



## Fish Passage Center

# Weekly Report #10 - 30

October 29, 2010

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### Summary of Events:

**This is the final weekly report for the 2010 season.**

**Water Supply:** Precipitation throughout the Columbia Basin has varied between 86% and 186% of average at individual sub-basins over October. Precipitation above The Dalles has been 123% of average over October. The 2011 Water Year began on October 1, 2010.

**Table 1. Summary of October precipitation and cumulative WY 2011 precipitation with respect to average (1971-2000), at select locations within the Columbia and Snake River Basins.**

Location	Water Year 2011 October 1-25		Water Year 2011 October 1, 2010 to October 25, 2010	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.32	88	1.32	88
SNAKE RIVER Above Ice Harbor	1.70	176	1.70	176
Columbia Above The Dalles	1.65	123	1.65	123
Kootenai	1.28	86	1.28	86
Clark Fork	1.18	124	1.18	124
Flathead	1.27	94	1.27	94
Pend Oreille/ Spokane	2.16	125	2.16	125
Central Washington	0.70	142	0.70	142
SNAKE RIVER Plain	1.29	186	1.29	186
Salmon/Boise/ Payette	1.82	182	1.82	182
Clearwater	2.38	136	2.38	136
SW Washington Cascades/Cowlitz	5.00	112	5.00	112
Willamette Valley	4.72	136	4.72	136

The Grand Coulee Reservoir is at 1288.8 feet (10-28-10) and refilled 0.2 feet over the last week. Daily average outflows at Grand Coulee have ranged between 48.0 and 71.8 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2441.5 feet (10-28-10) and refilled 0.1 feet last week. Daily average outflows at Libby Dam were 4.5 Kcfs over the past week.

Hungry Horse is currently at an elevation of 3538.5 feet (10-28-10) and has drafted 0.3 ft last week. Daily average outflows at Hungry Horse have been 1.0-1.7 Kcfs over the past week.

Dworshak is currently at an elevation of 1517.7 feet (10-28-10) and has refilled approximately 0.2 feet over the past week. Daily average outflows from Dworshak have been 1.6-2.1 Kcfs over the last week.

The Brownlee Reservoir was at an elevation of 2053.7 feet on October 28, 2010 refilling 4.3 feet last week. Over the past week, outflows at Brownlee have ranged between 7.3–9.7 Kcfs.

Hells Canyon outflows were reduced to 8.8-8.9 Kcfs on October 11, 2010 and have since remained at this discharge as part of the fall Chinook spawning operation.

### **Smolt Monitoring:**

Lower Granite, Little Goose and Bonneville dams continued to sample as of October 29. Sampling is scheduled to continue at all three sites through the end of October. Subyearling Chinook continued to predominate at all sites but indices decreased at Lower Granite Dam and Bonneville Dam over the past two weeks. While at Little Goose Dam subyearling Chinook indices increased over the past two weeks.

At Lower Granite Dam passage indices for subyearling Chinook averaged between 100 per day this week and 130 per day last week. Those numbers were down from the first two weeks of October when indices increased to over 1,000 per day on October 4 and 5, with the weekly average near 700 per day for the week October 1 to 7. At Little Goose Dam the index increased

over the past two weeks. The average index was about 75 per day last week but increased to over 150 per day this week. At Bonneville Dam the subyearling Chinook daily index averaged 100 per day last week down from the previous week when it averaged 190 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. There were no releases of juvenile salmonids scheduled for this zone over the past two weeks.

Furthermore, there are no other releases of juvenile salmonids scheduled for this zone over the next two weeks.

**Mid-Columbia Zone:** The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. Beginning on October 25<sup>th</sup>, approximately 240,000 sockeye pre-smolts were scheduled for release from the Lake Wenatchee Net Pens into Lake Wenatchee. This release is expected to run through November 5<sup>th</sup>. These sockeye pre-smolts are not expected to out-migrate until spring of 2011. There are no other 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 over the past two weeks. 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 187 to 296. The 2010 adult fall Chinook count of 466,356 is 1.65 times greater than the 2009 count and 1.25 times greater than the 10 average. The 2010 Bonneville Dam fall Chinook jack count of 64,177 is about 56% of the 2009 count. However, the 2010 fall Chinook jack count is about 1.26 times greater than the 10 year average. The 2010 McNary Dam adult fall Chinook count of 197,414 is about 1.89 times greater than the 2009 count and about 1.71 times greater than the 10 year average. The 2010 fall Chinook jack McNary Dam jack count of 27,372 is about 44.3% 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 41,145 is about 2.75 times greater than the 2009 count and 3.73 times greater than the 10

year average.

Daily steelhead counts at Bonneville Dam for the past week ranged between 65 and 119. The Bonneville Dam 2010 steelhead count of 411,852 is about 68.4% of the 2009 count of 601,669. However, the 2010 steelhead count is about 1.04 times greater than of the 10 year average of 396,790. At Willamette Falls Dam, the 2010 count for steelhead was 29,368, as of October 25<sup>th</sup>. This year's steelhead count is about 1.67 times greater than the 2009 count of 17,621 at Willamette Falls Dam for the same date range. The majority of the 261,049 steelhead at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor now at 205,388 for the season. This year's Lower Granite steelhead count of 196,584 is about 65.1% of the 2009 count, while being about 1.13 times greater than the 10 year average. The 2010 LGR wild steelhead count as of October 28<sup>th</sup> was 58,109. The 2010 Rock Island Dam adult steelhead count of 22,025 is about 58.8% of the 2009 count, while being 1.24 times greater than the 10 year average.

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 25<sup>th</sup> and B-run steelhead pass Bonneville from August 26<sup>th</sup> through October. The 2010 B-run adult steelhead count at Bonneville of 107,764 is about 68.3% of the 2009 count of 157,683 and about 77.5% of the 10 year average count of 139,094.

The 2010 adult coho count at Bonneville Dam is 115,221 adults and 6,843 jacks. The Bonneville 2010 adult coho count is about 52.6% of the 2009 count and about 89.7% of the 10 year average. The Bonneville 2010 coho jack count is about 72.3% of the 2009 count of 8,429 and about 92.3% of the 10 year average.

### Hatchery Releases Last Two Weeks

Hatchery Release Summary									
From:		10/15/2010		to		10/28/10			
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	SO	UN	2011	240,000	10-25-10	11-05-10	Lake Wenatchee	Wenatchee River
<b>Washington Dept. of Fish and Wildlife Total</b>					<b>240,000</b>				
<b>Grand Total</b>					<b>240,000</b>				

### Hatchery Releases Next Two Weeks

Hatchery Release Summary									
From:		10/29/2010		to		11/11/2010			
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	SO	UN	2011	240,000	10-25-10	11-05-10	Lake Wenatchee	Wenatchee River
<b>Washington Dept. of Fish and Wildlife Total</b>					<b>240,000</b>				
<b>Grand Total</b>					<b>240,000</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
10/15/2010	74.2	0.0	74.1	0.0	76.6	0.0	73.9	0.0	74.4	0.0	75.2	0.9	67.3	0.6
10/16/2010	67.4	0.0	64.1	0.0	65.7	0.0	67.6	0.0	70.6	0.0	68.4	1.1	69.7	0.7
10/17/2010	62.2	0.0	61.1	0.0	65.0	0.0	66.4	0.0	69.7	0.0	72.3	1.3	66.0	0.6
10/18/2010	70.8	0.0	70.3	0.0	72.1	0.0	74.7	0.0	76.8	0.0	82.7	1.2	80.3	0.7
10/19/2010	64.7	0.0	68.2	0.0	70.0	0.0	70.9	0.0	73.2	0.0	79.8	1.1	75.6	0.6
10/20/2010	52.7	0.0	52.8	0.0	51.7	0.0	52.1	0.0	54.8	0.0	59.6	1.1	60.6	0.4
10/21/2010	51.3	0.0	51.0	0.0	55.5	0.0	59.1	0.0	60.4	0.0	62.5	1.1	50.2	0.4
10/22/2010	59.9	0.0	62.5	0.0	64.1	0.0	62.5	0.0	62.9	0.0	58.7	1.3	59.5	0.9
10/23/2010	60.7	0.0	62.1	0.0	57.5	0.0	59.0	0.0	61.3	0.0	56.0	1.6	53.4	0.6
10/24/2010	48.0	0.0	47.2	0.0	50.2	0.0	52.5	0.0	54.5	0.0	70.0	1.6	68.9	0.5
10/25/2010	62.1	0.0	61.4	0.0	62.6	0.0	62.5	0.0	65.2	0.0	73.7	1.4	67.6	0.5
10/26/2010	71.8	0.0	75.5	0.0	75.5	0.0	74.7	0.0	77.2	0.0	66.5	1.4	61.6	0.6
10/27/2010	60.3	0.0	66.2	0.0	70.9	0.0	72.7	0.0	77.2	0.0	87.1	1.6	82.8	0.7
10/28/2010	68.3	0.0	62.7	0.0	64.4	0.0	66.4	0.0	67.9	0.0	73.3	1.4	71.5	0.7

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

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
10/15/2010	1.6	0.0	12.8	8.9	22.7	0.0	22.7	0.0	22.2	0.0	20.4	0.0
10/16/2010	1.6	0.0	11.7	8.8	17.1	0.0	12.8	0.0	13.1	0.0	13.5	0.0
10/17/2010	1.6	0.0	12.0	8.8	15.2	0.0	13.8	0.0	14.8	0.0	14.8	0.0
10/18/2010	1.6	0.0	11.7	8.8	21.1	0.0	20.7	0.0	22.1	0.0	23.4	0.0
10/19/2010	1.6	0.0	11.7	8.8	15.5	0.0	14.9	0.0	14.8	0.0	13.3	0.0
10/20/2010	1.6	0.0	11.6	8.9	18.7	0.0	17.5	0.0	18.9	0.0	20.7	0.0
10/21/2010	1.6	0.0	11.6	8.8	13.8	0.0	12.8	0.0	13.2	0.0	12.1	0.0
10/22/2010	1.6	0.0	11.8	8.9	20.2	0.0	19.0	0.0	18.9	0.0	18.4	0.0
10/23/2010	1.6	0.0	11.6	8.9	17.3	0.0	16.9	0.0	17.2	0.0	18.5	0.0
10/24/2010	1.6	0.0	12.4	8.9	15.2	0.0	14.2	0.0	15.4	0.0	13.9	0.0
10/25/2010	1.6	0.0	12.1	8.9	20.2	0.0	19.4	0.0	20.2	0.0	21.1	0.0
10/26/2010	1.6	0.0	13.3	8.9	21.4	0.0	20.5	0.0	20.2	0.0	18.6	0.0
10/27/2010	1.6	0.0	12.4	8.9	21.0	0.0	20.3	0.0	20.7	0.0	21.2	0.0
10/28/2010	2.1	0.0	---	---	21.3	0.0	17.9	0.0	19.4	0.0	19.4	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		
10/15/2010	94.0	0.0	97.0	0.7	98.8	0.0	113.4	1.3	21.4	83.3
10/16/2010	91.7	0.0	101.1	0.8	104.0	0.0	114.4	1.3	24.9	80.8
10/17/2010	82.4	0.0	88.0	0.8	91.0	0.0	101.7	1.3	8.4	84.6
10/18/2010	99.0	0.0	106.3	1.0	109.9	0.0	112.5	1.2	22.6	81.3
10/19/2010	103.4	0.0	100.5	1.0	104.2	0.0	108.2	1.3	16.3	83.3
10/20/2010	84.3	0.0	102.1	0.7	105.5	0.0	112.4	1.2	19.8	83.9
10/21/2010	83.8	0.0	79.3	0.8	80.7	0.0	92.4	1.3	1.1	82.6
10/22/2010	78.9	0.0	76.1	0.7	81.7	0.0	87.1	1.2	0.0	78.4
10/23/2010	74.8	0.0	75.9	0.7	77.3	0.0	85.0	1.3	0.0	76.4
10/24/2010	69.6	0.0	65.8	0.7	70.6	0.0	80.9	1.3	0.0	72.2
10/25/2010	87.8	0.0	68.5	0.7	73.2	0.0	83.9	1.3	0.0	75.2
10/26/2010	98.1	0.0	86.0	0.7	88.7	0.0	107.8	1.3	24.0	75.1
10/27/2010	92.5	0.0	90.2	0.7	91.1	0.0	99.3	1.2	7.5	83.2
10/28/2010	99.0	0.0	98.6	0.6	103.6	0.0	101.9	1.2	12.0	81.2

## 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			
10/15	---	---	---	0	103.1	103.6	104.2	24	98.8	99.1	99.6	24	96.7	97.0	98.6	24	---	---	---	0
10/16	---	---	---	0	102.6	103.7	104.5	24	98.5	98.6	98.8	24	96.8	97.3	98.0	24	---	---	---	0
10/17	---	---	---	0	102.4	103.4	104.1	24	98.3	98.5	98.6	24	96.6	96.8	97.3	24	---	---	---	0
10/18	---	---	---	0	102.0	102.7	103.3	24	98.2	98.3	98.4	24	96.8	97.1	97.7	24	---	---	---	0
10/19	---	---	---	0	101.9	102.7	103.8	24	98.3	98.5	98.6	24	96.8	97.1	97.6	24	---	---	---	0
10/20	---	---	---	0	101.8	102.6	103.4	22	98.8	99.1	99.2	24	97.4	97.9	98.6	22	---	---	---	0
10/21	---	---	---	0	101.9	102.7	103.5	24	99.2	99.4	99.6	24	98.1	98.6	99.0	24	---	---	---	0
10/22	---	---	---	0	101.6	101.9	102.4	21	99.2	99.3	99.6	24	98.4	98.8	99.5	21	---	---	---	0
10/23	---	---	---	0	101.8	102.3	103.1	21	99.1	99.3	99.7	24	98.9	99.5	100.3	21	---	---	---	0
10/24	---	---	---	0	102.7	103.3	104.0	23	100.7	100.9	101.1	24	100.5	101.1	101.5	23	---	---	---	0
10/25	---	---	---	0	101.6	101.9	102.2	23	99.8	100.0	100.6	24	99.7	100.0	100.7	23	---	---	---	0
10/26	---	---	---	0	101.1	101.3	101.9	21	98.7	99.1	99.4	24	100.0	101.0	103.6	21	---	---	---	0
10/27	---	---	---	0	100.2	100.5	100.8	21	97.8	97.9	98.1	24	99.8	100.1	101.4	21	---	---	---	0
10/28	---	---	---	0	101.1	101.7	103.0	21	98.1	98.2	98.4	24	100.4	100.7	100.9	21	---	---	---	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>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High			
10/15	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/16	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/17	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/19	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/20	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/21	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/22	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/26	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/27	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/28	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	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			
10/15	---	---	---	0	---	---	---	0	98.2	98.5	98.7	24	98.6	98.9	99.5	24	98.2	98.6	98.8	24
10/16	---	---	---	0	---	---	---	0	98.1	98.5	98.8	24	98.9	99.4	100.8	24	98.2	98.5	98.7	24
10/17	---	---	---	0	---	---	---	0	98.0	98.4	99.1	24	98.6	99.0	100.5	24	97.8	98.2	98.5	24
10/18	---	---	---	0	---	---	---	0	97.6	97.8	98.1	24	98.1	98.4	99.1	24	97.9	98.2	98.4	24
10/19	---	---	---	0	---	---	---	0	97.8	98.3	99.1	24	98.4	99.0	99.7	24	98.0	98.4	98.8	24
10/20	---	---	---	0	---	---	---	0	98.3	99.0	99.6	24	98.9	99.5	100.5	24	98.5	98.9	99.2	24
10/21	---	---	---	0	---	---	---	0	99.0	99.6	100.4	24	99.2	99.6	100.2	24	98.7	99.0	99.1	24
10/22	---	---	---	0	---	---	---	0	98.7	99.0	99.2	24	99.3	99.7	100.2	24	98.7	98.9	99.1	24
10/23	---	---	---	0	---	---	---	0	98.6	99.0	99.3	24	99.6	99.9	100.4	24	98.7	99.0	99.5	24
10/24	---	---	---	0	---	---	---	0	99.8	100.1	100.4	24	100.6	100.9	101.3	24	99.7	99.9	100.1	24
10/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/26	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/27	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/28	---	---	---	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>Clwrtr-Peck</u>			<u>Anatone</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	hr		Avg	Avg		High	hr		Avg	Avg		High	hr	Avg	Avg	High
10/15	100.4	100.8	101.2	24	---	---	---	0	102.1	102.5	103.0	24	---	---	---	0	---	---	---	0
10/16	100.9	101.4	101.8	24	---	---	---	0	102.0	102.6	103.5	24	---	---	---	0	---	---	---	0
10/17	100.7	101.0	101.3	24	---	---	---	0	101.8	102.4	103.4	24	---	---	---	0	---	---	---	0
10/18	100.4	100.9	101.5	24	---	---	---	0	101.4	102.0	102.7	24	---	---	---	0	---	---	---	0
10/19	100.4	101.0	101.9	24	---	---	---	0	100.9	101.7	102.9	24	---	---	---	0	---	---	---	0
10/20	101.0	101.6	102.0	24	---	---	---	0	101.1	101.7	102.7	24	---	---	---	0	---	---	---	0
10/21	101.7	102.0	102.4	24	---	---	---	0	101.1	101.6	102.5	24	---	---	---	0	---	---	---	0
10/22	102.2	102.5	102.7	24	---	---	---	0	100.7	100.7	101.5	11	---	---	---	0	---	---	---	0
10/23	102.3	102.7	103.1	24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/24	103.0	103.6	104.2	24	---	---	---	0	102.6	102.6	103.5	12	---	---	---	0	---	---	---	0
10/25	---	---	---	0	---	---	---	0	101.2	101.5	102.0	24	---	---	---	0	---	---	---	0
10/26	---	---	---	0	---	---	---	0	101.0	101.4	102.1	24	---	---	---	0	---	---	---	0
10/27	---	---	---	0	---	---	---	0	100.6	101.0	101.7	24	---	---	---	0	---	---	---	0
10/28	---	---	---	0	---	---	---	0	100.6	100.7	101.8	13	---	---	---	0	---	---	---	0

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

Date	<u>Clwrtr-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>	#	<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	hr		Avg	Avg		High	hr		Avg	Avg		High	hr	Avg	Avg	High
10/15	---	---	---	0	---	---	---	0	96.5	96.7	97.0	24	---	---	---	0	95.3	95.5	95.7	24
10/16	---	---	---	0	---	---	---	0	96.6	96.8	97.2	24	---	---	---	0	95.3	95.6	95.9	24
10/17	---	---	---	0	---	---	---	0	96.4	96.5	96.7	24	---	---	---	0	95.0	95.2	95.6	24
10/18	---	---	---	0	---	---	---	0	96.1	96.4	96.8	24	---	---	---	0	94.7	95.1	96.1	24
10/19	---	---	---	0	---	---	---	0	96.2	96.4	96.6	24	---	---	---	0	94.6	94.9	95.1	24
10/20	---	---	---	0	---	---	---	0	97.2	97.5	98.6	24	---	---	---	0	95.2	95.4	95.6	24
10/21	---	---	---	0	---	---	---	0	98.0	98.6	100.1	24	---	---	---	0	95.3	95.6	95.9	24
10/22	---	---	---	0	---	---	---	0	98.0	98.2	98.7	24	---	---	---	0	95.2	95.3	96.2	24
10/23	---	---	---	0	---	---	---	0	98.0	98.2	98.4	24	---	---	---	0	95.0	95.2	95.6	24
10/24	---	---	---	0	---	---	---	0	99.1	99.2	99.8	24	---	---	---	0	96.2	96.5	96.9	24
10/25	---	---	---	0	---	---	---	0	98.1	98.4	98.7	24	---	---	---	0	95.6	95.8	96.0	24
10/26	---	---	---	0	---	---	---	0	97.8	98.2	98.6	24	---	---	---	0	95.1	95.3	95.5	24
10/27	---	---	---	0	---	---	---	0	97.1	97.7	98.8	24	---	---	---	0	94.5	94.8	95.5	24
10/28	---	---	---	0	---	---	---	0	97.1	97.2	97.6	24	---	---	---	0	94.8	95.0	95.5	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>	#	<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	hr		Avg	Avg		High	hr		Avg	Avg		High	hr	Avg	Avg	High
10/15	---	---	---	0	95.5	95.7	95.9	24	---	---	---	0	97.9	98.3	98.9	24	---	---	---	0
10/16	---	---	---	0	95.8	96.1	96.9	24	---	---	---	0	98.4	99.2	100.3	24	---	---	---	0
10/17	---	---	---	0	95.4	96.0	96.9	24	---	---	---	0	98.2	98.8	99.8	24	---	---	---	0
10/18	---	---	---	0	94.5	94.7	95.0	24	---	---	---	0	97.3	97.8	98.2	24	---	---	---	0
10/19	---	---	---	0	95.0	95.5	96.7	24	---	---	---	0	97.9	98.8	100.0	24	---	---	---	0
10/20	---	---	---	0	95.4	95.7	95.9	24	---	---	---	0	98.2	98.5	99.1	24	---	---	---	0
10/21	---	---	---	0	95.8	96.4	97.5	24	---	---	---	0	98.8	99.8	101.0	24	---	---	---	0
10/22	---	---	---	0	95.7	95.9	96.9	24	---	---	---	0	98.3	98.7	99.6	24	---	---	---	0
10/23	---	---	---	0	96.0	96.3	97.1	24	---	---	---	0	98.5	98.9	99.7	24	---	---	---	0
10/24	---	---	---	0	97.3	97.8	98.3	24	---	---	---	0	99.4	100.0	100.9	24	---	---	---	0
10/25	---	---	---	0	96.4	96.7	97.2	24	---	---	---	0	97.9	98.2	99.1	24	---	---	---	0
10/26	---	---	---	0	96.4	96.7	97.4	24	---	---	---	0	97.5	97.9	98.5	24	---	---	---	0
10/27	---	---	---	0	95.8	96.2	96.7	24	---	---	---	0	97.2	97.7	98.4	24	---	---	---	0
10/28	---	---	---	0	96.0	96.3	97.2	24	---	---	---	0	97.4	97.9	99.5	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	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High		hr			
10/15	---	---	---	0	98.4	99.1	99.2	24	---	---	---	0	98.6	98.9	99.2	24	---	---	---	0
10/16	---	---	---	0	99.1	99.3	99.6	24	---	---	---	0	98.9	99.1	99.3	24	---	---	---	0
10/17	---	---	---	0	99.0	99.2	99.4	24	---	---	---	0	98.3	98.6	98.8	24	---	---	---	0
10/18	---	---	---	0	98.8	98.9	99.2	24	---	---	---	0	97.8	98.2	98.4	24	---	---	---	0
10/19	---	---	---	0	98.8	99.1	99.2	24	---	---	---	0	98.5	99.0	99.5	24	---	---	---	0
10/20	---	---	---	0	99.0	99.3	99.5	24	---	---	---	0	99.2	99.5	99.7	24	---	---	---	0
10/21	---	---	---	0	99.3	99.6	99.9	24	---	---	---	0	99.4	99.7	100.3	24	---	---	---	0
10/22	---	---	---	0	99.3	99.6	99.9	24	---	---	---	0	99.1	99.3	99.5	24	---	---	---	0
10/23	---	---	---	0	99.6	99.9	100.2	24	---	---	---	0	99.5	100.0	100.5	24	---	---	---	0
10/24	---	---	---	0	100.4	100.7	101.0	24	---	---	---	0	100.8	101.2	101.3	24	---	---	---	0
10/25	---	---	---	0	99.1	99.3	99.6	24	---	---	---	0	108.8	118.3	125.3	24	---	---	---	0
10/26	---	---	---	0	98.5	98.8	99.1	24	---	---	---	0	124.8	125.4	126.4	24	---	---	---	0
10/27	---	---	---	0	98.9	99.1	99.5	24	---	---	---	0	111.0	123.3	126.1	24	---	---	---	0
10/28	---	---	---	0	98.6	99.1	99.6	24	---	---	---	0	98.4	98.6	98.9	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	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High		hr			
10/15	99.5	99.8	100.0	24	---	---	---	0	100.8	101.1	101.4	24	---	---	---	0	---	---	---	0
10/16	99.6	99.8	100.0	24	---	---	---	0	100.6	101.1	101.7	24	---	---	---	0	---	---	---	0
10/17	99.7	99.9	100.3	24	---	---	---	0	100.2	100.6	101.2	24	---	---	---	0	---	---	---	0
10/18	99.4	99.5	99.6	24	---	---	---	0	100.4	101.1	101.8	24	---	---	---	0	---	---	---	0
10/19	99.5	99.9	100.3	24	---	---	---	0	100.8	101.2	101.8	24	---	---	---	0	---	---	---	0
10/20	99.7	100.1	100.3	24	---	---	---	0	101.1	101.9	102.6	24	---	---	---	0	---	---	---	0
10/21	100.4	100.9	101.2	24	---	---	---	0	101.4	101.8	102.5	24	---	---	---	0	---	---	---	0
10/22	100.6	100.7	100.9	24	---	---	---	0	101.6	102.1	102.5	24	---	---	---	0	---	---	---	0
10/23	101.0	101.3	101.6	24	---	---	---	0	102.2	102.5	102.9	24	---	---	---	0	---	---	---	0
10/24	102.2	102.7	103.0	24	---	---	---	0	102.0	102.5	102.7	24	---	---	---	0	---	---	---	0
10/25	100.4	100.5	100.5	24	---	---	---	0	100.5	100.7	100.9	24	---	---	---	0	---	---	---	0
10/26	99.3	99.7	100.0	24	---	---	---	0	100.3	100.5	101.0	24	---	---	---	0	---	---	---	0
10/27	99.3	99.9	100.0	24	---	---	---	0	99.7	100.3	100.8	24	---	---	---	0	---	---	---	0
10/28	99.6	99.7	100.1	24	---	---	---	0	100.4	100.7	100.9	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)
10/15/2010	---	---	---	---	0	0	---	---	---	---	0
10/16/2010	---	---	---	---	0	1	---	---	---	---	0
10/17/2010	---	---	---	---	0	0	---	---	---	---	0
10/18/2010	---	---	---	---	0	0	---	---	---	---	0
10/19/2010	---	---	---	---	0	0	---	---	---	---	0
10/20/2010	---	---	---	---	1	1	---	---	---	---	0
10/21/2010	---	---	---	---	0	0	---	---	---	---	0
10/22/2010	---	---	---	---	0	0	---	---	---	---	0
10/23/2010	---	---	---	---	1	0	---	---	---	---	0
10/24/2010	---	---	---	---	0	0	---	---	---	---	0
10/25/2010	---	---	---	---	0	0	---	---	---	---	0
10/26/2010	---	---	---	---	1	0	---	---	---	---	0
10/27/2010	---	---	---	---	0	0	---	---	---	---	0
10/28/2010	---	---	---	---	---	1	---	---	---	---	0
10/29/2010	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</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>0</b>	<b>0</b>	<b>0</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>56,130</b>	<b>80,004</b>	<b>27,916</b>	<b>7,995</b>	<b>2,452,592</b>	<b>1,260,545</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)
10/15/2010	---	---	---	---	206	62	---	---	---	---	246
10/16/2010	---	---	---	---	162	97	---	---	---	---	239
10/17/2010	---	---	---	---	95	86	---	---	---	---	286
10/18/2010	---	---	---	---	102	79	---	---	---	---	111
10/19/2010	---	---	---	---	107	62	---	---	---	---	205
10/20/2010	---	---	---	---	125	78	---	---	---	---	147
10/21/2010	---	---	---	---	105	67	---	---	---	---	83
10/22/2010	---	---	---	---	56	38	---	---	---	---	92
10/23/2010	---	---	---	---	62	42	---	---	---	---	61
10/24/2010	---	---	---	---	64	38	---	---	---	---	41
10/25/2010	---	---	---	---	92	95	---	---	---	---	81
10/26/2010	---	---	---	---	87	258	---	---	---	---	109
10/27/2010	---	---	---	---	264	313	---	---	---	---	221
10/28/2010	---	---	---	---	---	289	---	---	---	---	81
10/29/2010	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,527</b>	<b>1,604</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,003</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>117</b>	<b>115</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>143</b>
<b>YTD</b>	<b>0</b>	<b>42</b>	<b>28</b>	<b>1,275</b>	<b>1,042,222</b>	<b>1,313,271</b>	<b>771,129</b>	<b>23,361</b>	<b>3,906,840</b>	<b>2,240,563</b>	<b>5,118,540</b>



Two-Week Summary of Passage Indices

COMBINED COHO											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
10/15/2010	---	---	---	---	0	0	---	---	---	---	0
10/16/2010	---	---	---	---	1	0	---	---	---	---	16
10/17/2010	---	---	---	---	0	0	---	---	---	---	0
10/18/2010	---	---	---	---	0	0	---	---	---	---	0
10/19/2010	---	---	---	---	0	0	---	---	---	---	0
10/20/2010	---	---	---	---	0	0	---	---	---	---	8
10/21/2010	---	---	---	---	0	0	---	---	---	---	9
10/22/2010	---	---	---	---	0	0	---	---	---	---	10
10/23/2010	---	---	---	---	0	0	---	---	---	---	0
10/24/2010	---	---	---	---	0	0	---	---	---	---	0
10/25/2010	---	---	---	---	0	0	---	---	---	---	10
10/26/2010	---	---	---	---	0	0	---	---	---	---	34
10/27/2010	---	---	---	---	0	0	---	---	---	---	89
10/28/2010	---	---	---	---	---	0	---	---	---	---	0
10/29/2010	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</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>176</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</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>13</b>
<b>YTD</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>104</b>	<b>40,189</b>	<b>53,918</b>	<b>13,604</b>	<b>41,441</b>	<b>85,780</b>	<b>111,181</b>	<b>524,989</b>

COMBINED STEELHEAD											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
10/15/2010	---	---	---	---	0	0	---	---	---	---	0
10/16/2010	---	---	---	---	0	0	---	---	---	---	0
10/17/2010	---	---	---	---	0	0	---	---	---	---	0
10/18/2010	---	---	---	---	0	0	---	---	---	---	0
10/19/2010	---	---	---	---	0	0	---	---	---	---	0
10/20/2010	---	---	---	---	0	0	---	---	---	---	0
10/21/2010	---	---	---	---	0	0	---	---	---	---	0
10/22/2010	---	---	---	---	0	0	---	---	---	---	0
10/23/2010	---	---	---	---	0	2	---	---	---	---	0
10/24/2010	---	---	---	---	0	0	---	---	---	---	0
10/25/2010	---	---	---	---	0	0	---	---	---	---	0
10/26/2010	---	---	---	---	0	0	---	---	---	---	0
10/27/2010	---	---	---	---	1	0	---	---	---	---	0
10/28/2010	---	---	---	---	---	0	---	---	---	---	0
10/29/2010	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</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>0</b>	<b>0</b>	<b>0</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>2,045,810</b>	<b>1,594,190</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)
10/15/2010	---	---	---	---	0	0	---	---	---	---	0
10/16/2010	---	---	---	---	0	0	---	---	---	---	0
10/17/2010	---	---	---	---	2	0	---	---	---	---	0
10/18/2010	---	---	---	---	2	0	---	---	---	---	0
10/19/2010	---	---	---	---	0	0	---	---	---	---	0
10/20/2010	---	---	---	---	0	0	---	---	---	---	0
10/21/2010	---	---	---	---	2	0	---	---	---	---	0
10/22/2010	---	---	---	---	1	0	---	---	---	---	0
10/23/2010	---	---	---	---	1	0	---	---	---	---	0
10/24/2010	---	---	---	---	2	0	---	---	---	---	0
10/25/2010	---	---	---	---	1	0	---	---	---	---	0
10/26/2010	---	---	---	---	0	0	---	---	---	---	0
10/27/2010	---	---	---	---	5	0	---	---	---	---	0
10/28/2010	---	---	---	---	---	0	---	---	---	---	0
10/29/2010	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>0</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>0</b>	<b>0</b>	<b>0</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>8,827</b>	<b>12,831</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: 10/29/10 10:11 AM

		10/15/10 TO 10/29/10						
		Species						
Site	Data	CH0	CH1	CO	ST	SO	Grand Total	
<b>LGR</b>	Sum of NumberCollected	1,527		3	1	1	16	1,548
	Sum of NumberBarged	0		0	0	0	0	0
	Sum of NumberBypassed	680		0	0	0	1	681
	Sum of Numbertrucked	1,068		3	1	1	14	1,087
	Sum of SampleMorts	6		0	0	0	2	8
	Sum of FacilityMorts	0		0	0	0	0	0
	Sum of ResearchMorts	0		0	0	0	0	0
	Sum of TotalProjectMorts	6		0	0	0	2	8
<b>LGS</b>	Sum of NumberCollected	1,604		3		2		1,609
	Sum of NumberBarged	0		0		0		0
	Sum of NumberBypassed	257		0		0		257
	Sum of Numbertrucked	904		1		2		907
	Sum of SampleMorts	61		1		0		62
	Sum of FacilityMorts	20		0		0		20
	Sum of ResearchMorts	0		0		0		0
	Sum of TotalProjectMorts	81		1		0		82
Total Sum of NumberCollected		3,131		6	1	3	16	3,157
Total Sum of NumberBarged		0		0	0	0	0	0
Total Sum of NumberBypassed		937		0	0	0	1	938
Total Sum of Numbertrucked		1,972		4	1	3	14	1,994
Total Sum of SampleMorts		67		1	0	0	2	70
Total Sum of FacilityMorts		20		0	0	0	0	20
Total Sum of ResearchMorts		0		0	0	0	0	0
Total Sum of TotalProjectMorts		87		1	0	0	2	90

### YTD Transportation Summary

Source: Fish Passage Center

Updated: 10/29/10 10:11 AM

TO: 10/29/10

Site	Data	Species					Grand Total
		CH0	CH1	CO	SO	ST	
<b>LGR</b>	Sum of NumberCollected	628,896	1,622,366	28,365	5,849	1,358,163	3,643,639
	Sum of NumberBarged	605,631	1,428,784	28,337	5,772	1,309,483	3,378,007
	Sum of NumberBypassed	6,449	191,860	0	11	48,345	246,665
	Sum of NumberTrucked	15,327	21	17	56	14	15,435
	Sum of SampleMorts	412	55	1	4	19	491
	Sum of FacilityMorts	1,063	1,231	10	6	285	2,595
	Sum of ResearchMorts	14	415	0	0	17	446
	Sum of TotalProjectMorts	1,489	1,701	11	10	321	3,532
<b>LGS</b>	Sum of NumberCollected	865,626	873,219	36,915	8,883	1,085,619	2,870,262
	Sum of NumberBarged	849,625	791,515	36,896	8,872	1,025,889	2,712,797
	Sum of NumberBypassed	325	81,373	0	0	59,473	141,171
	Sum of NumberTrucked	9,175	23	17	9	18	9,242
	Sum of SampleMorts	377	31	2	1	10	421
	Sum of FacilityMorts	5,708	276	0	1	229	6,214
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	6,085	307	2	2	239	6,635
<b>LMN</b>	Sum of NumberCollected	509,954	305,753	8,789	1,525	239,912	1,065,933
	Sum of NumberBarged	507,240	304,065	8,789	1,521	234,587	1,056,202
	Sum of NumberBypassed	586	1,473	0	0	5,000	7,059
	Sum of NumberTrucked	1,435	3	0	0	2	1,440
	Sum of SampleMorts	74	9	0	1	10	94
	Sum of FacilityMorts	619	201	0	3	314	1,137
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	693	210	0	4	324	1,231
<b>MCN</b>	Sum of NumberCollected	1,951,233	1,224,094	47,445	848,920	260,040	4,331,732
	Sum of NumberBarged	299,909	173	70	190	86	300,428
	Sum of NumberBypassed	1,496,969	1,222,563	47,275	847,904	259,728	3,874,439
	Sum of NumberTrucked	146,694	0	40	80	10	146,824
	Sum of SampleMorts	557	121	5	96	17	796
	Sum of FacilityMorts	7,104	1,237	55	650	199	9,245
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	7,661	1,358	60	746	216	10,041
Total Sum of NumberCollected		3,955,709	4,025,432	121,514	865,177	2,943,734	11,911,566
Total Sum of NumberBarged		2,262,405	2,524,537	74,092	16,355	2,570,045	7,447,434
Total Sum of NumberBypassed		1,504,329	1,497,269	47,275	847,915	372,546	4,269,334
Total Sum of NumberTrucked		172,631	47	74	145	44	172,941
Total Sum of SampleMorts		1,420	216	8	102	56	1,802
Total Sum of FacilityMorts		14,494	2,945	65	660	1,027	19,191
Total Sum of ResearchMorts		14	415	0	0	17	446
Total Sum of TotalProjectMorts		15,928	3,576	73	762	1,100	21,439

Cumulative Adult Passage at Mainstem Dams Through: 10/28

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	10/28	244384	12612	114525	66631	167834	17301	97604	15603	81936	37416	82525	13362
TDA	10/28	189839	11546	93908	53646	121486	13792	81292	12528	79916	27878	72634	10423
JDA	10/28	179446	11794	76806	49733	101283	12037	70955	12475	65989	33147	66361	11207
MCN	10/28	153246	9178	70413	43328	93119	11340	66526	8063	57137	21182	62804	9141
IHR	10/28	101188	6047	55435	28223	64058	7222	29583	3503	23856	9400	15236	3378
LMN	10/28	97334	5898	66931	20009	63381	6004	35097	4362	23353	11733	15714	2947
LGS	10/28	92985	5461	52642	24331	58937	6617	32410	3968	20340	11207	12950	3477
LGR	10/28	94203	6409	49667	31064	59309	8137	28778	5294	14482	16367	12293	4233
PRD	10/27	30539	932	13469	2910	19097	834	49265	1217	49417	2117	55919	2554
RIS	10/27	29684	1513	12634	6003	15841	1581	47220	4018	44295	7727	52600	6133
RRH	10/27	8660	523	6090	1086	6208	510	34173	1724	34961	5231	40122	4303
WEL	10/27	7555	661	6307	1867	4866	487	26538	1856	25725	3800	29472	2340
WFA	10/25	64291	1679	25795	2719	-	-	-	-	-	-	-	-

DAM	EndDate	Fall Chinook					
		2010		2009		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack
BON	10/28	466356	64177	282776	114621	371439	50757
TDA	10/28	271727	51325	176570	93513	200722	40384
JDA	10/28	214067	45166	144787	81136	148935	35822
MCN	10/28	197414	27372	104384	61833	115161	27198
IHR	10/28	46472	12196	24816	38592	16176	11862
LMN	10/28	42667	15379	22172	39194	15005	10886
LGS	10/28	43016	11436	23019	31840	13050	8263
LGR	10/28	41145	12676	14940	40701	11034	10634
PRD	10/27	34927	3755	38393	5217	31012	5061
RIS	10/27	9614	2679	11482	3559	10603	2701
RRH	10/27	7178	1526	7802	2495	6892	1941
WEL	10/27	2983	1089	3768	2069	4070	1419
WFA	10/25	666	76	1308	231	-	-

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	115221	6843	218970	9460	128377	7410	386524	177823	94584	411852	601669	396790	154561
TDA	28946	2280	67872	8453	37436	3387	325133	155591	80569	332097	513709	310669	122218
JDA	21092	1751	63636	6806	33812	3929	324128	157402	86670	281350	578011	311271	103077
MCN	13174	1396	32743	3885	17295	1788	278799	121672	69739	261049	406002	246551	88893
IHR	1490	213	4796	469	1862	96	1302	867	175	205388	324523	184915	58175
LMN	1671	295	4415	1007	1886	197	1652	1162	220	212840	312786	182439	63199
LGS	1690	275	4470	681	1657	137	1658	1061	197	192566	300192	169386	55842
LGR	1403	379	4113	250	1842	237	2201	1219	242	196584	301711	173791	58109
PRD	2204	265	10410	398	4685	442	357058	153466	88592	26302	39893	18564	0
RIS	5560	1373	17690	1980	7075	379	338310	162830	85463	22025	37433	17772	10437
RRH	1835	463	4439	305	1643	87	295638	133106	64322	17455	29123	13801	7327
WEL	793	10	2011	28	529	0	291312	134937	65164	12458	25031	10595	5264
WFA	19236	2337	23185	2042	-	-	0	0	-	29368	17621	-	-

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: 10/29/10

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