



## Fish Passage Center

# Weekly Report #03 - 25

Sept. 12, 2003

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### Summary of Events:

**Water Supply:** Precipitation throughout the Columbia Basin generally been above average over the first week of September at most of the sites listed in Table 1. Over the entire water year, precipitation has ranged between 72% and 99% of average at the listed sites.

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

Location	September 1-8, 2003		Cumulative October, 1 2002 to September 8, 2003	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.52	120	19.56	80
Snake River Above Ice Harbor	0.31	110	15.70	91
Columbia Above The Dalles	0.45	131	19.35	86
Kootenai	0.73	168	18.68	75
Clark Fork	0.18	55	14.30	84
Flathead	0.43	100	16.33	73
Pend Oreille/Spokane	0.74	184	27.37	90
Central Washington	0.24	206	8.77	99
Snake River Plain	0.12	54	7.88	72
Salmon/Boise/Payette	0.23	83	18.77	97
Clearwater	0.73	163	29.50	99
SW Washington Cascades/Cowlitz	0.28	34	57.46	83
Willamette Valley	0.91	160	52.38	90

Libby Reservoir is currently at an elevation of 2435.8 feet, and has drafted 1.3 feet in the last week. Outflows over the past week have been variable. Late last week and over the weekend Libby was ramping down to an outflow of 7.0 Kcfs at a rate of decrease of 1.0 Kcfs per day.

However, a request was received by the COE from the City of Bonners Ferry to increase flows in the Kootenai River so they could use their pumps for a forest fire in the Myrtle Creek drainage basin. Outflows were increased to 11 Kcfs on Monday afternoon at Libby and held until Wednesday evening; outflows are currently being ramped back down to 7 Kcfs.

Hungry Horse Reservoir is at an elevation of 3538.1 feet and has been drafted approximately 0.9 feet over the last week. Outflows have ranged between 1.9 and 2.2 Kcfs.

Dworshak Reservoir is currently at an elevation of 1521.8 feet, and has drafted 5.9 feet in the last week. Supplemental outflows from Dworshak to moderate temperatures in the Lower Snake River remain at a daily average of 7.0 Kcfs. Some daily load-following flow fluctuations remain at Dworshak; however, tailwater temperatures have been relatively steady between 44-46° F. Therefore SOR 2003-14 has been recognized and implemented by the Action Agencies. The COE plans to reduce outflows from Dworshak today (September 12, 2003) to a day average of 4.7 Kcfs and be at or near the 1520-foot elevation by the end of the weekend. Dworshak will be at minimum outflows early next week.

Grand Coulee Reservoir ended September 11th at an elevation of 1280.0 feet. The BOR plans to be at an elevation of 1283.0 feet by the end of September. Outflows over the last week have ranged between a day average of 27.3 and 72.5 Kcfs.

Brownlee Reservoir was at an elevation of 2049.9 feet on September 11th, drafting 2.3 feet in the last week. Outflows at Brownlee have been fluctuating between 6.7 and 16.7 Kcfs over the week.

**Smolt Monitoring:** At Lower Granite Dam the average daily index for subyearling chinook increased from 170 last week to 290 per day this week. Little Goose Dam saw an increase as well with an index of 1,000 this week compared to 420 last week. At Lower Monumental the daily average index continued to decline, as subyearling indices averaged 140 this week compared to 210 last week.

In the Lower Columbia, at McNary, the daily average index for subyearling chinook was down to 160 per day this week compared to 770 last week. At John Day Dam the average daily index for subyearling chinook decreased to 80 this week compared to 400 last week. At Bonneville Dam, the average daily index for subyearling chinook was at 300 this week compared to 600 last week.

**Hatchery Releases** - The preliminary total of juvenile salmonids released from Columbia River Basin hatcheries above Bonneville Dam for the 2003 migration season is estimated near 87.3 million. Supplemental and planned releases will be completed this fall season; these release groups will primarily be considered as 2004 migrants. The Zone Release Report below summarizes hatchery releases from State, federal or Tribal hatcheries or acclimation ponds for the 2003 Migration Season. These totals will be updated and finalized through the year.

Hatchery Zone Release Report	Friday 12-Sep-2003			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	4091433	12255089	25446818	41793340
Spring Chinook	10473976	3474730	5441505	19390211
Summer Chinook	2332578	3001618		5334196
Coho	1248216	1876158	5732260	8856634
Sockeye	140410	208986		349396
Summer Steelhead	9687941	1344613	490667	11523221
Winter Steelhead			94900	94900
Total	27974554	22161194	37206150	87341898

**Adult Fish Passage** - At Bonneville Dam, numbers of adult fall chinook were at high levels throughout the week with counts near 22,000 per day last Friday and Saturday, dropped to 9-13,000 from Sunday through Tuesday and rose to 26,000 on Wednesday with the Thursday count up to 45,000 on the final day reporting date of the week September 11. The cumulative count through September 11 was 311,263, approximately 90.3% and 184.5% of the respective 2002 and 10-year average. Based on sheer numbers of adult fish passing Bonneville Dam on 9/11, and the fact that most of the salmon were using the WA shore ladder, a request was made to operate 2-turbine units at the Old Powerhouse. The purpose of this operation is to reduce passage through the WA fish ladder and hopefully attract a portion of these fish to the OR shore fish ladder. Operation of turbine units 9 and 10 at the Old Powerhouse was implemented by the Bonneville Project about 10 a.m. on 9/12/03. Numbers of "Tule" stock fall chinook remained at high levels throughout the past week with about 15,000 of the 45,000 fall chinook passing the project on 9/11 being Tule stock fall chinook. Since August 15 about 82,000 Tule fall chinook have been tallied with the remainder of the chinook being the upriver bright chinook. The Tule fall chinook mainly migrates and spawns in rivers located below The Dalles Dam with Spring Creek NFH being the primary site that these fish return in the Bonneville Pool.

Upriver bright fall chinook counts past McNary Dam ranged between 2,000 and 8,000 for the week with the cumulative count at 54,500 through September 11. At Priest Rapids Dam, adult fall chinook counts ranged between 800 and 1,400 with the cumulative total being 14,913. At Ice Harbor Dam, a single daily count of 1,041 on September 10 and the cumulative count at 6,000 through the 11th.

Numbers of steelhead at Bonneville Dam ranged between 800 and 3,000 for the week the high daily count of 3,067. The cumulative count through September 11 was 290,076 and compares to 372,758 in 2002 and 228,704 for the 10-year average. The steelhead count differential

between Bonneville Dam and The Dalles Dam should be decreasing as the number of steelhead passing The Dalles increased to 4,000-6,000 by week's end. Water temperatures are beginning to cool in the mainstem Columbia River and many of the steelhead that have been holding in the tributaries should begin their upstream migration during the next few weeks. At McNary Dam, daily counts of adult steelhead ranged from 1,800 to 6,300, while counts of steelhead averaged about 300 per day at Priest Rapids Dam. At Ice Harbor Dam, steelhead counts ranged from 900 to 3,000 per day, a large increase from the previous week. The cumulative count for Priest Rapids Dam was 10,891 through September 10 with Ice Harbor at 42,075 through September 11.

At Bonneville Dam, adult coho counts ranged from a low of 400 to a high of 2,700 for the week with the cumulative count through September 11 at 35,769. This total was 2.1-times greater than the 2002 count and 1.5 times greater than the 10-year average. Coho production is spread through the Mid-Columbia area, the Yakama River basin, the Umatilla River basin and the Clearwater River basin for coho that pass The Dalles Dam. Adult coho returning to the Bonneville pool normally are destined for the Little White Salmon and Klickitat rivers.

**Daily Average Flow and Spill (in kcfs) at Mid-Columbia Projects**

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
08/29/03	109.5	0.1	105.3	0.0	102.5	0.2	98.6	0.2	97.9	0.0	101.5	5.0	96.3	1.1
08/30/03	72.9	0.1	85.9	0.0	87.2	0.1	86.2	1.2	88.8	0.0	98.0	9.5	99.7	9.9
08/31/03	55.7	0.2	61.3	0.0	61.8	0.0	60.3	0.0	61.0	0.0	61.7	1.9	67.3	1.0
09/01/03	43.5	0.1	42.8	0.0	48.2	0.0	53.2	0.2	56.7	0.0	66.8	3.0	58.1	1.1
09/02/03	83.9	0.1	76.9	0.0	71.3	0.0	68.7	0.0	69.2	0.0	67.8	1.8	64.3	1.1
09/03/03	81.9	0.1	83.3	0.0	82.9	0.0	82.1	0.0	80.6	0.0	83.1	1.4	81.8	1.1
09/04/03	75.9	0.2	78.3	0.0	77.6	0.0	78.3	0.0	78.8	0.0	90.6	1.9	92.7	1.2
09/05/03	72.5	0.1	72.3	0.0	70.5	0.0	74.1	0.0	75.2	0.0	86.2	1.8	84.3	1.0
09/06/03	50.5	0.1	50.7	0.0	48.3	0.0	45.4	0.0	44.4	0.0	43.5	1.6	48.4	0.8
09/07/03	27.3	0.1	31.1	0.0	31.1	0.0	34.8	0.0	35.7	0.0	53.4	1.5	47.8	0.8
09/08/03	68.9	0.1	67.9	0.0	64.0	0.0	60.2	0.0	59.8	0.0	58.4	1.2	52.7	1.1
09/09/03	55.3	0.1	57.0	0.0	57.1	0.0	59.1	0.0	60.3	0.0	64.8	1.5	61.5	1.1
09/10/03	46.2	0.1	49.5	0.0	52.0	0.0	50.3	0.0	48.9	0.0	49.9	1.4	47.3	1.0
09/11/03	67.5	0.2	68.4	0.0	67.1	0.0	68.5	0.0	69.3	0.0	61.4	1.5	57.4	1.1

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

Date	Dworshak		Hells Brownlee Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
08/29/03	7.2	0.0	9.2	9.0	24.7	5.6	21.6	0.0	20.7	0.0	18.2	10.3
08/30/03	7.2	0.0	9.3	9.3	29.5	0.0	30.7	0.0	33.3	0.0	35.2	14.2
08/31/03	7.2	0.0	8.9	10.0	21.0	0.0	18.0	0.0	17.1	0.0	16.8	8.0
09/01/03	7.2	0.0	9.1	11.0	22.6	0.0	15.8	0.0	17.0	0.0	16.1	0.0
09/02/03	7.3	0.0	9.7	15.0	22.8	0.0	22.3	0.0	23.2	0.0	21.5	0.0
09/03/03	7.0	0.0	9.9	15.0	26.5	0.0	26.3	0.0	27.4	0.0	26.7	0.0
09/04/03	7.2	0.0	9.3	13.2	25.8	0.0	26.4	0.0	27.6	0.0	24.9	0.0
09/05/03	7.2	0.0	9.1	16.1	23.9	0.0	32.1	0.0	33.9	0.0	32.5	0.0
09/06/03	7.3	0.0	8.3	12.9	27.3	0.0	18.3	0.0	18.0	0.0	13.7	0.0
09/07/03	7.3	0.0	8.5	12.8	23.5	0.0	22.0	0.0	20.5	0.0	18.0	0.0
09/08/03	7.3	0.0	9.2	12.9	24.7	0.0	26.7	0.0	26.0	0.0	25.7	0.0
09/09/03	7.3	0.0	9.1	9.8	23.2	0.0	17.4	0.0	18.2	0.0	15.7	0.0
09/10/03	7.3	0.0	8.5	8.6	22.5	0.0	20.5	0.0	19.9	0.0	21.9	0.0
09/11/03	7.0	0.0	---	---	21.8	0.0	20.4	0.0	22.5	0.0	18.4	0.0

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

Date	McNary		John Day		The Dalles		Bonneville			
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
08/29/03	112.9	0.0	99.0	16.5	98.8	35.9	125.5	79.2	0.0	39.6
08/30/03	127.9	0.0	111.6	24.8	112.4	39.7	136.3	81.0	0.0	48.5
08/31/03	105.0	0.0	111.0	26.3	115.9	43.8	147.0	91.9	0.5	47.9
09/01/03	95.5	0.0	105.3	0.0	113.4	0.0	116.1	3.4	4.0	101.9
09/02/03	88.7	0.0	89.1	0.0	92.6	0.0	99.9	1.7	1.8	89.5
09/03/03	98.0	0.0	88.1	0.0	94.2	0.0	100.1	1.8	1.3	90.1
09/04/03	108.7	0.5	99.0	0.0	100.0	0.0	99.6	2.1	3.4	87.3
09/05/03	105.7	0.0	88.4	0.0	88.6	0.0	93.9	2.3	1.7	83.2
09/06/03	87.6	0.0	83.5	0.0	92.2	0.0	93.8	2.3	0.0	84.6
09/07/03	69.0	0.0	66.2	0.0	73.7	0.0	86.4	2.6	0.0	77.1
09/08/03	80.8	0.0	79.0	0.0	78.8	0.0	79.7	2.5	0.0	70.5
09/09/03	83.7	0.0	92.2	0.0	96.0	0.0	93.7	2.4	0.0	88.2
09/10/03	86.7	0.0	77.0	0.0	83.1	0.0	87.4	2.5	0.0	78.3
09/11/03	201.8	0.0	60.1	0.0	63.6	0.0	73.6	2.5	0.0	64.4

## Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

### Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	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	#					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
8/29	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
8/30	---	---	---	0	103	103	104	24	104	104	105	21	104	105	110	24	105	105	106	24
8/31	---	---	---	0	104	104	105	24	104	104	105	24	105	106	112	24	105	105	106	24
9/1	---	---	---	0	103	104	105	24	105	105	105	24	105	106	113	24	105	105	106	24
9/2	---	---	---	0	103	103	104	24	104	105	105	24	105	105	110	24	105	105	105	23
9/3	---	---	---	0	103	104	104	24	104	105	105	24	104	105	110	24	105	106	106	23
9/4	---	---	---	0	104	104	105	24	104	105	105	24	105	106	109	24	105	106	106	24
9/5	---	---	---	0	103	104	105	24	104	105	105	24	105	105	109	24	106	106	106	23
9/6	---	---	---	0	104	104	105	24	104	105	105	24	105	106	111	24	105	106	106	24
9/7	---	---	---	0	104	104	105	24	104	105	105	21	106	107	114	24	105	105	106	23
9/8	---	---	---	0	104	104	104	24	105	105	105	24	105	106	110	24	104	105	105	24
9/9	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/10	---	---	---	0	100	100	102	9	102	103	104	24	104	104	109	12	103	103	104	23
9/11	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0

### Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	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	#					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
8/29	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
8/30	105	106	108	24	104	105	106	24	105	105	106	24	105	105	105	24	110	110	110	24
8/31	105	106	108	24	105	106	107	24	104	105	106	24	105	106	107	24	110	110	110	24
9/1	105	106	107	24	105	106	107	24	104	105	106	24	105	106	107	24	110	110	110	24
9/2	105	105	106	23	105	106	107	24	105	106	106	24	105	105	105	24	110	110	110	24
9/3	105	105	106	23	105	106	107	24	105	106	106	24	105	105	105	24	110	110	110	24
9/4	106	106	107	24	105	106	106	24	105	105	106	24	105	105	105	24	110	110	110	24
9/5	106	106	107	23	104	105	106	24	104	105	106	24	---	---	---	0	110	110	110	24
9/6	106	107	109	24	105	106	108	24	105	106	107	24	105	105	105	24	110	110	110	24
9/7	105	106	107	23	104	104	105	24	105	106	106	24	105	105	105	24	110	110	110	24
9/8	104	105	106	24	104	104	105	23	105	107	112	23	105	105	105	24	110	110	110	24
9/9	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/10	103	104	106	23	101	102	102	24	101	102	102	24	105	105	105	24	110	110	110	24
9/11	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0

### Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	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	#					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
8/29	---	---	---	0	---	---	---	0	101	102	102	24	104	104	105	23	103	103	104	24
8/30	104	105	106	24	104	105	106	24	102	103	104	24	107	109	119	22	105	106	109	24
8/31	104	105	105	24	105	105	105	24	102	102	104	24	105	105	106	23	107	108	111	24
9/1	105	105	105	24	105	105	105	24	101	102	102	23	104	104	105	24	104	104	105	24
9/2	105	105	106	24	105	105	105	24	103	104	106	24	105	106	110	24	104	104	105	24
9/3	105	105	105	24	105	105	105	24	105	105	111	14	105	105	106	24	104	105	106	24
9/4	105	106	106	24	105	106	106	24	106	107	108	24	105	105	105	24	105	106	107	24
9/5	105	105	106	24	105	106	106	24	105	106	106	23	104	105	105	23	105	105	106	23
9/6	102	103	105	24	106	106	107	24	106	107	109	24	105	105	106	24	105	106	107	24
9/7	100	101	102	24	105	106	106	24	105	105	107	24	104	104	105	24	104	104	105	24
9/8	100	102	103	24	104	104	105	24	102	103	104	24	102	103	103	24	102	103	103	24
9/9	---	---	---	0	---	---	---	0	102	102	102	24	101	102	102	24	101	102	102	24
9/10	98	99	101	24	103	103	103	24	101	102	102	24	101	101	102	24	100	100	101	24
9/11	---	---	---	0	---	---	---	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 Lower Columbia and Snake River Sites

Date	<u>Priest R. Dnst</u>			#	<u>Pasco</u>			#	<u>Dworshak</u>			#	<u>Clrwtr-Peck</u>			#	<u>Anatone</u>			#			
	<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg	
8/29	104	105	106	24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0			
8/30	106	108	113	24	103	104	104	24	99	100	100	24	---	---	---	0	101	103	104	24			
8/31	107	108	110	24	105	106	107	24	100	100	101	24	---	---	---	0	101	102	104	24			
9/1	105	105	106	24	105	106	107	24	100	100	101	24	102	103	104	24	101	102	103	24			
9/2	105	105	106	24	104	105	105	21	99	100	101	24	102	103	104	24	101	102	103	21			
9/3	105	106	107	24	104	105	105	24	99	100	101	24	101	103	104	24	102	103	105	24			
9/4	106	106	107	24	104	105	105	24	99	100	100	24	102	103	104	24	102	103	104	24			
9/5	105	106	106	23	104	104	105	24	99	99	100	24	102	103	104	24	102	103	104	24			
9/6	105	106	107	24	104	105	105	24	99	100	100	24	---	---	---	0	102	104	105	24			
9/7	104	105	105	24	103	103	104	24	100	100	100	24	102	103	104	24	102	103	104	24			
9/8	103	104	104	24	101	101	102	24	99	99	100	24	101	101	101	24	100	101	101	24			
9/9	103	103	104	24	100	101	101	24	---	---	---	0	---	---	---	0	---	---	---	0			
9/10	102	102	102	24	100	101	101	24	99	99	99	24	101	102	103	24	101	102	103	24			
9/11	---	---	---	0	101	102	102	24	99	99	100	24	101	102	103	24	101	102	103	24			

### Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwtr-Lewiston</u>			#	<u>Lower Granite</u>			#	<u>L. Granite Tlwr</u>			#	<u>Little Goose</u>			#	<u>L. Goose Tlwr</u>			#			
	<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg	
8/29	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0			
8/30	102	104	106	24	105	107	108	24	101	101	101	24	103	104	105	24	100	101	101	24			
8/31	102	104	106	24	107	108	108	24	100	101	102	24	105	106	109	24	100	100	101	24			
9/1	102	104	105	24	108	109	110	24	99	100	101	24	102	103	104	24	99	99	100	24			
9/2	102	104	105	24	107	109	111	24	98	99	99	24	106	109	110	24	99	99	100	24			
9/3	102	104	106	23	109	110	112	24	100	101	101	24	107	110	112	24	100	101	101	24			
9/4	102	103	105	24	107	108	109	24	101	101	103	24	109	111	114	24	101	102	102	24			
9/5	102	103	105	24	106	107	109	24	101	101	104	24	111	114	116	24	101	102	103	24			
9/6	103	104	106	24	107	109	111	24	101	102	102	24	110	112	114	19	100	100	101	19			
9/7	102	103	105	24	104	107	109	24	100	100	101	24	98	99	100	24	98	99	100	24			
9/8	100	101	101	24	101	101	101	24	99	100	101	24	98	98	98	24	97	97	98	24			
9/9	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0			
9/10	101	102	104	24	100	100	100	24	99	99	100	24	96	96	97	24	96	96	97	24			
9/11	---	---	---	0	99	99	99	24	98	98	100	24	96	96	96	19	96	97	98	24			

### Total Dissolved Gas Saturation Data at Snake and Lower Columbia River Sites

Date	<u>Lower Mon.</u>			#	<u>L. Mon. Tlwr</u>			#	<u>Ice Harbor</u>			#	<u>Ice Harbor Tlwr</u>			#	<u>McNary-Oregon</u>			#			
	<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High		<u>24 h</u>	<u>12 h</u>	High
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg	
8/29	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0			
8/30	105	106	106	24	102	103	103	24	102	104	108	24	107	113	116	24	103	106	108	24			
8/31	105	106	107	24	101	101	102	24	102	103	104	24	108	112	114	24	106	108	109	24			
9/1	104	105	105	24	100	101	101	24	104	105	106	24	104	106	114	24	105	106	109	24			
9/2	106	108	111	24	101	102	102	24	102	104	107	24	102	102	103	24	107	108	109	24			
9/3	108	109	112	24	102	103	104	24	104	106	110	24	102	103	104	24	106	109	112	24			
9/4	105	106	107	24	101	102	102	24	107	109	112	24	103	104	105	24	108	110	113	24			
9/5	103	104	106	24	100	101	102	22	108	112	115	24	103	103	104	24	107	110	113	24			
9/6	108	110	113	24	101	102	103	23	105	106	106	24	103	104	105	24	108	110	111	24			
9/7	100	101	105	24	99	99	100	24	100	101	105	24	102	103	106	24	105	106	109	24			
9/8	100	100	101	24	99	99	99	24	101	101	102	23	101	101	102	24	103	103	104	23			
9/9	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	101	102	102	24			
9/10	98	99	100	24	99	99	99	23	99	99	101	24	100	101	101	24	100	100	101	24			
9/11	97	98	98	24	98	99	101	24	98	98	99	24	100	100	101	24	99	99	99	24			

## Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

### Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>McNary-Wash</u>			<u>McNary Tlwr</u>			<u>John Day</u>			<u>John Day Tlwr</u>			<u>The Dalles</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
8/29	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
8/30	105	106	109	24	102	103	103	24	103	105	109	24	107	113	118	24	104	106	107	24
8/31	104	105	106	24	103	103	104	24	103	105	107	24	109	115	118	24	104	105	106	24
9/1	106	107	109	24	103	104	104	24	102	103	105	24	102	103	105	24	106	108	109	24
9/2	106	107	111	24	103	103	104	24	102	102	106	23	102	102	104	24	103	104	106	22
9/3	107	108	110	24	104	104	105	24	103	105	107	23	102	102	102	24	101	101	102	23
9/4	106	108	110	24	104	105	105	24	102	103	104	24	102	102	102	24	101	101	102	24
9/5	107	108	109	24	104	105	105	24	103	104	105	23	103	103	104	24	101	101	101	23
9/6	107	109	112	24	104	105	105	24	104	104	105	24	103	103	103	24	101	101	102	24
9/7	104	105	106	24	102	103	103	24	102	102	102	23	102	103	103	24	100	101	101	23
9/8	102	103	103	24	102	102	102	23	101	102	102	23	101	102	102	24	100	100	100	23
9/9	102	102	102	24	101	101	101	24	101	102	102	24	101	102	103	24	100	100	100	24
9/10	100	100	101	24	100	100	100	24	100	100	100	23	100	101	101	24	99	99	99	23
9/11	99	99	99	24	99	99	100	24	99	99	100	23	101	101	101	24	99	99	99	23

### Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>Camas\Washugal</u>						
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>				
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
8/29	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
8/30	113	114	115	24	108	108	109	24	111	111	112	23	109	110	110	24
8/31	113	114	115	24	108	109	109	24	111	112	113	24	108	109	110	24
9/1	107	109	112	24	106	106	106	24	107	109	115	24	108	110	111	24
9/2	103	104	105	24	105	105	105	23	105	105	106	23	110	116	129	24
9/3	101	101	102	24	104	104	105	23	104	104	105	14	116	129	129	24
9/4	101	101	102	24	105	105	105	24	105	105	106	24	104	105	106	24
9/5	101	101	101	24	103	104	105	23	104	104	105	23	105	105	106	24
9/6	101	102	102	24	102	103	103	24	103	103	104	24	103	104	105	24
9/7	101	101	101	24	100	101	101	23	101	102	103	23	101	102	102	24
9/8	100	100	101	24	99	99	100	23	101	101	102	23	100	100	100	24
9/9	99	100	100	24	99	100	100	24	100	101	101	24	100	100	100	24
9/10	99	99	100	24	98	98	99	23	99	99	100	23	99	99	99	24
9/11	99	100	100	24	98	98	99	23	99	99	100	23	99	99	99	24

## Two-Week Summary of Passage Indices

	<b>COMBINED YEARLING CHINOOK</b>											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
08/29/2003	*	---	---	---	---	11	0	4	0	0	0	0
08/30/2003	*	---	---	---	---	0	0	1	0	0	6	0
08/31/2003	*	---	---	---	---	0	0	4	0	0	0	0
09/01/2003	*	---	---	---	---	0	0	1	---	0	0	0
09/02/2003	*	---	---	---	---	0	0	0	---	0	0	0
09/03/2003	*	---	---	---	---	1	0	0	---	0	0	0
09/04/2003	*	---	---	---	---	0	0	0	---	0	0	0
09/05/2003	*	---	---	---	---	0	0	0	---	0	0	0
09/06/2003	*	---	---	---	---	0	0	3	---	5	0	0
09/07/2003	*	---	---	---	---	0	0	1	---	0	0	5
09/08/2003		---	---	---	---	0	0	0	---	0	0	0
09/09/2003	*	---	---	---	---	0	0	1	---	0	0	0
09/10/2003	*	---	---	---	---	0	0	0	---	0	0	0
09/11/2003		---	---	---	---	0	0	0	---	0	0	0
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>5</b>	<b>6</b>	<b>5</b>
<b># Days:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>3</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Average:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>YTD</b>		<b>32,064</b>	<b>34,028</b>	<b>11,123</b>	<b>2,417</b>	<b>3,599,202</b>	<b>2,483,142</b>	<b>785,284</b>	<b>15,355</b>	<b>1,624,087</b>	<b>2,074,671</b>	<b>4,043,763</b>

	<b>COMBINED SUBYEARLING CHINOOK</b>											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
08/29/2003	*	---	---	---	---	598	291	270	30	2,281	961	810
08/30/2003	*	---	---	---	---	83	240	190	17	940	604	1,252
08/31/2003	*	---	---	---	---	44	129	306	11	587	588	775
09/01/2003	*	---	---	---	---	88	279	269	---	780	274	644
09/02/2003	*	---	---	---	---	97	338	151	---	395	290	447
09/03/2003	*	---	---	---	---	79	534	180	---	205	195	281
09/04/2003	*	---	---	---	---	190	1,143	131	---	165	160	274
09/05/2003	*	---	---	---	---	299	1,783	134	---	100	125	232
09/06/2003	*	---	---	---	---	261	1,742	199	---	170	90	195
09/07/2003	*	---	---	---	---	202	1,812	91	---	175	55	407
09/08/2003		---	---	---	---	421	900	137	---	115	70	367
09/09/2003	*	---	---	---	---	290	753	164	---	170	80	347
09/10/2003	*	---	---	---	---	317	120	125	---	340	100	180
09/11/2003		---	---	---	---	204	212	124	---	40	35	72
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,173</b>	<b>10,276</b>	<b>2,471</b>	<b>58</b>	<b>6,463</b>	<b>3,627</b>	<b>6,283</b>
<b># Days:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>3</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Average:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>227</b>	<b>734</b>	<b>177</b>	<b>19</b>	<b>462</b>	<b>259</b>	<b>449</b>
<b>YTD</b>		<b>1</b>	<b>118</b>	<b>74</b>	<b>355</b>	<b>1,398,088</b>	<b>681,976</b>	<b>340,138</b>	<b>28,113</b>	<b>7,681,606</b>	<b>2,713,773</b>	<b>7,897,935</b>

\* 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.



## Two-Week Summary of Passage Indices

COMBINED COHO												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/29/2003	*	---	---	---	---	21	3	0	2	0	0	0
08/30/2003	*	---	---	---	---	0	3	0	0	0	0	15
08/31/2003	*	---	---	---	---	0	7	1	0	0	0	0
09/01/2003	*	---	---	---	---	0	4	0	---	0	0	0
09/02/2003	*	---	---	---	---	2	7	0	---	0	0	0
09/03/2003	*	---	---	---	---	0	9	1	---	0	0	0
09/04/2003	*	---	---	---	---	2	7	0	---	0	0	0
09/05/2003	*	---	---	---	---	3	10	1	---	0	0	0
09/06/2003	*	---	---	---	---	5	0	0	---	0	0	0
09/07/2003	*	---	---	---	---	3	20	1	---	0	0	0
09/08/2003		---	---	---	---	3	0	1	---	0	0	0
09/09/2003	*	---	---	---	---	2	0	0	---	5	0	0
09/10/2003	*	---	---	---	---	3	0	0	---	0	0	0
09/11/2003		---	---	---	---	3	0	0	---	0	0	0
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47</b>	<b>70</b>	<b>5</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>15</b>
<b># Days:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>3</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Average:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>YTD</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>132,896</b>	<b>116,658</b>	<b>37,602</b>	<b>41,690</b>	<b>113,584</b>	<b>258,277</b>	<b>2,116,459</b>

COMBINED STEELHEAD												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/29/2003	*	---	---	---	---	11	1	0	2	0	0	0
08/30/2003	*	---	---	---	---	4	2	0	0	0	0	0
08/31/2003	*	---	---	---	---	12	2	0	0	0	0	14
09/01/2003	*	---	---	---	---	12	2	2	---	0	6	0
09/02/2003	*	---	---	---	---	10	4	0	---	0	0	0
09/03/2003	*	---	---	---	---	16	5	2	---	0	0	0
09/04/2003	*	---	---	---	---	18	14	2	---	0	5	0
09/05/2003	*	---	---	---	---	37	31	1	---	0	0	0
09/06/2003	*	---	---	---	---	27	80	2	---	0	0	0
09/07/2003	*	---	---	---	---	34	20	2	---	0	0	0
09/08/2003		---	---	---	---	33	30	2	---	0	0	0
09/09/2003	*	---	---	---	---	24	0	4	---	0	0	0
09/10/2003	*	---	---	---	---	25	4	2	---	0	0	0
09/11/2003		---	---	---	---	18	0	1	---	0	0	0
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>281</b>	<b>195</b>	<b>20</b>	<b>2</b>	<b>0</b>	<b>11</b>	<b>14</b>
<b># Days:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>3</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Average:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>14</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b>YTD</b>		<b>2,347</b>	<b>48,404</b>	<b>2,521</b>	<b>5,601</b>	<b>3,355,638</b>	<b>2,583,354</b>	<b>1,865,469</b>	<b>15,507</b>	<b>245,583</b>	<b>553,522</b>	<b>1,635,163</b>

\* See sampling comments

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

## Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
08/29/2003 *	---	---	---	---	0	0	0	0	0	0	0
08/30/2003 *	---	---	---	---	0	0	0	1	7	0	0
08/31/2003 *	---	---	---	---	0	0	0	0	0	0	0
09/01/2003 *	---	---	---	---	0	1	0	---	0	0	0
09/02/2003 *	---	---	---	---	0	0	0	---	0	0	0
09/03/2003 *	---	---	---	---	0	2	0	---	5	0	0
09/04/2003 *	---	---	---	---	0	0	0	---	0	0	0
09/05/2003 *	---	---	---	---	0	0	0	---	0	0	0
09/06/2003 *	---	---	---	---	0	0	0	---	0	0	0
09/07/2003 *	---	---	---	---	0	0	0	---	0	0	0
09/08/2003	---	---	---	---	0	0	0	---	0	0	0
09/09/2003 *	---	---	---	---	0	0	0	---	0	0	0
09/10/2003 *	---	---	---	---	0	0	0	---	0	0	0
09/11/2003	---	---	---	---	0	0	0	---	0	0	0
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>12</b>	<b>0</b>	<b>0</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>3</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>YTD</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>16,388</b>	<b>8,128</b>	<b>4,545</b>	<b>10,312</b>	<b>841,718</b>	<b>726,163</b>	<b>1,261,373</b>

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

### 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

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.

**Cumulative Adult Passage at Mainstem Dams Through: 09/11**

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2003		2002		10-Yr Avg.		2003		2002		10-Yr Avg.		2003		2002		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	192,010	14,258	268,813	6,477	122,177	6,086	114,808	13,358	127,436	7,952	38,022	5,207	311,263	17,290	344,731	17,957	168,691	15,344
TDA	131,207	11,522	181,176	3,870	80,975	4,136	101,490	10,441	113,069	5,743	32,585	3,775	129,590	9,976	148,609	10,942	76,387	8,036
JDA	101,436	10,206	139,887	2,403	67,822	3,122	95,542	10,132	105,354	5,615	30,300	3,298	71,455	7,712	84,286	8,037	48,944	5,142
MCN	95,550	11,123	129,357	3,872	62,536	3,162	93,844	11,116	109,937	6,810	31,244	3,358	54,546	6,563	60,855	6,292	33,022	3,598
IHR	78,170	8,020	85,207	1,826	38,964	1,925	20,742	4,602	26,607	2,437	7,616	1,067	6,047	1,139	7,007	1,103	2,190	402
LMN	70,603	7,344	76,304	1,537	38,073	1,899	18,718	3,589	23,744	1,710	7,642	945	2,885	666	5,654	941	1,656	354
LGS	69,017	7,079	77,232	1,815	37,097	2,034	14,299	3,537	20,854	2,254	6,945	1,196	2,315	291	4,495	463	1,112	184
LWG	70,609	8,295	75,025	2,089	35,689	2,016	16,423	4,137	22,159	1,953	6,987	1,260	1,748	413	3,985	432	899	178
PRD	18,136	656	34,083	196	15,528	317	83,004	3,933	96,326	1,455	27,332	1,075	14,913	1,815	14,438	893	10,447	745
RIS	16,881	753	24,017	827	11,565	538	81,543	6,858	86,825	3,216	24,224	3,420	6,155	1,556	6,775	518	3,225	652
RRH	4,216	450	9,999	161	4,017	126	63,167	6,195	73,104	2,807	16,932	1,550	4,042	1,162	5,079	523	2,304	616
WEL	4,313	172	7,585	41	2,377	152	44,039	1,869	62,595	412	12,816	1,120	1,667	284	2,109	91	896	200

DAM	Coho						Sockeye			Steelhead			
	2003		2002		10-Yr Avg.		2003	2002	10-Yr Avg.	10-Yr			Wild 2003
	Adult	Jack	Adult	Jack	Adult	Jack				2003	2002	Avg.	
BON	35,769	1,714	17,300	1,635	24,123	1,388	39,291	49,608	46,748	290,076	372,758	228,704	97,642
TDA	5,493	709	1,796	786	2,918	342	34,181	40,554	37,479	123,961	218,984	120,266	45,293
JDA	3,934	529	597	117	1,312	177	35,410	41,914	40,486	108,850	156,482	83,578	35,650
MCN	1,280	273	117	49	312	51	32,035	39,173	36,935	72,257	111,553	59,382	24,923
IHR	0	0	1	0	6	0	37	61	17	42,075	68,439	34,751	10,927
LMN	2	0	2	0	1	2	14	46	24	30,253	63,495	30,550	8,768
LGS	0	0	1	0	0	0	22	38	26	22,103	54,564	21,378	7,473
LWG	0	0	0	0	0	0	12	55	24	28,979	50,004	20,906	7,880
PRD	18	7	108	61	11	3	36,543	47,882	45,469	10,891	12,608	6,571	n/c
RIS	15	0	34	0	6	0	34,772	44,317	40,970	8,153	10,874	5,323	5,047
RRH	2	0	30	0	1	0	30,344	12,367	24,252	6,060	7,666	3,652	3,597
WEL	0	0	5	0	0	0	28,973	10,573	23,906	3,356	5,939	2,502	1,892

PRD, RIS, RRH and WEL are through 09/10.

LGR is missing data for 3/6.

\*\*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: 9/12/03

BON counts from January 1, 2003 to March 14, 2003 (our counts begin March 15)

Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
3,758	0	3,443	408

## Two Week Transportation Summary

Source: Fish Passage Center

Updated:

9/12/03 8:51 AM

		08/30/03	TO	09/12/03				
		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
<b>LGR</b>	Sum of NumberCollected	2,796		5	34		274	3,109
	Sum of NumberBarged	0		0	0		0	0
	Sum of NumberBypassed	0		0	0		224	224
	Sum of Numbertrucked	2,722		5	31		49	2,807
	Sum of TotalProjectMortalities	74		0	3		1	78
<b>LGS</b>	Sum of NumberCollected	10,276			70	3	195	10,544
	Sum of NumberBarged	0			0	0	0	0
	Sum of NumberBypassed	0			0	0	0	0
	Sum of Numbertrucked	9,990			66	2	189	10,247
	Sum of TotalProjectMortalities	286			4	1	6	297
<b>LMN</b>	Sum of NumberCollected	2,471		15	5		20	2,511
	Sum of NumberBarged	0		0	0		0	0
	Sum of NumberBypassed	0		0	0		15	15
	Sum of Numbertrucked	2,346		15	5		5	2,371
	Sum of TotalProjectMortalities	125		0	0		0	125
<b>MCN</b>	Sum of NumberCollected	6,463				12		6,475
	Sum of NumberBarged	0				0		0
	Sum of NumberBypassed	589				5		594
	Sum of Numbertrucked	5,748				7		5,755
	Sum of TotalProjectMortalities	126				0		126
Total Sum of NumberCollected		22,006		20	109	15	489	22,639
Total Sum of NumberBarged		0		0	0	0	0	0
Total Sum of NumberBypassed		589		0	0	5	239	833
Total Sum of Numbertrucked		20,806		20	102	9	243	21,180
Total Sum of TotalProjectMortalities		611		0	7	1	7	626

### YTD Transportation Summary

Source: Fish Passage Center

Updated:

9/12/03 8:51 AM

TO: 09/12/03

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	1,154,914	2,576,980	90,040	9,752	2,336,959	6,168,645
	Sum of NumberBarged	1,122,378	2,470,893	89,264	9,549	2,265,797	5,957,881
	Sum of NumberBypassed	2,894	45,590	7	0	53,366	101,857
	Sum of NumberTrucked	11,307	54,217	159	81	15,727	81,491
	Sum of TotalProjectMortalities	18,331	5,981	610	122	2,070	27,114
<b>LGS</b>	Sum of NumberCollected	599,611	1,832,619	86,747	5,440	1,938,407	4,462,824
	Sum of NumberBarged	574,927	1,778,558	86,171	5,399	1,934,367	4,379,422
	Sum of NumberBypassed	0	22	0	0	3	25
	Sum of NumberTrucked	17,273	52,602	131	3	1,104	71,113
	Sum of TotalProjectMortalities	7,410	3,398	445	38	2,933	14,224
<b>LMN</b>	Sum of NumberCollected	289,209	463,339	26,552	3,307	1,229,833	2,012,240
	Sum of NumberBarged	246,893	440,282	25,842	3,262	1,150,928	1,867,207
	Sum of NumberBypassed	34,112	6,866	681	0	75,960	117,619
	Sum of NumberTrucked	6,511	15,188	11	40	1,656	23,406
	Sum of TotalProjectMortalities	1,693	1,003	18	5	1,289	4,008
<b>MCN</b>	Sum of NumberCollected	7,028,103	1,041,821	71,927	546,115	155,070	8,843,036
	Sum of NumberBarged	4,606,418	5,470	8,989	10,989	701	4,632,567
	Sum of NumberBypassed	2,284,542	1,035,087	62,604	534,287	154,084	4,070,604
	Sum of NumberTrucked	64,993	31	0	106	0	65,130
	Sum of TotalProjectMortalities	72,152	1,140	334	438	242	74,306
Total Sum of NumberCollected		9,071,837	5,914,759	275,266	564,614	5,660,269	21,486,745
Total Sum of NumberBarged		6,550,616	4,695,203	210,266	29,199	5,351,793	16,837,077
Total Sum of NumberBypassed		2,321,548	1,087,565	63,292	534,287	283,413	4,290,105
Total Sum of NumberTrucked		100,084	122,038	301	230	18,487	241,140
Total Sum of TotalProjectMortalities		99,586	11,522	1,407	603	6,534	119,652

