5	0.0	36.9	0.0	37.3	0.0	39.2	31.8
07/07/04	9.5	0.0	9.8	9.8	36.7	0.0	37.6	0.0	39.2	0.0	41.8	31.3
07/08/04	9.5	0.0	---	---	36.7	0.0	36.2	0.0	36.7	0.0	38.3	31.5

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
06/25/04	174.7	0.0	172.3	51.5	169.3	65.8	193.6	50.4	27.6	104.2
06/26/04	168.3	0.0	171.9	51.2	176.2	70.6	203.4	77.5	14.8	99.7
06/27/04	166.6	0.0	174.0	52.2	171.8	68.5	199.2	94.9	0.0	92.9
06/28/04	174.7	7.7	180.3	53.7	180.5	72.0	211.2	67.9	28.2	103.7
06/29/04	187.6	15.2	170.5	50.4	177.0	66.6	192.9	50.9	24.5	106.1
06/30/04	198.7	26.7	205.2	60.8	195.5	78.2	216.6	77.6	16.6	111.0
07/01/04	189.8	19.7	176.3	51.7	178.7	70.3	201.5	94.1	8.0	87.9
07/02/04	166.9	0.0	174.3	52.4	174.8	69.4	206.4	70.0	15.9	109.0
07/03/04	136.9	0.0	131.1	39.0	129.5	51.9	162.1	50.9	3.9	95.9
07/04/04	144.9	0.0	148.7	44.9	150.6	59.5	176.8	76.6	0.0	88.8
07/05/04	160.7	0.0	159.0	48.0	163.0	64.2	181.7	90.3	0.0	80.0
07/06/04	169.1	0.0	171.2	51.5	168.0	66.7	203.8	97.0	0.0	95.4
07/07/04	168.7	0.0	157.6	46.8	161.1	62.7	190.2	97.0	0.0	81.8
07/08/04	163.0	0.0	174.0	52.2	169.1	66.6	190.6	69.1	10.3	99.9

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: 6/25/2004 to 7/8/2004

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Clearwater Hatchery	CH0	SP	2004	390303	06-30-04	07-03-04	Meadow Creek - SELW	Selway River
Nez Perce Tribe Total					**390303**				
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH0	SU	2004	298,014	06-28-04	06-30-04	Turtle Rock Hatchery	Mid-Columbia R
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH0	SU	2004	493,178	06-28-04	06-30-04	Turtle Rock Hatchery	Mid-Columbia R
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CH0	FA	2004	4,220,000	06-14-04	07-02-04	Klickitat Hatchery	Klickitat River
Washington Dept. of Fish and Wildlife Total					**5,011,192**				
Grand Total					**5,401,495**				

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

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											
	07/01/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/05/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/08/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	06/29/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/03/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/06/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	07/01/04	Chinook + Steelhead	99	0	0	0.00%	0.00%	0	0	0	0
	07/08/04	Chinook + Steelhead	50	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

	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
6/25	---	---	---	0	118	119	121	24	108	109	109	24	108	108	110	24	109	110	110	23
6/26	---	---	---	0	118	119	121	21	109	110	111	24	108	109	110	24	110	110	110	23
6/27	---	---	---	0	117	118	119	24	109	109	110	24	108	109	111	24	109	109	110	23
6/28	---	---	---	0	118	119	124	21	109	110	110	24	108	109	111	24	109	110	110	23
6/29	---	---	---	0	---	---	---	0	110	110	111	24	109	109	111	24	110	110	111	23
6/30	---	---	---	0	---	---	---	0	110	111	112	24	109	109	111	24	109	110	110	23
7/1	---	---	---	0	122	122	123	8	111	111	111	22	108	109	110	25	110	110	110	23
7/2	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/3	---	---	---	0	123	124	125	14	111	111	112	24	109	110	112	24	110	110	111	23
7/4	---	---	---	0	---	---	---	0	112	112	112	24	109	110	111	24	111	111	111	23
7/5	---	---	---	0	---	---	---	0	112	112	112	24	109	110	112	24	110	110	111	23
7/6	---	---	---	0	118	118	118	11	113	113	114	21	110	111	113	20	111	111	112	23
7/7	---	---	---	0	116	116	117	24	114	114	115	24	109	110	112	24	111	111	111	23
7/8	---	---	---	0	115	116	116	24	114	115	115	24	110	111	112	24	110	110	110	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
6/25	110	110	111	23	109	109	110	24	110	111	111	24	111	112	112	24	112	113	113	24
6/26	110	110	112	23	109	110	110	24	111	111	112	24	111	111	111	24	112	112	112	24
6/27	110	110	111	23	109	110	111	24	111	111	112	24	110	111	111	24	111	112	112	24
6/28	110	110	110	23	110	110	110	24	111	111	112	24	111	112	112	24	112	113	113	24
6/29	110	110	111	23	110	110	110	24	111	112	112	24	112	112	113	24	113	113	114	24
6/30	110	111	112	22	110	110	111	24	111	112	112	24	111	112	112	24	112	113	113	24
7/1	110	110	112	23	110	110	111	14	111	111	112	14	111	112	112	25	112	113	113	25
7/2	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/3	110	111	112	23	---	---	---	0	---	---	---	0	111	111	112	24	112	112	112	24
7/4	112	112	113	23	---	---	---	0	---	---	---	0	110	111	111	24	111	111	112	24
7/5	110	111	112	23	---	---	---	0	---	---	---	0	110	111	111	24	111	111	112	24
7/6	111	112	112	23	---	---	---	0	---	---	---	0	111	111	112	24	112	112	113	24
7/7	111	111	113	23	110	110	111	15	111	112	112	15	111	111	111	24	112	112	112	24
7/8	110	110	111	23	109	110	110	24	111	111	112	24	110	110	111	24	111	111	112	24

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
6/25	112	112	113	24	117	117	118	24	115	116	118	23	114	115	115	23	114	115	116	23
6/26	111	111	112	24	117	117	119	24	112	112	114	23	113	114	114	23	111	112	113	23
6/27	110	111	112	24	116	117	118	24	112	113	115	23	113	113	114	23	111	112	114	23
6/28	111	112	113	24	117	118	119	24	113	114	116	23	113	114	115	23	112	113	114	23
6/29	112	112	113	24	117	118	118	24	114	115	117	23	114	115	115	23	113	113	114	23
6/30	111	112	112	24	117	118	119	24	114	115	115	23	114	114	115	23	113	113	114	23
7/1	111	112	112	25	118	118	119	25	---	---	---	0	---	---	---	0	---	---	---	0
7/2	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/3	111	111	111	24	116	117	118	24	---	---	---	0	---	---	---	0	---	---	---	0
7/4	110	110	111	24	114	115	117	24	---	---	---	0	---	---	---	0	---	---	---	0
7/5	110	110	111	24	115	116	118	24	---	---	---	0	---	---	---	0	---	---	---	0
7/6	111	111	112	24	117	118	119	24	---	---	---	0	---	---	---	0	---	---	---	0
7/7	110	111	112	24	117	117	119	24	---	---	---	0	---	---	---	0	---	---	---	0
7/8	110	111	111	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

	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
6/25	117	119	119	23	112	113	113	24	103	103	104	24	102	103	104	24	103	104	104	24
6/26	116	118	119	23	112	112	113	24	103	104	104	24	102	103	104	24	103	104	105	24
6/27	115	117	118	23	111	112	112	24	103	103	104	24	102	103	104	24	102	104	105	24
6/28	117	118	119	23	112	112	113	24	102	103	104	24	101	102	103	24	102	103	104	24
6/29	119	119	120	23	113	113	114	24	103	104	108	21	101	103	104	24	102	103	104	24
6/30	119	119	120	23	113	114	114	24	103	104	109	24	102	104	106	24	103	104	105	24
7/1	---	---	---	0	113	114	114	25	103	103	104	24	103	104	105	25	102	103	104	25
7/2	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/3	---	---	---	0	110	111	112	24	102	103	103	24	103	104	105	24	102	103	104	24
7/4	---	---	---	0	109	109	110	24	102	102	103	24	103	104	105	24	102	103	104	24
7/5	---	---	---	0	109	110	111	24	101	102	102	24	103	104	105	24	102	103	104	24
7/6	---	---	---	0	111	113	114	24	100	100	101	24	102	103	104	24	102	103	104	24
7/7	---	---	---	0	110	111	112	24	100	100	100	24	102	103	103	24	102	103	104	24
7/8	---	---	---	0	108	109	111	21	100	100	100	24	102	103	104	24	102	103	104	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
6/25	102	104	105	24	105	106	109	24	103	103	103	24	108	109	111	24	105	106	106	24
6/26	102	103	105	23	105	105	108	24	103	103	103	24	104	105	106	24	104	104	104	24
6/27	102	104	105	24	104	104	107	24	102	102	102	24	104	104	105	24	103	103	104	24
6/28	102	103	104	24	105	107	112	24	102	102	103	24	106	107	112	24	104	104	105	24
6/29	101	103	104	24	111	112	116	24	103	104	105	24	111	112	113	24	105	105	106	24
6/30	102	104	106	24	107	109	111	24	103	104	104	24	108	110	111	24	104	105	105	24
7/1	102	104	104	25	110	113	115	25	102	103	104	25	103	104	105	25	103	103	104	25
7/2	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/3	103	104	106	24	102	103	104	24	101	101	102	24	103	104	105	24	103	103	104	24
7/4	103	105	106	24	101	102	104	24	100	100	100	24	102	103	103	24	102	103	103	24
7/5	103	105	106	24	104	106	109	24	100	101	101	24	103	105	107	24	102	103	103	24
7/6	103	105	106	24	105	107	109	24	101	101	102	24	102	104	108	24	101	102	103	24
7/7	102	104	105	24	101	101	104	24	100	101	101	24	99	99	100	24	100	100	101	24
7/8	102	105	106	24	101	103	106	24	101	101	102	24	100	101	102	24	100	101	101	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
6/25	108	108	110	24	107	107	110	24	107	107	109	24	112	113	114	24	117	120	123	24
6/26	107	108	109	24	106	106	107	24	106	107	107	24	114	116	117	24	114	114	116	24
6/27	106	107	107	24	105	106	107	24	106	106	107	24	114	116	116	24	112	113	118	24
6/28	107	109	112	24	106	106	107	24	107	108	109	24	113	114	116	24	113	116	118	24
6/29	110	112	112	24	105	105	106	24	108	109	111	24	110	112	115	24	112	113	116	23
6/30	106	107	109	24	104	105	105	24	108	108	109	24	114	116	117	24	114	115	118	24
7/1	106	107	109	25	104	105	106	25	107	108	110	24	115	117	117	25	114	116	117	25
7/2	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/3	105	106	107	24	104	104	105	24	106	106	108	24	112	113	114	24	111	112	112	24
7/4	104	104	105	24	103	103	104	24	105	105	106	24	113	115	116	24	111	112	115	24
7/5	104	104	106	24	102	102	103	24	104	105	105	24	114	115	116	24	113	116	117	24
7/6	104	105	106	24	102	103	103	24	104	104	105	24	112	113	114	24	112	113	114	24
7/7	103	103	104	24	102	102	102	24	103	104	105	24	110	112	113	24	107	108	108	24
7/8	102	103	103	24	102	102	103	24	103	103	104	24	112	116	116	24	108	109	111	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
6/25	115	116	116	24	114	114	114	24	111	111	112	23	115	115	116	24	108	108	108	23
6/26	113	113	114	24	112	112	113	24	109	109	110	23	115	115	115	24	107	108	108	23
6/27	111	112	115	24	110	110	111	24	107	107	108	23	115	115	116	24	107	107	108	23
6/28	113	114	117	24	111	112	112	24	107	107	107	23	115	116	117	24	108	109	109	23
6/29	114	115	116	24	112	113	113	24	107	107	108	23	115	115	116	24	109	109	109	23
6/30	113	113	114	24	113	113	113	24	107	107	107	23	116	117	118	23	108	108	109	23
7/1	112	113	113	25	112	113	114	25	106	107	107	23	115	116	118	24	108	108	109	23
7/2	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/3	111	111	111	24	110	110	111	24	105	106	106	23	114	114	115	24	106	106	107	23
7/4	110	111	115	24	109	109	110	24	104	105	105	23	114	115	115	24	105	105	105	23
7/5	111	112	113	24	108	109	109	24	103	104	104	23	115	115	115	24	105	106	106	23
7/6	110	112	113	24	109	109	109	24	104	104	104	23	115	115	115	24	106	107	107	23
7/7	108	108	108	24	107	108	108	24	103	103	104	23	114	115	115	24	105	105	106	23
7/8	108	109	110	24	107	108	109	24	102	103	103	23	115	115	115	24	105	105	106	23

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

	The Dalles Dnst				Bonneville				Warrendale				Camas\Washugal				
	24 h	12 h		#	24 h	12 h		#	24h	12h		#	24h	12h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/25	113	113	114	24	105	105	106	23	108	108	109	23	107	108	109	24
6/26	113	113	114	24	105	106	106	23	109	110	111	23	107	108	109	24
6/27	113	113	113	24	106	107	107	23	112	114	116	23	108	111	113	24
6/28	113	114	114	24	107	108	108	23	112	115	118	23	110	112	115	24
6/29	113	114	114	24	108	108	109	23	109	109	110	23	108	109	110	24
6/30	114	115	115	24	108	108	108	23	110	110	111	19	108	109	110	24
7/1	114	115	115	25	107	107	108	23	113	114	117	23	109	112	114	25
7/2	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/3	113	113	113	24	107	107	107	23	109	111	112	23	107	108	109	24
7/4	112	112	113	24	105	105	106	23	110	111	111	23	107	108	109	24
7/5	113	113	113	24	105	105	105	23	112	113	115	19	108	111	113	24
7/6	113	114	114	24	105	106	106	23	112	114	118	23	109	112	114	24
7/7	111	112	112	24	105	105	106	23	111	113	117	23	107	109	112	24
7/8	112	113	113	24	105	105	106	23	111	114	119	23	109	111	114	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)
06/25/2004		0	---	---	---	---	1,750	200	7	0	900	87	307
06/26/2004	*	0	---	---	---	---	1,150	74	14	0	400	29	164
06/27/2004	*	0	---	---	---	---	450	350	12	0	400	31	186
06/28/2004		0	---	---	---	---	1,360	725	75	0	800	1	41
06/29/2004		0	---	---	---	---	200	50	0	1	1,181	50	35
06/30/2004		2	---	---	---	---	340	200	21	6	781	37	34
07/01/2004	*	---	---	---	---	---	425	75	0	8	443	21	43
07/02/2004	*	---	---	---	---	---	275	300	90	0	0	18	42
07/03/2004		---	---	---	---	---	425	300	75	8	0	43	64
07/04/2004		---	---	---	---	---	200	200	45	1	100	17	16
07/05/2004		---	---	---	---	---	250	120	25	0	600	3	22
07/06/2004		---	---	---	---	---	300	50	15	0	600	4	39
07/07/2004		---	---	---	---	---	50	53	10	0	600	3	46
07/08/2004	*	---	---	---	---	---	150	173	0	3	300	39	32
Total:		**2**	**0**	**0**	**0**	**0**	**7,325**	**2,870**	**389**	**27**	**7,105**	**383**	**1,071**
# Days:		**6**	**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**523**	**205**	**28**	**2**	**508**	**27**	**77**
YTD		**835**	**29,063**	**73,379**	**9,904**	**4,053**	**5,173,324**	**2,656,531**	**913,477**	**12,560**	**1,084,867**	**1,005,272**	**1,466,128**

					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)
06/25/2004		30	---	---	---	---	29,550	7,051	2,170	157	595,000	102,988	116,918
06/26/2004	*	17	---	---	---	---	20,900	9,309	1,923	181	483,300	89,998	220,647
06/27/2004	*	30	---	---	---	---	22,400	23,325	3,109	183	424,800	81,404	217,554
06/28/2004		14	---	---	---	---	33,460	21,975	5,886	149	660,500	40,283	221,696
06/29/2004		4	---	---	---	---	23,900	9,100	2,720	198	427,286	42,214	129,143
06/30/2004		4	---	---	---	---	26,460	11,778	8,894	315	547,549	47,492	84,996
07/01/2004	*	---	---	---	---	---	13,750	9,725	7,077	954	520,202	31,408	95,031
07/02/2004	*	---	---	---	---	---	11,025	15,350	4,768	365	224,992	30,192	121,271
07/03/2004		---	---	---	---	---	12,100	16,602	8,650	257	292,565	43,320	99,855
07/04/2004		---	---	---	---	---	19,800	7,651	3,734	339	162,873	30,393	48,078
07/05/2004		---	---	---	---	---	12,475	2,900	1,499	232	154,745	29,585	41,573
07/06/2004		---	---	---	---	---	15,050	1,871	3,266	355	183,158	40,515	42,645
07/07/2004		---	---	---	---	---	11,025	2,573	2,038	316	184,995	26,649	73,455
07/08/2004	*	---	---	---	---	---	7,625	6,381	2,994	291	173,101	45,684	44,308
Total:		**99**	**0**	**0**	**0**	**0**	**259,520**	**145,591**	**58,728**	**4,292**	**5,035,066**	**682,125**	**1,557,170**
# Days:		**6**	**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**17**	**0**	**0**	**0**	**0**	**18,537**	**10,399**	**4,195**	**307**	**359,648**	**48,723**	**111,226**
YTD		**1,579**	**0**	**29**	**80**	**935**	**871,652**	**428,854**	**155,463**	**14,503**	**6,859,681**	**1,261,375**	**4,310,509**

* 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

Date		ENT (Coll)	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
06/25/2004		0	---	---	---	---	250	275	7	18	400	14	694
06/26/2004	*	0	---	---	---	---	450	256	10	35	100	44	192
06/27/2004	*	0	---	---	---	---	100	1,225	2	16	100	31	145
06/28/2004		0	---	---	---	---	60	475	11	9	200	16	102
06/29/2004		0	---	---	---	---	80	200	40	9	1,718	9	122
06/30/2004		0	---	---	---	---	260	600	0	18	223	3	102
07/01/2004	*	---	---	---	---	---	50	650	0	95	221	0	21
07/02/2004	*	---	---	---	---	---	225	475	0	27	112	7	42
07/03/2004		---	---	---	---	---	75	825	0	15	0	0	0
07/04/2004		---	---	---	---	---	50	475	0	9	100	3	0
07/05/2004		---	---	---	---	---	25	225	0	5	0	0	22
07/06/2004		---	---	---	---	---	75	100	0	1	100	1	11
07/07/2004		---	---	---	---	---	50	33	0	7	100	6	32
07/08/2004	*	---	---	---	---	---	50	107	0	16	0	7	11
Total:		**0**	**0**	**0**	**0**	**0**	**1,800**	**5,921**	**70**	**280**	**3,374**	**141**	**1,496**
# Days:		**6**	**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**129**	**423**	**5**	**20**	**241**	**10**	**107**
YTD		**0**	**0**	**0**	**0**	**45**	**259,133**	**125,332**	**15,784**	**28,555**	**89,316**	**175,133**	**937,785**

COMBINED STEELHEAD

Date		ENT (Coll)	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
06/25/2004		0	---	---	---	---	2,050	1,402	537	5	100	14	65
06/26/2004	*	0	---	---	---	---	2,350	2,355	142	4	100	29	46
06/27/2004	*	0	---	---	---	---	1,550	525	140	1	100	34	21
06/28/2004		0	---	---	---	---	660	500	151	3	200	11	20
06/29/2004		0	---	---	---	---	600	150	60	6	537	40	35
06/30/2004		0	---	---	---	---	1,080	276	40	10	0	0	34
07/01/2004	*	---	---	---	---	---	425	501	75	17	0	11	43
07/02/2004	*	---	---	---	---	---	1,075	426	150	7	0	9	0
07/03/2004		---	---	---	---	---	550	500	15	4	200	7	48
07/04/2004		---	---	---	---	---	475	275	45	1	100	7	0
07/05/2004		---	---	---	---	---	500	100	45	0	0	1	0
07/06/2004		---	---	---	---	---	1,125	240	43	0	0	1	0
07/07/2004		---	---	---	---	---	500	116	25	2	0	11	0
07/08/2004	*	---	---	---	---	---	550	141	12	3	0	11	0
Total:		**0**	**0**	**0**	**0**	**0**	**13,490**	**7,507**	**1,480**	**63**	**1,337**	**186**	**312**
# Days:		**6**	**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**964**	**536**	**106**	**5**	**96**	**13**	**22**
YTD		**195**	**2,106**	**36,084**	**1,857**	**8,418**	**5,820,598**	**1,911,844**	**342,683**	**10,702**	**125,140**	**257,091**	**155,632**

* See sampling comments http://www.fpc.org/currentDaily/smpcomments.htm

Two-Week Summary of Passage Indices

					COMBINED SOCKEYE								
		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)
06/25/2004		0	---	---	---	---	50	0	0	5	400	87	484
06/26/2004	*	0	---	---	---	---	50	0	1	6	600	76	484
06/27/2004	*	0	---	---	---	---	0	50	0	1	400	34	197
06/28/2004		2	---	---	---	---	0	0	1	1	100	4	163
06/29/2004		0	---	---	---	---	0	0	0	11	1,932	26	139
06/30/2004		0	---	---	---	---	0	0	0	30	781	16	51
07/01/2004	*	---	---	---	---	---	0	0	0	32	332	20	43
07/02/2004	*	---	---	---	---	---	25	0	0	15	896	24	63
07/03/2004		---	---	---	---	---	0	0	0	18	200	23	79
07/04/2004		---	---	---	---	---	0	0	0	8	400	1	32
07/05/2004		---	---	---	---	---	0	0	0	13	100	11	0
07/06/2004		---	---	---	---	---	25	0	0	4	0	1	2
07/07/2004		---	---	---	---	---	0	0	0	7	300	9	14
07/08/2004	*	---	---	---	---	---	0	20	0	4	900	6	0
Total:		**2**	**0**	**0**	**0**	**0**	**150**	**70**	**2**	**155**	**7,341**	**338**	**1,751**
# Days:		**6**	**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**11**	**5**	**0**	**11**	**524**	**24**	**125**
YTD		**6**	**9**	**0**	**0**	**25**	**7,544**	**4,708**	**951**	**7,063**	**305,588**	**235,662**	**189,476**

* 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: 7/9/04 8:04 AM

06/26/04 TO 07/09/04

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	259,520	7,325	1,800	150	13,490	282,285
	Sum of NumberBarged	260,192	7,740	2,184	190	13,994	284,300
	Sum of NumberBypassed	7,191	0	0	0	0	7,191
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	1,634	33	12	10	99	1,788
LGS	Sum of NumberCollected	145,591	2,870	5,921	70	7,507	161,959
	Sum of NumberBarged	143,608	2,765	6,232	50	9,229	161,884
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	233	12	5	2	113	365
LMN	Sum of NumberCollected	58,728	389	70	2	1,480	60,669
	Sum of NumberBarged	54,329	405	74	2	1,503	56,313
	Sum of NumberBypassed	2,350	0	0	0	0	2,350
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	256	11	0	0	32	299
MCN	Sum of NumberCollected	4,874,139	6,900	3,200	7,000	1,300	4,892,539
	Sum of NumberBarged	4,829,372	6,794	3,161	6,750	1,271	4,847,348
	Sum of NumberBypassed	539	0	0	0	0	539
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	39,228	106	39	250	29	39,652
Total Sum of NumberCollected		5,337,978	17,484	10,991	7,222	23,777	5,397,452
Total Sum of NumberBarged		5,287,501	17,704	11,651	6,992	25,997	5,349,845
Total Sum of NumberBypassed		10,080	0	0	0	0	10,080
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		41,351	162	56	262	273	42,104

YTD Transportation Summary

Source: Fish Passage Center Updated: 7/9/04 8:04 AM

TO: 07/09/04

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	841,436	4,843,801	252,514	7,233	5,669,432	11,614,416
	Sum of NumberBarged	787,711	4,625,158	238,589	6,714	5,360,620	11,018,792
	Sum of NumberBypassed	42,179	151,332	13,352	285	289,607	496,755
	Sum of NumberTrucked	129	43,991	220	181	15,496	60,017
	Sum of TotalProjectMortalities	4,108	23,170	303	53	3,164	30,798
LGS	Sum of NumberCollected	428,587	2,571,005	122,075	4,656	1,865,748	4,992,071
	Sum of NumberBarged	421,806	2,567,206	121,850	4,632	1,862,297	4,977,791
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of NumberTrucked	0	2,096	0	2	1,333	3,431
	Sum of TotalProjectMortalities	412	1,494	21	4	1,980	3,911
LMN	Sum of NumberCollected	147,500	843,010	14,749	897	287,527	1,293,683
	Sum of NumberBarged	141,966	833,866	14,745	897	284,101	1,275,575
	Sum of NumberBypassed	2,462	6,321	0	0	2,125	10,908
	Sum of NumberTrucked	10	1,352	0	0	604	1,966
	Sum of TotalProjectMortalities	340	1,471	4	0	685	2,500
MCN	Sum of NumberCollected	6,122,028	666,462	55,559	187,236	76,565	7,107,850
	Sum of NumberBarged	5,032,173	7,041	3,739	7,159	1,271	5,051,383
	Sum of NumberBypassed	1,044,520	646,944	51,742	179,173	74,612	1,996,991
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	40,336	2,865	78	904	286	44,469
Total Sum of NumberCollected		7,539,551	8,924,278	444,897	200,022	7,899,272	25,008,020
Total Sum of NumberBarged		6,383,656	8,033,271	378,923	19,402	7,508,289	22,323,541
Total Sum of NumberBypassed		1,089,161	804,597	65,094	179,458	366,344	2,504,654
Total Sum of NumberTrucked		139	47,439	220	183	17,433	65,414
Total Sum of TotalProjectMortalities		45,196	29,000	406	961	6,115	81,678

Cumulative Adult Passage at Mainstem Dams Through: 07/08

	Spring Chinook						Summer Chinook						Fall Chinook					
	2004		2003		10-Yr Avg.		2004		2003		10-Yr Avg.		2004		2003		10-Yr Avg.	
DAM	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	170,188	8,885	192,010	14,258	130,296	7,371	74,262	10,058	89,926	9,439	35,117	4,226	0	0	0	0	0	0
TDA	130,226	7,717	131,207	11,522	87,249	5,199	62,873	6,133	77,673	6,749	28,909	2,847	0	0	0	0	0	0
JDA	110,304	6,353	101,436	10,206	72,403	4,083	56,952	7,574	74,069	6,328	26,638	2,358	0	0	0	0	0	0
MCN	107,497	7,675	95,550	11,123	66,222	4,195	47,906	5,911	70,145	7,079	24,604	2,341	0	0	0	0	0	0
IHR	77,106	4,658	78,170	8,020	44,313	2,700	10,256	2,236	19,214	3,925	8,048	1,221	0	0	0	0	0	0
LMN	71,673	3,786	70,603	7,344	42,703	2,607	9,384	1,806	16,973	2,929	7,557	1,016	0	0	0	0	0	0
LGS	62,458	3,404	69,017	7,079	41,666	2,708	7,991	1,820	12,562	2,741	6,453	1,150	0	0	0	0	0	0
LWG	70,778	4,482	70,609	8,295	40,647	2,828	7,371	2,027	14,148	3,072	6,458	1,156	0	0	0	0	0	0
PRD	13,521	1,020	18,136	656	14,413	382	35,348	2,316	34,829	852	10,817	304	0	0	0	0	0	0
RIS	10,917	958	16,881	753	11,256	609	29,572	3,328	27,924	1,039	7,769	815	0	0	0	0	0	0
RRH	4,338	820	4,216	450	4,023	171	15,004	1,875	15,407	504	3,830	222	0	0	0	0	0	0
WEL	4,615	178	4,504	198	2,563	172	7,999	214	7,567	106	1,807	86	0	0	0	0	0	0

	Coho						Sockeye			Steelhead			
	2004		2003		10-Yr Avg.				10-Yr			10-Yr	Wild
DAM	Adult	Jack	Adult	Jack	Adult	Jack	2004	2003	Avg.	2004	2003	Avg.	2004
BON	0	0	4	0	0	0	116,070	34,903	38,217	32,416	25,710	22,263	13,462
TDA	0	0	0	0	0	0	100,044	29,928	30,458	14,367	12,467	9,259	6,662
JDA	0	0	0	0	0	0	103,311	29,655	32,151	14,117	12,140	9,869	6,232
MCN	0	0	0	0	0	0	80,380	26,150	25,962	8,888	7,699	5,680	3,410
IHR	0	0	0	0	0	0	58	37	16	4,601	4,915	3,417	1,627
LMN	0	0	0	0	0	0	51	14	15	4,170	4,150	3,011	1,464
LGS	0	0	0	0	0	0	55	17	19	3,212	3,528	2,627	1,441
LWG	0	0	0	0	0	0	68	5	13	8,665	16,899	6,446	2,965
PRD	0	0	0	0	0	0	93,156	16,773	19,727	1,042	199	154	n/a
RIS	0	0	0	0	1	0	69,662	10,917	13,259	957	161	121	799
RRH	0	0	0	0	1	0	45,856	6,886	7,442	816	119	95	717
WEL	0	0	0	0	0	0	30,162	4,030	5,164	184	38	26	150

PRD is through 07/05; WEL, RIS, RRH are through 07/06.
IHR is missing 06/18, 07/02.
**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: 07/09/04

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