



## Fish Passage Center

# Weekly Report #15–28

October 9, 2015

*This is the final weekly report of the year.  
We will resume publication in  
the second half of March 2016.*

### Summary of Events

#### Water Supply

Precipitation throughout the Columbia Basin has varied between 72% and 93% of average at individual sub-basins over Water Year 2015. Precipitation above The Dalles has been 84% of average over the 2015 water year.

**Table 1. Summary of Water Year 2015 precipitation with respect to average (1971–2000) at select locations within the Columbia and Snake River Basins.**

Location	Water Year 2016	
	October 1, 2014 to September 30, 2015	
	Observed (inches)	% Average
Columbia above Coulee	36.3	93
SNAKE RIVER above Ice Harbor	18.8	82
Columbia above The Dalles	23.9	84
Kootenai	37.5	93
Clark Fork	20.5	72
Flathead	29.7	80
Pend Oreille River Basin above Waneta Dam	25.9	76
Salmon River Basin	23.4	79
Upper Snake Tributaries	24.6	88
Clearwater	32.7	78
Willamette River above Portland	51.2	78

Grand Coulee Reservoir is at 1,282.1 feet (10-7-15) and has held steady over the last week. Outflows at Grand Coulee have ranged between 53.6 and 88.0 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2,440.4 feet (10-7-15) and has held steady over the previous week. Daily average outflows at Libby Dam have ranged between 4.0 and 5.0 Kcfs over the last week.

Hungry Horse is currently at an elevation of 3,534.5 feet (10-7-15) and drafted 1.3 feet over the last week. Outflows at Hungry Horse have been 2.6–2.7 Kcfs over the last week.

Dworshak is currently at an elevation of 1,517.2 feet (10-7-15) and drafted 0.9 feet over the last week. Outflows have been 1.6 Kcfs over the last week.

The Brownlee Reservoir was at an elevation of 2,053.1 feet on October 7, 2015, and has held steady over the last week. Hells Canyon outflows have ranged between 9.3 and 11.1 Kcfs over the last 4 days.

#### Smolt Monitoring

Since October 1<sup>st</sup>, sampling for the Smolt Monitoring Program (SMP) at bypass facilities has been limited to Bonneville Dam on the Lower Columbia River and Little Goose and Lower Granite dams on the Snake River. Sampling at these three sites will continue through the rest of October until sampling is terminated on November 1<sup>st</sup>.

Samples at Bonneville Dam (BON) continue to be dominated by subyearling Chinook. In fact, no other target species were encountered at BON this week. This week's daily average passage index for subyearling Chinook at BON was nearly 100 fish per day, which is an increase over the previous week's daily average passage index of about 30 per day.

Samples at Lower Granite Dam (LGR) continued to be dominated by subyearling Chinook juveniles this week. This week's daily average passage index for subyearling Chinook at LGR was about 70 per day, which is an increase over the previous week's daily average passage index of about 20 per day. Descaling

rates for subyearling Chinook have been elevated this week, with descaling ranging from 6.0% on October 3<sup>rd</sup> to 11.6% on October 2<sup>nd</sup>. Yearling Chinook, coho, sockeye, and steelhead were also encountered in this week's samples, but in very low numbers. Finally, both Pacific lamprey ammocoetes and macrophthalmia were encountered in this week's samples. The ammocoetes were encountered in the sample from October 2<sup>nd</sup> while macrophthalmia were encountered in the samples from October 2<sup>nd</sup>, 4<sup>th</sup>, and 7<sup>th</sup>.

Sampling at Little Goose Dam (LGS) was limited to a 24-hour sample every other day from April 2<sup>nd</sup> to April 30<sup>th</sup>. Little Goose Dam began collecting fish for transportation on May 1<sup>st</sup> and, therefore, collections at LGS are every day for the rest of the season. Subyearling Chinook continued to dominate the samples at LGS this week. This week's daily average passage index for subyearling Chinook at LGS was only about 5 fish per day, which is a decrease from the previous week's daily average of 15 fish per day. The only spring migrants that were encountered in this week's samples were coho and sockeye. Coho were encountered in the samples from October 3<sup>rd</sup> and 4<sup>th</sup> while sockeye were encountered in the sample from October 6<sup>th</sup>. Finally, Pacific lamprey macrophthalmia were encountered in only two of this week's samples, October 2<sup>nd</sup> and 4<sup>th</sup>.

### 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. No new releases were scheduled for this zone this week and no new releases are scheduled over the next 2 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. No new releases were scheduled to begin in this zone this week. No new releases of juvenile salmonids are scheduled to begin in this zone over the next 2 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 were scheduled for this zone this week and no releases are scheduled for this zone over the next 2 weeks.

### Adult Passage

Fall Chinook counts began at Bonneville Dam (BON) on August 1st. Through October 8th, the 2015 cumulative adult fall Chinook count at BON is 903,757, which is about 1.08 times greater than the 2014 count of 834,631 and 2.07 times greater than the 10-year average count of 435,610. The 2015 Bonneville Dam fall Chinook jack count of 77,140 is about 59.5% of the 2014 count of 129,742 and 1.04 times greater than the 10-year average count of 73,829. At 60,080, the cumulative adult fall Chinook count at Ice Harbor Dam (through October 8th) is about 1.03 times greater than the 2014 count and 1.9 times greater than the 10-year average count for the same period. At Lower Granite Dam, the cumulative 2015 fall Chinook adult count (through October 8th) is 54,253, which is about 96% of the 2014 count, while being 2.11 times greater than the 10-year average cumulative count.

Through October 8th, the 2015 cumulative adult steelhead count at BON is 257,159, which is about 81% of the 2014 count of 317,373 and 74.7% of the 10-year average count of 343,958. The 2015 cumulative adult wild steelhead count at BON is 93,644, which is about 73.6% of the 2014 count and 84.4% of the 10-year average count. Daily adult steelhead counts at Lower Granite Dam (LGR) ranged from 689 to 884 adults per day last week. This year's LGR cumulative steelhead count is 95,985 (through October 8th), which is about 82% of the 2014 count and 75.7% of the 10-year average count. The 2015 cumulative adult wild steelhead count at LGR is 26,734, which is about 69.4% of the 2014 count and 82.6% of the 10-year average count. At Willamette Falls, the 2015 cumulative count for steelhead is 8,000 (through October 7th). To date, this year's steelhead count is 28.7% of the 2014 count and 33.8% of the 10-year average count.

Adult coho passage at BON has decreased over the last two weeks, with daily passage numbers ranging from 137 to 297 per day. Through October 8th, the cumulative adult coho count at BON is 28,633, which is about 14% of the 2014 count and 30% of the 10-year average count.

## **Hatchery Releases Last Two Weeks**

### **Hatchery Release Summary**

From 9/26/2015 to 10/9/2015

No Releases Scheduled

## **Hatchery Releases Next Two Weeks**

### **Hatchery Release Summary**

From 10/10/2015 to 10/22/2015

No Releases Scheduled

**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
09/25/2015	71.9	0.0	70.8	0.0	74.9	0.0	72.3	0.0	76.3	0.0	85.3	1.5	87.0	2.5
09/26/2015	62.4	0.0	62.9	0.0	58.0	0.0	53.1	0.0	55.7	0.0	51.0	1.5	54.3	3.6
09/27/2015	82.8	0.0	81.4	0.0	82.3	0.0	78.5	0.0	83.5	0.0	80.9	2.0	74.5	11.6
09/28/2015	82.8	0.0	82.1	0.0	85.6	0.0	84.0	0.0	88.6	0.4	98.0	1.9	97.2	2.7
09/29/2015	67.0	0.0	69.5	0.0	74.0	0.0	71.4	0.0	72.5	0.3	86.9	1.7	89.3	2.6
09/30/2015	74.4	0.0	77.2	0.0	75.6	0.0	77.0	0.0	80.6	0.0	80.5	1.6	79.1	2.6
10/01/2015	87.7	0.0	79.7	0.0	82.2	0.0	81.1	0.0	84.4	0.0	88.2	1.6	87.1	4.7
10/02/2015	66.5	0.0	71.1	0.0	72.1	0.0	70.5	0.0	72.0	0.0	72.9	1.9	71.8	2.6
10/03/2015	67.3	0.0	66.7	0.0	71.2	0.0	61.9	0.0	64.0	0.0	81.5	1.7	83.2	2.6
10/04/2015	65.0	0.0	67.8	0.0	68.1	0.0	64.5	0.0	67.2	0.0	66.6	1.5	66.7	2.5
10/05/2015	78.7	0.0	78.4	0.0	79.1	0.0	79.9	0.0	85.0	0.0	89.0	1.7	86.0	2.5
10/06/2015	60.1	0.0	63.7	0.0	68.4	0.0	63.8	0.0	67.5	0.0	79.6	1.4	83.0	2.0
10/07/2015	53.6	0.0	55.7	0.0	58.0	0.0	60.5	0.0	63.1	0.0	69.5	1.3	70.6	1.5
10/08/2015	53.1	0.0	52.1	0.0	58.1	0.0	55.4	0.0	57.4	0.0	72.7	1.1	72.2	1.9

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

Date	Dworshak		Brownlee Inflow	Hells Canyon	Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill		Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
09/25/2015	1.6	0.0	---	12.5	16.3	0.0	14.9	0.0	14.5	0.0	13.5	0.0
09/26/2015	1.6	0.0	---	11.5	16.8	0.0	13.3	0.0	13.4	0.0	13.7	0.0
09/27/2015	1.6	0.0	---	11.2	18.1	0.0	12.6	0.0	13.5	0.0	12.2	0.0
09/28/2015	1.6	0.0	---	11.0	18.2	0.0	15.6	0.0	16.1	0.0	14.8	0.0
09/29/2015	1.6	0.0	---	8.2	17.6	0.0	16.2	0.0	17.2	0.0	18.5	0.0
09/30/2015	1.6	0.0	---	8.7	16.1	0.0	15.6	0.0	15.9	0.0	15.6	0.0
10/01/2015	1.6	0.0	---	9.9	16.5	0.0	15.5	0.0	16.4	0.1	16.4	0.0
10/02/2015	1.6	0.0	---	9.6	14.6	0.0	14.0	0.0	13.9	0.0	11.4	0.0
10/03/2015	1.6	0.0	---	9.7	13.8	0.0	12.6	0.0	12.3	0.0	13.7	0.0
10/04/2015	1.6	0.0	---	9.7	15.3	0.0	15.0	0.0	14.8	0.0	14.5	0.0
10/05/2015	1.6	0.0	---	10.0	16.5	0.0	15.3	0.0	15.9	0.0	15.5	0.0
10/06/2015	1.6	0.0	---	10.4	16.0	0.0	15.6	0.0	16.2	0.0	15.8	0.0
10/07/2015	1.6	0.0	---	10.1	18.3	0.0	18.1	0.0	19.1	0.0	18.4	0.0
10/08/2015	1.6	0.0	---	10.7	19.8	0.0	20.2	0.0	21.2	0.0	19.9	0.0

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

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
09/25/2015	105.8	0.0	98.1	0.9	96.6	0.0	104.5	1.3	39.9	56.0
09/26/2015	87.8	0.0	87.8	0.9	88.0	0.0	92.8	1.3	29.2	54.9
09/27/2015	75.8	0.0	73.8	1.0	73.1	0.0	79.0	1.2	15.0	55.4
09/28/2015	96.4	0.0	93.1	0.9	89.8	0.0	96.7	1.2	33.2	54.9
09/29/2015	112.2	0.0	114.4	0.9	114.9	0.0	121.1	1.2	55.5	57.0
09/30/2015	103.9	0.0	102.6	0.9	99.5	0.0	106.9	1.2	43.3	55.0
10/01/2015	93.0	0.0	85.7	0.9	86.5	0.0	94.9	1.2	30.9	55.4
10/02/2015	95.6	0.0	73.2	0.9	71.4	0.0	80.9	1.2	17.4	54.8
10/03/2015	82.3	0.0	75.6	0.7	75.5	0.0	81.5	1.3	19.7	53.1
10/04/2015	96.9	0.0	77.6	0.9	80.1	0.0	88.3	1.2	25.3	54.4
10/05/2015	90.5	0.0	87.2	0.8	82.1	0.0	91.4	1.1	27.7	55.2
10/06/2015	102.5	0.0	101.7	0.8	100.4	0.0	110.1	1.2	44.9	56.6
10/07/2015	96.9	0.0	100.6	0.8	99.7	0.0	106.6	1.1	44.6	53.5
10/08/2015	90.2	0.0	88.3	0.8	87.3	0.0	97.3	0.9	35.7	53.3

## 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>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>
9/25	102.1	102.4	102.5	24	---	---	---	0	100.8	101.0	101.1	24	100.3	100.7	101.4	24	99.8	100.1	100.3	24
9/26	102.2	102.4	102.4	24	---	---	---	0	99.9	100.3	101.1	24	100.6	101.3	102.4	24	99.7	100.0	100.3	24
9/27	101.7	101.8	101.9	24	---	---	---	0	99.3	99.4	99.5	24	99.6	99.9	100.1	24	99.3	99.4	99.6	24
9/28	101.4	101.7	101.9	24	---	---	---	0	99.9	100.2	101.2	24	99.5	100.1	105.8	24	99.7	100.3	100.4	24
9/29	101.5	101.7	102.1	24	---	---	---	0	99.9	100.0	100.1	24	99.4	100.0	100.7	24	100.7	101.0	101.3	21
9/30	101.2	101.6	101.9	24	---	---	---	0	99.6	99.9	100.1	24	99.6	100.1	101.4	24	100.7	101.0	101.4	24
10/1	101.0	101.0	101.6	12	---	---	---	0	99.9	100.0	100.1	24	99.7	100.1	101.1	24	100.2	100.5	100.7	24
10/2	---	---	---	0	---	---	---	0	100.1	100.4	100.6	24	100.1	100.8	101.4	24	99.9	100.2	100.4	24
10/3	---	---	---	0	---	---	---	0	99.9	100.0	100.3	24	100.1	100.3	100.5	24	99.8	100.0	100.1	24
10/4	---	---	---	0	---	---	---	0	99.9	100.1	100.3	24	100.1	100.4	100.7	24	99.7	100.1	100.4	24
10/5	---	---	---	0	---	---	---	0	99.5	99.6	99.7	24	99.4	99.8	100.1	24	99.7	99.9	100.1	24
10/6	---	---	---	0	---	---	---	0	99.4	99.5	99.6	24	99.2	99.6	99.9	24	99.8	100.0	100.1	23
10/7	---	---	---	0	---	---	---	0	98.6	99.0	99.4	24	99.4	99.7	101.5	24	99.5	99.7	99.9	24
10/8	---	---	---	0	---	---	---	0	97.8	97.9	98.2	23	99.2	99.6	100.0	23	99.3	99.6	99.9	23

### Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>							
	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>
9/25	99.4	99.6	99.9	24	100.6	100.8	101.0	24	100.6	100.8	101.2	24	101.0	101.1	101.2	24	100.9	101.2	101.5	24
9/26	99.3	99.6	99.9	24	100.4	100.9	101.4	24	100.3	100.8	101.8	24	100.6	100.8	101.1	24	100.2	100.3	100.9	24
9/27	98.7	98.9	99.2	24	99.5	99.9	100.5	24	99.5	99.9	100.5	24	100.1	100.1	100.3	24	100.1	100.3	100.5	24
9/28	99.3	100.1	100.3	24	99.6	100.1	100.5	24	99.7	100.2	100.7	24	100.0	100.2	100.4	24	100.1	100.4	100.8	24
9/29	100.3	100.9	101.4	24	99.8	100.2	100.7	21	99.6	100.0	100.7	21	100.4	100.6	100.8	24	100.3	100.6	100.8	24
9/30	100.3	100.6	100.9	24	100.3	100.7	101.2	24	99.9	100.5	101.1	24	100.4	100.7	100.8	24	100.4	100.8	101.1	24
10/1	99.8	100.0	100.3	24	100.6	101.0	101.6	24	100.4	100.9	101.6	24	100.5	100.5	100.7	24	100.2	100.6	100.9	24
10/2	99.7	100.2	100.5	24	100.4	100.6	101.1	24	100.3	100.7	101.1	24	100.3	100.5	100.5	24	100.5	101.0	102.2	24
10/3	100.4	100.9	101.6	24	99.5	99.7	100.0	24	99.4	99.8	100.3	24	100.2	100.3	100.4	24	101.1	101.6	102.0	24
10/4	101.3	101.8	102.3	24	99.2	99.5	99.9	24	99.1	99.9	100.5	24	100.2	100.4	100.5	24	101.3	101.9	102.4	24
10/5	100.7	101.4	102.0	20	99.2	99.4	99.6	24	99.6	100.0	100.4	24	100.3	100.4	100.5	24	101.5	102.0	102.4	24
10/6	---	---	---	0	99.0	99.1	99.2	24	99.4	99.6	99.9	24	99.9	100.0	100.1	24	101.4	101.9	102.3	24
10/7	---	---	---	0	98.9	98.9	99.1	8	98.7	98.9	99.3	24	99.3	99.5	99.9	24	100.6	101.2	102.2	24
10/8	---	---	---	0	99.1	99.1	99.3	9	98.2	98.7	98.8	23	98.9	99.1	99.2	23	100.4	100.7	101.3	23

### 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>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>
9/25	100.5	100.5	100.7	24	100.7	100.8	100.9	24	101.0	101.6	102.2	24	101.3	101.5	101.9	24	100.7	101.4	101.8	24
9/26	100.0	100.2	100.4	24	100.1	100.3	100.4	24	99.7	100.1	100.8	24	100.7	101.0	101.3	24	99.7	100.0	100.4	24
9/27	99.4	99.5	99.6	24	99.4	99.6	99.9	24	99.7	100.7	101.3	24	100.4	100.7	101.0	24	99.0	99.8	100.3	24
9/28	98.7	99.6	99.7	24	100.0	100.2	100.7	24	100.3	100.7	101.0	24	100.6	100.9	101.1	24	100.0	100.5	101.0	24
9/29	99.5	99.7	99.9	24	100.2	100.5	101.7	24	100.6	101.6	102.5	24	100.8	101.1	101.4	24	100.6	101.2	101.7	24
9/30	99.7	99.8	100.0	24	100.1	100.2	100.4	24	101.1	101.5	101.7	24	100.8	101.1	101.3	24	100.7	101.2	101.5	24
10/1	99.6	99.7	99.7	24	100.1	100.2	100.3	24	99.8	100.6	101.1	24	100.6	100.8	101.3	24	100.2	100.7	101.2	24
10/2	99.5	99.7	99.9	24	99.9	100.0	100.1	24	99.3	100.1	100.3	24	100.7	101.1	101.4	24	99.6	100.3	100.7	24
10/3	99.2	99.3	99.5	24	99.5	99.6	99.9	24	99.3	99.5	99.7	24	100.2	100.4	100.7	24	99.6	100.1	100.4	24
10/4	99.2	99.4	99.6	24	99.7	100.1	100.3	24	99.4	99.9	100.5	24	100.1	100.4	100.7	24	99.6	100.2	100.8	24
10/5	99.2	99.3	99.5	24	99.8	99.9	100.0	23	97.7	98.0	98.3	24	100.2	100.4	100.6	24	99.6	100.4	100.8	24
10/6	99.2	99.2	99.3	24	99.9	100.0	100.1	24	97.6	97.7	97.9	24	99.7	99.9	100.2	24	100.0	100.3	100.6	24
10/7	98.7	98.9	99.1	24	99.2	99.4	99.7	24	97.1	97.4	97.5	24	99.3	99.6	100.1	24	99.3	99.5	99.7	24
10/8	98.2	98.4	98.5	23	98.0	98.3	98.5	23	---	---	---	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			Clrwtr-Peck			Anatone			#				
	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High					
9/25	101.1	101.6	101.9	24	---	---	---	0	103.8	104.6	105.8	24	---	---	---	0	---	---	---	0
9/26	100.6	100.9	101.0	24	---	---	---	0	103.7	104.3	105.4	24	---	---	---	0	---	---	---	0
9/27	102.3	104.6	108.3	24	---	---	---	0	103.4	104.0	105.1	24	---	---	---	0	---	---	---	0
9/28	100.2	100.7	101.1	24	---	---	---	0	103.3	104.0	104.9	24	---	---	---	0	---	---	---	0
9/29	100.7	101.2	101.6	24	---	---	---	0	103.7	104.4	105.3	24	---	---	---	0	---	---	---	0
9/30	100.9	101.4	101.8	24	---	---	---	0	103.8	104.5	105.7	24	---	---	---	0	---	---	---	0
10/1	101.1	101.8	104.6	24	---	---	---	0	103.7	104.1	104.8	24	---	---	---	0	---	---	---	0
10/2	100.6	100.8	101.1	24	---	---	---	0	103.8	104.5	105.6	24	---	---	---	0	---	---	---	0
10/3	100.3	100.6	100.8	24	---	---	---	0	103.9	104.5	105.3	24	---	---	---	0	---	---	---	0
10/4	100.3	100.7	101.1	24	---	---	---	0	103.7	104.3	105.5	24	---	---	---	0	---	---	---	0
10/5	100.3	100.6	100.8	24	---	---	---	0	103.5	104.1	105.1	24	---	---	---	0	---	---	---	0
10/6	100.1	100.4	100.8	24	---	---	---	0	103.5	104.1	105.1	24	---	---	---	0	---	---	---	0
10/7	99.7	99.8	100.1	24	---	---	---	0	103.2	103.6	104.5	24	---	---	---	0	---	---	---	0
10/8	---	---	---	0	---	---	---	0	104.7	105.2	106.0	23	---	---	---	0	---	---	---	0

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

Date	Clrwtr-Lewiston			Lower Granite			L. Granite Tlwr			Little Goose			L. Goose Tlwr			#				
	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High					
9/25	---	---	---	0	---	---	---	0	99.6	100.1	100.5	24	---	---	---	0	98.9	99.7	101.7	24
9/26	---	---	---	0	---	---	---	0	98.7	99.1	99.3	24	---	---	---	0	97.3	97.7	98.0	24
9/27	---	---	---	0	---	---	---	0	98.0	98.2	98.5	24	---	---	---	0	96.7	97.2	97.6	24
9/28	---	---	---	0	---	---	---	0	98.5	99.2	99.5	24	---	---	---	0	97.0	97.4	97.8	24
9/29	---	---	---	0	---	---	---	0	99.4	99.7	100.1	24	---	---	---	0	97.1	97.5	98.1	24
9/30	---	---	---	0	---	---	---	0	98.8	99.1	99.5	24	---	---	---	0	96.5	96.9	97.2	24
10/1	---	---	---	0	---	---	---	0	97.6	98.1	98.3	24	---	---	---	0	95.9	96.3	96.6	24
10/2	---	---	---	0	---	---	---	0	96.3	96.8	97.3	24	---	---	---	0	95.9	96.4	96.8	24
10/3	---	---	---	0	---	---	---	0	95.8	96.5	97.2	24	---	---	---	0	96.4	96.7	97.1	24
10/4	---	---	---	0	---	---	---	0	96.8	97.5	98.0	24	---	---	---	0	96.8	97.2	97.7	24
10/5	---	---	---	0	---	---	---	0	97.3	98.3	98.7	24	---	---	---	0	96.7	97.0	97.4	24
10/6	---	---	---	0	---	---	---	0	97.3	97.9	98.3	24	---	---	---	0	96.1	96.4	96.8	24
10/7	---	---	---	0	---	---	---	0	96.5	96.9	97.3	24	---	---	---	0	95.7	96.0	96.6	24
10/8	---	---	---	0	---	---	---	0	96.2	96.7	97.1	23	---	---	---	0	96.2	96.4	96.7	23

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

Date	Lower Mon.			L. Mon. Tlwr			Ice Harbor			Ice Harbor Tlwr			McNary-Oregon			#				
	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High					
9/25	---	---	---	0	96.3	96.8	98.4	24	---	---	---	0	98.6	99.5	100.4	24	---	---	---	0
9/26	---	---	---	0	95.9	96.5	97.7	24	---	---	---	0	98.4	98.9	99.6	24	---	---	---	0
9/27	---	---	---	0	95.8	96.2	97.1	24	---	---	---	0	98.1	98.8	99.5	24	---	---	---	0
9/28	---	---	---	0	96.0	96.5	97.2	24	---	---	---	0	98.1	98.9	99.9	24	---	---	---	0
9/29	---	---	---	0	97.2	97.9	99.7	24	---	---	---	0	98.0	98.6	100.2	24	---	---	---	0
9/30	---	---	---	0	97.0	97.5	98.2	24	---	---	---	0	98.3	99.0	100.1	24	---	---	---	0
10/1	---	---	---	0	97.0	97.5	98.0	24	---	---	---	0	98.4	99.0	99.4	24	---	---	---	0
10/2	---	---	---	0	96.8	97.2	97.7	24	---	---	---	0	98.6	99.5	100.3	24	---	---	---	0
10/3	---	---	---	0	97.1	97.5	98.6	24	---	---	---	0	98.3	98.7	99.5	24	---	---	---	0
10/4	---	---	---	0	97.6	98.1	99.3	24	---	---	---	0	98.1	98.8	100.1	24	---	---	---	0
10/5	---	---	---	0	97.2	97.5	98.8	24	---	---	---	0	97.7	98.4	98.9	24	---	---	---	0
10/6	---	---	---	0	96.9	97.3	98.1	24	---	---	---	0	97.7	98.6	99.6	24	---	---	---	0
10/7	---	---	---	0	96.4	96.8	97.4	24	---	---	---	0	97.7	98.2	98.8	24	---	---	---	0
10/8	---	---	---	0	96.0	96.5	97.8	23	---	---	---	0	97.4	98.0	98.6	23	---	---	---	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	High	#	24 h	12 h	High	#	24h	12h	High	#	24h	12h	High	#				
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr				
9/25	---	---	---	0	100.2	100.6	101.0	24	---	---	---	0	94.3	95.1	96.2	24	---	---	---	0
9/26	---	---	---	0	99.7	100.0	100.2	24	---	---	---	0	95.0	95.5	96.0	24	---	---	---	0
9/27	---	---	---	0	99.5	99.9	100.4	24	---	---	---	0	92.4	93.0	93.8	24	---	---	---	0
9/28	---	---	---	0	99.9	100.4	100.8	24	---	---	---	0	93.6	94.6	95.0	24	---	---	---	0
9/29	---	---	---	0	100.6	101.6	104.6	24	---	---	---	0	92.9	93.9	94.8	24	---	---	---	0
9/30	---	---	---	0	100.1	100.4	100.6	24	---	---	---	0	91.0	91.0	91.9	9	---	---	---	0
10/1	---	---	---	0	99.6	99.9	100.3	24	---	---	---	0	100.1	100.1	101.1	13	---	---	---	0
10/2	---	---	---	0	99.3	99.8	100.1	24	---	---	---	0	99.5	99.8	100.4	24	---	---	---	0
10/3	---	---	---	0	99.4	99.7	100.1	24	---	---	---	0	99.4	99.8	100.0	24	---	---	---	0
10/4	---	---	---	0	99.6	100.0	100.5	24	---	---	---	0	100.0	100.4	100.8	24	---	---	---	0
10/5	---	---	---	0	99.2	99.5	99.7	24	---	---	---	0	99.6	100.0	100.8	24	---	---	---	0
10/6	---	---	---	0	99.1	99.4	99.6	24	---	---	---	0	99.5	99.7	100.1	24	---	---	---	0
10/7	---	---	---	0	98.8	98.9	99.0	24	---	---	---	0	98.7	98.9	99.5	24	---	---	---	0
10/8	---	---	---	0	98.6	98.8	99.0	23	---	---	---	0	99.5	100.2	100.8	23	---	---	---	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	High	#	24 h	12 h	High	#	24h	12h	High	#	24h	12h	High	#	24h	12h	High	#
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr
9/25	100.4	100.7	100.8	24	---	---	---	0	103.7	104.3	104.6	24	---	---	---	0	---	---	---	0
9/26	100.0	100.2	100.3	24	---	---	---	0	103.3	103.8	104.2	24	---	---	---	0	---	---	---	0
9/27	100.0	100.3	100.4	24	---	---	---	0	104.6	105.7	106.2	24	---	---	---	0	---	---	---	0
9/28	100.1	100.3	100.6	24	---	---	---	0	103.4	104.4	105.3	24	---	---	---	0	---	---	---	0
9/29	99.9	100.2	100.6	24	---	---	---	0	103.1	103.7	104.1	24	---	---	---	0	---	---	---	0
9/30	100.0	100.3	100.6	24	---	---	---	0	103.6	104.3	105.3	24	---	---	---	0	---	---	---	0
10/1	100.1	100.4	100.7	24	---	---	---	0	104.6	105.3	106.1	24	---	---	---	0	---	---	---	0
10/2	99.9	100.0	100.1	24	---	---	---	0	103.4	103.8	104.2	24	---	---	---	0	---	---	---	0
10/3	100.1	100.3	100.7	24	---	---	---	0	104.3	105.1	105.8	24	---	---	---	0	---	---	---	0
10/4	100.1	100.3	100.5	24	---	---	---	0	104.2	104.9	105.8	24	---	---	---	0	---	---	---	0
10/5	99.9	100.3	100.6	24	---	---	---	0	103.4	104.2	105.1	24	---	---	---	0	---	---	---	0
10/6	99.6	99.7	99.8	24	---	---	---	0	103.1	103.4	104.1	24	---	---	---	0	---	---	---	0
10/7	99.2	99.4	99.7	24	---	---	---	0	103.4	103.9	104.3	24	---	---	---	0	---	---	---	0
10/8	99.1	99.3	99.4	23	---	---	---	0	103.7	104.2	104.6	23	---	---	---	0	---	---	---	0

## Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 10/9/2015 6:57

\* 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>

<b>COMBINED YEARLING CHINOOK</b>												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
09/25/2015	*	---	---	---	---	1	0	0	---	---	---	0
09/26/2015		---	---	---	---	1	0	0	---	0	---	0
09/27/2015	*	---	---	---	---	0	0	0	---	---	---	0
09/28/2015		---	---	---	---	2	0	0	---	0	---	0
09/29/2015	*	---	---	---	---	1	0	0	---	---	---	0
09/30/2015		---	---	---	---	0	0	0	---	0	---	0
10/01/2015	*	---	---	---	---	0	0	0	---	---	---	0
10/02/2015		---	---	---	---	1	0	---	---	---	---	0
10/03/2015		---	---	---	---	1	0	---	---	---	---	0
10/04/2015		---	---	---	---	2	0	---	---	---	---	0
10/05/2015		---	---	---	---	1	0	---	---	---	---	0
10/06/2015		---	---	---	---	0	0	---	---	---	---	0
10/07/2015		---	---	---	---	0	0	---	---	---	---	0
10/08/2015		---	---	---	---	---	0	---	---	---	---	0
10/09/2015		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</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>7</b>	<b>0</b>	<b>3</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>40,054</b>	<b>68,276</b>	<b>7,458</b>	<b>1,081</b>	<b>1,769,217</b>	<b>1,156,886</b>	<b>1,126,664</b>	<b>16,457</b>	<b>1,340,101</b>	<b>664,378</b>	<b>1,712,479</b>

<b>COMBINED SUBYEARLING CHINOOK</b>												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
09/25/2015	*	---	---	---	---	6	32	2	---	---	---	85
09/26/2015		---	---	---	---	14	22	2	---	12	---	0
09/27/2015	*	---	---	---	---	13	14	0	---	---	---	14
09/28/2015		---	---	---	---	13	11	1	---	0	---	83
09/29/2015	*	---	---	---	---	27	9	3	---	---	---	18
09/30/2015		---	---	---	---	55	7	2	---	4	---	0
10/01/2015	*	---	---	---	---	79	9	1	---	---	---	0
10/02/2015		---	---	---	---	113	4	---	---	---	---	0
10/03/2015		---	---	---	---	102	5	---	---	---	---	80
10/04/2015		---	---	---	---	47	11	---	---	---	---	43
10/05/2015		---	---	---	---	40	0	---	---	---	---	59
10/06/2015		---	---	---	---	52	6	---	---	---	---	186
10/07/2015		---	---	---	---	60	1	---	---	---	---	93
10/08/2015		---	---	---	---	---	6	---	---	---	---	186
10/09/2015		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>621</b>	<b>137</b>	<b>11</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>847</b>
<b># Days:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>14</b>	<b>7</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>14</b>
<b>Average:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>10</b>	<b>2</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>61</b>
<b>YTD</b>		<b>1</b>	<b>114</b>	<b>1,292</b>	<b>2,077</b>	<b>1,153,586</b>	<b>962,062</b>	<b>332,219</b>	<b>20,817</b>	<b>1,563,235</b>	<b>826,329</b>	<b>2,190,753</b>



## Two-Week Summary of Passage Indices

<b>COMBINED COHO</b>											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
09/25/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/26/2015	---	---	---	---	0	0	0	---	0	---	0
09/27/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/28/2015	---	---	---	---	0	0	0	---	0	---	0
09/29/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/30/2015	---	---	---	---	0	0	0	---	0	---	0
10/01/2015 *	---	---	---	---	0	0	0	---	---	---	0
10/02/2015	---	---	---	---	0	0	---	---	---	---	0
10/03/2015	---	---	---	---	0	1	---	---	---	---	0
10/04/2015	---	---	---	---	0	1	---	---	---	---	0
10/05/2015	---	---	---	---	1	0	---	---	---	---	0
10/06/2015	---	---	---	---	0	0	---	---	---	---	0
10/07/2015	---	---	---	---	0	0	---	---	---	---	0
10/08/2015	---	---	---	---	---	0	---	---	---	---	0
10/09/2015	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
<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>7</b>	<b>0</b>	<b>3</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>47</b>	<b>40,414</b>	<b>60,312</b>	<b>37,631</b>	<b>14,704</b>	<b>66,248</b>	<b>70,109</b>	<b>692,863</b>

<b>COMBINED STEELHEAD</b>											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
09/25/2015 *	---	---	---	---	2	0	0	---	---	---	0
09/26/2015	---	---	---	---	0	0	1	---	0	---	0
09/27/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/28/2015	---	---	---	---	0	0	1	---	4	---	0
09/29/2015 *	---	---	---	---	1	0	1	---	---	---	0
09/30/2015	---	---	---	---	0	0	0	---	0	---	0
10/01/2015 *	---	---	---	---	2	0	0	---	---	---	0
10/02/2015	---	---	---	---	1	0	---	---	---	---	0
10/03/2015	---	---	---	---	0	0	---	---	---	---	0
10/04/2015	---	---	---	---	0	0	---	---	---	---	0
10/05/2015	---	---	---	---	0	0	---	---	---	---	0
10/06/2015	---	---	---	---	0	0	---	---	---	---	0
10/07/2015	---	---	---	---	0	0	---	---	---	---	0
10/08/2015	---	---	---	---	---	0	---	---	---	---	0
10/09/2015	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>14</b>	<b>7</b>	<b>0</b>	<b>3</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>1</b>	<b>0</b>	<b>0</b>
<b>YTD</b>	<b>2,567</b>	<b>40,594</b>	<b>672</b>	<b>11,678</b>	<b>1,300,240</b>	<b>1,073,543</b>	<b>576,066</b>	<b>12,756</b>	<b>456,633</b>	<b>201,081</b>	<b>1,021,904</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)
09/25/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/26/2015	---	---	---	---	1	0	0	---	0	---	0
09/27/2015 *	---	---	---	---	1	0	0	---	---	---	0
09/28/2015	---	---	---	---	0	0	0	---	0	---	0
09/29/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/30/2015	---	---	---	---	0	0	0	---	0	---	0
10/01/2015 *	---	---	---	---	0	0	0	---	---	---	0
10/02/2015	---	---	---	---	0	0	---	---	---	---	0
10/03/2015	---	---	---	---	0	0	---	---	---	---	0
10/04/2015	---	---	---	---	1	0	---	---	---	---	0
10/05/2015	---	---	---	---	0	0	---	---	---	---	0
10/06/2015	---	---	---	---	0	1	---	---	---	---	0
10/07/2015	---	---	---	---	0	0	---	---	---	---	0
10/08/2015	---	---	---	---	---	0	---	---	---	---	0
10/09/2015	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</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>7</b>	<b>0</b>	<b>3</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>74</b>	<b>0</b>	<b>4</b>	<b>47</b>	<b>16,240</b>	<b>19,852</b>	<b>11,030</b>	<b>3,932</b>	<b>128,922</b>	<b>104,375</b>	<b>149,234</b>

Date	COMBINED LAMPREY JUVENILES										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR <sup>†</sup> (Samp)	LGS (Coll)	LMN (Coll)	RIS (Coll)	MCN (Coll)	JDA (Coll)	BO2 (Coll)
09/25/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/26/2015	---	---	---	---	1	2	0	---	4	---	0
09/27/2015 *	---	---	---	---	0	1	0	---	---	---	0
09/28/2015	---	---	---	---	0	0	0	---	0	---	0
09/29/2015 *	---	---	---	---	0	1	0	---	---	---	10
09/30/2015	---	---	---	---	0	1	0	---	0	---	0
10/01/2015 *	---	---	---	---	0	0	0	---	---	---	0
10/02/2015	---	---	---	---	4	1	---	---	---	---	0
10/03/2015	---	---	---	---	0	0	---	---	---	---	0
10/04/2015	---	---	---	---	1	2	---	---	---	---	0
10/05/2015	---	---	---	---	0	0	---	---	---	---	0
10/06/2015	---	---	---	---	0	0	---	---	---	---	0
10/07/2015	---	---	---	---	1	0	---	---	---	---	0
10/08/2015	---	---	---	---	---	0	---	---	---	---	0
10/09/2015	---	---	---	---	---	---	---	---	---	---	---
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>10</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>14</b>	<b>7</b>	<b>0</b>	<b>3</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>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>YTD</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>55</b>	<b>8,231</b>	<b>2,335</b>	<b>169</b>	<b>9,071</b>	<b>19,956</b>	<b>4,125</b>

# 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:

Sample counts (Samp) are provided for juvenile lamprey at LGR. See note below for details †.

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.

† In 2013 it was confirmed that juvenile lamprey can escape the sample tank at LGR which would lead to unreliable estimates of collection. Therefore, only sample counts are provided in this report.

### 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.

Fall (post SMP season) trapping at the Imnaha River Fish Trap (IMN) is funded by the Lower Snake River Compensation Program (LSRCP)

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

### Two Week Transportation Summary

Source: Fish Passage Center

Updated:

10/9/15 6:58 AM

**09/25/15 TO 10/09/15**

		Species					
Site	Data	CH0	CH1	CO	ST	SO	Grand Total
<b>LGR</b>	Sum of NumberCollected	621	10	1	6	3	641
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	0	0	0	6	0	6
	Sum of Numbertrucked	617	10	1	0	3	631
	Sum of SampleMorts	13	0	0	0	0	13
	Sum of FacilityMorts	0	0	0	0	0	0
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	13	0	0	0	0	13
<b>LGS</b>	Sum of NumberCollected	137		2		1	140
	Sum of NumberBarged	0		0		0	0
	Sum of NumberBypassed	1		0		0	1
	Sum of Numbertrucked	359		2		1	362
	Sum of SampleMorts	5		0		0	5
	Sum of FacilityMorts	6		0		0	6
	Sum of ResearchMorts	0		0		0	0
	Sum of TotalProjectMorts	11		0		0	11
<b>LMN</b>	Sum of NumberCollected	11			3		14
	Sum of NumberBarged	0			0		0
	Sum of NumberBypassed	0			0		0
	Sum of Numbertrucked	16			3		19
	Sum of SampleMorts	0			0		0
	Sum of FacilityMorts	0			0		0
	Sum of ResearchMorts	0			0		0
	Sum of TotalProjectMorts	0			0		0
Total Sum of NumberCollected		769	10	3	9	4	795
Total Sum of NumberBarged		0	0	0	0	0	0
Total Sum of NumberBypassed		1	0	0	6	0	7
Total Sum of Numbertrucked		992	10	3	3	4	1,012
Total Sum of SampleMorts		18	0	0	0	0	18
Total Sum of FacilityMorts		6	0	0	0	0	6
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		24	0	0	0	0	24

**YTD Transportation Summary**

Source: Fish Passage Center

Updated:

10/9/15 6:58 AM

**TO: 10/09/15**

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	683,851	1,150,161	26,328	10,918	826,802	2,698,060
	Sum of NumberBarged	656,833	473,291	22,805	10,483	363,282	1,526,694
	Sum of NumberBypassed	8,363	676,470	3,499	160	463,144	1,151,636
	Sum of NumberTrucked	16,858	23	13	3	43	16,940
	Sum of SampleMorts	280	43	1	8	32	364
	Sum of FacilityMorts	1,492	318	10	257	261	2,338
	Sum of ResearchMorts	25	16	0	7	40	88
	Sum of TotalProjectMorts	1,797	377	11	272	333	2,790
<b>LGS</b>	Sum of NumberCollected	647,187	807,531	42,071	13,867	748,847	2,259,503
	Sum of NumberBarged	639,244	545,396	40,315	13,818	535,296	1,774,069
	Sum of NumberBypassed	140	261,966	1,720	40	213,220	477,086
	Sum of NumberTrucked	5,207	1	7	1	38	5,254
	Sum of SampleMorts	213	21	0	2	16	252
	Sum of FacilityMorts	2,377	147	29	6	277	2,836
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	2,590	168	29	8	293	3,088
<b>LMN</b>	Sum of NumberCollected	174,480	642,436	22,120	6,690	322,655	1,168,381
	Sum of NumberBarged	172,399	581,534	21,816	6,640	285,463	1,067,852
	Sum of NumberBypassed	617	60,572	300	30	36,797	98,316
	Sum of NumberTrucked	768	0	0	0	15	783
	Sum of SampleMorts	68	45	2	0	39	154
	Sum of FacilityMorts	628	315	2	20	341	1,306
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	696	360	4	20	380	1,460
Total Sum of NumberCollected		1,505,518	2,600,128	90,519	31,475	1,898,304	6,125,944
Total Sum of NumberBarged		1,468,476	1,600,221	84,936	30,941	1,184,041	4,368,615
Total Sum of NumberBypassed		9,120	999,008	5,519	230	713,161	1,727,038
Total Sum of NumberTrucked		22,833	24	20	4	96	22,977
Total Sum of SampleMorts		561	109	3	10	87	770
Total Sum of FacilityMorts		4,497	780	41	283	879	6,480
Total Sum of ResearchMorts		25	16	0	7	40	88
Total Sum of TotalProjectMorts		5,083	905	44	300	1,006	7,338

**Cumulative Adult Passage at Mainstem Dams Through: 10/08**

DAM	END DATE	Spring Chinook						Summer Chinook						Fall Chinook					
		2015		2014		10-Yr Avg.		2015		2014		10-Yr Avg.		2015		2014		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	10/08	220480	13314	188083	26094	132065	23978	161735	17730	109734	25342	87270	20126	903757	77140	834631	129742	435610	73829
TDA	10/08	194116	12307	143142	21080	101070	20309	123915	15458	96134	19525	74749	16059	582675	78897	511149	86535	257894	58587
JDA	10/08	166015	11514	123224	19103	88117	19021	108768	10988	86033	17655	66973	16286	480842	54205	418448	73952	199256	52289
MCN	10/08	156151	8767	107147	16033	79364	15788	96287	8723	87974	17022	63834	12059	434131	44256	385186	67568	173539	35573
IHR	10/08	116462	5745	79298	12428	55061	10384	21408	2807	17433	4474	17149	4587	60080	8118	59787	16847	30959	15297
LMN	10/08	111511	8697	79942	14020	55282	9560	17764	4835	16064	8136	18788	5227	51613	14402	49785	21962	28022	16061
LGS	10/08	105124	8553	77966	13649	51473	10681	15494	4464	17058	7477	17984	5853	54321	9076	50333	15059	26814	12558
LGR	10/08	104873	8379	79167	13732	50576	11930	14958	4222	14668	7106	15904	6380	54253	9050	56513	16629	25743	14462
PRD	10/07	27716	1570	23742	2649	15720	1631	78139	3550	78434	4889	53883	2434	61239	4203	101867	10497	49892	6633
WAN	10/07	25982	1077	0	0	15431	2202	76636	2180	0	0	49981	2003	40090	2656	0	0	21221	4538
RIS	10/07	31750	1092	23247	2934	15126	2669	88691	2476	77982	6494	51644	5343	24964	2020	21912	6116	9964	3791
RRH	10/07	15244	609	12376	2377	6372	1183	76246	1937	58569	5017	40639	3786	21073	1401	15799	4702	7170	2635
WEL	10/07	19971	1520	15377	2544	5959	1398	62129	3311	49255	5989	31068	3500	8517	538	5987	2111	3071	1456
WFA	10/07	51046	2042	30071	1598	33725	1204	0	0	0	0	0	0	2205	758	1379	479	1366	332

DAM	END DATE	Coho						Sockeye			Steelhead						Lamprey		
		2015		2014		10-Yr Avg.		2015	2014	10-Yr Avg.	2015	2014	10-Yr Avg.	Wild 2015	Wild 2014	10-Yr Avg.	2015	2014	10-Yr Avg.
		Adult	Jack	Adult	Jack	Adult	Jack												
BON	10/08	28633	3928	206632	12072	98785	6147	510707	614179	241300	257159	317373	343958	93644	127267	110901	38450	31924	21683
TDA	10/08	22126	2999	136869	10343	41737	3832	429782	586187	206906	199509	240035	265473	69416	94372	84580	12375	11647	6093
JDA	10/08	17105	2821	97763	7329	34778	3934	366334	557531	205463	159472	183188	238439	55242	69030	74813	8298	8522	5645
MCN	10/08	14723	3102	87408	13009	22487	2817	279686	546012	181615	152231	185597	201776	49413	65832	59145	1728	1744	1766
IHR	10/08	1166	164	13433	626	2933	251	1051	2392	742	105896	131469	148063	28138	38341	36408	758	713	272
LMN	10/08	776	276	13369	2475	2757	422	888	2804	898	103915	131311	144171	28924	42116	37187	268	219	77
LGS	10/08	1271	204	14011	2768	2711	445	584	2810	879	95995	116695	124565	25286	36606	30663	72	119	39
LGR	10/08	817	70	12488	318	2369	242	435	2783	943	95985	116821	123457	26734	38532	32359	52	82	11
PRD	10/07	3095	435	29609	1825	6292	563	301270	608142	215739	13313	18690	18418	0	0	0	6643	7397	4280
WAN	10/07	2261	190	0	0	2814	312	296339	0	191339	13187	0	18072	0	0	0	5220	0	2611
RIS	10/07	3092	104	30575	116	7463	441	264641	581111	212288	12945	13753	16099	5601	6569	6820	2163	2410	1242
RRH	10/07	1309	94	8665	58	1773	105	216350	492878	181104	9883	9560	12415	4034	4518	4850	2131	3778	877
WEL	10/07	728	26	4949	53	851	3	187029	490791	174972	7963	6664	9189	3118	3282	3668	0	7	3
WFA	10/07	889	681	12667	2827	8278	2204	0	0	0	8000	27850	23672	0	0	0	0	0	0

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.