Fish Passage Center

Weekly Report #04 - 19

July 16, 2004

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Highlights:

- **Flows at Lower Granite have averaged 41.4 Kcfs over the summer flow period; the flow objective is 50 Kcfs.**

- **Flows have averaged 159.9 Kcfs at McNary over the summer period; the flow objective is 200 Kcfs.**

Summary of Events:

Water Supply: Columbia Basin precipitation throughout the first thirteen days of July has generally been below average in most basins, however some basins in the upper Columbia received above average precipitation. Over the entire water year, precipitation 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 1-13		Water Year 2004 October 1, 2003 to July 13, 2004	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.86	115	20.11	95
Snake River Above Ice Harbor	0.22	57	14.41	93
Columbia Above The Dalles	0.48	92	19.5	96
Kootenai	0.96	120	20.24	93
Clark Fork	0.31	62	13.54	92
Flathead	0.78	116	17.81	91
Pend Oreille/Spokane	0.37	64	26.18	94
Central Washington	0.00	1	7.41	91
Snake River Plain	0.08	32	8.11	82
Salmon/Boise/ Payette	0.10	31	16.37	91
Clearwater	0.21	34	28.08	102
SW Washington Cascades/Cowlitz	0.11	19	58.44	88
Willamette Valley	0.05	15	52.3	93

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 41.4 Kcfs over the summer flow period; the flow objective is 50 Kcfs. Flows at Lower Granite have averaged 37.6 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 159.9 Kcfs at McNary over the summer season and 156.9 Kcfs last week.

Grand Coulee has drafted 2.1 feet after reaching its maximum elevation of the season of 1289.3 feet on July 5th, 2004 and is currently at an elevation of 1287.2 feet. 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 has been releasing a constant 12.5 Kcfs for over two weeks, as requested in SOR 2004-14. Because inflows to Libby have remained relatively high, Libby has continued to refill slightly in July. Libby is currently at an elevation of 2450.0 feet and has been refilling less than 0.1 feet per day.

The Hungry Horse Reservoir has been drafting slightly over July for summer flow augmentation and is currently at an elevation of 3557.7 feet. 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 1589.5 feet and has been drafting over July for flow and temperature augmentation in the Lower Snake River. Outflows at Dworshak were increased on July 12th, 2004 and have ranged between 11.1 and 11.6 Kcfs over the last four days.

The Brownlee Reservoir is currently at an elevation of 2070.7 feet and has drafted slightly less than five feet over the last week. Outflows to Brownlee have ranged between 10.9 and 17.8 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 began to 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 daily average spill of 80% from July 7 through July 15. During the same time period, summer spill continued at the Lower Columbia projects with 30% daily average at John Day, 40% daily average at The Dalles and 40% daily average at Bonneville Dam. The summer program at McNary Dam focuses on the maximization of transportation of fall chinook juveniles. Gas bubble trauma monitoring is continuing at Rock Island, and at McNary and Bonneville dams. Only one fish with signs of gas bubble trauma has been observed at Rock Island Dam this past week..

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

At Lower Granite Dam, subyearling chinook indices were down from an average index of 13,000 per day last week to nearly 11,000 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 85 detected in the past week down from 206 the previous week. The first detections of subyearlings marked in the Clearwater River were seen last week, with 38 having been detected this week. Little Goose and Lower Monumental dams also had drops in subyearling chinook numbers over the past week, with the index averaging 2,000 per day at Little Goose, and 3,000 per day at Lower Monumental compared to 8,000 and 4,000 last week, respectively.

At Rock Island Dam the numbers of subyearling chinook increased with the index averaging 550 per day this week compared to 300 past two weeks. 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 100,000 per day this week compared to 200,000 per day last week. At John Day Dam the subyearling average index was 26,000 per day this week compared to 35,000 last week, while at Bonneville Dam the average index was 30,000 compared to 67,000 last week.

Hatchery Releases - The scheduled release of juvenile salmonids from Columbia River Basin hatcheries above Bonneville Dam for the 2004 migration season totaled about 83.2 million with all yearling chinook, coho, steelhead, sockeye, and subyearling chinook in river to date. Salmon species released into streams or lakes (sockeye) during this summer and fall of 2004, normally reside in the streams or rivers through the winter and then migrate to the ocean the following spring (2005).

2004 Hatchery Zone Report

	Friday 16-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

Adult Fish Passage - At Bonneville Dam, summer chinook passage ranged from 945 to 1,474 per day for the week ending July 15. To date, 82,658 adult summer chinook have been counted, and this total compares to 100,385 in 2003 and 39,900 for the 10-year average at Bonneville Dam. The passage above McNary Dam totaled 55,301 through July 15 with the turnoff into the Snake River at 11,078 (Ice Harbor count), and the count at Priest Rapids near 50,650. Daily counts of adult summer chinook at Ice Harbor Dam averaged 117 per day and counts at Priest Rapids Dam averaged 1.556 per day for the week ending July 15. For the season, chinook passage into the Snake River is reduced from 2003 (about 55% of 2003 count) while the Mid-Columbia passage in 2004 is returning at 89% of the 2003 count at Priest Rapids Dam.

Steelhead passage at Bonneville Dam remained in an upward trend with counts that ranged from 1,700 to 3,300 for the week ending July 15; about one half of these fish are passing upstream at The Dalles Dam (range = 750 to 1,300 per day). At Bonneville, the steelhead run totals 48,416 and this count was about 1.1 and 1.4 times greater than the respective 2003 and 10-year average through July 15. Steelhead passage into the Snake River was greater than 200 per day at Ice Harbor Dam, and in the Mid-Columbia River near 90 per day at Priest Rapids Dam through the count week. With water temperatures increasing 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 in the Bonneville pool and in Deschutes River as these rivers and streams have cooler water temperatures than the mainstem Columbia River.

Sockeye numbers at Bonneville Dam decreased from near 1,300 early in the week to 400 by the end of the count week; the total count through July 15 was 121,329. This total compares to 37,829 and 40,952 for the respective 2003 and 10-year average. Sockeye continued passing through the upper Columbia projects: Rock Island, Rocky Reach and Wells dams in numbers that ranged between 2,000 and 4,000 for the week. These sockeye are destined for the Wenatchee and Okanogan River basins. Of the 89,500 sockeye above Rock Island Dam, 64,200 have already passed Rocky Reach. If these ratios hold up, at least 72% of the sockeye run will be bound for the Okanogan River system with the remaining total (currently 28%) to the Wenatchee River system. This year's count of 95 sockeye at Lower Granite Dam is one of the higher totals in recent years. These Snake River sockeye 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
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
07/09/04	105.0	0.2	107.3	0.0	111.4	7.7	112.3	11.3	116.9	25.6	132.5	39.6	128.5	69.7
07/10/04	88.8	0.2	88.7	0.0	95.2	7.8	95.7	8.0	98.1	18.9	104.0	31.2	99.9	54.1
07/11/04	104.9	0.2	104.8	0.0	108.3	7.5	102.4	6.7	104.3	17.2	111.2	33.4	106.4	57.6
07/12/04	123.8	0.2	123.4	0.0	129.6	8.2	129.2	11.8	132.1	27.1	142.5	42.8	135.0	73.1
07/13/04	115.3	0.2	120.0	0.0	125.8	7.7	122.8	10.6	123.5	26.1	131.2	39.4	125.0	67.4
07/14/04	107.3	0.2	110.0	0.0	113.8	7.3	112.3	11.0	115.6	25.4	124.8	37.6	119.9	64.1
07/15/04	89.6	0.2	89.0	0.0	93.2	7.1	93.0	10.8	94.6	25.0	112.3	33.9	116.9	63.9

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
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	8.9	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	9.8	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	12.9	36.7	0.0	37.6	0.0	39.2	0.0	41.8	31.3
07/08/04	9.5	0.0	9.1	11.8	36.7	0.0	36.2	0.0	36.7	0.0	38.3	31.5
07/09/04	9.5	0.0	9.2	10.0	39.0	0.0	38.7	0.0	38.7	0.0	37.6	30.6
07/10/04	9.5	0.0	8.6	11.4	33.7	0.0	33.5	0.0	34.9	0.0	36.9	29.3
07/11/04	9.5	0.0	9.0	12.4	35.2	0.0	36.4	0.0	38.1	0.0	41.7	33.4
07/12/04	11.1	1.6	10.2	17.6	37.8	0.0	39.4	0.0	40.2	0.0	40.5	32.6
07/13/04	11.5	2.0	9.9	17.4	39.3	0.0	38.2	0.0	39.1	0.0	43.1	35.3
07/14/04	11.4	1.9	8.6	15.6	40.6	0.0	41.3	0.0	43.1	0.0	44.7	34.8
07/15/04	11.6	2.0	---	---	37.6	0.0	37.3	0.0	38.5	0.0	40.7	31.1

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
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
07/09/04	173.8	0.0	167.0	50.6	166.7	66.5	190.9	50.5	14.3	114.7
07/10/04	149.0	0.0	154.6	46.2	161.2	63.8	199.1	50.0	22.0	115.8
07/11/04	135.4	0.0	133.8	39.9	131.3	52.3	169.7	49.3	0.0	108.9
07/12/04	155.3	0.0	161.9	48.1	160.2	63.4	177.8	79.7	0.0	86.7
07/13/04	164.2	0.0	154.7	46.4	151.2	60.1	182.9	93.9	0.5	77.6
07/14/04	168.2	0.0	175.0	52.6	171.7	68.3	181.7	89.9	2.7	77.7
07/15/04	152.4	0.0	141.4	42.7	142.3	56.3	179.0	92.8	0.0	74.7

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: 7/2/2004 to 7/15/2004

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
Total					**390,303**				

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											
	07/08/04	Chinook	100	0	0	0.00%	0.00%	0	0	0	0
	07/12/04	Chinook	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	07/06/04	Chinook	100	0	0	0.00%	0.00%	0	0	0	0
	07/10/04	Chinook	100	0	0	0.00%	0.00%	0	0	0	0
	07/13/04	Chinook	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	07/08/04	Chinook	50	0	0	0.00%	0.00%	0	0	0	0
	07/12/04	Chinook	77	0	0	0.00%	0.00%	0	0	0	0
	07/15/04	Chinook	101	1	1	0.99%	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

	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
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
7/9	---	---	---	0	116	117	117	24	114	115	115	24	110	111	112	24	110	111	111	23
7/10	---	---	---	0	116	116	117	24	112	113	114	24	110	111	112	24	111	111	112	23
7/11	---	---	---	0	115	115	116	17	114	114	114	14	110	110	112	16	110	111	111	20
7/12	---	---	---	0	115	116	116	24	113	114	115	24	110	110	111	24	110	111	112	24
7/13	---	---	---	0	115	116	116	24	113	114	114	24	110	110	112	24	111	112	112	24
7/14	---	---	---	0	116	117	117	24	113	113	113	24	110	111	111	24	111	111	112	23
7/15	---	---	---	0	116	117	117	24	112	112	113	24	110	111	114	24	111	111	111	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
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
7/9	111	111	112	23	110	110	111	24	111	112	112	24	111	112	112	24	112	112	113	24
7/10	111	112	112	23	109	110	110	24	110	111	112	24	111	111	111	24	111	112	112	24
7/11	110	110	111	20	108	109	110	18	110	110	112	18	110	110	110	18	110	111	111	18
7/12	111	111	113	24	110	111	111	22	111	112	113	22	110	111	111	22	111	112	112	22
7/13	112	112	113	24	111	111	112	24	112	113	113	24	112	112	113	24	112	113	113	24
7/14	111	112	112	23	111	112	113	24	112	114	114	24	112	113	113	24	113	114	114	24
7/15	111	111	112	23	111	112	113	24	112	114	114	24	113	114	114	24	114	114	115	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
7/2	---	---	---	0	---	---	---	0	111	112	113	23	113	113	114	23	111	112	113	23
7/3	111	111	111	24	116	117	118	24	110	110	111	23	112	113	114	23	109	110	111	23
7/4	110	110	111	24	114	115	117	24	109	110	111	23	112	112	113	23	109	109	111	23
7/5	110	110	111	24	115	116	118	24	111	112	113	23	113	113	115	23	110	111	112	23
7/6	111	111	112	24	117	118	119	24	111	111	113	22	113	113	114	23	111	111	112	23
7/7	110	111	112	24	117	117	119	24	108	109	110	23	112	113	114	23	110	111	111	23
7/8	110	111	111	24	116	117	120	24	109	111	112	23	112	113	114	23	109	110	110	23
7/9	111	111	112	24	117	118	119	24	112	112	114	23	114	114	115	12	111	112	113	23
7/10	110	111	111	24	115	116	118	24	110	110	111	23	113	113	113	23	110	111	112	23
7/11	109	110	110	18	114	114	116	18	109	110	111	23	112	113	113	23	108	109	110	23
7/12	110	111	112	22	116	117	120	22	112	114	115	23	113	114	115	23	112	113	114	22
7/13	111	112	112	24	116	117	119	24	114	115	116	23	114	114	115	23	114	114	116	23
7/14	112	113	114	24	117	117	119	24	---	---	---	0	---	---	---	0	---	---	---	0
7/15	112	113	113	24	117	118	119	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
7/2	115	117	118	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
7/3	114	117	117	23	110	111	112	24	102	103	103	24	103	104	105	24	102	103	104	24
7/4	113	115	116	23	109	109	110	24	102	102	103	24	103	104	105	24	102	103	104	24
7/5	115	117	118	23	109	110	111	24	101	102	102	24	103	104	105	24	102	103	104	24
7/6	115	118	119	23	111	113	114	24	100	100	101	24	102	103	104	24	102	103	104	24
7/7	114	116	117	23	110	111	112	24	100	100	100	24	102	103	103	24	102	103	104	24
7/8	116	116	117	23	108	109	111	21	100	100	100	24	102	103	104	24	102	103	104	24
7/9	116	117	118	23	111	111	112	24	101	101	101	24	102	104	105	24	102	104	105	24
7/10	114	116	118	23	110	110	111	21	100	100	101	24	102	103	104	24	102	103	104	24
7/11	113	115	117	23	108	108	109	19	100	100	100	19	102	103	104	19	102	103	104	18
7/12	116	117	118	13	109	111	112	24	102	103	104	24	---	---	---	0	103	104	105	24
7/13	116	118	119	21	111	112	112	24	103	104	104	24	---	---	---	0	103	103	104	24
7/14	---	---	---	0	112	113	114	24	103	103	104	24	104	106	106	24	103	104	105	24
7/15	---	---	---	0	112	113	113	24	103	104	104	24	105	106	107	24	103	104	105	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
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
7/9	103	105	107	24	103	105	105	24	101	102	102	24	101	101	101	24	100	101	101	24
7/10	103	105	106	24	100	100	101	24	100	101	101	24	100	100	100	24	99	99	99	24
7/11	102	104	106	19	100	100	102	19	100	100	100	19	99	100	100	19	98	99	99	19
7/12	103	106	107	24	107	110	113	24	101	102	104	24	104	107	112	24	100	100	101	24
7/13	103	105	107	24	105	107	108	24	102	102	103	24	104	105	106	24	101	101	102	24
7/14	104	106	108	24	107	110	112	24	102	102	103	24	102	104	108	24	99	100	100	24
7/15	104	106	108	24	107	108	110	24	102	102	103	24	101	102	106	24	100	100	100	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
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
7/9	102	102	103	24	101	102	103	24	103	104	104	24	114	115	115	24	109	110	111	24
7/10	100	100	101	24	100	100	101	24	101	101	102	24	111	112	113	24	107	107	108	24
7/11	100	100	101	19	99	100	100	19	100	100	101	19	110	110	112	19	108	109	113	19
7/12	103	105	109	24	100	101	102	24	101	101	103	24	112	115	116	24	109	110	111	24
7/13	101	102	103	24	100	101	101	24	100	100	101	24	114	116	119	24	107	108	112	24
7/14	103	106	110	24	100	101	102	24	100	100	101	24	111	112	112	24	111	113	116	24
7/15	102	103	104	24	100	100	101	24	100	100	102	24	112	114	116	24	113	115	117	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
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
7/9	109	110	111	24	108	109	109	24	102	103	103	23	114	115	115	24	106	107	107	23
7/10	107	107	108	24	107	107	107	24	102	102	102	23	114	115	115	24	104	105	105	23
7/11	107	107	107	19	106	107	107	19	101	101	102	18	114	114	115	18	105	105	105	18
7/12	110	111	112	24	108	109	109	24	102	103	105	24	114	115	116	24	107	108	108	24
7/13	110	112	114	24	108	109	109	24	102	103	104	24	114	114	115	24	107	108	108	24
7/14	112	113	115	24	109	109	110	24	103	103	103	23	115	115	117	24	106	107	107	23
7/15	111	112	112	24	110	111	111	24	102	103	103	23	114	114	114	24	106	106	107	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
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
7/9	112	113	113	24	105	106	106	23	108	108	109	23	106	107	109	24
7/10	112	112	113	24	106	106	106	23	108	108	108	23	106	107	107	24
7/11	112	112	112	18	106	106	107	20	109	109	110	20	106	107	109	20
7/12	113	114	114	24	107	108	109	24	111	112	112	24	108	109	109	24
7/13	113	114	114	24	109	110	110	24	114	116	120	24	111	114	117	24
7/14	112	113	113	24	107	108	108	23	113	114	116	23	111	113	114	24
7/15	112	113	113	24	106	106	107	23	113	115	118	23	110	112	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)
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
07/09/2004		---	---	---	---	---	220	180	8	0	100	26	54
07/10/2004		---	---	---	---	---	400	65	36	0	150	22	101
07/11/2004		---	---	---	---	---	260	85	24	1	200	7	60
07/12/2004		---	---	---	---	---	260	40	28	4	200	0	24
07/13/2004	*	---	---	---	---	---	200	56	16	0	75	10	0
07/14/2004		---	---	---	---	---	0	90	0	0	0	7	7
07/15/2004		---	---	---	---	---	300	92	8	6	100	16	2
Total:		**0**	**0**	**0**	**0**	**0**	**3,290**	**1,804**	**380**	**23**	**3,025**	**215**	**509**
# Days:		**0**	**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**235**	**129**	**27**	**2**	**216**	**15**	**36**
YTD		**835**	**29,063**	**73,379**	**9,904**	**4,053**	**5,174,964**	**2,657,139**	**913,597**	**12,571**	**1,085,692**	**1,005,366**	**1,466,376**

					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)
07/02/2004	*	---	---	---	---	---	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
07/09/2004		---	---	---	---	---	9,680	3,691	3,560	316	101,907	41,997	26,213
07/10/2004		---	---	---	---	---	14,640	1,056	3,152	221	125,700	40,288	32,728
07/11/2004		---	---	---	---	---	9,940	1,535	1,912	378	53,600	28,169	37,662
07/12/2004		---	---	---	---	---	7,560	886	2,172	350	58,430	13,969	39,495
07/13/2004	*	---	---	---	---	---	16,080	1,181	7,196	597	167,551	27,211	21,172
07/14/2004		---	---	---	---	---	10,420	2,491	1,338	950	108,700	16,358	26,501
07/15/2004		---	---	---	---	---	8,160	2,480	1,728	1,019	53,950	16,620	24,324
Total:		**0**	**0**	**0**	**0**	**0**	**165,580**	**66,648**	**48,007**	**5,986**	**2,046,267**	**430,950**	**679,280**
# Days:		**0**	**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**11,827**	**4,761**	**3,429**	**428**	**146,162**	**30,782**	**48,520**
YTD		**1,579**	**0**	**29**	**80**	**935**	**948,132**	**442,174**	**176,521**	**18,334**	**7,529,519**	**1,451,670**	**4,518,604**

* 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)
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
07/09/2004		---	---	---	---	---	20	130	0	1	100	12	8
07/10/2004		---	---	---	---	---	0	35	0	1	250	1	32
07/11/2004		---	---	---	---	---	40	25	0	6	0	6	11
07/12/2004		---	---	---	---	---	0	25	0	1	100	16	35
07/13/2004	*	---	---	---	---	---	60	72	4	8	75	7	9
07/14/2004		---	---	---	---	---	0	126	6	29	100	20	20
07/15/2004		---	---	---	---	---	60	160	0	4	50	24	18
Total:		**0**	**0**	**0**	**0**	**0**	**730**	**2,813**	**10**	**130**	**1,087**	**110**	**251**
# Days:		**0**	**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**52**	**201**	**1**	**9**	**78**	**8**	**18**
YTD		**0**	**0**	**0**	**0**	**45**	**259,313**	**125,905**	**15,794**	**28,605**	**89,991**	**175,223**	**937,918**

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)
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
07/09/2004		---	---	---	---	---	220	31	28	0	0	13	8
07/10/2004		---	---	---	---	---	220	76	4	1	0	6	5
07/11/2004		---	---	---	---	---	300	135	12	1	0	0	7
07/12/2004		---	---	---	---	---	140	41	4	0	0	0	0
07/13/2004	*	---	---	---	---	---	440	315	28	2	0	19	9
07/14/2004		---	---	---	---	---	200	281	6	2	0	16	0
07/15/2004		---	---	---	---	---	460	593	60	0	0	1	0
Total:		**0**	**0**	**0**	**0**	**0**	**6,755**	**3,270**	**477**	**23**	**300**	**102**	**77**
# Days:		**0**	**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**483**	**234**	**34**	**2**	**21**	**7**	**6**
YTD		**195**	**2,106**	**36,084**	**1,857**	**8,418**	**5,822,578**	**1,913,316**	**342,825**	**10,708**	**125,140**	**257,147**	**155,661**

* 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)
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
07/09/2004		---	---	---	---	---	0	0	4	6	200	1	16
07/10/2004		---	---	---	---	---	0	0	0	4	450	1	37
07/11/2004		---	---	---	---	---	0	0	0	4	50	0	15
07/12/2004		---	---	---	---	---	20	0	0	2	150	0	12
07/13/2004	*	---	---	---	---	---	0	0	0	2	400	1	0
07/14/2004		---	---	---	---	---	0	4	0	5	150	4	26
07/15/2004		---	---	---	---	---	0	4	0	2	150	9	9
Total:		**0**	**0**	**0**	**0**	**0**	**70**	**28**	**4**	**94**	**4,346**	**91**	**305**
# Days:		**0**	**0**	**0**	**0**	**0**	**14**	**14**	**14**	**14**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**5**	**2**	**0**	**7**	**310**	**7**	**22**
YTD		**6**	**9**	**0**	**0**	**25**	**7,564**	**4,716**	**955**	**7,088**	**307,138**	**235,681**	**189,591**

* 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: 7/16/04 9:43 AM

07/03/04 TO 07/16/04

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	165,580	3,290	730	70	6,755	176,425
	Sum of NumberBarged	162,170	3,274	723	61	6,684	172,912
	Sum of NumberBypassed	2,703	0	0	0	0	2,703
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	707	16	7	9	71	810
LGS	Sum of NumberCollected	66,648	1,804	2,813	28	3,270	74,563
	Sum of NumberBarged	66,377	1,788	2,807	26	3,162	74,160
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	271	16	6	2	108	403
LMN	Sum of NumberCollected	48,007	380	10	4	477	48,878
	Sum of NumberBarged	45,076	373	10	4	466	45,929
	Sum of NumberBypassed	2,609	0	0	0	0	2,609
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	322	7	0	0	11	340
MCN	Sum of NumberCollected	2,022,126	3,025	1,075	4,250	300	2,030,776
	Sum of NumberBarged	2,407,666	3,269	1,203	4,282	284	2,416,704
	Sum of NumberBypassed	695	0	0	0	0	695
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	29,044	43	23	119	16	29,245
Total Sum of NumberCollected		2,302,361	8,499	4,628	4,352	10,802	2,330,642
Total Sum of NumberBarged		2,681,289	8,704	4,743	4,373	10,596	2,709,705
Total Sum of NumberBypassed		6,007	0	0	0	0	6,007
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		30,344	82	36	130	206	30,798

YTD Transportation Summary

Source: Fish Passage Center Updated: 7/16/04 9:43 AM

TO: 07/16/04

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	917,916	4,845,441	252,694	7,253	5,671,412	11,694,716
	Sum of NumberBarged	869,737	4,626,940	238,818	6,734	5,363,125	11,105,354
	Sum of NumberBypassed	43,677	151,332	13,352	285	289,607	498,253
	Sum of NumberTrucked	129	43,991	220	181	15,496	60,017
	Sum of TotalProjectMortalities	4,373	23,178	304	53	3,184	31,092
LGS	Sum of NumberCollected	441,907	2,571,613	122,648	4,664	1,867,220	5,008,052
	Sum of NumberBarged	441,371	2,567,976	122,527	4,658	1,863,863	5,000,395
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of NumberTrucked	0	2,096	0	2	1,333	3,431
	Sum of TotalProjectMortalities	533	1,500	24	4	2,020	4,081
LMN	Sum of NumberCollected	168,558	843,130	14,759	901	287,669	1,315,017
	Sum of NumberBarged	161,951	833,973	14,752	900	284,236	1,295,812
	Sum of NumberBypassed	6,027	6,333	3	1	2,141	14,505
	Sum of NumberTrucked	10	1,352	0	0	604	1,966
	Sum of TotalProjectMortalities	570	1,472	4	0	688	2,734
MCN	Sum of NumberCollected	6,791,866	667,287	56,234	188,786	76,565	7,780,738
	Sum of NumberBarged	5,637,705	7,754	4,352	8,496	1,271	5,659,578
	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	50,977	2,877	91	968	286	55,199
Total Sum of NumberCollected		8,320,247	8,927,471	446,335	201,604	7,902,866	25,798,523
Total Sum of NumberBarged		7,110,764	8,036,643	380,449	20,788	7,512,495	23,061,139
Total Sum of NumberBypassed		1,094,431	804,609	65,097	179,459	366,360	2,509,956
Total Sum of NumberTrucked		139	47,439	220	183	17,433	65,414
Total Sum of TotalProjectMortalities		56,453	29,027	423	1,025	6,178	93,106

Cumulative Adult Passage at Mainstem Dams Through: 07/15

	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	82,658	11,284	100,385	10,734	39,900	4,980	0	0	0	0	0	0
TDA	130,226	7,717	131,207	11,522	87,249	5,199	70,691	7,099	88,162	7,855	33,502	3,420	0	0	0	0	0	0
JDA	110,304	6,353	101,436	10,206	72,403	4,083	63,433	8,678	82,081	7,418	30,917	2,899	0	0	0	0	0	0
MCN	107,497	7,675	95,550	11,123	66,222	4,195	55,301	6,996	79,044	8,208	29,824	2,941	0	0	0	0	0	0
IHR	77,106	4,658	78,170	8,020	44,313	2,700	11,078	2,504	20,008	4,276	8,522	1,375	0	0	0	0	0	0
LMN	71,673	3,786	70,603	7,344	42,703	2,607	10,015	2,087	17,963	3,236	8,160	1,142	0	0	0	0	0	0
LGS	62,458	3,404	69,017	7,079	41,666	2,708	8,724	2,017	13,598	3,197	7,010	1,346	0	0	0	0	0	0
LWG	70,778	4,482	70,609	8,295	40,647	2,828	8,265	2,232	15,453	3,638	7,089	1,375	0	0	0	0	0	0
PRD	13,521	1,020	18,136	656	14,413	382	50,646	4,097	57,241	1,624	20,280	561	0	0	0	0	0	0
RIS	10,917	958	16,881	753	11,256	609	39,557	2,955	48,547	2,097	14,425	1,398	0	0	0	0	0	0
RRH	4,365	734	4,216	450	4,023	171	22,589	3,446	30,066	1,447	8,062	479	0	0	0	0	0	0
WEL	4,610	178	4,504	198	2,563	172	13,406	431	17,137	300	4,544	200	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	1	0	121,329	37,829	40,952	48,416	44,073	33,636	21,214
TDA	0	0	0	0	0	0	105,633	32,971	33,119	21,006	21,656	15,587	9,929
JDA	0	0	0	0	1	0	109,847	33,163	35,679	18,684	17,810	13,728	8,255
MCN	0	0	0	0	0	0	86,970	30,304	30,807	11,445	11,874	8,449	4,492
IHR	0	0	0	0	0	0	66	37	18	6,338	7,509	4,764	2,165
LMN	0	0	0	0	0	0	60	14	22	5,520	6,437	4,129	1,886
LGS	0	0	0	0	0	0	73	18	25	3,925	5,084	3,187	1,642
LWG	0	0	0	0	0	0	95	9	19	9,335	17,961	6,872	3,197
PRD	0	0	2	0	1	0	117,315	31,126	33,852	1,906	786	461	0
RIS	0	0	0	0	1	0	89,533	26,271	24,474	1,300	392	252	1,233
RRH	0	0	1	0	1	0	64,221	19,192	14,226	1,130	286	166	1,052
WEL	0	0	0	0	0	0	54,068	14,071	12,026	320	101	57	251

WEL, RIS, RRH are through 07/13.
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: 07/16/04

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