



Fish Passage Center

Weekly Report #03 - 24

Sept. 05, 2003

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has been variable over the first three-quarters of August. Of the sites in Table 1, recorded precipitation has ranged between 10% and 165% of average in August. Over the entire water year, precipitation has ranged between 72% and 98% of average at the listed sites.

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.

Location	August 1-25, 2003		Cumulative October, 1 2002 to August 25, 2003	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.49	36	18.99	80
Snake River Above Ice Harbor	0.77	112	15.24	91
Columbia Above The Dalles	0.58	61	18.81	86
Kootenai	0.41	30	17.89	74
Clark Fork	0.68	65	14.06	85
Flathead	0.31	24	15.91	73
Pend Oreille/Spokane	0.61	60	26.58	90
Central Washington	0.21	68	8.51	98
Snake River Plain	0.77	165	7.71	72
Salmon/Boise/Payette	0.66	116	18.4	97
Clearwater	0.78	81	28.73	98
SW Washington Cascades/Cowlitz	0.12	10	57.2	84
Willamette Valley	0.42	48	51.49	89

The summer Biological Opinion Flow objectives were 50.7 Kcfs at Lower Granite (June 21st-August 31st) and 200 Kcfs at McNary (July 1st-August 31st). Over the Biological Opinion period, flows averaged 32.3 Kcfs at Lower Granite (18.4 Kcfs below the flow objective) and 135.5 Kcfs at McNary (64.5 Kcfs below the flow objective).

Libby Reservoir is currently at an elevation of 2437.4 feet, and has drafted 2.3 feet in the last week. The August 31st draft limit at Libby was 2439 feet; the actual elevation on this date was 2438.8 feet. Outflows have decreased to approximately 11 Kcfs.

Hungry Horse Reservoir is at an elevation of 3539.2 feet and has been drafted approximately 0.9 feet over the last week. The August 31st draft limit was 3540 feet; the actual elevation on this date was 3539.8 feet. Outflows are approximately 2.1 Kcfs.

Dworshak Reservoir is currently at an elevation of 1528.6 feet, and has drafted 5.9 feet in the last week. Supplemental outflows from Dworshak to moderate temperatures in the Lower Snake River have been reduced to a daily average of 7.1-7.3 Kcfs and are projected to remain at a similar level through mid-September. Daily load-following flow fluctuations continue at Dworshak, fluctuating between 5.8 and 8.1 Kcfs.

Grand Coulee Reservoir ended September 4th at an elevation of 1278.2 feet. The end of August draft limit was 1278 feet; the actual elevation on that date was 1278.3 feet. Outflows over the last week have ranged between 109.5 and 43.5 Kcfs.

Brownlee Reservoir was at an elevation of 2053.5 feet on September 4th, drafting 2.9 feet in the last week. Outflows at Brownlee have been fluctuating between 8.5 and 15.2 Kcfs over the week.

Spill: Spill ended at all projects on August 31st. The planning date in the Biological Opinion to end spill is August 31st.

Smolt Monitoring: At Lower Granite Dam the average daily index for subyearling chinook decreased from 500 last week to 170 per day this week. Little Goose Dam saw a slight decrease in the index to 420 this week compared to 470 last week. At Lower Monumental there was a decrease, as subyearling indices averaged 240 this week compared to 350 last week.

Sampling at Rock Island Dam, in the mid-Columbia, ended on August 31. The subyearling chinook indices decreased last week with the daily average at 19 compared to 34 per day the previous week.

In the Lower Columbia, at McNary, the daily average index for subyearling chinook was down to 770 per day this week compared to 5,100 last week. At John Day Dam the average daily index for subyearling chinook decreased to 400 this week compared to 1,300 last week. At Bonneville Dam, the average daily index for subyearling chinook was at 600 this week compared to 1,500 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.

On August 25, about 104,000 brood year 2002 juvenile sockeye were released from net pens into Lake Wenatchee. The majority of these fish will reside in the lake and migrate to the ocean in spring 2004.

Hatchery Zone Release Report	Friday 5-September-2003			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	4,091,433	12,255,089	25,446,818	41,793,340
Spring Chinook	10,473,976	3,474,730	5,441,505	19,390,211
Summer Chinook	2,332,578	3,001,618		5,334,196
Coho	1,248,216	1,876,158	5,732,260	8,856,634
Sockeye	140,410	208,986		349,396
Summer Steelhead	9,687,941	1,344,613	490,667	11,523,221
Winter Steelhead			94,900	94,900
Total	27,974,554	22,161,194	37,206,150	87,341,898

Adult Fish Passage - At Bonneville Dam, numbers of adult fall chinook were at high levels throughout the week with counts ranging from 10,000 to 22,000 per day for the week ending September 4. The cumulative count through September 4 was 160,019, approximately 80.2% and 158% of the respective 2002 and 10-year average. Numbers of "Tule" stock fall chinook began increasing throughout the past week with about 6,000 of the 22,000 fall chinook passing the project on 9/3 being Tule stock fall chinook. Since August 15 about 25,000 Tule fall chinook have been tallied with the remainder of the chinook comprised of upriver bright chinook. The Tule fall chinook mainly migrates and spawns in rivers located below The Dalles Dam; Spring Creek NFH is the primary site that these fish return in the Bonneville Pool. The upriver bright fall chinook counted past McNary Dam rose to about 4,000 per day by the end of this week. At McNary, 23,155 were counted through September 4 with 6,620 counted above Priest Rapids Dam and 2,298 above Ice Harbor Dam. This week and next week should encompass the peak passage for fall chinook, early coho and steelhead at the Bonneville project.

Numbers of steelhead at Bonneville Dam increased this week to reach a high daily count of

near 7,600 on September 1 and 2. The cumulative count through September 4 was 275,474 and compares to 331,672 in 2002 and 206,456 for the 10-year average. The steelhead count differential between Bonneville Dam and The Dalles Dam increased to 183,000 during this week. Water temperatures remain warm in the mainstem Columbia River and a large percentage of the fish have not moved out of the cooler tributaries located in the Bonneville pool and initiated their upstream migration past The Dalles and other mainstem dams. At McNary Dam, daily counts of adult steelhead ranged from 700 to 1,500, while counts of steelhead averaged about 180 per day at Priest Rapids Dam. At Ice Harbor Dam, steelhead counts ranged from 400 to 700 per day, similar to the previous week. The cumulative count for Priest Rapids Dam was 8,841 through September 3 with Ice Harbor at 28,887 through September 4.

At Bonneville Dam, adult coho counts ranged from a low of 1,400 to a high of 4,600 for the week with the cumulative count through September 4 at 26,303. This total was 5.5-times greater than the 2002 count and 3.1 time 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
08/22/03	103.3	0.1	116.4	0.0	122.5	9.1	125.9	1.6	127.7	0.0	143.8	14.8	141.2	11.0
08/23/03	97.9	0.1	95.6	0.0	94.5	7.3	91.8	0.0	93.6	0.0	96.5	1.6	97.4	1.2
08/24/03	85.9	0.1	82.2	0.0	83.5	6.7	81.2	0.0	82.1	0.0	84.5	1.9	83.1	1.1
08/25/03	132.6	0.1	133.4	0.0	134.4	8.6	129.0	0.0	128.4	0.0	127.9	2.0	121.8	1.4
08/26/03	106.5	0.1	109.8	0.0	112.4	8.0	112.7	0.0	114.3	0.0	127.2	2.1	127.2	1.2
08/27/03	75.5	0.1	77.6	0.0	78.3	0.0	79.1	0.0	80.7	0.0	91.0	1.9	91.1	1.0
08/28/03	108.1	0.1	106.8	0.0	105.8	0.0	102.1	0.0	97.5	0.0	91.7	2.0	85.9	1.1
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

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
08/22/03	7.1	0.0	8.3	8.4	19.7	0.0	21.1	0.0	22.4	0.0	21.4	11.5
08/23/03	7.1	0.0	8.2	8.5	21.4	0.0	19.7	0.0	19.8	0.0	20.5	11.2
08/24/03	7.1	0.0	9.5	8.5	20.2	0.0	20.2	0.0	20.7	0.0	20.5	6.0
08/25/03	7.1	0.0	11.3	16.6	23.2	0.0	22.8	0.0	23.7	0.0	22.2	8.7
08/26/03	7.1	0.0	10.9	17.8	29.8	0.0	29.4	0.0	31.4	0.0	32.8	10.7
08/27/03	7.2	0.0	10.4	14.1	28.9	0.0	30.1	0.0	32.4	0.0	30.2	11.3
08/28/03	7.1	0.0	9.2	14.1	16.3	5.2	17.2	0.0	18.1	0.0	17.3	6.8
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	9.5	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	9.4	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	---	---	25.8	0.0	26.4	0.0	27.6	0.0	24.9	0.0

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

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
08/22/03	138.9	0.1	140.0	30.4	140.7	54.0	152.4	93.8	0.0	51.8
08/23/03	128.2	0.0	117.8	27.5	118.4	44.9	151.3	91.2	0.0	53.4
08/24/03	111.1	0.0	116.7	26.3	116.3	43.5	141.4	86.1	0.0	48.6
08/25/03	140.5	0.0	131.9	29.0	137.6	51.7	159.4	94.8	0.0	57.9
08/26/03	160.2	0.0	141.9	26.1	139.1	51.9	158.1	90.8	1.2	59.0
08/27/03	142.1	0.0	159.9	43.2	165.3	64.7	192.7	104.7	2.7	78.6
08/28/03	110.3	0.0	113.0	22.6	117.1	43.1	149.9	91.2	0.0	52.1
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	201.8	0.5	99.0	0.0	100.0	0.0	99.6	2.1	3.4	87.3

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											
	08/21/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/25/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/28/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	08/21/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	08/25/03	Chinook + Steelhead	58	0	0	0.00%	0.00%	0	0	0	0
	08/28/03	Chinook + Steelhead	50	0	0	0.00%	0.00%	0	0	0	0

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary
From: 8/22/03 to 9/4/03

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	SO	UN	2004	104,000	08-25-03	08-25-03	Lake Wenatchee	Wenatchee River
Grand Total					561,000				

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	<u>Hungry H. Dnst</u>			<u>Boundary</u>			<u>Grand Coulee</u>			<u>Grand C. Tlwr</u>			<u>Chief Joseph</u>							
	<u>24 h</u>	<u>12 h</u>	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						
8/22	---	---	---	0	105	108	109	24	105	105	106	21	106	106	109	24	106	106	106	19
8/23	---	---	---	0	105	106	107	24	103	104	104	24	105	106	110	24	104	105	105	24
8/24	---	---	---	0	104	105	107	24	104	104	105	24	105	106	109	23	104	104	105	24
8/25	---	---	---	0	105	106	107	24	105	105	106	22	105	105	109	24	105	105	106	24
8/26	---	---	---	0	105	106	107	24	105	105	106	24	105	106	108	24	105	106	106	23
8/27	---	---	---	0	103	104	105	24	105	106	106	24	105	106	109	24	105	105	106	23
8/28	---	---	---	0	102	103	104	24	105	105	105	24	104	105	108	24	104	104	105	23
8/29	---	---	---	0	---	---	---	NA	---	---	---	NA	---	---	---	NA	---	---	---	NA
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	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>							
	<u>24 h</u>	<u>12 h</u>	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						
8/22	106	107	108	19	106	106	106	24	108	109	112	24	108	108	108	24	110	110	110	24
8/23	104	105	106	24	104	105	105	24	106	106	107	24	107	107	108	24	110	110	110	24
8/24	104	105	106	24	104	104	105	20	106	107	107	20	106	106	107	24	110	110	110	24
8/25	105	105	106	24	104	104	105	13	106	106	107	13	106	106	107	24	110	110	110	24
8/26	106	106	108	23	105	106	106	24	107	108	108	24	107	107	107	24	110	110	110	24
8/27	105	106	108	23	104	104	105	24	104	105	107	24	106	107	107	24	110	110	110	24
8/28	104	104	105	23	104	105	105	24	104	104	105	24	106	106	106	23	110	110	110	23
8/29	---	---	---	NA	---	---	---	NA	---	---	---	NA	---	---	---	NA	---	---	---	NA
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	23	105	106	106	24	105	105	106	24	105	105	105	24	110	110	110	24

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>			<u>Rock I. Tlwr</u>			<u>Wanapum</u>			<u>Wanapum Tlwr</u>			<u>Priest Rapids</u>							
	<u>24 h</u>	<u>12 h</u>	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						
8/22	107	107	108	24	107	107	108	22	105	106	107	24	110	113	127	24	110	111	115	24
8/23	106	106	107	24	106	106	106	24	103	104	105	24	105	106	107	24	107	108	110	24
8/24	106	106	107	24	106	106	107	24	103	103	104	24	105	105	105	24	105	105	106	24
8/25	105	106	106	24	105	106	106	24	104	105	106	24	105	106	106	24	105	105	106	24
8/26	106	106	107	24	106	106	107	24	103	104	105	24	105	105	106	24	105	106	107	24
8/27	106	106	107	24	106	106	106	24	102	102	102	24	104	104	105	24	104	104	105	24
8/28	105	106	106	23	105	106	106	23	101	102	104	24	104	104	104	24	103	103	105	24
8/29	---	---	---	NA	---	---	---	NA	---	---	---	NA	---	---	---	NA	---	---	---	NA
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

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

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

Date	Priest R. Dnst			Pasco			Dworshak			Clrwrtr-Peck			Anatone			#				
	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
8/22	111	113	116	24	104	104	105	17	100	100	100	21	102	102	104	21	101	102	103	21
8/23	107	108	110	24	105	107	108	24	99	100	100	24	---	---	---	0	101	103	104	24
8/24	105	106	106	24	106	106	107	24	99	100	100	24	---	---	---	0	102	103	104	24
8/25	105	106	106	24	105	105	106	21	99	100	101	24	102	104	105	24	102	103	105	24
8/26	106	106	107	24	104	105	105	24	100	100	101	24	102	104	105	24	102	103	103	24
8/27	104	105	105	24	103	104	104	24	100	100	101	23	102	104	105	23	102	103	104	24
8/28	104	104	105	24	103	103	104	24	99	100	100	24	102	103	105	24	101	103	104	24
8/29	104	105	106	24	---	---	---	NA	---	---	---	NA	---	---	---	NA	---	---	---	NA
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

Total Dissolved Gas Saturation Data at Snake River Sites

Date	Clrwrtr-Lewiston			Lower Granite			L. Granite Tlwr			Little Goose			L. Goose Tlwr			#				
	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
8/22	101	102	103	21	106	106	107	21	101	101	101	21	105	105	106	21	105	105	106	21
8/23	102	104	105	24	102	103	103	24	101	101	108	24	106	108	109	24	107	108	110	24
8/24	102	104	106	24	103	103	104	22	100	100	100	22	104	105	105	24	105	106	106	24
8/25	103	105	107	24	105	107	108	24	100	100	101	24	104	105	107	24	104	104	104	24
8/26	102	104	105	24	105	106	107	24	100	100	100	24	103	105	106	24	102	103	104	24
8/27	103	104	106	23	101	102	103	24	99	99	99	24	100	101	101	24	100	100	101	24
8/28	102	104	106	24	104	106	107	24	118	122	131	23	102	103	105	24	100	101	101	23
8/29	---	---	---	NA	---	---	---	NA	---	---	---	NA	---	---	---	NA	---	---	---	NA
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	23	101	102	102	23

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

Date	Lower Mon.			L. Mon. Tlwr			Ice Harbor			Ice Harbor Tlwr			McNary-Oregon			#				
	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
8/22	102	103	104	21	100	100	101	21	101	101	103	21	108	112	114	21	104	105	106	21
8/23	99	100	101	24	99	99	100	23	99	100	104	24	109	113	115	24	102	103	104	24
8/24	99	100	100	24	100	100	101	23	101	103	104	24	106	112	115	24	102	103	105	24
8/25	101	102	103	24	101	103	104	24	103	105	108	24	107	112	114	24	105	108	110	24
8/26	101	102	102	24	102	103	104	24	100	102	103	24	108	113	115	24	104	106	108	24
8/27	102	103	104	24	102	103	103	24	101	103	106	24	108	113	115	24	106	107	108	24
8/28	104	104	106	24	103	104	105	24	102	103	105	24	107	112	115	24	105	107	109	24
8/29	---	---	---	NA	---	---	---	NA	---	---	---	NA	---	---	---	NA	---	---	---	NA
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

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>	<u>24h</u>	<u>AVG</u>	<u>High</u>	<u>#</u>	
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	AVG	High	hr	
8/22	114	115	117	21	103	104	104	21	102	102	103	19	106	108	115	17	107	109	112	19
8/23	112	112	113	24	102	102	102	24	101	101	101	24	108	114	118	24	103	105	108	24
8/24	111	111	112	24	101	102	102	24	101	101	101	22	107	112	117	22	104	106	107	22
8/25	114	116	121	24	102	103	103	24	102	103	106	24	108	114	116	24	105	107	108	24
8/26	111	117	124	24	103	104	104	24	102	102	102	23	107	113	118	24	105	108	110	23
8/27	105	105	105	24	104	104	105	24	101	101	101	23	109	117	119	24	103	105	108	23
8/28	105	106	108	24	103	104	104	24	102	103	105	23	107	112	116	24	104	106	109	23
8/29	---	---	---	NA	---	---	---	NA	---	---	---	NA	---	---	---	NA	---	---	---	NA
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	23	102	102	102	24	101	101	102	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>	<u>#</u>			
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	hr			
8/22	114	114	115	20	107	107	107	19	112	114	118	19	107	109	111	20
8/23	112	113	114	24	104	105	105	24	111	113	115	24	108	110	112	24
8/24	112	114	115	22	104	105	105	24	111	112	113	24	107	109	111	24
8/25	112	114	115	24	106	106	107	24	112	113	115	19	119	125	128	24
8/26	112	113	114	24	106	106	107	23	111	112	114	23	115	123	124	24
8/27	113	113	113	24	105	105	107	23	112	114	117	22	108	111	113	24
8/28	113	114	114	24	105	105	105	23	113	115	118	23	108	112	114	24
8/29	---	---	---	NA	---	---	---	NA	---	---	---	NA	---	---	---	NA
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	23	105	105	106	23	104	105	106	24

Two-Week Summary of Passage Indices

COMBINED YEARLING CHINOOK												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/22/2003	*	---	---	---	---	0	1	4	0	10	0	0
08/23/2003	*	---	---	---	---	0	2	0	0	0	10	0
08/24/2003	*	---	---	---	---	0	0	4	0	0	0	0
08/25/2003	*	---	---	---	---	0	0	2	0	0	0	0
08/26/2003	*	---	---	---	---	0	0	2	0	10	0	0
08/27/2003		---	---	---	---	0	0	2	2	10	0	0
08/28/2003		---	---	---	---	0	0	0	0	0	0	0
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
Total:		0	0	0	0	12	3	24	2	30	16	0
# Days:		0	0	0	0	14	14	14	10	14	14	14
Average:		0	0	0	0	1	0	2	0	2	1	0
YTD		32,064	34,028	11,123	2,417	3,599,202	2,483,142	785,279	15,355	1,624,082	2,074,671	4,043,758

COMBINED SUBYEARLING CHINOOK												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/22/2003	*	---	---	---	---	348	618	620	68	11,445	2,276	2,747
08/23/2003	*	---	---	---	---	840	544	271	38	6,160	1,928	1,314
08/24/2003	*	---	---	---	---	668	526	395	24	5,360	1,052	1,476
08/25/2003	*	---	---	---	---	468	550	308	18	2,240	862	960
08/26/2003	*	---	---	---	---	464	491	378	26	5,360	1,201	855
08/27/2003		---	---	---	---	432	212	197	43	3,150	1,321	1,478
08/28/2003		---	---	---	---	472	344	266	20	2,050	904	1,694
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
Total:		0	0	0	0	4,871	6,239	3,932	295	41,118	12,616	15,007
# Days:		0	0	0	0	14	14	14	10	14	14	14
Average:		0	0	0	0	348	446	281	30	2,937	901	1,072
YTD		1	118	74	355	1,396,393	674,654	339,298	28,113	7,680,596	2,713,218	7,896,367

* 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)
08/22/2003	*	---	---	---	---	4	4	1	0	0	0	0
08/23/2003	*	---	---	---	---	8	13	1	0	0	0	0
08/24/2003	*	---	---	---	---	0	4	0	1	0	0	0
08/25/2003	*	---	---	---	---	4	2	0	1	0	0	0
08/26/2003	*	---	---	---	---	0	6	0	1	0	0	0
08/27/2003		---	---	---	---	0	3	0	0	0	0	0
08/28/2003		---	---	---	---	4	4	0	1	0	0	19
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
Total:		0	0	0	0	45	76	4	6	0	0	34
# Days:		0	0	0	0	14	14	14	10	14	14	14
Average:		0	0	0	0	3	5	0	1	0	0	2
YTD		0	0	0	17	132,877	116,628	37,600	41,690	113,579	258,277	2,116,459

		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)
08/22/2003	*	---	---	---	---	36	4	1	2	0	0	0
08/23/2003	*	---	---	---	---	8	4	0	0	0	10	0
08/24/2003	*	---	---	---	---	16	10	0	1	0	13	0
08/25/2003	*	---	---	---	---	12	4	1	2	0	0	0
08/26/2003	*	---	---	---	---	12	5	0	0	0	6	0
08/27/2003		---	---	---	---	28	1	0	0	0	0	0
08/28/2003		---	---	---	---	12	3	0	1	0	0	0
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
Total:		0	0	0	0	207	61	8	8	0	40	14
# Days:		0	0	0	0	14	14	14	10	14	14	14
Average:		0	0	0	0	15	4	1	1	0	3	1
YTD		2,347	48,404	2,521	5,601	3,355,477	2,583,189	1,865,456	15,507	245,583	553,522	1,635,163

* See sampling comments

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)	
08/22/2003	*	---	---	---	---	0	0	0	0	10	13	0
08/23/2003	*	---	---	---	---	0	0	0	1	0	0	0
08/24/2003	*	---	---	---	---	0	0	0	1	0	13	0
08/25/2003	*	---	---	---	---	4	0	0	0	10	0	0
08/26/2003	*	---	---	---	---	0	0	0	1	10	0	0
08/27/2003		---	---	---	---	0	0	0	0	0	0	0
08/28/2003		---	---	---	---	0	0	0	0	10	0	0
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
Total:		0	0	0	0	4	3	0	4	52	26	0
# Days:		0	0	0	0	14	14	14	10	14	14	14
Average:		0	0	0	0	0	0	0	0	4	2	0
YTD		1	0	0	11	16,388	8,128	4,545	10,312	841,718	726,163	1,261,373

* 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: 09/04

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	160,019	10,293	199,436	10,182	101,459	8,303
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	63,127	5,183	84,329	5,299	44,101	3,928
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	35,822	3,776	47,021	4,217	27,301	2,527
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	23,155	2,628	35,142	2,790	17,446	1,672
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	2,298	306	3,918	494	1,193	145
LMN	70,603	7,344	76,304	1,537	38,073	1,899	18,718	3,589	23,744	1,710	7,642	945	962	205	2,937	383	823	136
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	610	67	2,169	172	536	63
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	435	82	1,731	146	402	56
PRD	18,136	656	34,083	196	15,528	317	83,004	3,933	96,326	1,455	27,332	1,075	6,620	1,302	9,956	564	6,837	447
RIS	16,881	753	24,017	827	11,565	538	81,543	6,858	86,825	3,216	24,224	3,420	3,485	1,123	4,671	400	2,134	484
RRH	4,216	450	9,999	161	4,017	126	63,167	6,195	73,104	2,807	16,932	1,550	2,736	867	3,788	387	1,609	432
WEL	4,313	172	7,585	41	2,377	152	44,500	1,898	62,595	412	12,816	1,120	1,326	188	1,045	40	391	102

DAM	Coho						Sockeye			Steelhead			Wild 2003
	2003		2002		10-Yr Avg.		2003	2002	10-Yr Avg.	2003	2002	10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	26,303	1,282	4,758	582	8,401	667	39,287	49,608	46,748	275,474	331,672	206,456	94,278
TDA	2,797	315	571	242	820	118	34,178	40,554	37,479	92,476	182,059	95,310	36,198
JDA	1,581	100	187	23	335	47	35,410	41,914	40,484	72,434	129,904	64,517	25,916
MCN	123	24	69	19	91	17	32,035	39,173	36,935	44,239	95,020	48,436	16,112
IHR	0	0	0	0	2	0	37	61	17	28,887	55,311	27,262	7,435
LMN	0	0	1	0	0	0	14	46	24	20,062	49,229	23,492	5,997
LGS	0	0	0	0	0	0	22	38	26	14,973	40,425	15,658	5,259
LWG	0	0	0	0	0	0	12	55	24	24,829	39,571	15,919	6,647
PRD	16	7	85	33	7	1	36,539	47,881	45,464	8,841	11,610	5,563	n/c
RIS	13	0	14	0	1	0	34,770	44,314	40,952	6,476	9,571	4,427	3,864
RRH	2	0	24	0	1	0	30,336	12,363	24,239	5,000	6,762	2,995	2,840
WEL	0	0	3	0	0	0	28,968	10,568	23,885	3,109	5,056	1,991	1,754

PRD, RIS, RRH and WEL are through 09/03.

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: 9/5/03

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:

9/5/03 11:08 AM

		08/23/03 TO 09/05/03					
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	4,793	5	35	4	237	5,074
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	0	0	0	0	64	64
	Sum of Numbertrucked	5,064	5	39	3	211	5,322
	Sum of TotalProjectMortalities	82	0	0	1	2	85
LGS	Sum of NumberCollected	6,239	3	76	3	61	6,382
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	5,294	1	65	2	50	5,412
	Sum of TotalProjectMortalities	393	3	7	1	2	406
LMN	Sum of NumberCollected	4,066	24	5		9	4,104
	Sum of NumberBarged	0	0	0		0	0
	Sum of NumberBypassed	0	0	0		6	6
	Sum of Numbertrucked	4,564	28	6		5	4,603
	Sum of TotalProjectMortalities	197	0	0		0	197
MCN	Sum of NumberCollected	41,153	30			52	41,235
	Sum of NumberBarged	0	0			0	0
	Sum of NumberBypassed	4,015	3			15	4,033
	Sum of Numbertrucked	42,489	31			78	42,598
	Sum of TotalProjectMortalities	646	2			0	648
Total Sum of NumberCollected		56,251	62	116	59	307	56,795
Total Sum of NumberBarged		0	0	0	0	0	0
Total Sum of NumberBypassed		4,015	3	0	15	70	4,103
Total Sum of Numbertrucked		57,411	65	110	83	266	57,935
Total Sum of TotalProjectMortalities		1,318	5	7	2	4	1,336

YTD Transportation Summary

Source: Fish Passage Center

Updated:

9/5/03 11:08 AM

TO: 09/05/03

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	1,153,219	2,576,980	90,021	9,752	2,336,798	6,166,770
	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	53,206	101,697
	Sum of NumberTrucked	9,648	54,217	143	81	15,727	79,816
	Sum of TotalProjectMortalities	18,295	5,981	607	122	2,069	27,074
LGS	Sum of NumberCollected	592,289	1,832,619	86,717	5,440	1,938,242	4,455,307
	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	8,963	52,602	95	3	931	62,594
	Sum of TotalProjectMortalities	7,280	3,398	445	38	2,927	14,088
LMN	Sum of NumberCollected	288,369	463,334	26,550	3,307	1,229,820	2,011,380
	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	75,951	117,610
	Sum of NumberTrucked	5,714	15,183	9	40	1,652	22,598
	Sum of TotalProjectMortalities	1,650	1,003	18	5	1,289	3,965
MCN	Sum of NumberCollected	7,027,093	1,041,816	71,922	546,115	155,070	8,842,016
	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	63,996	31	0	106	0	64,133
	Sum of TotalProjectMortalities	72,139	1,135	329	438	242	74,283
Total Sum of NumberCollected		9,060,970	5,914,749	275,210	564,614	5,659,930	21,475,473
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	283,244	4,289,936
Total Sum of NumberTrucked		88,321	122,033	247	230	18,310	229,141
Total Sum of TotalProjectMortalities		99,364	11,517	1,399	603	6,527	119,410

