



Fish Passage Center

Weekly Report #12 - 29

October 12, 2012

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Summary of Events:

This is the final weekly report for the 2012 season.

Water Supply: October 1st marked the start of the new water year. Precipitation throughout the Columbia Basin has varied between 0% and 81% of average at individual sub-basins over the first eight days of October. Precipitation above The Dalles has been 23% of average over October.

Table 1. Summary of October 1-8 precipitation with respect to average (1971-2000), at select locations within the Columbia and Snake River Basins.

Location	Water Year 2013 October 1-8, 2012	
	Observed (inches)	% Average
Columbia Above Coulee	0.22	45
SNAKE RIVER ABOVE ICE HARBOR	0.01	3
Columbia Above The Dalles	0.10	23
Kootenai	0.17	35
Clark Fork	0.11	36
Flathead	0.35	81
Pend Oreille/Spokane	0.05	9
Central Washington	0.00	0
SNAKE RIVER PLAIN	0.01	4
Salmon/Boise/Payette	0.02	7
Clearwater	0.00	1
SW Washington Cascades/ Cowlitz	0.01	2
Willamette Valley	0.01	1

Grand Coulee Reservoir is currently at 1284.0 feet (10-11-12) and filled 0.3 feet over the last week. Outflows at Grand Coulee have ranged between 57.2 and 64.8 Kcfs.

The Libby Reservoir is currently at elevation 2448.5 feet (10-11-12) and has refilled 0.1 feet over the

last week. Outflows at Libby Dam have been 4.0 Kcfs.

Hungry Horse is currently at an elevation of 3547.6 feet (10-11-12) and has drafted 1 foot over the last week. Outflows at Hungry Horse have been about 1.7-2.2 Kcfs over the last week.

Dworshak is currently at an elevation of 1517.5 feet (10-11-12) and drafted 0.8 feet over the last week. Outflows from Dworshak have been at the 1.6 Kcfs minimum.

The Brownlee Reservoir was at an elevation of 2045.8 feet on October 10th, 2012, refilling 1.3 feet over the last week. Outflows from Brownlee have ranged between 8.5 and 13.3 Kcfs over the last week. Idaho Power is currently regulating flow below Hells Canyon dam for fall Chinook spawning. Releases are anticipated to be approximately 9,200 cubic feet per second until December 10th, 2012.

Smolt Monitoring:

Smolt monitoring activities are ongoing at three SMP dams (BON, LGR, and LGS). Sampling at these sites will end at the end of this month. SMP sampling at MCN and LMN ended on October 1st.

Subyearling Chinook were the dominant species of salmonid at all three SMP dams over the past week. When compared to the last two weeks, subyearling Chinook passage at the Snake River sites (LGR and LGS) increased.

Subyearling Chinook numbers at BON have continued to decrease over the past two weeks. The daily average passage index for this week was about 50 per day, compared to last week's daily average passage index of about 90 per day. No other species of salmonid was sampled at BON these past two weeks. In addition, no lamprey juveniles were collected at BON this week. The second powerhouse continues to operate with only three screens in place, which are in units 11, 12, and 18. Operating without screens in every unit is likely to result in bias collection estimates, as not as many fish will be guided into the juvenile bypass system in the second powerhouse. Furthermore, the second powerhouse was operated at very low levels from October 5th to October

8th. During this time, flows through the second powerhouse only represented about 4.0 to 6.0 percent of total flows at BON. Consequently, no fish were collected at BON from October 6th through October 9th.

When compared to the prior two weeks, subyearling Chinook passage at LGR increased this week. The daily average passage index for subyearling Chinook at LGR this week was about 430 per day. The daily average passage index for subyearling Chinook over the prior two weeks was about 290 per day. A very small number of sockeye/kokanee and steelhead juveniles were collected at LGR this week. Finally, three pacific lamprey macrophthalmia were collected at LGR this week.

As with LGR, passage of subyearling Chinook at LGS also increased this week, when compared to the previous two weeks. The daily average passage index for subyearling Chinook at LGS this week was about 110 per day. For the prior two weeks, the daily average passage index at LGS was less than 10 per day. Collections this week also included a very small number of sockeye and steelhead juveniles. Daily collections of pacific lamprey macrophthalmia at LGS ranged from 0 to 6 per day. No pacific lamprey ammocoetes were collected at LGS this week.

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 were scheduled to be released into tributaries of the Clearwater River in early to mid-October. These pre-smolts are unclipped but are tagged with coded-wire-tags. In addition, about 20,000 sockeye pre-smolts were scheduled for release into Redfish (50%) and Pettit (50%) lakes on or around October 6th. Both the spring Chinook and sockeye pre-smolts are not expected to out-migrate until spring of 2013. There are no other releases 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. Approximately 200,000 sockeye pre-smolts are scheduled for release into Lake Wenatchee in mid-October to early November. These pre-smolts are not expected to out-migrate until spring of 2013. There are no other releases of juvenile salmonids in 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. No new releases of juvenile salmonids were scheduled for this zone this week. Furthermore, there are no new releases to this zone scheduled over the next two weeks.

Adult Fish Passage:

Daily counts of fall Chinook at Bonneville Dam ranged from 501 to 901. The adult fall Chinook count of 344,518 is about 88.2% of the 2011 count of 390,630 and about 87.8% of the 10 year average count of 392,212. The 2012 Bonneville Dam fall Chinook jack count of 120,301 is about 1.5 times greater than the 2011 count of 79,766 and about 2.3 times greater than 10 year average count of 51,215. The 2012 McNary Dam adult fall Chinook count of 165,808 is about 1.1 times greater than the 2011 count and about 1.3 times larger than the 10 year average. The 2012 McNary Dam 2012 jack count of 49,013 is about 1.24 times greater than the 2011 count and 1.82 times greater than the 10 year average count.

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 resume 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 2012 B-run adult steelhead count at Bonneville of 69,142 is about 68.6% of the 2011 count of 100,755 and 54.4% of the 10 year average count of 127,117.

The Bonneville Dam 2012 steelhead count of 228,082 is about 62.7% of the 2011 count of 363,197 and about 60.1% of the 10 year average count of 379,471. The 2012 Bonneville wild adult steelhead count of 82,979 is about 65.3% of the 2011 count of 126,991 and about 72.3% of the 10 year average count of 114,790. In the Snake River, this year's Lower Granite steelhead count of 81,180 is about 53.3% of the 2011 count of 152,265 and 54.9% of the 10 year average of 147,889. The 2012 Lower Granite wild adult steelhead count of 23,399 is about 57.6% of the 2011

count of 40,642 and 63.7% of the 10 year average count of 36,756. At Willamette Falls Dam, the 2012 count for steelhead was 29,273, as of October 10th. This year's steelhead count is about 1.06 times greater than the 2011 count of 27,722 and 1.06 times greater than the 10 year average count of 27,724.

The 2012 adult coho Bonneville Dam count of 45,707 adults is about 34% of the 2011 count of 134,517 and about 45% of the 10 year average count of 101,372. The 2012 Bonneville Dam coho jack count of 3,502 is about 84.4% of the 2011 count of 4,148 and about 59.2% of the 10 year average count of 5,910.

Hatchery Releases Last Two Weeks

Hatchery Release Summary									
From:	9/28/2012		to		10/11/12				
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2013	10,000	10-06-12	10-06-12	Pettit Lake	Salmon River (ID)
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2013	10,000	10-06-12	10-06-12	Redfish Lake	Salmon River (ID)
Idaho Dept. of Fish and Game Total					20,000				
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	SP	2013	75,000	10-02-12	10-16-12	Newsome Creek	S Fk Clearwater River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	SP	2013	150,000	10-03-12	10-17-12	Lolo Creek	Clearwater River M F
Nez Perce Tribe Total					225,000				
Grand Total					245,000				

Hatchery Releases Next Two Weeks

Agency	Hatchery Release Summary				NumRel	RelStart	RelEnd	RelSite	RelRiver
	From:	10/12/2012	to	10/25/2012					
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	SP	2013	75,000	10-02-12	10-16-12	Newsome Creek	S Fk Clearwater River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	SP	2013	150,000	10-03-12	10-17-12	Lolo Creek	Clearwater River M F
Nez Perce Tribe Total					225,000				
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	SO	UN	2013	200,000	10-12-12	11-01-12	Lake Wenatchee	Wenatchee River
Washington Dept. of Fish and Wildlife Total					200,000				
Grand Total					425,000				

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
09/28/2012	68.0	0.1	69.1	0.0	75.2	0.0	78.2	0.0	80.2	0.0	97.0	1.3	97.3	6.0
09/29/2012	43.4	0.1	44.4	0.0	48.8	0.0	50.9	0.0	53.6	0.0	67.0	1.0	65.3	5.7
09/30/2012	60.5	0.0	62.2	0.0	56.5	0.0	51.8	0.0	52.3	0.0	46.1	1.1	41.8	5.4
10/01/2012	78.0	0.0	71.2	0.0	71.7	0.0	72.9	0.0	75.7	0.0	78.8	0.8	73.2	6.3
10/02/2012	60.7	0.0	61.8	0.0	62.5	0.0	64.3	0.0	66.4	0.0	74.6	0.4	72.8	6.4
10/03/2012	62.5	0.0	64.0	0.0	65.4	0.0	68.1	0.0	69.9	0.0	74.6	0.8	63.9	6.5
10/04/2012	70.6	0.0	69.7	0.0	69.5	0.0	70.4	0.0	72.4	0.0	75.3	1.3	72.6	6.3
10/05/2012	67.9	0.0	66.5	0.0	66.1	0.0	65.8	0.0	67.7	0.0	69.8	1.5	65.2	7.2
10/06/2012	57.2	0.0	54.7	0.0	55.2	0.0	56.2	0.0	57.2	0.0	64.9	1.5	64.1	6.5
10/07/2012	59.4	0.0	59.2	0.0	56.7	0.0	53.8	0.0	55.9	0.0	51.3	1.6	50.1	6.0
10/08/2012	62.8	0.0	67.6	0.0	69.0	0.0	72.4	0.0	74.2	0.0	55.3	1.8	47.5	3.6
10/09/2012	64.8	0.0	65.5	0.0	68.9	0.0	70.1	0.0	71.3	0.0	86.9	1.5	84.7	3.7
10/10/2012	59.2	0.0	60.4	0.0	61.1	0.0	62.7	0.0	63.8	0.0	72.7	1.4	73.0	4.1
10/11/2012	63.6	0.0	64.3	0.0	68.5	0.0	70.3	0.0	72.0	0.0	80.4	1.3	76.3	3.4

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
09/28/2012	1.6	0.0	12.1	12.6	20.7	0.0	12.6	0.0	12.8	0.0	11.4	0.0
09/29/2012	1.6	0.0	10.9	11.5	19.1	0.0	14.5	0.0	15.2	0.0	16.0	0.0
09/30/2012	1.6	0.0	11.2	10.4	24.1	0.0	19.8	0.0	23.2	0.0	26.6	0.0
10/01/2012	1.6	0.0	11.1	11.7	18.4	0.0	24.4	0.0	25.8	0.0	26.2	0.0
10/02/2012	1.6	0.0	11.4	12.0	17.7	0.0	13.5	0.0	13.2	0.0	12.5	0.0
10/03/2012	1.6	0.0	10.5	10.7	23.1	0.0	22.7	0.0	22.3	0.0	22.5	0.0
10/04/2012	1.6	0.0	10.6	11.1	19.9	0.0	20.1	0.0	20.9	0.0	20.7	0.0
10/05/2012	1.6	0.0	10.9	13.3	19.5	0.0	19.2	0.0	19.2	0.0	18.0	0.0
10/06/2012	1.6	0.0	11.4	11.1	17.3	0.0	16.3	0.0	16.4	0.0	16.7	0.0
10/07/2012	1.6	0.0	11.1	11.8	15.4	0.0	14.3	0.0	15.9	0.0	16.2	0.0
10/08/2012	1.6	0.0	11.3	9.4	20.9	0.0	17.8	0.0	17.5	0.0	16.3	0.0
10/09/2012	1.6	0.0	11.0	9.3	20.2	0.0	15.1	0.0	16.5	0.0	13.5	0.0
10/10/2012	1.6	0.0	11.3	9.4	17.9	0.0	18.3	0.0	18.5	0.0	19.5	0.0
10/11/2012	1.6	0.0	---	---	16.1	0.0	19.0	0.0	20.4	0.0	20.8	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		
09/28/2012	104.3	0.0	110.0	0.9	110.7	0.0	114.3	0.6	82.7	24.4
09/29/2012	107.1	0.0	100.3	0.9	101.3	0.0	111.2	0.6	83.5	20.6
09/30/2012	90.3	0.0	89.1	0.9	87.8	0.0	93.0	0.6	82.0	3.9
10/01/2012	78.4	0.0	76.6	0.8	77.6	0.0	87.1	0.6	68.1	11.9
10/02/2012	89.8	0.2	78.0	0.9	79.3	0.0	88.2	0.6	72.3	8.8
10/03/2012	91.2	0.0	107.9	0.9	107.9	0.0	113.3	0.7	82.3	23.8
10/04/2012	99.2	0.0	95.4	0.9	95.5	0.0	104.1	0.6	73.3	23.7
10/05/2012	95.4	0.0	76.5	1.0	76.6	0.0	81.6	0.6	71.2	3.3
10/06/2012	78.0	0.0	71.4	0.8	73.6	0.0	80.0	0.6	69.9	3.0
10/07/2012	75.3	0.0	67.4	0.9	69.7	0.0	75.6	0.6	65.5	3.0
10/08/2012	78.1	0.0	75.5	0.8	75.1	0.0	79.3	0.6	67.5	4.7
10/09/2012	97.0	0.6	98.4	0.8	98.0	0.0	109.4	0.6	72.8	29.5
10/10/2012	95.7	0.0	93.8	0.8	95.4	0.0	98.6	0.6	72.0	19.5
10/11/2012	90.6	0.0	85.0	0.8	83.5	0.0	91.1	0.6	59.2	24.8

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
9/28	102.1	102.4	102.6	24	104.7	105.1	105.5	20	104.6	104.8	105.2	24	102.0	102.3	102.9	20	104.6	104.8	104.9
9/29	101.9	102.2	102.6	24	104.5	104.7	104.8	24	104.3	104.7	105.1	24	102.0	102.6	103.7	24	104.4	104.7	105.1
9/30	101.6	101.9	102.2	24	103.8	104.2	104.6	23	104.6	104.8	104.9	24	100.8	101.4	102.4	23	103.5	103.7	104.0
10/1	101.2	101.2	101.5	8	103.8	104.2	104.7	19	104.1	104.4	104.8	24	101.8	102.5	103.0	19	103.1	103.1	103.8
10/2	102.1	102.1	103.1	12	103.9	104.4	105.2	21	104.5	104.8	105.1	24	102.5	103.2	104.1	21	---	---	---
10/3	---	---	---	0	102.5	103.1	103.8	23	102.8	103.1	103.7	24	100.4	101.0	101.9	23	---	---	---
10/4	---	---	---	0	102.2	102.6	103.4	20	102.5	102.7	102.9	24	100.5	100.9	101.5	20	---	---	---
10/5	---	---	---	0	102.0	102.5	103.5	20	102.2	102.4	102.6	24	100.3	100.5	101.1	20	---	---	---
10/6	---	---	---	0	102.0	102.6	103.4	23	102.3	102.6	102.7	24	100.2	100.6	100.9	23	---	---	---
10/7	---	---	---	0	102.5	103.1	104.0	22	102.8	103.2	103.3	24	100.7	101.3	102.0	22	---	---	---
10/8	100.7	100.7	101.5	12	103.1	103.5	104.7	17	103.1	103.4	103.7	24	101.0	101.1	101.5	17	---	---	---
10/9	100.6	100.8	101.2	24	102.6	103.0	103.6	22	102.7	102.9	103.0	23	100.5	101.0	102.0	22	---	---	---
10/10	100.5	100.8	101.3	23	102.9	103.3	104.0	24	102.8	103.1	103.3	24	100.8	101.3	102.2	24	---	---	---
10/11	100.5	100.8	101.2	24	102.7	103.2	103.9	21	102.7	103.0	103.5	24	100.9	101.5	102.3	21	---	---	---

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
9/28	103.8	104.1	104.5	24	---	---	---	0	---	---	---	0	104.4	104.6	104.7	24	103.9	104.1	104.2
9/29	104.1	104.8	105.8	24	---	---	---	0	---	---	---	0	103.9	104.1	104.4	24	103.1	103.3	103.6
9/30	102.7	103.2	103.6	24	---	---	---	0	---	---	---	0	103.0	103.2	103.5	24	102.4	102.6	102.8
10/1	101.9	101.9	102.9	11	---	---	---	0	---	---	---	0	103.4	103.8	104.0	24	102.9	103.3	103.6
10/2	---	---	---	0	---	---	---	0	---	---	---	0	103.3	103.6	103.8	24	102.8	103.1	103.2
10/3	---	---	---	0	---	---	---	0	---	---	---	0	101.2	101.4	101.9	24	100.8	100.9	101.3
10/4	---	---	---	0	---	---	---	0	---	---	---	0	100.8	101.1	101.2	24	100.5	100.7	100.8
10/5	---	---	---	0	---	---	---	0	---	---	---	0	100.3	100.5	100.5	24	99.9	100.2	100.4
10/6	---	---	---	0	---	---	---	0	---	---	---	0	100.3	100.6	101.3	24	99.9	100.3	100.5
10/7	---	---	---	0	---	---	---	0	---	---	---	0	100.6	101.1	101.5	24	100.2	100.9	101.2
10/8	---	---	---	0	---	---	---	0	---	---	---	0	101.3	101.8	102.0	24	101.0	101.3	101.6
10/9	---	---	---	0	---	---	---	0	---	---	---	0	101.3	101.6	101.8	24	100.8	101.3	101.5
10/10	---	---	---	0	---	---	---	0	---	---	---	0	101.5	101.9	102.3	24	101.0	101.4	101.6
10/11	---	---	---	0	---	---	---	0	---	---	---	0	101.6	102.0	102.2	24	101.1	101.6	101.9

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
9/28	103.8	103.9	104.3	24	101.8	103.7	104.2	24	104.7	105.2	106.4	24	104.0	104.5	104.9	24	103.9	104.4	104.7
9/29	103.2	103.4	103.6	24	103.1	103.7	103.9	24	103.4	103.8	104.2	24	103.5	104.2	104.9	24	103.0	103.6	104.2
9/30	102.4	102.7	102.9	24	102.5	103.0	103.5	24	101.6	102.4	103.0	24	102.0	102.5	103.6	24	101.2	101.6	102.1
10/1	102.8	103.4	103.6	24	103.2	103.6	104.0	24	102.2	103.7	104.2	24	102.3	103.0	103.3	24	102.1	102.8	103.5
10/2	102.9	103.4	103.6	24	103.2	103.8	104.2	24	101.8	102.4	102.8	24	102.0	102.5	103.0	24	101.4	101.9	102.8
10/3	101.1	101.3	101.6	24	101.4	101.5	101.7	24	99.6	100.1	100.4	24	100.0	100.1	100.3	24	99.3	100.2	100.7
10/4	100.7	100.8	101.1	24	101.1	101.3	101.6	24	99.6	100.2	100.6	24	100.3	100.6	100.7	24	98.9	100.1	101.1
10/5	99.8	100.4	100.8	24	100.7	100.8	100.9	24	99.2	100.2	100.6	24	100.2	100.5	100.6	24	98.9	100.1	101.0
10/6	100.1	100.3	100.5	24	100.7	100.9	101.2	24	99.9	100.7	101.3	24	100.5	100.8	101.0	24	99.5	100.3	101.1
10/7	100.5	101.0	101.3	24	101.2	101.5	102.0	24	100.0	101.4	101.8	24	101.2	101.8	102.1	24	98.1	99.7	101.7
10/8	100.8	101.0	101.3	24	101.3	101.5	101.9	24	101.5	102.4	102.7	24	101.4	101.6	102.0	24	100.9	101.3	101.8
10/9	100.6	101.1	101.6	24	101.2	101.5	101.9	24	101.4	101.9	102.1	24	101.1	101.4	101.8	24	100.7	101.1	101.4
10/10	101.4	101.5	101.8	24	101.9	102.1	102.2	24	102.1	102.6	103.0	24	101.4	101.8	102.2	24	101.5	102.3	103.1
10/11	101.1	101.5	101.9	24	101.6	101.8	102.0	24	101.2	102.6	103.0	24	101.5	101.9	102.3	24	101.5	102.2	102.7

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>		
	<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	
9/28	105.2	105.6	106.2	24	103.5	104.1	104.7	24	105.3	106.1	107.2	24	---	---	---	0	---	---	---	0
9/29	104.6	105.1	105.3	24	102.9	103.5	103.8	24	105.2	106.0	107.1	24	---	---	---	0	---	---	---	0
9/30	102.8	103.3	103.6	24	102.3	102.7	102.9	24	104.6	105.3	106.5	24	---	---	---	0	---	---	---	0
10/1	103.6	104.6	105.0	24	102.6	103.5	103.7	24	104.8	105.7	106.9	24	---	---	---	0	---	---	---	0
10/2	103.6	104.2	104.7	24	102.7	103.3	104.0	24	105.1	106.0	107.2	24	---	---	---	0	---	---	---	0
10/3	102.0	102.5	102.8	24	100.0	100.4	101.2	24	104.3	105.2	106.5	24	---	---	---	0	---	---	---	0
10/4	102.0	102.5	103.0	24	100.3	101.1	101.3	24	104.5	105.4	106.5	24	---	---	---	0	---	---	---	0
10/5	102.2	102.6	103.2	24	99.9	99.9	100.6	10	104.3	105.1	106.6	24	---	---	---	0	---	---	---	0
10/6	102.4	103.0	103.5	24	---	---	---	0	104.3	105.2	106.6	24	---	---	---	0	---	---	---	0
10/7	102.6	103.2	103.5	24	---	---	---	0	104.8	105.7	107.0	24	---	---	---	0	---	---	---	0
10/8	102.5	103.1	103.6	24	---	---	---	0	105.2	106.1	107.4	24	---	---	---	0	---	---	---	0
10/9	102.2	103.0	103.5	24	---	---	---	0	104.4	105.2	106.5	24	---	---	---	0	---	---	---	0
10/10	102.8	103.3	103.6	24	---	---	---	0	103.8	104.7	106.0	24	---	---	---	0	---	---	---	0
10/11	102.5	103.1	103.6	24	---	---	---	0	104.5	105.8	107.5	24	---	---	---	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>		
	<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	
9/28	---	---	---	0	101.3	102.2	103.5	24	100.1	100.5	101.1	24	---	---	---	0	98.0	98.6	99.7	21
9/29	---	---	---	0	100.1	100.6	101.4	24	99.3	99.8	100.7	24	---	---	---	0	95.8	96.2	96.7	24
9/30	---	---	---	0	99.0	99.4	99.9	24	97.7	97.9	98.3	24	---	---	---	0	94.9	95.3	95.5	24
10/1	---	---	---	0	99.5	100.9	101.7	24	98.5	99.7	100.6	24	---	---	---	0	95.3	95.7	96.5	24
10/2	---	---	---	0	99.8	100.9	101.7	24	100.3	100.9	103.6	24	---	---	---	0	96.5	98.4	99.8	24
10/3	---	---	---	0	99.9	99.9	100.4	11	98.9	99.2	99.6	24	---	---	---	0	96.7	97.1	97.3	24
10/4	---	---	---	0	---	---	---	0	98.4	98.9	99.8	24	---	---	---	0	97.7	98.1	99.0	24
10/5	---	---	---	0	---	---	---	0	96.5	96.8	97.5	24	---	---	---	0	97.3	97.6	97.9	24
10/6	---	---	---	0	---	---	---	0	96.4	96.7	96.9	24	---	---	---	0	97.4	97.8	98.0	24
10/7	---	---	---	0	---	---	---	0	96.3	96.8	97.0	24	---	---	---	0	97.6	97.9	98.2	24
10/8	---	---	---	0	---	---	---	0	96.6	96.9	97.2	24	---	---	---	0	97.6	97.9	98.3	24
10/9	---	---	---	0	---	---	---	0	95.9	96.1	96.7	24	---	---	---	0	96.9	97.1	97.4	24
10/10	---	---	---	0	---	---	---	0	96.2	96.8	97.1	24	---	---	---	0	97.3	97.8	98.3	24
10/11	---	---	---	0	---	---	---	0	96.6	97.2	97.3	24	---	---	---	0	97.5	98.2	99.0	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>		
	<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	
9/28	---	---	---	0	99.3	99.6	100.0	24	98.0	98.2	98.4	24	100.4	101.1	101.8	24	---	---	---	0
9/29	---	---	---	0	98.6	99.0	99.5	24	97.8	98.2	98.9	24	99.8	100.5	101.2	24	---	---	---	0
9/30	---	---	---	0	97.1	97.4	97.8	24	97.2	97.7	98.0	24	98.9	99.4	100.0	24	---	---	---	0
10/1	---	---	---	0	97.6	98.3	98.7	24	99.0	100.0	100.5	24	99.4	100.4	101.2	24	---	---	---	0
10/2	---	---	---	0	97.9	98.5	98.9	24	98.3	98.7	99.1	24	99.7	100.5	101.3	24	---	---	---	0
10/3	---	---	---	0	97.6	98.3	98.8	24	98.0	98.3	98.5	24	98.7	99.3	99.8	24	---	---	---	0
10/4	---	---	---	0	98.3	98.6	98.8	24	98.4	98.4	98.6	10	98.7	99.4	99.9	24	---	---	---	0
10/5	---	---	---	0	98.2	98.5	99.3	24	---	---	---	0	99.1	99.5	99.9	24	---	---	---	0
10/6	---	---	---	0	98.1	98.5	98.9	24	---	---	---	0	99.1	99.7	101.1	24	---	---	---	0
10/7	---	---	---	0	97.7	98.0	98.4	24	---	---	---	0	99.2	99.8	100.4	24	---	---	---	0
10/8	---	---	---	0	97.3	97.7	98.8	24	---	---	---	0	99.0	99.5	100.4	24	---	---	---	0
10/9	---	---	---	0	97.0	97.3	98.0	24	---	---	---	0	99.1	99.9	100.9	24	---	---	---	0
10/10	---	---	---	0	96.8	97.2	97.6	24	---	---	---	0	98.6	99.1	99.8	24	---	---	---	0
10/11	---	---	---	0	96.8	97.2	98.0	24	---	---	---	0	99.1	99.7	101.3	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	<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>24 h</u>	<u>12 h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#					
	Avg	Avg		High	hr		Avg	Avg		High	hr		Avg	Avg		High	hr	Avg	AVG	High
9/28	102.0	102.1	102.3	24	101.8	101.9	101.9	24	---	---	---	0	101.2	101.7	102.3	24	---	---	---	0
9/29	102.0	102.1	102.3	24	101.4	101.5	101.7	24	---	---	---	0	101.1	101.5	102.0	24	---	---	---	0
9/30	101.5	101.8	101.9	24	100.8	100.9	101.1	24	---	---	---	0	100.4	100.8	101.3	24	---	---	---	0
10/1	102.2	102.8	103.3	24	102.6	104.4	109.9	24	---	---	---	0	100.5	101.2	101.5	24	---	---	---	0
10/2	102.9	103.1	103.3	24	102.5	102.8	103.3	24	---	---	---	0	100.5	100.9	101.3	24	---	---	---	0
10/3	100.8	101.1	101.6	24	100.6	100.8	101.0	24	---	---	---	0	99.4	99.9	100.3	24	---	---	---	0
10/4	100.6	100.7	100.9	14	100.2	100.4	100.6	24	---	---	---	0	99.6	100.1	100.8	24	---	---	---	0
10/5	---	---	---	0	100.0	100.3	100.7	24	---	---	---	0	99.4	99.6	99.9	24	---	---	---	0
10/6	---	---	---	0	99.5	99.9	100.1	24	---	---	---	0	99.7	100.1	100.7	24	---	---	---	0
10/7	---	---	---	0	99.7	100.0	100.4	24	---	---	---	0	100.1	101.0	101.5	24	---	---	---	0
10/8	---	---	---	0	100.0	100.3	100.5	24	---	---	---	0	100.0	100.3	100.7	24	---	---	---	0
10/9	---	---	---	0	99.5	99.8	100.2	24	---	---	---	0	99.7	100.0	100.5	24	---	---	---	0
10/10	---	---	---	0	100.0	100.3	101.2	24	---	---	---	0	100.0	100.5	101.5	24	---	---	---	0
10/11	---	---	---	0	100.3	100.6	101.1	24	---	---	---	0	100.3	100.8	101.3	24	---	---	---	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\Washougal</u>			<u>Cascade Island</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#					
	Avg	Avg		High	hr		Avg	Avg		High	hr		Avg	Avg		High	hr	Avg	Avg	High
9/28	102.2	102.3	102.6	24	---	---	---	0	103.3	103.5	103.8	24	---	---	---	0	---	---	---	0
9/29	101.6	101.8	102.0	24	---	---	---	0	102.8	103.0	103.3	24	---	---	---	0	---	---	---	0
9/30	101.4	101.5	101.7	24	---	---	---	0	102.6	102.8	103.0	24	---	---	---	0	---	---	---	0
10/1	102.2	102.7	102.9	24	---	---	---	0	103.4	104.1	104.6	24	---	---	---	0	---	---	---	0
10/2	102.5	102.8	103.2	24	---	---	---	0	102.1	102.4	102.7	24	---	---	---	0	---	---	---	0
10/3	100.7	100.8	101.0	24	---	---	---	0	101.2	101.5	102.1	24	---	---	---	0	---	---	---	0
10/4	100.6	101.0	101.3	24	---	---	---	0	101.1	101.6	102.0	24	---	---	---	0	---	---	---	0
10/5	100.8	101.1	101.3	24	---	---	---	0	100.9	101.3	101.6	24	---	---	---	0	---	---	---	0
10/6	101.2	101.6	101.8	24	---	---	---	0	100.7	101.1	101.6	24	---	---	---	0	---	---	---	0
10/7	101.8	102.4	102.6	24	---	---	---	0	101.6	102.5	102.9	24	---	---	---	0	---	---	---	0
10/8	102.1	102.3	102.5	24	---	---	---	0	102.6	103.0	103.7	24	---	---	---	0	---	---	---	0
10/9	101.6	101.9	102.1	24	---	---	---	0	102.3	102.6	102.9	24	---	---	---	0	---	---	---	0
10/10	102.0	102.3	102.5	24	---	---	---	0	102.9	103.1	103.4	24	---	---	---	0	---	---	---	0
10/11	101.7	102.0	102.3	24	---	---	---	0	103.4	103.9	104.2	24	---	---	---	0	---	---	---	0

Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 10/12/2012 9:00

Two-Week Summary of Passage Indices

* One or more of the sites on this date had an incomplete or biased sample.

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

For clip information see: <http://www.fpc.org/CurrentDaily/catch.htm>

For sockeye and yearling chinook (Snake only) race information see: <http://www.fpc.org/smoltqueries/currentsmpsubmitdata.asp>

COMBINED YEARLING CHINOOK												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
09/28/2012	*	---	---	---	---	0	0	0	---	0	---	0
09/29/2012	*	---	---	---	---	0	0	0	---	0	---	0
09/30/2012	*	---	---	---	---	0	0	0	---	0	---	0
10/01/2012	*	---	---	---	---	0	0	0	---	0	---	0
10/02/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/03/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/04/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/05/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/06/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/07/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/08/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/09/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/10/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/11/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/12/2012		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:	0	0	0	0	0	0	0	0	0	0	0	
# Days:	0	0	0	0	14	14	4	0	4	0	14	
Average:	0	0	0	0	0	0	0	0	0	0	0	
YTD	58,098	10,922	26,417	13,494	4,042,663	2,266,021	754,597	25,797	2,179,425	4,290,562	2,538,937	

COMBINED SUBYEARLING CHINOOK												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
09/28/2012	*	---	---	---	---	297	5	2	---	650	---	262
09/29/2012	*	---	---	---	---	642	8	5	---	400	---	63
09/30/2012	*	---	---	---	---	639	3	3	---	575	---	0
10/01/2012	*	---	---	---	---	450	4	43	---	475	---	92
10/02/2012	*	---	---	---	---	419	4	---	---	---	---	44
10/03/2012	*	---	---	---	---	378	6	---	---	---	---	74
10/04/2012	*	---	---	---	---	90	19	---	---	---	---	87
10/05/2012	*	---	---	---	---	74	31	---	---	---	---	93
10/06/2012	*	---	---	---	---	187	158	---	---	---	---	0
10/07/2012	*	---	---	---	---	468	163	---	---	---	---	0
10/08/2012	*	---	---	---	---	515	190	---	---	---	---	0
10/09/2012	*	---	---	---	---	622	68	---	---	---	---	0
10/10/2012	*	---	---	---	---	722	87	---	---	---	---	91
10/11/2012	*	---	---	---	---	411	79	---	---	---	---	162
10/12/2012		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:	0	0	0	0	5,914	825	53	0	2,100	0	968	
# Days:	0	0	0	0	14	14	4	0	4	0	14	
Average:	0	0	0	0	422	59	13	0	525	0	69	
YTD	0	5	67	327	1,073,587	1,050,103	378,120	28,725	3,300,802	3,974,621	5,580,694	

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)	
09/28/2012	*	---	---	---	---	1	0	0	---	0	---	0
09/29/2012	*	---	---	---	---	0	0	0	---	0	---	0
09/30/2012	*	---	---	---	---	0	0	0	---	0	---	0
10/01/2012	*	---	---	---	---	1	0	0	---	0	---	0
10/02/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/03/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/04/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/05/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/06/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/07/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/08/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/09/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/10/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/11/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/12/2012	*	---	---	---	---	---	---	---	---	---	---	---
Total:		0	0	0	0	2	0	0	0	0	0	0
# Days:		0	0	0	0	14	14	4	0	4	0	14
Average:		0	0	0	0	0	0	0	0	0	0	0
YTD		0	0	0	80	69,834	78,639	19,964	49,618	145,764	287,512	689,839

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)	
09/28/2012	*	---	---	---	---	2	0	0	---	0	---	0
09/29/2012	*	---	---	---	---	0	0	0	---	0	---	0
09/30/2012	*	---	---	---	---	0	0	0	---	0	---	0
10/01/2012	*	---	---	---	---	0	0	0	---	0	---	0
10/02/2012	*	---	---	---	---	2	0	---	---	---	---	0
10/03/2012	*	---	---	---	---	1	0	---	---	---	---	0
10/04/2012	*	---	---	---	---	1	1	---	---	---	---	0
10/05/2012	*	---	---	---	---	0	1	---	---	---	---	0
10/06/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/07/2012	*	---	---	---	---	1	0	---	---	---	---	0
10/08/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/09/2012	*	---	---	---	---	1	0	---	---	---	---	0
10/10/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/11/2012	*	---	---	---	---	0	0	---	---	---	---	0
10/12/2012	*	---	---	---	---	---	---	---	---	---	---	---
Total:		0	0	0	0	8	2	0	0	0	0	0
# Days:		0	0	0	0	14	14	4	0	4	0	14
Average:		0	0	0	0	1	0	0	0	0	0	0
YTD		2,722	21,616	2,065	2,311	3,539,025	1,490,316	611,064	17,329	543,078	2,834,971	296,204

Two-Week Summary of Passage Indices

COMBINED SOCKEYE												
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
09/28/2012 *	---	---	---	---	2	1	0	---	0	---	0	
09/29/2012 *	---	---	---	---	4	0	0	---	0	---	0	
09/30/2012 *	---	---	---	---	3	0	0	---	0	---	0	
10/01/2012 *	---	---	---	---	7	0	0	---	0	---	0	
10/02/2012 *	---	---	---	---	1	0	---	---	---	---	0	
10/03/2012 *	---	---	---	---	0	0	---	---	---	---	0	
10/04/2012 *	---	---	---	---	0	0	---	---	---	---	0	
10/05/2012 *	---	---	---	---	4	2	---	---	---	---	0	
10/06/2012 *	---	---	---	---	2	0	---	---	---	---	0	
10/07/2012 *	---	---	---	---	1	0	---	---	---	---	0	
10/08/2012 *	---	---	---	---	1	1	---	---	---	---	0	
10/09/2012 *	---	---	---	---	4	1	---	---	---	---	0	
10/10/2012 *	---	---	---	---	3	2	---	---	---	---	0	
10/11/2012 *	---	---	---	---	1	2	---	---	---	---	0	
10/12/2012	---	---	---	---	---	---	---	---	---	---	---	
Total:	0	0	0	0	33	9	0	0	0	0	0	
# Days:	0	0	0	0	14	14	4	0	4	0	14	
Average:	0	0	0	0	2	1	0	0	0	0	0	
YTD	5	0	0	475	43,498	37,252	18,251	46,856	1,135,873	851,019	778,777	

COMBINED LAMPREY JUVENILES												
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR [†] (Coll)	LGS (Coll)	LMN (Coll)	RIS (Coll)	MCN (Coll)	JDA (Coll)	BO2 (Coll)	
09/28/2012 *	---	---	---	---	0	5	0	---	0	---	0	
09/29/2012 *	---	---	---	---	0	1	0	---	0	---	0	
09/30/2012 *	---	---	---	---	0	2	0	---	0	---	4	
10/01/2012 *	---	---	---	---	0	2	0	---	0	---	0	
10/02/2012 *	---	---	---	---	1	1	---	---	---	---	0	
10/03/2012 *	---	---	---	---	0	2	---	---	---	---	0	
10/04/2012 *	---	---	---	---	0	0	---	---	---	---	0	
10/05/2012 *	---	---	---	---	0	0	---	---	---	---	0	
10/06/2012 *	---	---	---	---	0	6	---	---	---	---	0	
10/07/2012 *	---	---	---	---	0	5	---	---	---	---	0	
10/08/2012 *	---	---	---	---	0	2	---	---	---	---	0	
10/09/2012 *	---	---	---	---	1	1	---	---	---	---	0	
10/10/2012 *	---	---	---	---	2	2	---	---	---	---	0	
10/11/2012 *	---	---	---	---	0	2	---	---	---	---	0	
10/12/2012	---	---	---	---	---	---	---	---	---	---	---	
Total:	0	0	0	0	4	31	0	0	0	0	4	
# Days:	0	0	0	0	14	14	4	0	4	0	14	
Average:	0	0	0	0	0	2	0	0	0	0	0	
YTD	6	0	0	0	7,006	6,623	2,212	135	121,932	502,951	31,919	

Two-Week Summary of Passage Indices

* 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, sockeye, and lamprey juveniles. Two classes of fish counts are shown in these tables:

Two classes of fish counts are shown in these tables:

Collection counts (Coll), which account for sample rates but are not adjusted for flow;

Passage indices (INDEX), 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.

Combined lamprey juvenile collection counts are provided for all sites. Combined lamprey juveniles is a combination of pacific lamprey ammocoetes, brook lamprey ammocoetes, unknown lamprey ammocoetes, pacific lamprey macrophthalmia, and unidentified lamprey species.

† Caution should be used with interpreting lamprey juvenile collection counts at LGR because of the possibility that lamprey may escape the sample tank before being sampled

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.

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.

WTB and LEW data collected for the FPC by Idaho Dept. of Fish and Game.

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

10/12/12 8:56 AM

		09/28/12 TO 10/12/12					
		Species					
Site	Data	CHO	CO	ST	SO	Grand Total	
LGR	Sum of NumberCollected	5,914		2	8	33	5,957
	Sum of NumberBarged	0		0	0	0	0
	Sum of NumberBypassed	2,040		0	0	0	2,040
	Sum of Numbertrucked	3,809		2	7	29	3,847
	Sum of SampleMorts	64		0	1	4	69
	Sum of FacilityMorts	0		0	0	0	0
	Sum of ResearchMorts	1		0	0	0	1
	Sum of TotalProjectMorts	65		0	1	4	70
LGS	Sum of NumberCollected	825			2	9	836
	Sum of NumberBarged	0			0	0	0
	Sum of NumberBypassed	2			0	0	2
	Sum of Numbertrucked	809			2	9	820
	Sum of SampleMorts	6			0	0	6
	Sum of FacilityMorts	8			0	0	8
	Sum of ResearchMorts	0			0	0	0
	Sum of TotalProjectMorts	14			0	0	14
LMN	Sum of NumberCollected	53					53
	Sum of NumberBarged	0					0
	Sum of NumberBypassed	0					0
	Sum of Numbertrucked	51					51
	Sum of SampleMorts	2					2
	Sum of FacilityMorts	0					0
	Sum of ResearchMorts	0					0
	Sum of TotalProjectMorts	2					2
MCN	Sum of NumberCollected	2,100					2,100
	Sum of NumberBarged	0					0
	Sum of NumberBypassed	0					0
	Sum of Numbertrucked	2,081					2,081
	Sum of SampleMorts	1					1
	Sum of FacilityMorts	18					18
	Sum of ResearchMorts	0					0
	Sum of TotalProjectMorts	19					19
Total Sum of NumberCollected		8,892		2	10	42	8,946
Total Sum of NumberBarged		0		0	0	0	0
Total Sum of NumberBypassed		2,042		0	0	0	2,042
Total Sum of Numbertrucked		6,750		2	9	38	6,799
Total Sum of SampleMorts		73		0	1	4	78
Total Sum of FacilityMorts		26		0	0	0	26
Total Sum of ResearchMorts		1		0	0	0	1
Total Sum of TotalProjectMorts		100		0	1	4	105

YTD Transportation Summary

Source: Fish Passage Center

Updated:

10/12/12 8:56 AM

TO: 10/12/12

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	679,240	2,693,486	47,678	30,736	2,353,402	5,804,542
	Sum of NumberBarged	652,812	989,041	39,447	29,087	949,611	2,659,998
	Sum of NumberBypassed	15,164	1,702,758	8,165	1,430	1,403,473	3,130,990
	Sum of NumberTrucked	8,944	3	29	110	37	9,123
	Sum of SampleMorts	498	180	4	45	64	791
	Sum of FacilityMorts	1,820	1,429	33	64	182	3,528
	Sum of ResearchMorts	2	75	0	0	35	112
	Sum of TotalProjectMorts	2,320	1,684	37	109	281	4,431
LGS	Sum of NumberCollected	663,872	1,498,505	53,315	25,811	971,268	3,212,771
	Sum of NumberBarged	659,750	1,109,509	51,706	25,027	683,534	2,529,526
	Sum of NumberBypassed	123	388,249	1,601	691	287,507	678,171
	Sum of NumberTrucked	3,071	1	6	82	39	3,199
	Sum of SampleMorts	166	30	0	3	15	214
	Sum of FacilityMorts	762	716	2	8	173	1,661
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	928	746	2	11	188	1,875
LMN	Sum of NumberCollected	251,997	543,406	14,387	13,403	438,643	1,261,836
	Sum of NumberBarged	235,990	531,284	14,356	13,372	428,327	1,223,329
	Sum of NumberBypassed	12,941	11,582	19	13	9,831	34,386
	Sum of NumberTrucked	2,019	8	2	6	0	2,035
	Sum of SampleMorts	509	60	0	4	38	611
	Sum of FacilityMorts	538	472	10	8	150	1,178
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	1,047	532	10	12	188	1,789
MCN	Sum of NumberCollected	1,390,995	1,040,187	72,876	555,784	247,889	3,307,731
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	1,174,739	1,039,959	72,876	555,534	247,862	3,090,970
	Sum of NumberTrucked	214,232	49	0	173	0	214,454
	Sum of SampleMorts	217	43	0	28	10	298
	Sum of FacilityMorts	1,807	136	0	49	17	2,009
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	2,024	179	0	77	27	2,307
Total Sum of NumberCollected		2,986,104	5,775,584	188,256	625,734	4,011,202	13,586,880
Total Sum of NumberBarged		1,548,552	2,629,834	105,509	67,486	2,061,472	6,412,853
Total Sum of NumberBypassed		1,202,967	3,142,548	82,661	557,668	1,948,673	6,934,517
Total Sum of NumberTrucked		228,266	61	37	371	76	228,811
Total Sum of SampleMorts		1,390	313	4	80	127	1,914
Total Sum of FacilityMorts		4,927	2,753	45	129	522	8,376
Total Sum of ResearchMorts		2	75	0	0	35	112
Total Sum of TotalProjectMorts		6,319	3,141	49	209	684	10,402

Cumulative Adult Passage at Mainstem Dams Through: 10/12

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2012		2011		10-Yr Avg.		2012		2011		10-Yr Avg.		2012		2011		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	10/11	158075	7591	167097	50945	152015	20110	81663	12235	108279	51451	92437	17241	344518	120301	390630	79766	392212	51215
TDA	10/11	117071	7173	124164	40146	112195	16495	69222	10392	81123	39845	79218	13523	219819	103749	224737	67231	214142	42180
JDA	10/11	107655	6755	103401	39823	94492	15370	60814	10415	75375	35544	72273	14191	161747	87152	170952	60138	160050	37447
MCN	10/11	102763	4787	101246	31750	86252	13687	64428	5104	74621	28165	68072	11090	165808	49013	148850	39365	126304	26987
IHR	10/11	71957	2905	69306	18161	60108	8392	14182	1481	26758	12378	18923	4410	37757	20930	30290	18796	21354	12518
LMN	10/11	68608	2891	69832	18094	58469	7193	15150	1611	31176	13730	19948	4267	32772	22106	26298	16490	19544	11656
LGS	10/11	68247	3449	67321	23492	54053	8198	14748	1613	42211	18214	18393	5041	33302	18098	26299	15523	17829	8952
LGR	10/11	66366	3525	59342	22063	54084	9639	13163	1717	36764	16425	17083	5652	33068	20400	22772	17162	15479	11103
PRD	10/09	19495	1015	15246	6030	16630	1325	50667	1994	50865	4223	58386	2526	42582	8395	31788	5084	27907	4331
RIS	10/08	19881	800	13089	8394	14658	2236	52184	3343	44432	14299	54861	5446	7921	4539	7272	4618	8798	2308
RRH	10/08	6641	459	6989	3491	5643	822	45528	2775	38861	8131	42042	4317	5485	3041	5740	3063	5762	1685
WEL	10/10	5311	700	4153	3969	4833	817	38588	3271	29821	8465	31187	2517	2687	1003	2294	2040	3003	1219
WFA	10/10	35899	1314	43748	1399	50770	1108	-	-	-	-	-	-	1597	399	1754	337	1023	210

DAM	Coho						Sockeye			Steelhead					
	2012		2011		10-Yr Avg.		2012	2011	10-Yr Avg.	2012	2011	10-Yr Avg.	Wild 2012	Wild 2011	Wild 10-Yr Avg.
	Adult	Jack	Adult	Jack	Adult	Jack									
BON	45707	3502	134517	4148	101372	5910	515673	185796	130981	228082	363197	379471	82979	126991	114790
TDA	29396	2734	64156	4394	30832	3064	410099	138293	109313	189880	292881	290817	66430	100932	87054
JDA	28002	3458	53126	2660	27652	3496	394162	143605	113830	145507	245892	274445	54189	85190	80975
MCN	15472	1325	32853	1854	15235	1639	364147	113952	93284	130473	229893	223982	43369	71200	62246
IHR	2409	300	4454	783	1662	148	453	1141	390	89000	181953	169636	23038	45080	40780
LMN	1887	239	2950	227	1587	157	486	1395	486	84829	167721	163312	23619	41791	40562
LGS	2106	230	2694	346	1436	150	453	1436	467	81022	152592	147818	23496	40212	35049
LGR	1820	154	2665	198	1376	231	470	1501	573	81180	152265	147889	23399	40642	36756
PRD	7961	1555	7862	750	3435	355	408258	145070	118727	16513	19828	18531	-	-	-
RIS	6685	130	11935	472	4750	421	410615	146111	115768	14681	18053	17263	6155	8161	8446
RRH	1711	29	2635	76	884	101	363303	132096	94737	12058	13971	13176	4908	5846	5786
WEL	1374	6	1805	9	322	0	326104	111508	92052	8878	10847	9782	3842	4171	4263
WFA	3980	4320	2969	1835	5910	1381	-	-	-	29273	27722	27724	-	-	-

PRD and WFA do 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: 10/12/12

BON counts from January 1, 2012 to March 14, 2012 (historical counts begin March 15):

Year	Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
2012	12	1	1,471	497
2011	47	0	1,370	580