



## Fish Passage Center

# Weekly Report #10 - 28

October 1, 2010

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### Summary of Events:

**Water Supply:** Precipitation throughout the Columbia Basin has varied between 48% and 226% of average at individual sub-basins over September. Precipitation above The Dalles has been 142% of average over September. Over the 2010 water year, precipitation has ranged between 88% and 106% of average.

**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	Water Year 2010 September 1-27		Water Year 2010 October 1, 2009 to September 27, 2010	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	2.36	163	23.43	92
Snake River Above Ice Harbor	0.67	70	17.0	95
Columbia Above The Dalles	1.66	142	22.45	96
Kootenai	2.51	172	23.30	89
Clark Fork	1.40	128	16.85	95
Flathead	2.75	187	24.80	106
Pend Oreille/ Spokane	1.69	126	29.67	95
Central Washington	0.89	226	9.64	106
Snake River Plain	0.36	48	10.13	88
Salmon/Boise/ Payette	0.51	56	19.15	96
Clearwater	1.57	103	29.46	95
SW Washington Cascades/Cowlitz	4.43	158	66.39	93
Willamette Valley	2.80	146	56.47	95

The Grand Coulee Reservoir is at 1286.4 feet (9-30-10) and refilled 2.1 feet over the last week. Daily average outflows at Grand Coulee have ranged between 51.2 and 72.8 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2441.4 feet (9-30-10) and held steady last week. Daily average outflows at Libby Dam were 9.0 Kcfs over the past week.

Hungry Horse is currently at an elevation of 3540.5 feet (9-30-10) and has drafted 1.6 ft last week. Daily average outflows at Hungry Horse have been 4.3 Kcfs over the past week.

Dworshak is currently at an elevation of 1519.4 feet (9-30-10) and has drafted approximately 0.5 feet over the past week. Daily average outflows from Dworshak have been 1.6 Kcfs over the past week.

The Brownlee Reservoir was at an elevation of 2046.5 feet on September 29, 2010 drafting 3.0 feet last week. Over the past week, outflows at Brownlee have ranged between 13.1–15.9 Kcfs.

### **Smolt Monitoring:**

Subyearling Chinook indices increased at Lower Granite Dam over the past two weeks. At Little Goose and Lower Monumental dams in the Snake River the numbers passing were low but stayed similar to the previous two weeks. At Columbia River sites, indices were lower than the previous two weeks also. Sampling ended at John Day Dam on September 15 as scheduled. Sampling ended at McNary Dam and Lower Monumental Dam on September 30.

At Lower Granite Dam passage indices for subyearling Chinook increased to over 1,000 per day on September 18 and 19, with the weekly average over 700 per day for the week September 17 to 23. Indices decreased the following week (September 24 to 30) to an average of 150 per day. Little Goose Dam also saw the average index remain low but steady with the past two week's average between 16 and 19 per day. At Lower Monumental Dam passage indices were similar to those seen at Little Goose Dam except that on September 29

the index rose to 100 subyearlings (at LMN).

At McNary Dam subyearling Chinook indices averaged 380 two weeks ago and were down to 120 per day this week compared to over 1,000 per day average the previous two weeks. At Bonneville Dam the index averaged 270 per day last week and continued to drop this week averaging 130 per day.

#### **Hatchery Release:**

**Snake River Zone:** The Snake River Zone encompasses the Snake River and its tributaries from its confluence with the Columbia River to Hells Canyon Dam. Approximately 225,000 spring Chinook pre-smolts from the Nez Perce Tribal Hatchery are scheduled for release into the Clearwater River basin over the next two weeks. Of these, about 33% are scheduled for release into Newsome Creek while the remaining 67% are scheduled for release into Lolo Creek. All of these spring Chinook pre-smolts are unmarked and are not expected to out-migrate until spring of 2011. In addition, approximately 75,000 sockeye pre-smolts are scheduled for release in early October. Of these, 60% are to be released into Redfish Lake, 20% are to be released into Pettit Lake, and 20% are to be released into Lake Alturas. All of these sockeye pre-smolts are adipose clipped and are not expected to out-migrate until spring of 2011. There are no other releases of juvenile salmonids scheduled for this zone in the month of October.

**Mid-Columbia Zone:** The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. There were no releases of juvenile salmonids scheduled for this zone this week. Furthermore, there are no releases of juvenile salmonids scheduled for this zone over the next two weeks.

**Lower Columbia Zone:** The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. There were no releases of juvenile salmonids scheduled for this zone this week. There are also no releases of juvenile salmonids scheduled for this zone over the next two weeks.

#### **Adult Fish Passage:**

Daily counts of fall Chinook at Bonneville Dam ranged from 3,002 to 14,749. The 2010 adult fall Chinook count of 439,481 is 1.62 times greater than the 2009 count and 1.24 times greater than the 10 average. The 2010 Bonneville Dam fall Chinook jack count of 58,645 is about 53.7% of the 2009 count. However, the

2010 fall Chinook jack count is about 1.27 times greater than the 10 year average. The 2010 McNary Dam adult fall Chinook count of 160,237 is about 1.76 times greater than the 2009 count and about 1.64 times greater than the 10 year average. The 2010 fall Chinook jack McNary Dam jack count of 22,373 is about 39.9% of the 2009 count, while being 1.01 times greater than the 10 year average. The 2010 Lower Granite fall Chinook adult dam count of 31,187 is about 2.45 times greater than the 2009 count and 3.41 times greater than the 10 year average.

Daily steelhead counts at Bonneville Dam for the past week ranged between 3,570 and 5,477. The Bonneville Dam 2010 steelhead count of 403,207 is about 68.9% of the 2009 count of 584,650. However, the 2010 steelhead count is about 1.05 times greater than of the 10 year average of 382,639. At Willamette Falls Dam, the 2010 count for steelhead was 29,173, as of September 26th. This year's steelhead count is about 1.67 times greater than the 2009 count of 17,479 at Willamette Falls Dam for the same date range.

During this time of year, there are times when there are higher steelhead counts at upstream projects compared to downstream projects. The higher counts of steelhead at upstream sites compared to downstream sites in any particular year is because some steelhead spend the winter between sites, for instance between Ice Harbor and Lower Granite, and then start their migration upstream the following year. The summer steelhead run is delineated according to dates of passage past Bonneville Dam and is made up of two components. A-run steelhead are considered those that pass Bonneville Dam from the first of June through August 25th and B-run steelhead pass Bonneville from August 26th through October. The 2010 B-run adult steelhead count at Bonneville of 99,119 is about 70.5% of the 2009 count of 140,664 and about 79.3% of the 10 year average count of 124,943.

In the Snake River, this year's Lower Granite steelhead count of 134,922 is about 75.4% of the 2009 count, while being about 1.36 times greater than the 10 year average count of 98,869. The 2010 LGR wild steelhead count as of September 30th was 41,543. The 2010 Rock Island Dam adult steelhead count of 20,473 is about 60.8% of the 2009 count, while being 1.29 times greater than the 10 year average.

The 2010 adult coho count at Bonneville Dam is 56,208 adults and 5,105 jacks. The Bonneville 2010 adult coho count is about 41.4% of the 2009 count and about 60.7% of the 10 year average. The Bonneville

2010 coho jack count is about 82.6% of the 2009 count of 6,177 and about 94.8% of the 10 year average count of 5,385.

**Hatchery Releases Last Two Weeks**

**There were no hatchery releases from 09/17/10-10/01/10.**

**Hatchery Releases Next Two Weeks**

**Hatchery Release Summary**

From:		10/1/2010	to	10/14/2010					
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2011	15,000	10-01-10	10-07-10	Alturas Lake	Salmon River (ID)
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2011	15,000	10-01-10	10-07-10	Pettit Lake	Salmon River (ID)
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2011	45,000	10-01-10	10-07-10	Redfish Lake	Salmon River (ID)
<b>Idaho Dept. of Fish and Game</b>									
<b>Total</b>					<b>75,000</b>				
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	SP	2011	75,000	10-02-10	10-15-10	Newsome Creek	S Fk Clearwater River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	SP	2011	150,000	10-01-10	10-14-10	Lolo Creek	Clearwater River M F
<b>Nez Perce Tribe Total</b>					<b>225,000</b>				
<b>Grand Total</b>					<b>300,000</b>				

CH = Chinook, ST = Steelhead, CO = Coho, SO = Sockeye, CT = Cutthroat Trout, CM = Chum

**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
09/17/2010	46.2	0.2	49.3	0.0	48.0	0.0	48.3	0.0	50.6	0.0	53.9	1.1	52.8	1.0
09/18/2010	48.4	0.2	46.9	0.0	47.2	0.0	45.8	0.0	47.3	0.0	42.7	1.3	40.2	1.0
09/19/2010	41.0	0.2	42.6	0.0	41.7	0.0	39.3	0.0	42.3	0.0	40.6	1.6	38.5	1.0
09/20/2010	56.4	0.2	57.7	0.0	54.2	0.0	54.9	0.0	56.9	0.0	48.7	1.8	43.5	1.0
09/21/2010	57.3	0.2	58.6	0.0	62.9	0.0	65.8	0.0	68.5	0.0	74.6	1.9	68.0	1.0
09/22/2010	57.2	0.2	54.4	0.0	57.6	0.0	58.8	0.0	61.1	0.0	65.6	1.8	62.9	1.0
09/23/2010	56.7	0.2	57.3	0.0	58.3	0.0	58.3	0.0	60.6	0.0	66.5	1.9	64.8	0.9
09/24/2010	58.3	0.2	58.3	0.0	62.6	0.0	65.1	0.0	67.8	0.0	70.5	1.8	64.8	1.0
09/25/2010	51.6	0.2	51.7	0.0	54.6	0.0	55.8	0.0	58.7	0.0	58.1	1.8	54.9	1.0
09/26/2010	51.2	0.2	51.9	0.0	51.0	0.0	50.5	0.0	53.1	0.0	53.7	1.9	49.1	1.0
09/27/2010	72.8	0.2	70.9	0.0	72.0	0.0	73.8	0.0	76.2	0.0	77.1	1.9	74.4	1.0
09/28/2010	55.7	0.2	60.6	0.0	63.3	0.0	64.5	0.0	67.8	0.0	76.6	2.0	71.7	1.0
09/29/2010	65.6	0.2	65.7	0.0	69.2	0.0	73.0	0.0	74.9	0.0	78.6	1.9	74.5	1.0
09/30/2010	61.2	0.0	59.8	0.0	63.6	0.0	63.6	0.0	67.3	0.0	77.6	1.6	74.6	1.0

**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
09/17/2010	2.4	0.0	10.8	14.0	24.0	0.0	25.6	0.0	25.4	0.0	29.8	0.0
09/18/2010	2.4	0.0	10.5	12.9	24.9	0.0	22.3	0.0	21.9	0.0	20.2	0.0
09/19/2010	1.6	0.0	9.8	9.0	22.9	0.0	22.7	0.0	22.6	0.0	23.4	0.0
09/20/2010	1.6	0.0	11.1	15.0	16.4	0.0	15.9	0.0	15.6	0.0	10.7	0.0
09/21/2010	1.9	0.0	11.1	15.0	23.0	0.0	21.3	0.0	15.0	0.0	14.2	0.0
09/22/2010	2.4	0.0	10.8	12.4	25.1	0.0	14.9	0.0	14.9	0.0	16.1	0.0
09/23/2010	1.6	0.0	11.4	14.4	21.4	0.0	21.5	0.0	22.0	0.0	22.5	0.0
09/24/2010	1.6	0.0	11.0	15.4	23.1	0.0	22.3	0.0	22.4	0.0	24.1	0.0
09/25/2010	1.6	0.0	11.3	14.4	16.9	0.0	13.2	0.0	12.7	0.0	10.9	0.0
09/26/2010	1.6	0.0	11.1	13.0	18.8	0.0	13.5	0.0	13.1	0.0	10.5	0.0
09/27/2010	1.6	0.0	11.7	16.5	24.0	0.0	23.3	0.0	24.2	0.0	24.9	0.0
09/28/2010	1.6	0.0	11.7	15.3	21.1	0.0	20.5	0.0	22.1	0.0	22.1	0.0
09/29/2010	1.6	0.0	11.1	15.3	29.0	0.0	28.3	0.0	29.3	0.0	30.0	0.0
09/30/2010	1.6	0.0	---	---	20.8	0.0	19.2	0.0	19.6	0.0	22.2	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		
09/17/2010	87.2	0.0	91.5	0.8	94.8	0.0	104.6	1.4	11.2	84.6
09/18/2010	76.4	0.0	71.9	0.8	75.5	0.0	82.1	1.4	0.0	73.3
09/19/2010	60.8	0.0	64.0	0.8	67.8	0.0	77.8	1.4	0.0	69.1
09/20/2010	63.6	0.0	60.0	0.9	62.6	0.0	77.2	1.4	0.2	68.3
09/21/2010	86.2	0.0	84.1	0.9	89.2	0.0	93.7	1.3	8.1	76.9
09/22/2010	87.6	0.0	85.5	0.8	89.2	0.0	95.8	1.5	6.4	80.8
09/23/2010	76.5	0.0	76.2	0.8	79.3	0.0	86.6	1.4	1.1	76.7
09/24/2010	85.2	0.0	77.8	0.8	77.8	0.0	87.3	1.4	2.7	75.8
09/25/2010	75.3	0.0	78.6	0.8	83.5	0.0	90.0	1.3	1.7	79.6
09/26/2010	74.1	0.0	73.5	0.8	75.3	0.0	75.9	1.4	0.0	67.1
09/27/2010	97.1	0.0	89.4	0.9	93.7	0.0	102.0	1.4	16.8	76.4
09/28/2010	92.7	0.0	90.2	0.7	95.4	0.0	103.7	1.4	10.8	84.1
09/29/2010	94.6	0.0	96.4	0.8	97.8	0.0	103.9	1.4	16.9	78.2
09/30/2010	105.9	0.0	98.8	0.7	100.9	0.0	110.7	1.4	23.9	78.0

## 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>		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
9/17	101.4	101.6	101.8	24	104.2	104.9	105.5	21	100.8	101.0	101.1	24	103.8	104.0	104.5	21	105.0	105.3	105.5	24
9/18	101.6	101.9	102.1	24	103.8	104.4	105.3	24	101.7	102.2	102.6	24	103.6	103.9	104.2	24	103.8	104.1	104.7	24
9/19	102.7	103.2	103.6	24	103.2	103.5	103.8	23	102.7	102.9	102.9	24	104.4	104.8	105.5	23	103.5	103.7	103.9	24
9/20	102.4	102.7	103.0	24	103.5	103.9	104.2	24	102.1	102.2	102.4	24	103.8	104.3	104.7	24	103.6	103.9	104.1	24
9/21	102.1	102.2	102.5	24	103.2	103.6	104.2	21	101.5	101.6	101.8	24	102.9	103.2	103.4	21	102.7	103.0	103.2	24
9/22	102.4	102.8	103.1	24	103.1	103.6	104.0	22	101.4	101.6	101.7	24	102.2	102.7	103.2	22	102.3	102.6	102.8	24
9/23	102.0	102.2	102.5	24	101.8	102.0	102.6	23	101.1	101.3	101.5	24	101.5	101.7	102.1	23	101.5	101.8	102.2	24
9/24	101.4	101.6	101.8	24	101.0	101.1	101.4	24	100.1	100.3	100.5	24	100.5	100.8	101.2	24	100.6	100.8	100.9	24
9/25	101.2	101.4	101.6	24	101.8	102.6	103.0	21	100.3	100.8	101.1	24	100.5	101.0	101.5	21	100.6	101.1	101.3	24
9/26	101.4	101.6	101.8	24	102.6	103.0	103.2	24	100.9	101.0	101.1	24	100.9	101.1	101.4	24	100.7	101.0	101.5	24
9/27	101.5	101.8	101.9	24	102.7	103.1	103.6	23	100.6	100.7	100.8	24	100.8	101.1	101.8	23	100.4	100.7	101.0	24
9/28	102.1	102.5	102.7	24	104.8	107.3	110.6	24	100.8	101.0	101.1	24	100.9	101.3	102.0	24	100.3	100.7	100.9	24
9/29	101.9	102.2	102.8	24	102.7	103.4	107.7	21	100.4	100.9	101.6	24	98.8	99.5	100.1	21	99.8	100.2	100.6	24
9/30	101.9	102.2	102.5	24	102.3	102.9	103.2	24	100.4	100.6	100.7	24	97.3	97.7	98.2	24	99.7	100.1	100.2	24

### 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>		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
9/17	106.1	107.5	109.9	24	105.7	106.2	106.7	24	105.8	106.4	107.1	24	---	---	---	0	---	---	---	0
9/18	105.4	106.5	107.7	24	105.8	106.5	107.3	24	105.9	106.5	106.9	24	---	---	---	0	---	---	---	0
9/19	105.5	106.6	108.3	24	106.0	106.3	106.8	24	106.3	106.7	107.3	24	---	---	---	0	---	---	---	0
9/20	105.1	106.3	108.5	24	104.8	105.1	105.4	24	105.4	105.8	106.3	24	---	---	---	0	---	---	---	0
9/21	103.4	104.3	105.3	24	103.3	103.6	103.8	24	103.9	104.6	105.6	24	---	---	---	0	---	---	---	0
9/22	102.8	103.6	105.0	24	103.1	103.8	104.4	24	103.4	104.2	104.7	24	---	---	---	0	---	---	---	0
9/23	102.4	103.1	104.7	24	102.1	102.4	103.0	24	102.6	103.1	104.2	24	---	---	---	0	---	---	---	0
9/24	101.1	102.0	103.4	24	101.1	101.4	101.5	24	101.3	101.8	102.2	24	---	---	---	0	---	---	---	0
9/25	101.1	102.4	103.6	24	101.5	102.5	103.1	24	101.1	102.2	102.8	24	---	---	---	0	---	---	---	0
9/26	101.2	102.1	103.6	24	101.9	102.6	103.1	24	101.5	102.4	102.9	24	---	---	---	0	---	---	---	0
9/27	100.8	101.2	101.7	24	102.0	102.5	103.0	24	102.4	103.2	103.7	24	---	---	---	0	---	---	---	0
9/28	101.5	102.5	104.6	24	101.9	102.4	102.9	24	102.2	102.9	103.4	24	---	---	---	0	---	---	---	0
9/29	100.3	100.8	102.1	24	101.1	101.6	102.2	24	101.2	101.9	102.6	24	---	---	---	0	---	---	---	0
9/30	100.5	101.2	101.6	24	100.8	101.2	101.6	24	101.2	101.9	102.4	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>		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
9/17	---	---	---	0	---	---	---	0	101.2	102.4	103.2	24	103.2	104.2	107.8	24	101.3	101.5	101.6	24
9/18	---	---	---	0	---	---	---	0	100.3	101.8	103.3	24	102.9	103.3	104.1	24	101.4	101.5	101.6	24
9/19	---	---	---	0	---	---	---	0	100.0	101.9	102.9	24	103.0	103.4	104.0	24	101.9	102.0	102.2	24
9/20	---	---	---	0	---	---	---	0	100.8	102.2	102.6	24	102.7	103.4	104.1	24	101.3	101.4	101.7	24
9/21	---	---	---	0	---	---	---	0	102.0	103.1	103.9	24	102.3	102.6	103.6	24	100.5	100.9	101.2	24
9/22	---	---	---	0	---	---	---	0	101.9	102.7	103.2	24	102.3	102.8	103.8	24	101.5	101.7	101.9	24
9/23	---	---	---	0	---	---	---	0	101.3	101.6	102.8	24	101.9	102.2	102.6	24	101.0	101.4	101.8	24
9/24	---	---	---	0	---	---	---	0	100.5	101.0	101.4	24	101.4	101.7	102.1	24	100.5	100.7	100.8	24
9/25	---	---	---	0	---	---	---	0	102.0	103.2	103.5	24	102.0	102.7	103.5	24	101.2	101.7	102.0	24
9/26	---	---	---	0	---	---	---	0	102.1	102.6	102.8	24	102.3	102.9	103.8	24	101.9	102.0	102.2	24
9/27	---	---	---	0	---	---	---	0	103.3	103.8	104.4	24	102.3	102.7	103.2	24	101.8	102.1	102.4	24
9/28	---	---	---	0	---	---	---	0	103.3	103.8	104.2	24	103.1	103.5	103.9	24	102.7	103.2	103.6	24
9/29	---	---	---	0	---	---	---	0	101.7	102.6	103.3	24	102.5	102.8	103.2	24	102.5	103.2	103.7	24
9/30	---	---	---	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	Priest R. Dnst			#	Pasco			#	Dworshak			#	Clrwr-Peck			#	Anatone			#
	24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
9/17	103.7	103.9	104.2	24	---	---	---	0	99.8	100.2	100.8	24	---	---	---	0	---	---	---	0
9/18	104.0	104.4	104.8	24	---	---	---	0	99.9	100.3	101.0	24	---	---	---	0	---	---	---	0
9/19	104.2	104.3	104.6	24	---	---	---	0	103.9	104.9	105.6	24	---	---	---	0	---	---	---	0
9/20	103.7	104.1	104.6	24	---	---	---	0	104.7	105.4	106.0	24	---	---	---	0	---	---	---	0
9/21	103.0	103.3	103.7	24	---	---	---	0	104.3	106.6	111.5	24	---	---	---	0	---	---	---	0
9/22	103.3	103.7	104.1	24	---	---	---	0	100.8	101.3	102.1	24	---	---	---	0	---	---	---	0
9/23	102.7	103.0	103.4	24	---	---	---	0	104.6	105.9	107.0	24	---	---	---	0	---	---	---	0
9/24	102.0	102.3	102.5	24	---	---	---	0	103.7	103.7	104.5	9	---	---	---	0	---	---	---	0
9/25	103.1	103.8	104.0	24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/26	103.7	103.9	104.0	24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/27	103.4	103.6	103.7	24	---	---	---	0	104.3	104.6	105.5	15	---	---	---	0	---	---	---	0
9/28	104.0	104.3	104.6	24	---	---	---	0	104.0	104.8	105.9	24	---	---	---	0	---	---	---	0
9/29	103.8	104.2	104.3	24	---	---	---	0	103.9	104.6	105.7	24	---	---	---	0	---	---	---	0
9/30	---	---	---	0	---	---	---	0	103.4	103.4	104.2	11	---	---	---	0	---	---	---	0

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

Date	Clrwr-Lewiston			#	Lower Granite			#	L. Granite Tlwr			#	Little Goose			#	L. Goose Tlwr			#
	24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
9/17	---	---	---	0	---	---	---	0	99.7	100.3	100.8	24	---	---	---	0	99.0	99.7	99.9	24
9/18	---	---	---	0	---	---	---	0	99.6	100.0	100.2	24	---	---	---	0	99.0	99.3	99.6	24
9/19	---	---	---	0	---	---	---	0	99.8	100.0	100.4	24	---	---	---	0	98.8	99.0	99.2	24
9/20	---	---	---	0	---	---	---	0	99.6	100.1	100.4	24	---	---	---	0	97.7	98.1	98.5	24
9/21	---	---	---	0	---	---	---	0	99.5	99.7	99.8	24	---	---	---	0	97.6	98.2	98.5	24
9/22	---	---	---	0	---	---	---	0	99.3	99.5	100.2	24	---	---	---	0	98.9	99.3	99.7	24
9/23	---	---	---	0	---	---	---	0	98.5	98.8	99.3	24	---	---	---	0	98.4	98.7	99.5	24
9/24	---	---	---	0	---	---	---	0	97.3	97.6	98.3	24	---	---	---	0	97.3	97.5	97.8	24
9/25	---	---	---	0	---	---	---	0	97.6	98.6	99.8	24	---	---	---	0	97.2	97.4	97.9	24
9/26	---	---	---	0	---	---	---	0	97.8	98.0	98.3	24	---	---	---	0	97.6	97.8	98.2	24
9/27	---	---	---	0	---	---	---	0	97.2	97.4	97.7	24	---	---	---	0	98.1	98.7	99.2	24
9/28	---	---	---	0	---	---	---	0	96.4	96.6	97.0	24	---	---	---	0	98.3	99.0	99.5	24
9/29	---	---	---	0	---	---	---	0	96.7	97.5	98.2	24	---	---	---	0	98.6	99.4	99.9	24
9/30	---	---	---	0	---	---	---	0	97.7	98.5	99.1	24	---	---	---	0	99.1	100.1	100.7	24

### 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 Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
9/17	---	---	---	0	99.0	99.4	99.7	24	---	---	---	0	101.4	101.8	102.3	24	---	---	---	0
9/18	---	---	---	0	99.1	99.4	99.9	24	---	---	---	0	101.8	102.2	102.5	24	---	---	---	0
9/19	---	---	---	0	98.8	99.2	100.3	24	---	---	---	0	101.3	101.6	101.7	24	---	---	---	0
9/20	---	---	---	0	98.1	98.6	100.2	24	---	---	---	0	101.0	101.4	102.1	24	---	---	---	0
9/21	---	---	---	0	98.5	99.0	100.2	24	---	---	---	0	101.0	101.5	102.2	24	---	---	---	0
9/22	---	---	---	0	98.6	99.0	99.3	24	---	---	---	0	101.0	101.5	102.2	24	---	---	---	0
9/23	---	---	---	0	97.7	98.0	98.5	24	---	---	---	0	99.4	99.8	99.9	24	---	---	---	0
9/24	---	---	---	0	97.2	97.5	98.1	24	---	---	---	0	98.9	99.2	99.4	24	---	---	---	0
9/25	---	---	---	0	97.2	97.8	98.7	24	---	---	---	0	99.9	101.1	101.7	24	---	---	---	0
9/26	---	---	---	0	97.3	97.7	98.3	24	---	---	---	0	100.3	100.7	101.2	24	---	---	---	0
9/27	---	---	---	0	96.9	97.2	98.6	24	---	---	---	0	99.2	99.4	99.6	24	---	---	---	0
9/28	---	---	---	0	97.4	97.9	98.7	24	---	---	---	0	99.5	100.2	101.3	24	---	---	---	0
9/29	---	---	---	0	97.7	98.3	99.6	24	---	---	---	0	99.5	100.2	101.0	24	---	---	---	0
9/30	---	---	---	0	98.1	98.8	99.4	24	---	---	---	0	100.5	101.5	102.0	24	---	---	---	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 River Sites

Date	McNary-Wash			#	McNary Tlwr			#	John Day			#	John Day Tlwr			#	The Dalles			#
	24 h	12 h			24 h	12 h			24h	12h			24h	12h			24h	12h		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
9/17	---	---	---	0	101.6	102.1	102.5	24	100.2	101.1	101.7	24	100.9	101.3	101.7	24	99.6	99.8	100.0	24
9/18	---	---	---	0	101.6	102.1	102.4	24	101.2	101.9	102.8	24	101.8	102.3	103.3	24	100.0	100.3	100.7	24
9/19	---	---	---	0	101.6	101.8	102.0	24	101.6	102.2	102.9	24	102.4	103.4	103.9	24	100.2	100.4	100.7	24
9/20	---	---	---	0	100.8	101.1	101.3	24	99.8	100.2	100.7	24	102.7	103.2	104.0	24	100.2	100.4	100.7	24
9/21	---	---	---	0	100.5	101.0	101.6	24	99.7	100.1	100.3	24	101.6	102.1	104.2	24	100.2	100.4	100.5	24
9/22	---	---	---	0	100.7	101.0	101.3	24	99.7	99.9	100.0	24	101.1	101.4	101.7	24	99.9	100.1	100.3	24
9/23	---	---	---	0	99.7	100.0	100.2	24	98.8	99.0	99.3	24	100.6	101.0	101.2	24	99.0	99.3	99.7	24
9/24	---	---	---	0	98.8	98.9	99.0	24	98.1	98.2	98.4	24	99.4	99.6	99.9	24	98.3	98.4	98.6	24
9/25	---	---	---	0	98.9	99.3	99.6	24	98.6	98.9	99.1	24	100.8	101.5	102.1	24	98.8	99.3	99.6	24
9/26	---	---	---	0	99.1	99.4	99.7	24	98.6	98.7	98.8	24	100.9	101.3	101.6	24	99.2	99.3	99.5	24
9/27	---	---	---	0	99.4	99.7	100.0	24	98.3	98.3	98.4	12	100.5	101.0	101.9	24	99.3	99.6	99.7	24
9/28	---	---	---	0	99.5	99.8	100.2	24	---	---	---	0	100.4	101.1	102.0	24	99.6	99.6	99.6	10
9/29	---	---	---	0	100.3	101.2	101.5	24	---	---	---	0	100.2	100.5	100.9	24	---	---	---	0
9/30	---	---	---	0	100.9	101.3	101.6	24	---	---	---	0	100.9	101.2	101.5	24	---	---	---	0

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	The Dalles Dnst			#	Bonneville			#	Warrendale			#	Camas\Washougal			#	Cascade Island			#
	24 h	12 h			24 h	12 h			24h	12h			24h	12h			24h	12h		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
9/17	101.4	101.7	102.1	24	101.6	101.9	102.0	24	103.8	104.2	104.6	24	103.3	103.4	103.6	24	112.0	113.8	116.2	24
9/18	101.6	102.0	102.3	24	101.3	101.5	101.7	24	102.6	103.1	103.6	24	102.8	103.0	103.2	24	113.9	116.6	119.4	24
9/19	102.1	102.3	102.7	24	101.2	101.4	101.6	24	102.8	103.2	103.8	24	102.4	102.6	102.8	24	115.1	119.1	122.3	24
9/20	102.3	102.5	102.6	24	100.6	100.8	100.9	24	101.9	102.1	102.4	24	101.7	101.9	102.4	24	113.9	117.7	120.3	24
9/21	102.3	102.5	102.9	24	100.1	100.1	100.4	12	102.4	103.3	104.1	24	102.0	102.7	103.0	24	116.5	116.5	119.6	11
9/22	101.5	101.6	101.7	24	---	---	---	0	102.2	102.7	103.3	24	102.0	102.4	102.6	24	---	---	---	0
9/23	101.0	101.2	101.4	24	---	---	---	0	102.4	102.7	102.9	24	101.1	101.3	102.0	24	---	---	---	0
9/24	100.3	100.7	100.9	24	---	---	---	0	102.0	102.6	103.1	24	101.2	101.6	101.8	24	---	---	---	0
9/25	100.9	101.3	101.5	24	---	---	---	0	102.6	103.6	104.5	24	101.8	102.4	102.8	24	---	---	---	0
9/26	101.4	101.7	102.0	24	---	---	---	0	102.5	102.8	103.3	24	102.3	102.5	102.6	24	---	---	---	0
9/27	101.2	101.5	102.0	24	---	---	---	0	103.9	104.9	105.9	24	102.5	103.4	103.8	24	---	---	---	0
9/28	101.5	102.1	102.5	24	---	---	---	0	103.6	104.0	104.3	24	103.4	103.6	103.7	24	---	---	---	0
9/29	101.8	102.3	102.6	24	---	---	---	0	103.5	103.9	104.5	24	103.1	103.1	103.4	9	---	---	---	0
9/30	101.8	102.3	102.5	24	---	---	---	0	103.5	104.1	104.8	24	---	---	---	0	---	---	---	0



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)
09/17/2010	---	---	---	---	0	1	0	---	0	---	0
09/18/2010	---	---	---	---	0	0	0	---	0	---	0
09/19/2010	---	---	---	---	1	0	0	---	0	---	0
09/20/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/21/2010	---	---	---	---	2	0	1	---	0	---	0
09/22/2010 *	---	---	---	---	2	0	0	---	0	---	0
09/23/2010 *	---	---	---	---	1	0	0	---	0	---	0
09/24/2010	---	---	---	---	0	0	0	---	0	---	0
09/25/2010	---	---	---	---	0	0	0	---	0	---	0
09/26/2010 *	---	---	---	---	1	0	0	---	0	---	0
09/27/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/28/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/29/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/30/2010 *	---	---	---	---	---	0	---	---	0	---	0
10/01/2010	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>1</b>	<b>1</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>13</b>	<b>14</b>	<b>13</b>	<b>0</b>	<b>14</b>	<b>0</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>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>YTD</b>	<b>56,130</b>	<b>80,004</b>	<b>27,916</b>	<b>7,995</b>	<b>2,452,579</b>	<b>1,260,531</b>	<b>452,094</b>	<b>11,800</b>	<b>2,093,842</b>	<b>1,034,554</b>	<b>2,302,148</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)
09/17/2010	---	---	---	---	942	15	10	---	615	---	403
09/18/2010	---	---	---	---	1,363	13	4	---	420	---	351
09/19/2010	---	---	---	---	1,139	14	6	---	240	---	214
09/20/2010 *	---	---	---	---	826	12	13	---	240	---	204
09/21/2010	---	---	---	---	316	40	4	---	170	---	235
09/22/2010 *	---	---	---	---	149	7	4	---	730	---	250
09/23/2010 *	---	---	---	---	231	10	0	---	255	---	219
09/24/2010	---	---	---	---	152	7	3	---	105	---	204
09/25/2010	---	---	---	---	140	11	8	---	220	---	153
09/26/2010 *	---	---	---	---	159	8	11	---	120	---	156
09/27/2010 *	---	---	---	---	181	15	9	---	90	---	52
09/28/2010 *	---	---	---	---	179	16	37	---	145	---	164
09/29/2010 *	---	---	---	---	103	51	100	---	110	---	161
09/30/2010 *	---	---	---	---	---	28	---	---	105	---	50
10/01/2010	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,880</b>	<b>247</b>	<b>209</b>	<b>0</b>	<b>3,565</b>	<b>0</b>	<b>2,816</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>14</b>	<b>13</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>452</b>	<b>18</b>	<b>16</b>	<b>0</b>	<b>255</b>	<b>0</b>	<b>201</b>
<b>YTD</b>	<b>0</b>	<b>42</b>	<b>28</b>	<b>1,275</b>	<b>1,032,385</b>	<b>1,308,497</b>	<b>770,946</b>	<b>23,361</b>	<b>3,906,710</b>	<b>2,240,563</b>	<b>5,112,822</b>

Two-Week Summary of Passage Indices

Date	COMBINED COHO										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
09/17/2010	---	---	---	---	0	0	0	---	0	---	0
09/18/2010	---	---	---	---	0	0	0	---	0	---	0
09/19/2010	---	---	---	---	1	0	0	---	0	---	0
09/20/2010 *	---	---	---	---	3	1	0	---	0	---	0
09/21/2010	---	---	---	---	0	0	0	---	0	---	0
09/22/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/23/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/24/2010	---	---	---	---	0	0	0	---	0	---	0
09/25/2010	---	---	---	---	0	0	0	---	0	---	0
09/26/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/27/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/28/2010 *	---	---	---	---	0	1	0	---	0	---	0
09/29/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/30/2010 *	---	---	---	---	---	0	---	---	0	---	0
10/01/2010	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>2</b>	<b>0</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>13</b>	<b>14</b>	<b>13</b>	<b>0</b>	<b>14</b>	<b>0</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>0</b>	<b>0</b>	<b>0</b>	<b>104</b>	<b>40,186</b>	<b>53,916</b>	<b>13,604</b>	<b>41,441</b>	<b>85,780</b>	<b>111,181</b>	<b>524,805</b>

Date	COMBINED STEELHEAD										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
09/17/2010	---	---	---	---	1	0	0	---	0	---	0
09/18/2010	---	---	---	---	0	0	0	---	0	---	0
09/19/2010	---	---	---	---	0	1	0	---	0	---	0
09/20/2010 *	---	---	---	---	1	0	0	---	0	---	0
09/21/2010	---	---	---	---	0	0	0	---	0	---	0
09/22/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/23/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/24/2010	---	---	---	---	0	0	0	---	0	---	0
09/25/2010	---	---	---	---	0	0	0	---	0	---	0
09/26/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/27/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/28/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/29/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/30/2010 *	---	---	---	---	---	0	---	---	0	---	0
10/01/2010	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</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>13</b>	<b>14</b>	<b>13</b>	<b>0</b>	<b>14</b>	<b>0</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>4,385</b>	<b>27,688</b>	<b>4,051</b>	<b>11,795</b>	<b>2,045,803</b>	<b>1,594,187</b>	<b>427,857</b>	<b>17,309</b>	<b>448,234</b>	<b>594,822</b>	<b>942,451</b>

## 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)
09/17/2010	---	---	---	---	0	0	0	---	5	---	0
09/18/2010	---	---	---	---	0	0	0	---	0	---	0
09/19/2010	---	---	---	---	0	2	0	---	0	---	0
09/20/2010 *	---	---	---	---	1	0	0	---	0	---	0
09/21/2010	---	---	---	---	0	0	0	---	0	---	0
09/22/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/23/2010 *	---	---	---	---	1	0	0	---	0	---	0
09/24/2010	---	---	---	---	2	0	0	---	0	---	0
09/25/2010	---	---	---	---	0	0	0	---	0	---	0
09/26/2010 *	---	---	---	---	0	0	0	---	0	---	0
09/27/2010 *	---	---	---	---	2	0	0	---	0	---	0
09/28/2010 *	---	---	---	---	2	0	0	---	0	---	0
09/29/2010 *	---	---	---	---	1	0	0	---	0	---	0
09/30/2010 *	---	---	---	---	---	0	---	---	0	---	0
10/01/2010	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>2</b>	<b>0</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>13</b>	<b>14</b>	<b>13</b>	<b>0</b>	<b>14</b>	<b>0</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>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>YTD</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>188</b>	<b>8,787</b>	<b>12,828</b>	<b>2,204</b>	<b>36,508</b>	<b>1,469,165</b>	<b>656,084</b>	<b>803,520</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.

### 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)}

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.

### Two Week Transportation Summary

Source: Fish Passage Center

Updated:

10/1/10 9:57 AM

		09/17/10 TO 10/01/10						
		Species						
Site	Data	CH0	CH1	CO	ST	SO	Grand Total	
<b>LGR</b>	Sum of NumberCollected	5,880	7	4	2	9	5,902	
	Sum of NumberBarged	0	0	0	0	0	0	
	Sum of NumberBypassed	2,339	0	0	0	0	2,339	
	Sum of Numbertrucked	3,652	7	4	2	9	3,674	
	Sum of SampleMorts	40	0	0	0	1	41	
	Sum of FacilityMorts	14	0	0	0	0	14	
	Sum of ResearchMorts	0	0	0	0	0	0	
	Sum of TotalProjectMorts	54	0	0	0	1	55	
<b>LGS</b>	Sum of NumberCollected	247	1	2	1	2	253	
	Sum of NumberBarged	0	0	0	0	0	0	
	Sum of NumberBypassed	0	0	0	0	0	0	
	Sum of Numbertrucked	225	1	2	2	2	232	
	Sum of SampleMorts	7	0	0	0	0	7	
	Sum of FacilityMorts	0	0	0	0	0	0	
	Sum of ResearchMorts	0	0	0	0	0	0	
	Sum of TotalProjectMorts	7	0	0	0	0	7	
<b>LMN</b>	Sum of NumberCollected	209	1				210	
	Sum of NumberBarged	0	0				0	
	Sum of NumberBypassed	0	0				0	
	Sum of Numbertrucked	202	1				203	
	Sum of SampleMorts	9	0				9	
	Sum of FacilityMorts	0	0				0	
	Sum of ResearchMorts	0	0				0	
	Sum of TotalProjectMorts	9	0				9	
<b>MCN</b>	Sum of NumberCollected	3,565				5	3,570	
	Sum of NumberBarged	0				0	0	
	Sum of NumberBypassed	0				0	0	
	Sum of Numbertrucked	3,509				5	3,514	
	Sum of SampleMorts	11				0	11	
	Sum of FacilityMorts	45				0	45	
	Sum of ResearchMorts	0				0	0	
	Sum of TotalProjectMorts	56				0	56	
Total Sum of NumberCollected		9,901	9	6	3	16	9,935	
Total Sum of NumberBarged		0	0	0	0	0	0	
Total Sum of NumberBypassed		2,339	0	0	0	0	2,339	
Total Sum of Numbertrucked		7,588	9	6	4	16	7,623	
Total Sum of SampleMorts		67	0	0	0	1	68	
Total Sum of FacilityMorts		59	0	0	0	0	59	
Total Sum of ResearchMorts		0	0	0	0	0	0	
Total Sum of TotalProjectMorts		126	0	0	0	1	127	

### Two Week Transportation Summary

Source: Fish Passage Center

Updated:

10/1/10 9:57 AM

		09/17/10	TO	10/01/10			
		Species					
Site	Data	CH0	CH1	CO	ST	SO	Grand Total
<b>LGR</b>	Sum of NumberCollected	5,880	7	4	2	9	5,902
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	2,339	0	0	0	0	2,339
	Sum of Numbertrucked	3,652	7	4	2	9	3,674
	Sum of SampleMorts	40	0	0	0	1	41
	Sum of FacilityMorts	14	0	0	0	0	14
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	54	0	0	0	1	55
<b>LGS</b>	Sum of NumberCollected	247	1	2	1	2	253
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	225	1	2	2	2	232
	Sum of SampleMorts	7	0	0	0	0	7
	Sum of FacilityMorts	0	0	0	0	0	0
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	7	0	0	0	0	7
<b>LMN</b>	Sum of NumberCollected	209	1				210
	Sum of NumberBarged	0	0				0
	Sum of NumberBypassed	0	0				0
	Sum of Numbertrucked	202	1				203
	Sum of SampleMorts	9	0				9
	Sum of FacilityMorts	0	0				0
	Sum of ResearchMorts	0	0				0
	Sum of TotalProjectMorts	9	0				9
<b>MCN</b>	Sum of NumberCollected	3,565				5	3,570
	Sum of NumberBarged	0				0	0
	Sum of NumberBypassed	0				0	0
	Sum of Numbertrucked	3,509				5	3,514
	Sum of SampleMorts	11				0	11
	Sum of FacilityMorts	45				0	45
	Sum of ResearchMorts	0				0	0
	Sum of TotalProjectMorts	56				0	56
Total Sum of NumberCollected		9,901	9	6	3	16	9,935
Total Sum of NumberBarged		0	0	0	0	0	0
Total Sum of NumberBypassed		2,339	0	0	0	0	2,339
Total Sum of Numbertrucked		7,588	9	6	4	16	7,623
Total Sum of SampleMorts		67	0	0	0	1	68
Total Sum of FacilityMorts		59	0	0	0	0	59
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		126	0	0	0	1	127

Cumulative Adult Passage at Mainstem Dams Through: 09/30

DAM	EndDate	Spring Chinook						Summer Chinook					
		2010		2009		10-Yr Avg.		2010		2009		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	09/30	244384	12612	114525	66631	167834	17301	97604	15603	81936	37416	82525	13362
TDA	09/30	189839	11546	93908	53646	121486	13792	81292	12528	79916	27878	72634	10423
JDA	09/30	179446	11794	76806	49733	101283	12037	70955	12475	65989	33147	66361	11207
MCN	09/30	153246	9178	70413	43328	93119	11340	66526	8063	57137	21182	62804	9141
IHR	09/30	101188	6047	55435	28223	64058	7222	29583	3503	23856	9400	15236	3378
LMN	09/30	97334	5898	66931	20009	63381	6004	35097	4362	23353	11733	15714	2947
LGS	09/29	92985	5461	52642	24331	58937	6617	32410	3968	20340	11207	12950	3477
LGR	09/30	94203	6409	49667	31064	59309	8137	28778	5294	14482	16367	12293	4233
PRD	09/29	30539	932	13469	2910	19097	834	49265	1217	49417	2117	55919	2554
RIS	09/29	29684	1513	12634	6003	15841	1581	47220	4018	44295	7727	52600	6133
RRH	09/29	8660	523	6090	1086	6208	510	34173	1724	34961	5231	40122	4303
WEL	09/29	7555	661	6307	1867	4866	487	26538	1856	25725	3800	29472	2340
WFA	09/26	64291	1679	25795	2719	-	-	-	-	-	-	-	-

DAM	EndDate	Fall Chinook					
		2010		2009		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack
BON	9/30	439481	58645	270779	109281	353800	46161
TDA	9/30	246042	44782	162966	87824	183949	35586
JDA	9/30	186537	38861	131165	75083	133797	30868
MCN	9/30	160237	22373	90896	56090	97899	22090
IHR	9/30	41141	8854	23168	36494	14319	9519
LMN	9/30	35299	11361	20957	35517	13119	8078
LGS	9/29	32761	7010	20059	26813	10694	5676
LGR	9/30	31187	8829	12722	33679	9130	7269
PRD	9/29	22215	2787	27517	4152	24161	4094
RIS	9/29	6252	2048	8608	2884	7736	2057
RRH	9/29	4332	1201	5636	1954	5269	1506
WEL	9/29	2166	841	2495	1667	2729	1068
WFA	9/26	554	66	1131	204	-	-

DAM	Coho						Sockeye			Steelhead			
	2010		2009		10-Yr Avg.		2010	2009	10-Yr Avg.	2010	2009	10-Yr Avg.	Wild 2010
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	56208	5105	135562	6177	92546	5385	386523	177823	94584	403207	584650	382639	152201
TDA	19276	1896	32488	5642	22628	2714	325132	155591	80569	301655	456136	273794	111776
JDA	13104	1407	28905	4925	19293	3012	324124	157399	86670	242368	481465	250252	88427
MCN	8531	1078	15090	2729	9802	1214	278798	121675	69739	218911	315185	188296	74340
IHR	915	141	1151	203	811	52	1302	867	175	166515	229509	132138	47054
LMN	822	169	942	286	727	76	1656	1162	220	160319	209790	121127	48143
LGS	829	127	925	213	588	61	1659	1063	197	132509	178800	98299	38832
LGR	538	145	413	126	510	106	2201	1217	242	134922	178855	98869	41543
PRD	1369	185	3438	202	1703	224	357058	153466	88592	24703	35689	16869	0
RIS	2087	499	5686	1377	1802	214	338307	162830	85463	20473	33673	15839	9693
RRH	441	100	748	193	232	31	295634	133103	64322	15865	25544	11880	6600
WEL	85	0	191	1	27	0	291301	134935	65164	10772	21213	8600	4564
WFA	10508	1571	10783	1309	-	-	-	-	-	29173	17479	-	-

PRD does not post wild steelhead numbers.

These numbers were collected from USACE, Grant PUD, Douglas PUD, Chelan PUD, ODFW and DART.

Wild steelhead numbers are included in the total. Wild Steelhead are defined as unclipped fish.

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: 10/01/10

BON counts from January 1, 2010 to March 14, 2010 (historical counts begin March 15):

Year	Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
2009	39	0	2,318	657
2008	19	-1	321	109