Fish Passage Center

Weekly Report #04 - 26

September 3, 2004

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Highlights:

- **The summer Flow Objective period on the Lower Snake River ended on August 31st, 2004. Over this period, flows averaged 33.2 Kcfs; the flow objective was 50 Kcfs.**

- **The summer flow period at McNary ended on August 31st, 2004 with flows averaging 133.7 Kcfs. The flow objective at McNary was 200 Kcfs.**

- **Grand Coulee drafted to 1277.9 feet on August 31st, 2004, very near its BIOP August 31st draft limit of 1278 feet.**

- **Libby ended August 31st at an elevation of 2445.0 feet, six feet (259 Kaf) above its BIOP summer draft elevation.**

- **The Hungry Horse Reservoir ended August 31st at an elevation of 3542.2 feet, 2.2 feet (51 Kaf) above its BIOP summer draft target.**

- **The Dworshak Reservoir ended August 31st at an elevation of 1533.2 feet, leaving 176 Kaf of storage water above its BIOP summer draft target of 1520 feet to be released in early September.**

- **Biological Opinion Summer Spill Program ended at midnight on August 31, 2004.**

Summary of Events:

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

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

	Water Year 2004 August 1-23		Water Year 2004 October 1, 2003 to August 23, 2004	
Location	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.97	157	22.59	96
Snake River Above Ice Harbor	1.12	176	16.20	97
Columbia Above The Dalles	1.45	165	21.42	98
Kootenai	2.15	172	22.92	95
Clark Fork	1.61	167	15.66	96
Flathead	1.95	163	20.43	94
Pend Oreille/Spokane	1.51	161	28.03	95
Central Washington	0.63	225	8.24	96
Snake River Plain	0.51	118	9.14	86
Salmon/Boise/ Payette	1.02	196	17.81	94
Clearwater	1.66	186	30.47	105
SW Washington Cascades/Cowlitz	2.72	238	61.22	90
Willamette Valley	1.72	217	54.07	94

The summer Flow Objective period on the Lower Snake River ended on August 31st, 2004. Over this period, flows averaged 33.2 Kcfs; the flow objective was 50 Kcfs.

The summer flow period at McNary also ended on August 31st, 2004 with flows averaging 133.7 Kcfs. The flow objective at McNary was 200 Kcfs.

Operators began to fill Little Goose and Lower Monumental pools above MOP on September 1st and September 2nd, respectively.

Grand Coulee drafted to 1277.9 feet on August 31st, 2004, very near its BIOP August 31st draft limit of 1278 feet. Since this time, Grand Coulee has refilled nearly one foot.

The Libby Reservoir has released a constant 12.5 Kcfs for the entire month of July and most of the month of August. Libby ended August 31st at an elevation of 2445.0 feet, six feet (259 Kaf) above its BIOP summer draft elevation. Libby is projected to continue releasing 12.5 Kcfs of water into September until reaching an elevation of 2439 feet.

The Hungry Horse Reservoir ended August 31st at an elevation of 3542.2 feet, 2.2 feet (51 Kaf) above its BIOP summer draft target. The water not released during the summer BIOP period will be released at Hungry Horse during September. Outflows at Hungry Horse have been 5.1 Kcfs over the last week.

The Dworshak Reservoir ended August 31st at an elevation of 1533.2 feet, leaving 176 Kaf of storage water above its BIOP summer draft target of 1520 feet to be released in early September. At the beginning of September outflows from Dworshak decreased from near 10 Kcfs to 7 Kcfs.

The Brownlee Reservoir is currently at an elevation of 2060.2 feet and has drafted approximately 1.6 feet over the last week. Outflows to Brownlee have ranged between 8.5 and 14.7 Kcfs over the last week.

Spill: The Biological Opinion summer spill program ended at midnight on August 31, 2004. Summer spill for fish passage at Ice Harbor Dam averaged 78% of daily average flow from August 27 through August 31. During the same time period, Biological Opinion summer spill continued at the Lower Columbia projects with spill averaging 30% of daily average flow at John Day dam, 39% at The Dalles Dam and 57% at Bonneville Dam.

Doble testing at Lower Monumental Dam scheduled for August 30 to September 3, 2004 resulted in spill at this project during this time period.

Gas bubble trauma monitoring ended as of August 31, 2004. No fish were observed with signs of gas bubble trauma since the last report period.

Smolt Monitoring: Subyearling chinook indices decreased at most sites in the Snake River while numbers remained low at Rock Island and were steady or continued to decrease at Lower Columbia sites over the past week.

At Lower Granite Dam, subyearling chinook indices decreased this week after more than doubling the previous week. This week's average index was 525 per day compared to 960 per day last week. Of the wild subyearling PIT-tags passing Lower Granite Dam, there were 5 detections of subyearlings marked in the Clearwater River compared to 16 last week, representing 7% of total tags detected to date at Lower Granite Dam. Little Goose also had a decrease in subyearling indices this past week while Lower Monumental saw a slight increase, with the index averaging 310 per day at Little Goose, and 240 per day at Lower Monumental compared to 560 and 230 last week, respectively.

At Rock Island Dam, where sampling ended August 31, the numbers of subyearling chinook increased slightly through the end of the month, with the index averaging 30 per day this week compared to 20 last week. In the Lower Columbia, at McNary Dam, subyearling chinook indices averaged 390 per day this week compared to 370 per day last week. At John Day Dam the subyearling average index was 70 per day this week compared

to 290 last week, while at Bonneville Dam the average index was sharply lower at 600 per day compared to 1,300 the past week.

Hatchery Releases - For the 2004 juvenile migration, about 83.1 million yearling chinook, coho, steelhead, sockeye, and subyearling chinook salmon were released from Columbia River Basin hatcheries above Bonneville Dam. 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

	Friday 03-September-2004			
Race/Species	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	2,580,499	12,183,684	21,964,446	36,728,629
Spring Chinook	10,487,220	3,975,400	5,242,800	19,705,420
Summer Chinook	2,374,050	3,125,983		5,500,033
Coho	1,367,111	2,387,178	6,012,423	9,766,712
Sockeye	76,927	315,790		392,717
Summer Steelhead	9,212,046	1,184,775	482,581	10,879,402
Winter Steelhead			80,318	80,318
Total	26,097,853	23,172,810	33,782,568	83,053,231

Adult Fish Passage - At Bonneville Dam, counts of adult fall chinook ranged between 5,000 and 27,000 with the final 3-days near 14,000 per day for the week ending September 2nd. After this surge of fish passed the project, the total count for the season was 131,782. This total is 113% and 160.5% of the respective 2003 and 10-year average to date. The percentage of Tule fall chinook passing the project on a daily basis increased from about 20% of the chinook count early in the week to 40% of the daily fall chinook count by September 2nd. Tule fall chinook are mainly bound for Spring Creek NFH and tributaries in the Bonneville Pool with early projections of near 138,000 for the 2004 season. The Bright fall chinook component of the Run will spread out through the Columbia and Snake rivers with the largest portion of the Run destined for the Hanford Reach of the Columbia River. The bright fall chinook also include the "listed" wild fall chinook destined for the Snake River. Based on early season projections, this year's passage of bright fall chinook should provide excellent numbers of spawners to the Mid- and Upper Columbia River and tributaries. Fall chinook counts exceeded 3,000 at John Day Dam by August 29 and the same number at McNary Dam by August 31st. By September 1 and 2, counts at Ice Harbor and Priest Rapids Dam began increasing as these chinook made their way upstream.

Steelhead passage at Bonneville Dam ranged from 1,027 on August 27 to a high of near 7,800 on August 31. The steelhead run totals 213,068 through September 2, and this count was about 80.3%of the 2003 count and near equal, slightly greater than the 10-year average. Steelhead counts passing upstream of The Dalles Dam ranged between 2,700 and 5,500 per day for the week with the season total now at 71,944. Passage of steelhead at McNary Dam rose to 2,700 by week's end with daily counts at Ice Harbor Dam rising to 1,200 per day on September 1st. In the Mid-Columbia River, steelhead counts at Priest Rapids Dam increased up to 245 for the peak day (Sep 2nd) with the total steelhead count about 7,200 for the season.

At Bonneville Dam, passage of adult coho rose to 3,300 by August 30 and has maintained close to that level through this reporting week. The total adult coho counted through September 2 was 15,595; about 79% and 210% of the respective 2003 and 10-year average. The majority of coho passing above Bonneville Dam still remain in the Bonneville Pool and its tributaries to spawn; however, additional coho are being released in and returning to the Mid- and Upper Columbia and Snake River basins in recent years.

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
08/20/04	105.4	0.1	111.8	0.0	113.9	7.9	111.9	10.0	112.3	0.0	116.0	1.8	111.3	1.1
08/21/04	74.7	0.2	69.7	0.0	74.2	5.7	74.0	8.3	74.0	0.0	89.9	1.7	94.9	0.9
08/22/04	36.7	0.1	42.0	0.0	42.9	3.7	44.7	0.0	47.5	0.0	62.1	1.5	58.8	0.9
08/23/04	84.3	0.1	86.5	0.0	86.4	6.6	82.8	0.0	80.9	0.0	70.5	1.3	68.8	0.8
08/24/04	87.8	0.1	83.3	0.0	83.6	6.5	79.3	0.0	82.6	0.0	76.1	1.6	67.1	0.9
08/25/04	104.9	0.1	103.3	0.0	104.9	7.8	101.1	0.0	101.8	0.0	104.6	2.0	97.2	1.2
08/26/04	105.9	0.2	108.2	0.0	111.1	7.9	108.1	0.0	110.6	0.0	116.6	2.1	114.5	1.2
08/27/04	108.5	0.2	113.4	0.0	115.3	0.0	114.4	0.0	113.7	0.0	123.9	2.0	125.5	1.0
08/28/04	100.4	0.2	104.4	0.0	104.0	0.0	97.5	0.0	98.6	0.0	97.1	2.0	91.8	1.1
08/29/04	97.1	0.1	91.6	0.0	97.5	0.0	101.4	0.0	103.7	0.0	114.5	1.9	111.5	1.0
08/30/04	138.2	0.2	133.9	12.5	128.4	0.0	121.2	0.0	119.9	0.0	120.2	1.8	118.2	0.8
08/31/04	157.7	0.1	157.2	16.5	155.6	8.7	148.5	0.3	146.1	1.9	151.3	31.3	139.9	11.6
09/01/04	83.4	0.1	90.6	2.3	100.1	6.7	107.6	3.4	109.7	0.0	140.3	20.6	145.3	12.0
09/02/04	71.2	0.2	84.6	0.0	88.6	0.0	84.3	0.0	84.9	0.0	77.8	1.7	71.2	1.0

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

	Dworshak		Brownlee	Hells Canyon	Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
Date	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
08/20/04	10.2	0.0	9.9	11.1	25.8	0.0	26.0	0.0	25.9	0.0	26.4	16.9
08/21/04	10.2	0.0	10.0	9.8	27.1	0.0	26.2	0.0	26.9	0.0	27.4	18.1
08/22/04	10.2	0.0	9.1	8.6	26.0	0.0	26.1	0.0	25.2	0.0	25.8	16.2
08/23/04	10.3	0.0	10.9	8.6	24.3	0.0	24.3	0.0	25.1	0.0	25.9	18.9
08/24/04	10.3	0.0	10.3	9.0	27.5	0.0	26.8	0.0	27.5	0.0	30.8	24.0
08/25/04	10.3	0.0	11.0	9.2	28.0	0.0	28.9	0.0	29.6	0.0	31.5	24.8
08/26/04	10.4	0.0	10.4	8.7	30.4	0.0	30.9	0.0	30.8	0.0	34.1	27.2
08/27/04	10.3	0.0	11.8	11.9	32.4	0.0	32.3	0.0	32.9	0.0	32.4	23.2
08/28/04	10.3	0.0	10.0	8.7	33.2	0.0	32.1	0.0	32.0	0.0	34.7	27.9
08/29/04	10.3	0.0	10.3	8.8	29.7	0.0	29.8	0.0	30.1	0.0	30.5	23.9
08/30/04	10.4	0.0	11.8	12.8	27.4	0.0	27.6	0.0	27.0	15.5	31.6	24.9
08/31/04	10.1	0.0	10.7	15.7	31.6	0.0	33.1	0.0	31.3	25.4	33.3	26.4
09/01/04	7.0	0.0	9.8	13.4	31.0	0.0	22.3	0.0	21.0	15.1	21.6	0.1
09/02/04	7.0	0.0	---	---	26.5	0.0	28.1	0.0	23.9	18.0	---	---

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

	McNary		John Day		The Dalles		Bonneville			
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
08/20/04	146.4	0.0	137.2	41.0	135.8	53.7	165.2	99.1	0.0	54.7
08/21/04	137.7	0.0	136.7	41.0	139.4	55.2	164.7	100.6	0.0	52.8
08/22/04	91.6	0.0	93.4	28.1	95.1	35.6	131.2	88.8	0.0	31.1
08/23/04	102.5	0.0	106.5	30.8	104.6	37.9	130.1	87.3	0.0	31.4
08/24/04	110.9	0.0	108.0	32.5	109.7	39.6	137.1	92.1	0.3	33.4
08/25/04	102.7	0.0	106.3	31.5	109.2	42.3	138.5	90.7	0.1	36.3
08/26/04	136.9	0.0	128.4	37.9	128.5	48.3	155.4	98.5	5.4	40.3
08/27/04	155.4	0.0	154.6	45.9	153.4	60.8	184.3	112.3	5.6	55.0
08/28/04	146.9	0.0	147.3	43.9	145.0	57.7	171.5	104.2	0.0	55.9
08/29/04	136.0	0.0	123.1	37.3	123.1	48.9	160.7	97.2	0.0	52.1
08/30/04	152.8	0.0	179.9	53.7	179.0	70.7	189.5	98.0	8.7	71.4
08/31/04	149.4	0.0	156.2	46.0	158.9	61.7	182.3	97.0	5.9	70.0
09/01/04	171.5	27.3	133.7	0.0	134.8	0.0	143.0	2.6	33.3	100.6
09/02/04	146.6	9.1	159.1	0.4	158.5	0.0	154.8	2.2	42.1	104.1

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											
	08/26/04	Chinook + Steelhead	29	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	08/24/04	Chinook + Steelhead	101	0	0	0.00%	0.00%	0	0	0	0
	08/28/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/31/04	Chinook + Steelhead	32	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
8/20	---	---	---	0	110	110	111	24	105	105	106	24	107	108	108	24	108	109	109	23
8/21	---	---	---	0	109	110	110	24	109	111	143	20	107	108	112	24	108	109	109	23
8/22	---	---	---	0	108	109	109	24	---	---	---	0	106	107	108	24	108	108	108	23
8/23	---	---	---	0	109	111	111	24	---	---	---	0	107	109	110	24	107	108	108	23
8/24	---	---	---	0	110	110	111	24	---	---	---	0	108	109	110	24	107	107	107	18
8/25	---	---	---	0	112	115	117	24	---	---	---	0	107	108	109	24	---	---	---	0
8/26	---	---	---	0	117	117	119	24	---	---	---	0	106	106	109	24	---	---	---	0
8/27	---	---	---	0	117	118	124	24	102	103	103	16	105	106	109	24	---	---	---	0
8/28	---	---	---	0	118	120	126	24	105	105	105	24	105	106	109	24	---	---	---	0
8/29	---	---	---	0	115	116	116	24	104	105	106	24	106	107	107	24	---	---	---	0
8/30	---	---	---	0	115	115	116	24	103	104	104	24	106	106	107	24	---	---	---	0
8/31	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/1	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/2	---	---	---	0	110	113	114	24	105	105	106	24	104	105	105	24	104	105	105	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
8/20	109	109	110	23	108	109	109	24	109	110	111	24	110	111	111	24	111	111	112	24
8/21	109	109	110	23	108	109	110	24	109	110	111	24	111	111	111	24	111	112	112	24
8/22	109	109	110	23	106	107	107	24	108	108	109	24	110	110	111	24	110	110	111	24
8/23	107	108	108	23	106	107	107	24	107	108	108	24	108	109	109	24	108	109	109	24
8/24	108	108	109	23	106	107	107	23	107	108	111	23	107	108	108	24	107	107	108	24
8/25	108	108	108	23	106	106	106	24	107	108	108	24	107	107	107	24	107	107	107	24
8/26	107	107	109	23	106	107	107	24	108	108	109	24	105	105	106	24	105	105	106	24
8/27	105	106	106	23	107	108	108	24	107	108	108	24	105	105	105	24	105	105	105	24
8/28	106	106	107	23	107	107	108	24	107	107	108	24	105	106	106	24	105	106	106	24
8/29	106	106	107	23	107	107	108	23	106	107	108	23	106	106	107	24	106	106	107	24
8/30	110	115	120	23	107	107	108	24	107	107	108	24	106	106	106	24	106	106	106	24
8/31	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/1	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/2	105	105	107	23	107	108	108	24	107	107	108	24	106	106	107	24	106	106	108	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
8/20	110	111	111	24	110	111	111	24	109	109	111	23	108	109	109	23	108	108	109	13
8/21	110	110	111	24	110	111	111	24	108	109	110	23	108	108	108	23	---	---	---	0
8/22	110	110	111	24	110	111	111	24	108	108	108	23	107	108	108	23	---	---	---	0
8/23	107	108	108	24	108	108	108	24	105	106	106	23	105	105	106	23	105	105	105	11
8/24	106	107	108	24	107	107	108	24	105	105	106	23	105	105	106	23	104	104	104	23
8/25	106	106	106	24	106	106	106	24	106	106	107	23	105	106	106	23	103	103	104	23
8/26	104	105	105	24	105	105	105	24	105	105	106	23	104	105	105	23	103	104	104	23
8/27	104	105	105	24	104	105	105	24	103	103	104	23	103	103	103	23	103	103	103	23
8/28	105	105	106	24	105	105	106	24	103	104	105	23	103	103	104	23	103	103	104	23
8/29	105	106	107	24	106	106	107	24	104	105	105	23	103	104	104	23	103	104	104	23
8/30	105	106	106	24	105	106	106	24	106	108	116	23	104	105	105	23	104	104	105	23
8/31	---	---	---	0	---	---	---	0	105	106	107	23	107	109	120	23	105	106	109	23
9/1	---	---	---	0	---	---	---	0	104	105	105	23	108	112	128	23	107	109	112	23
9/2	105	105	105	24	105	105	105	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
8/20	---	---	---	0	106	107	108	24	100	100	101	24	101	103	104	24	101	102	103	24
8/21	---	---	---	0	106	107	108	24	100	101	101	24	101	103	104	24	101	102	103	24
8/22	---	---	---	0	103	103	104	24	100	100	100	24	101	101	102	24	99	100	100	23
8/23	---	---	---	0	102	103	103	20	100	100	100	24	101	102	103	24	99	100	100	24
8/24	---	---	---	0	101	102	102	24	100	100	100	24	100	101	102	24	99	99	100	24
8/25	---	---	---	0	100	101	101	24	100	100	101	24	101	101	102	24	100	100	102	24
8/26	---	---	---	0	101	102	102	24	99	99	100	24	100	100	101	24	100	101	101	24
8/27	---	---	---	0	102	103	104	24	99	99	99	24	100	101	101	24	101	102	103	23
8/28	---	---	---	0	103	103	104	24	99	99	100	24	100	101	102	24	102	102	103	24
8/29	---	---	---	0	103	104	105	24	99	100	100	24	100	101	102	24	102	103	103	24
8/30	---	---	---	0	103	104	104	24	99	100	100	24	100	101	102	24	102	103	104	24
8/31	---	---	---	0	104	104	105	24	---	---	---	0	---	---	---	0	---	---	---	0
9/1	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/2	---	---	---	0	104	104	105	24	98	99	99	24	100	101	102	24	101	101	102	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
8/20	103	104	106	24	105	105	106	24	101	101	102	24	105	105	105	24	100	100	100	24
8/21	103	105	106	24	104	105	105	24	101	101	102	24	102	102	103	24	100	101	101	24
8/22	101	102	102	24	103	103	104	24	101	101	102	24	100	101	101	24	100	100	101	24
8/23	101	103	104	24	102	102	102	24	101	101	102	24	100	100	100	24	100	100	100	24
8/24	101	101	102	24	102	102	102	24	101	101	102	24	100	100	100	24	100	100	101	24
8/25	101	102	103	24	101	102	102	24	101	101	101	24	100	100	100	24	99	100	100	24
8/26	100	101	102	24	100	101	101	24	99	100	100	24	98	98	99	24	98	98	99	24
8/27	101	103	104	24	100	100	101	24	98	98	98	24	97	97	98	24	98	98	99	24
8/28	102	103	104	24	100	101	102	24	98	98	99	24	97	98	98	24	98	98	99	24
8/29	102	104	105	24	103	105	105	24	98	99	99	24	98	99	100	24	99	99	100	24
8/30	102	104	105	24	106	107	108	24	99	99	99	24	101	103	104	24	99	100	100	24
8/31	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/1	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/2	101	103	104	24	101	101	102	24	99	99	100	24	97	98	98	24	97	98	98	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
8/20	105	107	108	24	100	100	101	24	101	102	103	24	111	113	114	24	109	111	113	24
8/21	101	101	103	24	100	100	101	24	100	101	101	24	111	113	114	24	108	109	110	24
8/22	101	101	101	24	100	100	101	24	100	100	101	24	110	111	114	24	105	105	106	24
8/23	100	101	101	24	101	102	111	24	100	100	101	24	111	112	114	22	103	103	104	24
8/24	100	100	101	24	100	100	102	24	101	101	101	24	112	113	114	24	103	103	103	24
8/25	100	100	100	24	100	100	103	24	100	100	101	24	112	113	114	24	102	102	102	24
8/26	98	99	99	24	98	99	99	24	98	98	99	24	112	114	115	23	100	101	101	24
8/27	98	98	99	24	98	98	99	24	97	98	98	24	112	114	116	24	100	101	103	24
8/28	98	99	99	24	98	98	99	24	98	99	99	24	113	115	115	24	102	104	106	24
8/29	99	100	101	24	99	99	100	24	99	100	101	24	112	114	114	24	104	106	108	24
8/30	99	100	101	24	109	115	115	24	100	101	102	24	113	114	114	24	106	110	113	24
8/31	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	107	110	112	24
9/1	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/2	98	99	99	24	113	113	113	24	100	100	102	19	100	100	101	19	103	104	104	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
8/20	107	108	109	24	107	108	109	24	104	104	104	23	114	114	115	24	106	106	107	23
8/21	107	108	109	24	108	109	109	24	104	104	104	23	114	114	115	24	105	105	106	23
8/22	106	107	107	24	108	109	110	24	103	103	104	23	112	113	114	24	105	105	106	23
8/23	104	104	105	24	107	108	108	24	102	102	102	23	113	114	115	24	104	104	104	23
8/24	103	103	103	24	107	108	110	24	102	102	102	23	113	114	115	24	104	104	105	23
8/25	102	102	103	24	108	109	109	24	101	102	102	23	113	114	114	24	104	105	105	23
8/26	100	100	101	24	108	108	109	24	100	100	100	23	113	114	115	24	103	103	104	23
8/27	99	100	100	24	108	110	112	24	99	99	100	23	114	115	115	24	103	104	104	23
8/28	101	101	102	24	109	109	110	24	99	99	99	23	114	114	115	24	104	105	105	23
8/29	104	105	107	24	112	115	119	24	99	99	99	23	113	114	114	24	105	105	106	23
8/30	106	106	107	24	117	118	120	24	99	100	100	23	115	116	117	24	105	105	105	23
8/31	107	107	109	24	113	120	122	24	100	101	101	23	114	114	115	24	105	106	106	23
9/1	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/2	103	103	104	24	106	108	109	24	100	100	100	23	100	100	100	24	100	101	103	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
8/20	113	113	113	24	105	105	105	23	114	115	116	23	110	112	113	24
8/21	112	113	113	24	104	105	105	23	114	115	116	23	110	112	113	24
8/22	111	112	112	24	104	105	105	23	115	116	117	23	108	110	111	24
8/23	111	111	112	24	104	104	104	23	114	115	115	23	110	111	112	24
8/24	110	111	112	24	104	104	105	23	114	114	115	23	110	110	112	24
8/25	112	112	113	24	103	103	103	23	113	113	115	12	107	108	109	24
8/26	111	112	112	24	103	103	103	23	113	113	114	13	107	108	110	24
8/27	111	112	112	24	103	104	105	23	114	116	117	23	111	113	115	24
8/28	112	112	113	24	104	105	105	23	114	116	119	23	111	113	115	24
8/29	112	113	114	24	105	105	106	23	114	115	116	23	110	113	114	24
8/30	112	113	113	24	106	107	107	23	114	115	116	23	111	113	115	24
8/31	113	113	114	24	107	108	108	23	114	115	116	23	110	112	114	24
9/1	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/2	101	102	104	24	104	104	105	23	105	105	105	23	103	104	104	24

Two-Week Summary of Passage Indices

COMBINED YEARLING CHINOOK

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)
08/20/2004	*	---	---	---	---	---	0	4	0	0	0	0	0
08/21/2004	*	---	---	---	---	---	0	1	2	0	0	0	0
08/22/2004		---	---	---	---	---	0	0	1	0	0	0	0
08/23/2004		---	---	---	---	---	0	1	3	0	0	0	0
08/24/2004	*	---	---	---	---	---	0	7	3	0	0	0	0
08/25/2004	*	---	---	---	---	---	0	16	3	0	4	0	0
08/26/2004		---	---	---	---	---	0	14	2	0	0	0	0
08/27/2004	*	---	---	---	---	---	0	14	1	0	0	0	0
08/28/2004	*	---	---	---	---	---	0	0	3	0	5	0	0
08/29/2004	*	---	---	---	---	---	4	10	2	0	0	0	0
08/30/2004	*	---	---	---	---	---	0	5	2	0	0	0	0
08/31/2004	*	---	---	---	---	---	0	2	0	0	0	0	0
09/01/2004	*	---	---	---	---	---	0	3	0	---	0	0	0
09/02/2004	*	---	---	---	---	---	---	0	0	---	0	0	0
09/03/2004		---	---	---	---	---	---	---	0	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**0**	**4**	**77**	**22**	**0**	**9**	**0**	**0**
# Days:		**0**	**0**	**0**	**0**	**0**	**13**	**14**	**15**	**12**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**0**	**6**	**1**	**0**	**1**	**0**	**0**
YTD		**835**	**29,063**	**66,832**	**9,904**	**4,053**	**5,175,956**	**2,658,608**	**913,835**	**12,574**	**1,069,757**	**1,005,416**	**1,466,443**

COMBINED SUBYEARLING CHINOOK

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)
08/20/2004	*	---	---	---	---	---	612	540	190	29	514	457	1,372
08/21/2004	*	---	---	---	---	---	788	359	144	33	616	351	1,636
08/22/2004		---	---	---	---	---	1,140	283	145	17	384	459	718
08/23/2004		---	---	---	---	---	1,364	211	241	5	385	284	967
08/24/2004	*	---	---	---	---	---	848	687	269	15	276	199	535
08/25/2004	*	---	---	---	---	---	852	1,049	224	18	168	115	2,120
08/26/2004		---	---	---	---	---	1,108	782	376	30	232	149	1,610
08/27/2004	*	---	---	---	---	---	1,020	584	296	25	285	179	712
08/28/2004	*	---	---	---	---	---	880	406	232	40	460	71	1,819
08/29/2004	*	---	---	---	---	---	520	394	230	38	410	50	1,033
08/30/2004	*	---	---	---	---	---	284	195	275	28	684	29	328
08/31/2004	*	---	---	---	---	---	256	183	561	6	412	43	177
09/01/2004	*	---	---	---	---	---	188	253	51	---	275	73	137
09/02/2004	*	---	---	---	---	---	---	164	27	---	200	50	70
09/03/2004		---	---	---	---	---	---	---	41	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**0**	**9,860**	**6,090**	**3,302**	**284**	**5,301**	**2,509**	**13,234**
# Days:		**0**	**0**	**0**	**0**	**0**	**13**	**14**	**15**	**12**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**758**	**435**	**220**	**24**	**379**	**179**	**945**
YTD		**1,579**	**0**	**29**	**80**	**935**	**1,015,551**	**480,557**	**190,542**	**25,925**	**8,413,319**	**1,720,427**	**4,741,822**

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

For clip information see: Daily Catch Report

For sockeye and yearling chinook (Snake only) race information see: Current Passage Index Query
If the text appears garbled, please hit the refresh button on your browser

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

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

Two-Week Summary of Passage Indices

COMBINED COHO

		ENT	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date		(Coll)	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/20/2004	*	---	---	---	---	---	0	10	1	1	0	0	0
08/21/2004	*	---	---	---	---	---	0	10	1	1	0	0	0
08/22/2004		---	---	---	---	---	0	8	1	0	0	0	0
08/23/2004		---	---	---	---	---	0	6	1	0	0	0	0
08/24/2004	*	---	---	---	---	---	0	16	0	0	0	0	0
08/25/2004	*	---	---	---	---	---	0	26	0	0	0	0	0
08/26/2004		---	---	---	---	---	0	16	0	0	0	0	0
08/27/2004	*	---	---	---	---	---	8	14	1	0	0	0	0
08/28/2004	*	---	---	---	---	---	8	8	2	0	0	0	0
08/29/2004	*	---	---	---	---	---	0	4	0	0	0	0	0
08/30/2004	*	---	---	---	---	---	0	7	1	0	0	0	0
08/31/2004	*	---	---	---	---	---	0	2	0	0	0	0	0
09/01/2004	*	---	---	---	---	---	4	2	0	---	0	0	0
09/02/2004	*	---	---	---	---	---	---	1	0	---	0	0	0
09/03/2004		---	---	---	---	---	---	---	0	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**0**	**20**	**130**	**8**	**2**	**0**	**0**	**0**
# Days:		**0**	**0**	**0**	**0**	**0**	**13**	**14**	**15**	**12**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**2**	**9**	**1**	**0**	**0**	**0**	**0**
YTD		**0**	**0**	**0**	**0**	**45**	**259,485**	**127,944**	**15,933**	**28,668**	**90,681**	**175,311**	**938,019**

COMBINED STEELHEAD

		ENT	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date		(Coll)	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/20/2004	*	---	---	---	---	---	68	17	11	0	0	0	0
08/21/2004	*	---	---	---	---	---	28	13	7	1	0	0	0
08/22/2004		---	---	---	---	---	20	18	8	0	0	0	0
08/23/2004		---	---	---	---	---	28	16	4	0	0	0	0
08/24/2004	*	---	---	---	---	---	44	8	3	1	0	0	15
08/25/2004	*	---	---	---	---	---	12	11	1	3	0	0	15
08/26/2004		---	---	---	---	---	68	8	2	1	0	0	0
08/27/2004	*	---	---	---	---	---	20	4	2	0	0	0	0
08/28/2004	*	---	---	---	---	---	8	0	1	3	0	0	0
08/29/2004	*	---	---	---	---	---	20	0	1	1	0	0	0
08/30/2004	*	---	---	---	---	---	20	3	1	0	0	0	0
08/31/2004	*	---	---	---	---	---	12	0	0	1	0	0	0
09/01/2004	*	---	---	---	---	---	8	2	0	---	0	0	0
09/02/2004	*	---	---	---	---	---	---	5	0	---	0	0	0
09/03/2004		---	---	---	---	---	---	---	0	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**0**	**356**	**105**	**41**	**11**	**0**	**0**	**30**
# Days:		**0**	**0**	**0**	**0**	**0**	**13**	**14**	**15**	**12**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**27**	**8**	**3**	**1**	**0**	**0**	**2**
YTD		**195**	**2,106**	**36,387**	**1,857**	**8,418**	**5,828,237**	**1,917,664**	**343,344**	**10,735**	**124,610**	**257,267**	**155,700**

* 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)
08/20/2004	*	---	---	---	---	---	0	1	0	0	0	0	0
08/21/2004	*	---	---	---	---	---	0	1	0	0	0	0	0
08/22/2004		---	---	---	---	---	0	1	0	0	0	0	0
08/23/2004		---	---	---	---	---	4	1	0	0	0	0	0
08/24/2004	*	---	---	---	---	---	0	3	0	0	0	0	0
08/25/2004	*	---	---	---	---	---	0	7	1	0	0	0	0
08/26/2004		---	---	---	---	---	0	0	0	0	0	0	0
08/27/2004	*	---	---	---	---	---	0	8	1	0	0	0	0
08/28/2004	*	---	---	---	---	---	0	0	0	0	0	0	0
08/29/2004	*	---	---	---	---	---	0	1	0	0	0	0	0
08/30/2004	*	---	---	---	---	---	8	1	0	0	0	0	0
08/31/2004	*	---	---	---	---	---	0	2	0	0	0	0	0
09/01/2004	*	---	---	---	---	---	8	0	0	---	0	0	0
09/02/2004	*	---	---	---	---	---	---	2	0	---	0	0	0
09/03/2004		---	---	---	---	---	---	---	0	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**0**	**20**	**28**	**2**	**0**	**0**	**0**	**0**
# Days:		**0**	**0**	**0**	**0**	**0**	**13**	**14**	**15**	**12**	**14**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**2**	**2**	**0**	**0**	**0**	**0**	**0**
YTD		**6**	**9**	**0**	**0**	**25**	**7,597**	**4,759**	**960**	**7,114**	**308,942**	**235,899**	**189,679**

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

Smolt indices, clipped & unclipped or combined, are presented in the following order: yearling chinook (chinook 1's,) subyearling chinook (chinook 0's), steelhead, coho, and sockeye. Two classes of fish counts are shown in these tables: collection counts, which account for sample rates but are not adjusted for flow; and passage indices, which are collection counts divided by the proportion of water passing through the sampled powerhouse. Passage indices are not population estimates, but are used to adjust collection counts for daily fluctuations in the site's or project's operations. The classes of counts presented in the report are defined below for each site. Most samples occur over a 24-hr period that spans two calendar days. In this report, the date shown corresponds with the sample end date.

Definitions for Smolt Index Counts

WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts
IMN (Collection) = Imnaha River Trap : Collection Counts
GRN (Collection) = Grande Ronde River Trap : Collection Counts
LEW (Collection) = Snake River Trap at Lewiston : Collection Counts
ENT (Collection) = Entiat River Trap : Collection Counts
LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}
MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}
BO1 (Index) = Bonneville Dam First Powerhouse Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse 1 Flow / (Powerhouse 1 & 2 Flow + Spill)}

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.
RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.
LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.
LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.
IMN data collected for the FPC by the Nez Perce Tribe. ENT data collected for the FPC by USFWS.

Two Week Transportation Summary

Source: Fish Passage Center Updated: 9/3/04 8:55 AM

08/21/04 TO 09/03/04

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	9,860	4	20	20	356	10,260
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	35	0	0	0	0	35
	Sum of Numbertrucked	10,257	8	20	17	378	10,680
	Sum of TotalProjectMortalities	144	0	0	3	6	153
LGS	Sum of NumberCollected	6,090	77	130	28	105	6,430
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	6,668	96	151	29	150	7,094
	Sum of TotalProjectMortalities	45	2	1	1	5	54
LMN	Sum of NumberCollected	2,771	22	8	2	41	2,844
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	2,657	21	8	1	47	2,734
	Sum of TotalProjectMortalities	292	1	0	1	0	294
MCN	Sum of NumberCollected	5,262	9				5,271
	Sum of NumberBarged	0	0				0
	Sum of NumberBypassed	0	0				0
	Sum of Numbertrucked	5,607	8				5,615
	Sum of TotalProjectMortalities	160	1				161
Total Sum of NumberCollected		23,983	112	158	50	502	24,805
Total Sum of NumberBarged		0	0	0	0	0	0
Total Sum of NumberBypassed		35	0	0	0	0	35
Total Sum of Numbertrucked		25,189	133	179	47	575	26,123
Total Sum of TotalProjectMortalities		641	4	1	5	11	662

YTD Transportation Summary

Source: Fish Passage Center Updated: 9/3/04 8:55 AM

TO: 09/03/04

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	985,325	4,846,433	252,866	7,286	5,677,070	11,768,980
	Sum of NumberBarged	922,264	4,627,911	238,962	6,745	5,368,247	11,164,129
	Sum of NumberBypassed	46,438	151,332	13,352	285	289,607	501,014
	Sum of NumberTrucked	11,440	43,999	244	198	15,970	71,851
	Sum of TotalProjectMortalities	5,183	23,191	308	58	3,243	31,983
LGS	Sum of NumberCollected	480,290	2,573,082	124,687	4,707	1,871,568	5,054,334
	Sum of NumberBarged	471,597	2,569,307	124,333	4,667	1,867,841	5,037,745
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of NumberTrucked	7,495	2,217	194	32	1,623	11,561
	Sum of TotalProjectMortalities	1,032	1,520	62	6	2,097	4,717
LMN	Sum of NumberCollected	182,048	843,368	14,898	906	288,188	1,329,408
	Sum of NumberBarged	171,441	834,167	14,882	903	284,666	1,306,059
	Sum of NumberBypassed	6,666	6,333	3	1	2,141	15,144
	Sum of NumberTrucked	2,887	1,377	9	1	685	4,959
	Sum of TotalProjectMortalities	1,054	1,491	4	1	696	3,246
MCN	Sum of NumberCollected	7,675,627	658,053	56,924	190,590	76,314	8,657,508
	Sum of NumberBarged	6,549,868	8,073	5,009	10,355	1,384	6,574,689
	Sum of NumberBypassed	1,044,727	647,051	51,742	179,173	74,612	1,997,305
	Sum of NumberTrucked	6,748	8	0	0	0	6,756
	Sum of TotalProjectMortalities	69,117	2,921	173	1,062	318	73,591
Total Sum of NumberCollected		9,323,290	8,920,936	449,375	203,489	7,913,140	26,810,230
Total Sum of NumberBarged		8,115,170	8,039,458	383,186	22,670	7,522,138	24,082,622
Total Sum of NumberBypassed		1,097,831	804,716	65,097	179,459	366,360	2,513,463
Total Sum of NumberTrucked		28,570	47,601	447	231	18,278	95,127
Total Sum of TotalProjectMortalities		76,386	29,123	547	1,127	6,354	113,537

Cumulative Adult Passage at Mainstem Dams Through: 09/02

	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	170,152	8,885	192,010	14,258	130,296	7,371	92,143	12,889	114,808	13,358	47,301	6,386	131,782	8,327	116,158	7,638	82,095	6,621
TDA	130,240	7,717	131,207	11,522	87,249	5,199	79,495	8,430	101,490	10,441	40,826	4,723	49,440	4,607	55,538	4,260	35,558	3,136
JDA	112,153	6,367	101,436	10,206	72,403	4,083	72,547	10,542	95,542	10,073	38,101	4,222	31,042	3,689	29,621	3,247	20,820	2,098
MCN	107,497	7,682	95,550	11,123	66,222	4,195	65,457	8,760	93,844	11,104	38,682	4,382	14,932	1,812	14,614	2,180	13,007	1,372
IHR	76,806	4,646	78,170	8,020	44,313	2,700	12,633	2,871	20,742	4,601	9,011	1,513	1,086	302	992	154	805	96
LMN	71,673	3,786	70,603	7,344	42,703	2,607	10,574	2,196	18,718	3,589	8,791	1,290	801	178	654	145	617	108
LGS	62,458	3,404	69,017	7,079	41,666	2,708	9,304	2,263	14,340	3,537	7,673	1,531	381	80	532	47	402	45
LWG	70,742	4,482	70,609	8,295	40,647	2,828	8,813	2,507	16,422	4,137	7,839	1,655	255	130	372	75	260	43
PRD	13,521	1,020	18,136	656	14,413	382	67,060	5,613	82,904	3,933	33,981	1,384	3,955	568	5,744	1,248	5,827	494
RIS	10,917	958	16,881	753	11,256	609	62,311	4,834	81,543	6,858	31,088	4,058	1,568	326	2,905	888	1,495	424
RRH	4,365	734	4,216	450	4,023	171	41,532	8,093	63,167	6,195	22,791	2,151	1,058	244	2,137	648	1,109	327
WEL	4,615	178	4,504	198	2,563	172	31,380	1,368	43,600	1,821	16,439	1,197	670	60	895	101	229	54

	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	15,595	818	19,834	1,027	7,443	567	123,283	39,287	42,656	213,068	265,323	212,485	75,741
TDA	1,024	109	2,209	254	576	91	107,461	34,173	34,663	71,944	86,718	90,890	28,702
JDA	496	95	839	37	231	34	113,490	35,415	37,903	61,552	63,895	62,630	23,315
MCN	44	16	64	10	46	4	89,691	32,037	33,490	35,705	41,751	46,180	13,333
IHR	0	0	0	0	2	0	83	37	18	20,563	26,976	24,296	5,479
LMN	0	0	0	0	0	0	77	14	24	14,253	19,238	21,003	4,066
LGS	0	0	1	0	0	0	78	22	26	10,939	14,498	14,177	3,273
LWG	0	0	0	0	0	0	110	11	22	14,499	24,685	14,819	4,834
PRD	3	3	19	8	6	1	124,942	36,539	40,822	7,162	8,609	5,823	n/a
RIS	1	0	10	0	1	0	106,055	34,764	37,844	5,715	5,672	4,054	4,652
RRH	1	0	2	0	1	0	81,296	30,328	24,427	4,807	4,409	2,743	3,724
WEL	0	0	0	0	0	0	77,402	28,965	23,991	2,781	2,956	1,951	1,949

RIS and RRH are through 8/29. IHR and WEL are through 9/1
IHR is missing 7/2; LGR has duplicate data 7/14 and 7/15.
*PRD is not posting 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: 09/03/04

Run Year counts (June 1, 2004 to May 31, 2005):

Steelhead
6,881

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