



## Fish Passage Center

# Weekly Report #03 - 26

Sept. 19, 2003

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### Summary of Events:

**Water Supply:** Precipitation throughout the Columbia Basin generally been above average over the first two weeks of September at most of the sites listed in Table 1. Over the entire water year, precipitation has ranged between 74% and 98% 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 1-15, 2003		Cumulative October, 1 2002 to September 15, 2003	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.07	132	20.11	81
Snake River Above Ice Harbor	0.57	108	15.96	92
Columbia Above The Dalles	0.86	132	19.76	87
Kootenai	1.27	157	19.23	76
Clark Fork	0.60	100	14.72	85
Flathead	1.08	132	16.97	74
Pend Oreille/Spokane	0.97	129	27.6	90
Central Washington	0.24	109	8.77	98
Snake River Plain	0.31	74	8.07	72
Salmon/Boise/Payette	0.37	72	18.91	96
Clearwater	1.00	118	29.76	98
SW Washington Cascades/Cowlitz	1.43	92	58.61	84
Willamette Valley	1.46	137	52.92	90

Libby Reservoir is currently at an elevation of 2435.0 feet, and has drafted 0.6 feet in the last week. Outflows were decreased to 6 Kcfs on 9-18-03; inflows to Libby have increased over the last two days to approximately 10 Kcfs.

Hungry Horse Reservoir is at an elevation of 3537.3 feet and has been drafted approximately 0.8 feet over the last week. Outflows have ranged between 1.9 and 2.0 Kcfs.

Dworshak Reservoir is currently at an elevation of 1519.8 feet, and has drafted 1.4 feet in the last week. Supplemental outflows from Dworshak to moderate temperatures in the Lower Snake River ended on September 14, 2003; Dworshak is currently at minimum outflows.

Grand Coulee Reservoir ended September 18th at an elevation of 1282.9 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 35.8 and 81.0 Kcfs.

Brownlee Reservoir was at an elevation of 2048.1 feet on September 17th, drafting 1.5 feet in the last week. Outflows at Brownlee have been fluctuating between 9.5 and 14.6 Kcfs over the week.

**Smolt Monitoring:** At Lower Granite Dam the average daily index for subyearling chinook decreased from 290 last week to 130 per day this week. Little Goose Dam saw a more sizeable decrease, with an index of 110 this week compared to 1,000 last week. At Lower Monumental the daily average index continued to decline, as subyearling indices averaged 75 this week compared to 140 last week.

In the Lower Columbia, at McNary, the daily average index for subyearling chinook was down to 25 per day this week compared to 160 last week. At John Day Dam the average daily index for subyearling chinook decreased to 25 this week compared to 80 last week. At Bonneville Dam, the average daily index for subyearling chinook was at 330 this week compared to 260 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 19-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, daily counts of adult fall chinook broke the previous high count of about 39,300 (set in 1989). From 9/11-14, adult fall chinook counts ranged from 39,600 to 45,800 for the four days. As expected, these daily peak counts represent the peak passage and fish counts reduced to 12,000 adult fall chinook by the end of this reporting week, September 18. The cumulative count through September 18 was 509,454, and surpassed the 2002 count during the week. This year's total was about 121.5% and 246.8% of the respective 2002 and 10-year average. To spread passage conditions and avoid the unsatisfactory crowding on 9/11 at the Bonneville project, 2-turbine units began operating at the Old Powerhouse on 9/12/03. The purpose of this operation was to reduce passage through the WA Shore fish ladder and attract a portion of these fish to the OR shore fish ladder to reduce crowding. The following table shows the reduction in % of fish using the WA fish ladder after Bonneville I Powerhouse began operating on 9/12.

Date	Fall Chinook Adult			Steelhead			Coho Adult		
	OR count	WA count	% WA ldr	OR count	WA count	%WA ldr	OR count	WA count	% WA ldr
9/10/03	1525	24,664	94.2	218	1,114	83.6	228	964	80.9
9/11/03	4916	40,968	89.3	560	2,496	81.7	732	1,997	73.2
9/12/03	12353	33,226	72.9	2,247	3,797	62.8	1,894	3,988	67.8
9/13/03	13202	28,362	68.2	2,728	5,317	66.1	3,607	4,087	53.1
9/14/03	10981	28661	72.3	2,649	4,410	62.5	4,360	3,668	45.7
9/15/03	8190	20,672	72.1	2,656	3,937	59.7	3,818	4,057	51.5

This operation appeared successful in reducing numbers and crowding of fish passing through the WA ladder to some extent. In future years, additional turbine units should be operated at the Bonneville I powerhouse, to avoid degradation of passage conditions in the Washington Shore ladder, due to construction. During this late summer/fall no additional units were available to operate at the Bonneville I powerhouse at Bonneville Dam.

Numbers of "Tule" stock fall chinook peaked at 20,000 on 9/12. Since August 15 and through 9/17 about 154,236 Tule fall chinook have been tallied with the remainder of the chinook being the upriver bright chinook, 343,243. 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 The Dalles Dam ranged from 9,000 to 15,000 for the week with McNary Dam having counts that ranged between 1,800 and 9,800. The cumulative count at McNary Dam was 97,995 through September 18. At Priest Rapids Dam, adult fall chinook counts ranged between 700 and 2,000 with the cumulative total being 23,405 through the 16th. At Ice Harbor Dam, the high daily count for the week was 945 with the cumulative count at 10,809 through the 18th.

Numbers of steelhead at Bonneville Dam ranged between 3,000 and 8,000 for the week. The cumulative count through September 18 was 328,555 and compares to 410,773 in 2002 and 247,730 for the 10-year average. The steelhead counts at The Dalles Dam have been increasing with counts ranging from 5,000 to 10,000 for the

week. Steelhead migration from some of the lower river tributaries should continue as they begin their upstream migration during upcoming weeks. At McNary Dam, daily counts of adult steelhead ranged from 3,000 to 9,000 with the cumulative total now at 110,807. Migration up the Mid-Columbia remained near 300-400 per day at Priest Rapids Dam. At Ice Harbor Dam, steelhead counts ranged from 1,900 to 5,000 per day, a large increase from the previous week. The cumulative count for Priest Rapids Dam was 12,946 through September 16 with Ice Harbor at 66,601 through September 18.

At Bonneville Dam, adult coho counts ranged from a low of 3,000 to a high of 8,000 for the week with the cumulative count through September 18 at sites in the Mid-Columbia area, the Yakama River basin, the Umatilla River basin and the Clearwater River basin. The majority of coho salmon returning to the Bonneville pool are destined for the Little White Salmon and Klickitat rivers.

### HATCHERY RELEASE LAST TWO WEEKS

#### Hatchery Release Summary

From: 9/5/03 to 9/18/03

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Wildlife	Clearwater Hatchery	CH1	SP	2004	240,000	09-16-03	09-16-03	Crooked R Acclim Pond	S Fk Clearwater R
Idaho Dept. of Fish and Wildlife	Clearwater Hatchery	CH1	SP	2004	350,000	09-14-03	09-14-03	Powell Acclim Pond	Lochsa River
<b>Idaho Dept. of Fish and Wildlife Total</b>					<b>590,000</b>				
<b>Grand Total</b>					<b>590,000</b>				

**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
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
09/12/03	61.5	0.1	64.8	0.0	69.5	0.0	70.0	0.0	69.4	0.0	65.8	1.8	62.1	1.0
09/13/03	45.8	0.2	42.8	0.0	35.6	0.0	37.8	0.0	39.1	0.0	54.0	1.7	56.6	1.1
09/14/03	35.8	0.2	40.2	0.0	38.9	0.0	43.0	0.0	42.5	0.0	42.0	1.7	40.9	0.7
09/15/03	81.0	0.2	79.5	0.0	71.7	0.0	71.6	0.0	71.6	0.0	68.6	1.8	56.7	1.0
09/16/03	59.1	0.2	61.7	0.0	63.6	0.0	65.8	0.0	64.5	0.0	79.2	2.0	75.8	1.1
09/17/03	52.1	0.1	53.8	0.0	53.6	0.0	53.5	0.0	53.6	0.0	69.2	1.5	67.6	1.0
09/18/03	57.0	0.1	56.8	0.0	57.3	0.0	62.3	0.0	62.2	0.0	60.7	1.4	56.5	1.0

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

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	0.0
09/11/03	7.0	0.0	9.8	9.6	21.8	0.0	20.4	0.0	22.5	0.0	18.4	0.0	0.0	0.0
09/12/03	4.7	0.0	9.0	11.9	20.8	0.0	19.6	0.0	17.4	0.0	17.1	0.0	0.0	0.0
09/13/03	4.7	0.0	9.4	9.5	21.1	0.0	22.3	0.0	23.9	0.0	21.2	0.0	0.0	0.0
09/14/03	4.7	0.0	9.5	10.8	18.4	0.0	17.7	0.0	19.6	0.0	20.9	0.0	0.0	0.0
09/15/03	1.6	0.0	9.9	14.0	19.4	0.0	21.4	0.0	21.6	0.0	20.8	0.0	0.0	0.0
09/16/03	1.6	0.0	9.7	11.4	19.2	0.0	18.9	0.0	20.1	0.0	19.2	0.0	0.0	0.0
09/17/03	1.6	0.0	10.3	12.8	18.1	0.0	17.3	0.0	18.6	0.0	20.2	0.0	0.0	0.0
09/18/03	1.6	0.0	---	---	18.6	0.0	17.8	0.0	17.4	0.0	16.8	0.0	0.0	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		
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	63.2	0.0	60.1	0.0	63.6	0.0	73.6	2.5	0.0	64.4
09/12/03	66.3	0.0	69.4	0.0	75.7	0.0	78.3	2.4	10.2	58.9
09/13/03	84.3	0.0	76.9	0.0	80.3	0.0	85.7	2.6	17.6	59.2
09/14/03	74.2	0.0	73.0	0.0	77.1	0.0	80.7	2.5	16.4	55.1
09/15/03	65.5	0.0	67.7	0.0	76.4	0.0	81.3	2.4	14.7	57.5
09/16/03	93.7	0.0	92.9	0.0	96.0	0.0	94.0	2.4	16.6	68.2
09/17/03	89.6	0.0	89.2	0.0	94.8	0.0	100.7	2.4	16.2	75.4
09/18/03	201.8	0.0	83.2	0.0	88.1	0.0	91.5	2.5	16.4	66.0

## 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

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>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#		
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High		Avg	Avg
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
9/12	---	---	---	0	100	101	101	24	104	104	104	23	103	103	105	24	103	103	103	23
9/13	---	---	---	0	99	99	100	24	103	103	103	24	102	103	104	24	102	103	103	23
9/14	---	---	---	0	100	101	101	24	103	103	104	24	103	104	104	24	103	104	104	23
9/15	---	---	---	0	101	102	102	24	103	103	104	24	103	103	104	24	104	104	105	23
9/16	---	---	---	0	102	102	103	24	103	103	104	24	103	103	104	24	103	103	104	11
9/17	---	---	---	0	102	103	106	24	102	102	103	24	102	102	102	24	---	---	---	0
9/18	---	---	---	0	101	102	102	21	103	103	103	24	102	102	102	24	---	---	---	0

### 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>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#		
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High		Avg	Avg
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
9/12	103	104	107	22	101	102	102	24	101	102	103	24	105	105	105	14	110	110	110	14
9/13	103	105	106	23	100	101	102	24	102	104	107	24	---	---	---	0	---	---	---	0
9/14	104	105	106	23	101	103	104	24	104	106	109	24	---	---	---	0	---	---	---	0
9/15	104	104	106	23	103	104	104	24	103	104	106	24	---	---	---	0	---	---	---	0
9/16	103	103	103	11	103	103	104	24	103	104	105	24	---	---	---	0	---	---	---	0
9/17	---	---	---	0	102	102	103	24	101	102	102	24	---	---	---	0	---	---	---	0
9/18	---	---	---	0	101	102	102	24	101	102	102	24	---	---	---	0	---	---	---	0

### 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>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#		
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High		Avg	Avg
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	101	101	102	24	101	101	102	24	100	100	100	24
9/12	97	97	100	8	102	102	103	14	100	101	101	24	100	101	101	24	100	100	101	24
9/13	---	---	---	0	---	---	---	0	100	100	100	24	100	100	101	24	100	100	100	24
9/14	---	---	---	0	---	---	---	0	101	102	102	24	101	101	102	24	101	101	102	24
9/15	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/16	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/17	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/18	---	---	---	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		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
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	102	102	103	24	101	102	102	24	99	99	100	24	101	102	103	24	101	102	103	24
9/12	101	102	102	24	100	101	102	21	99	99	101	24	101	102	103	24	101	101	102	24
9/13	101	102	102	24	101	102	102	24	99	99	100	24	100	102	103	24	101	102	104	23
9/14	102	103	104	24	102	103	103	24	100	100	101	24	101	102	103	24	102	103	104	24
9/15	---	---	---	0	102	103	103	24	105	106	107	24	103	106	109	24	102	103	104	24
9/16	---	---	---	0	101	102	102	24	105	106	106	24	102	104	106	24	101	101	102	24
9/17	---	---	---	0	100	100	101	24	104	105	105	24	102	104	106	24	100	101	102	24
9/18	---	---	---	0	100	101	102	24	105	106	107	24	102	105	107	24	101	103	104	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		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
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
9/12	102	103	105	24	98	98	99	24	97	98	99	24	95	96	96	23	96	96	96	24
9/13	102	104	106	24	98	99	100	24	97	97	98	23	95	95	96	17	96	96	96	20
9/14	102	104	106	24	100	100	101	24	98	99	99	24	96	96	97	24	96	97	97	24
9/15	103	106	108	24	99	99	100	24	---	---	---	0	96	97	97	24	97	97	97	24
9/16	100	102	103	24	98	99	99	24	99	100	101	24	96	97	97	24	97	97	97	24
9/17	101	103	105	24	97	97	98	24	98	98	99	24	95	95	96	24	96	96	97	24
9/18	102	104	107	24	98	99	100	24	98	98	99	24	96	96	96	24	96	97	97	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		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
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
9/12	97	97	97	24	97	99	107	24	97	97	98	24	99	99	100	24	99	99	100	24
9/13	96	96	97	24	96	97	98	24	97	98	101	22	98	98	100	16	99	100	102	24
9/14	97	97	98	24	97	98	99	24	98	99	100	24	---	---	---	0	101	103	105	24
9/15	97	97	98	24	97	98	98	24	99	100	104	24	---	---	---	0	100	101	103	24
9/16	97	97	97	24	97	97	97	24	97	98	98	24	99	99	102	9	99	99	99	24
9/17	96	96	96	24	96	97	98	24	97	97	98	24	98	99	99	24	99	100	100	24
9/18	96	97	98	24	96	97	98	20	97	97	98	24	99	100	101	24	100	101	102	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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>
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
9/12	98	98	99	24	98	98	99	24	98	99	99	23	100	100	101	24	98	98	99	23
9/13	98	99	101	24	98	98	99	24	98	99	100	23	100	100	101	24	98	98	99	23
9/14	100	100	101	24	99	100	100	24	99	99	99	23	101	101	101	24	99	99	100	23
9/15	100	100	100	24	99	100	100	24	100	102	131	22	101	101	101	24	99	99	99	23
9/16	100	100	100	24	100	100	100	24	99	99	100	10	101	101	102	13	99	99	99	23
9/17	99	99	100	24	99	99	100	24	---	---	---	0	---	---	---	0	98	98	98	7
9/18	100	100	101	24	99	100	100	24	---	---	---	0	---	---	---	0	---	---	---	0

### 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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>
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
9/12	99	99	99	24	98	98	99	23	100	100	101	23	99	100	100	24
9/13	98	99	99	24	99	99	99	23	100	101	102	23	100	101	102	24
9/14	99	99	100	24	99	100	100	23	100	101	102	23	100	101	101	24
9/15	99	99	100	24	99	100	100	23	100	101	101	23	100	101	101	24
9/16	99	99	100	24	99	100	100	23	100	101	102	23	100	100	101	24
9/17	97	97	98	8	98	98	98	23	100	100	101	23	99	99	100	24
9/18	---	---	---	0	99	99	100	23	100	101	101	23	99	99	100	12

## Two-Week Summary of Passage Indices

COMBINED YEARLING CHINOOK												
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
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
09/12/2003		---	---	---	---	2	0	1	---	0	0	0
09/13/2003	*	---	---	---	---	0	0	0	---	0	0	0
09/14/2003	*	---	---	---	---	0	0	1	---	0	0	0
09/15/2003		---	---	---	---	1	0	1	---	0	0	0
09/16/2003		---	---	---	---	2	1	1	---	0	---	0
09/17/2003		---	---	---	---	0	0	0	---	0	---	0
09/18/2003		---	---	---	---	0	0	0	---	0	---	0
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>5</b>	<b>0</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>0</b>	<b>14</b>	<b>11</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>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>3,599,207</b>	<b>2,483,143</b>	<b>785,288</b>	<b>15,355</b>	<b>1,624,087</b>	<b>2,074,671</b>	<b>4,043,763</b>

COMBINED SUBYEARLING CHINOOK												
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
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
09/12/2003		---	---	---	---	144	147	93	---	15	35	125
09/13/2003	*	---	---	---	---	143	137	55	---	20	5	184
09/14/2003	*	---	---	---	---	157	86	55	---	30	45	200
09/15/2003		---	---	---	---	171	50	84	---	35	15	507
09/16/2003		---	---	---	---	69	87	54	---	25	---	592
09/17/2003		---	---	---	---	79	133	102	---	16	---	282
09/18/2003		---	---	---	---	105	154	61	---	48	---	407
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,862</b>	<b>8,116</b>	<b>1,478</b>	<b>0</b>	<b>1,299</b>	<b>655</b>	<b>4,097</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>0</b>	<b>14</b>	<b>11</b>	<b>14</b>
<b>Average:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>204</b>	<b>580</b>	<b>106</b>	<b>0</b>	<b>93</b>	<b>60</b>	<b>293</b>
<b>YTD</b>		<b>1</b>	<b>118</b>	<b>74</b>	<b>355</b>	<b>1,399,070</b>	<b>682,770</b>	<b>340,708</b>	<b>28,113</b>	<b>7,681,815</b>	<b>2,713,873</b>	<b>7,900,232</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)	
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
09/12/2003		---	---	---	---	1	0	0	---	0	0	0
09/13/2003	*	---	---	---	---	0	0	0	---	0	0	0
09/14/2003	*	---	---	---	---	0	1	0	---	0	0	0
09/15/2003		---	---	---	---	0	0	0	---	0	0	0
09/16/2003		---	---	---	---	2	0	0	---	0	---	0
09/17/2003		---	---	---	---	1	0	0	---	0	---	0
09/18/2003		---	---	---	---	0	0	0	---	0	---	0
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>31</b>	<b>3</b>	<b>0</b>	<b>5</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>0</b>	<b>14</b>	<b>11</b>	<b>14</b>
<b>Average:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>YTD</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>132,901</b>	<b>116,659</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)	
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
09/12/2003		---	---	---	---	17	1	0	---	0	0	0
09/13/2003	*	---	---	---	---	23	2	1	---	0	0	0
09/14/2003	*	---	---	---	---	6	1	1	---	0	0	0
09/15/2003		---	---	---	---	9	1	1	---	0	0	0
09/16/2003		---	---	---	---	5	4	1	---	0	---	0
09/17/2003		---	---	---	---	4	3	0	---	0	---	0
09/18/2003		---	---	---	---	4	2	0	---	0	---	0
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>266</b>	<b>179</b>	<b>18</b>	<b>0</b>	<b>0</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>0</b>	<b>14</b>	<b>11</b>	<b>14</b>
<b>Average:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>13</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>YTD</b>		<b>2,347</b>	<b>48,404</b>	<b>2,521</b>	<b>5,601</b>	<b>3,355,710</b>	<b>2,583,368</b>	<b>1,865,473</b>	<b>15,507</b>	<b>245,583</b>	<b>553,522</b>	<b>1,635,163</b>

\* 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)
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
09/12/2003	---	---	---	---	0	0	0	---	0	0	0
09/13/2003 *	---	---	---	---	0	0	0	---	0	0	0
09/14/2003 *	---	---	---	---	0	0	0	---	0	0	0
09/15/2003	---	---	---	---	0	0	0	---	0	0	0
09/16/2003	---	---	---	---	0	0	0	---	0	---	0
09/17/2003	---	---	---	---	0	0	0	---	0	---	0
09/18/2003	---	---	---	---	0	0	0	---	4	---	0
<b>Total:</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>4</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>0</b>	<b>14</b>	<b>11</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>0</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>841,722</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: 09/18**

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	509,454	28,802	419,207	27,652	206,425	22,889
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	222,861	18,573	194,599	18,762	100,731	13,323
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	134,273	14,579	121,972	14,611	68,956	9,409
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	97,995	10,911	95,079	13,018	50,547	6,948
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	10,809	2,658	10,208	2,328	3,409	999
LMN	70,603	7,344	76,304	1,537	38,073	1,899	18,718	3,589	23,744	1,710	7,642	945	6,343	1,793	9,529	1,748	2,829	800
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	5,485	1,242	7,417	1,078	1,893	436
LWG	70,609	8,295	75,025	2,089	35,689	2,016	16,422	4,137	22,159	1,953	6,987	1,260	4,018	1,417	6,249	1,040	1,534	441
PRD	18,136	656	34,083	196	15,528	317	83,004	3,933	96,326	1,455	27,332	1,075	25,676	2,635	19,887	1,427	13,783	1,215
RIS	16,881	753	24,017	827	11,565	538	81,543	6,858	86,825	3,216	24,224	3,420	9,033	2,024	8,628	635	4,127	826
RRH	4,216	450	9,999	161	4,017	126	63,167	6,195	73,104	2,807	16,932	1,550	5,967	1,418	5,994	644	2,791	775
WEL	4,313	172	7,585	41	2,377	152	44,503	1,888	62,595	412	12,816	1,120	3,324	478	2,829	136	1,162	278

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	77,084	2,715	33,826	3,263	34,979	2,207	39,291	49,610	46,748	328,555	410,773	247,430	104,612
TDA	16,266	1,169	3,697	1,803	5,392	757	34,181	40,554	37,479	181,114	254,578	143,463	59,881
JDA	9,257	964	2,262	576	3,158	430	35,411	41,914	40,486	161,992	198,382	109,442	49,745
MCN	3,896	625	398	209	1,045	126	32,035	39,174	36,935	110,807	143,074	77,637	36,400
IHR	16	1	3	0	25	0	37	61	17	66,601	89,394	48,717	17,033
LMN	4	0	3	0	3	2	14	46	24	50,028	82,270	41,857	14,092
LGS	6	0	11	1	1	0	22	38	26	39,983	70,082	28,801	12,084
LWG	3	1	4	4	2	0	12	55	24	44,587	62,916	27,390	12,419
PRD	731	188	379	116	69	17	36,551	47,882	45,469	13,435	13,602	7,902	n/c
RIS	148	0	96	0	49	0	34,775	44,319	40,993	10,929	12,124	6,352	6,739
RRH	9	0	42	0	8	0	30,348	12,369	24,254	7,717	8,544	4,425	4,605
WEL	0	0	10	0	0	0	28,993	10,584	23,914	4,830	6,686	3,102	2,710

RIS, RRH and WEL are through 09/17.

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: 9/19/03

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:

9/19/03 10:15 AM

		09/06/03	TO	09/19/03				
		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
<b>LGR</b>	Sum of NumberCollected	2,976		5	27		270	3,278
	Sum of NumberBarged	0		0	0		0	0
	Sum of NumberBypassed	0		0	0		269	269
	Sum of Numbertrucked	3,086		4	26		0	3,116
	Sum of TotalProjectMortalities	62		1	3		1	67
<b>LGS</b>	Sum of NumberCollected	8,116			31		179	8,326
	Sum of NumberBarged	0			0		0	0
	Sum of NumberBypassed	0			0		0	0
	Sum of Numbertrucked	8,932			36		184	9,152
	Sum of TotalProjectMortalities	155			1		7	163
<b>LMN</b>	Sum of NumberCollected	1,544		9	3		18	1,574
	Sum of NumberBarged	0		0	0		0	0
	Sum of NumberBypassed	0		0	0		11	11
	Sum of Numbertrucked	1,585		8	3		6	1,602
	Sum of TotalProjectMortalities	84		1	0		1	86
<b>MCN</b>	Sum of NumberCollected	1,319				4		1,323
	Sum of NumberBarged	0				0		0
	Sum of NumberBypassed	34				0		34
	Sum of Numbertrucked	1,426				4		1,430
	Sum of TotalProjectMortalities	22				0		22
Total Sum of NumberCollected		13,955		14	61	4	467	14,501
Total Sum of NumberBarged		0		0	0	0	0	0
Total Sum of NumberBypassed		34		0	0	0	280	314
Total Sum of Numbertrucked		15,029		12	65	4	190	15,300
Total Sum of TotalProjectMortalities		323		2	4	0	9	338

### YTD Transportation Summary

Source: Fish Passage Center

Updated:

9/19/03 10:15 AM

TO: 09/19/03

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	1,155,896	2,576,985	90,045	9,752	2,337,031	6,169,709
	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	53,438	101,929
	Sum of NumberTrucked	12,265	54,221	164	81	15,727	82,458
	Sum of TotalProjectMortalities	18,355	5,982	610	122	2,070	27,139
<b>LGS</b>	Sum of NumberCollected	600,405	1,832,620	86,748	5,440	1,938,421	4,463,634
	Sum of NumberBarged	574,927	1,776,598	86,171	5,399	1,934,367	4,377,462
	Sum of NumberBypassed	0	22	0	0	3	25
	Sum of NumberTrucked	17,895	52,602	131	3	1,115	71,746
	Sum of TotalProjectMortalities	7,435	3,399	446	38	2,934	14,252
<b>LMN</b>	Sum of NumberCollected	289,779	463,343	26,552	3,307	1,229,837	2,012,818
	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	75,961	117,620
	Sum of NumberTrucked	7,047	15,191	11	40	1,658	23,947
	Sum of TotalProjectMortalities	1,727	1,004	18	5	1,290	4,044
<b>MCN</b>	Sum of NumberCollected	7,028,312	1,041,821	71,927	546,119	155,070	8,843,249
	Sum of NumberBarged	4,606,418	5,470	8,989	10,989	701	4,632,567
	Sum of NumberBypassed	2,284,576	1,035,087	62,604	534,287	154,084	4,070,638
	Sum of NumberTrucked	65,164	31	0	110	0	65,305
	Sum of TotalProjectMortalities	72,156	1,140	334	438	242	74,310
Total Sum of NumberCollected		9,074,392	5,914,769	275,272	564,618	5,660,359	21,489,410
Total Sum of NumberBarged		6,550,616	4,693,243	210,266	29,199	5,351,793	16,835,117
Total Sum of NumberBypassed		2,321,582	1,087,565	63,292	534,287	283,486	4,290,212
Total Sum of NumberTrucked		102,371	122,045	306	234	18,500	243,456
Total Sum of TotalProjectMortalities		99,673	11,525	1,408	603	6,536	119,745

