



Fish Passage Center

Weekly Report #15–27

September 25, 2015

The next weekly report will be created on October 9, and it will be the final weekly report of the year.

Summary of Events

Water Supply

Precipitation throughout the Columbia Basin has varied between 82% and 225% of average at individual sub-basins over September. Precipitation above The Dalles has been 126% of average over September.

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

Location	Water Year 2015	
	September 1–23, 2015	
	Observed (inches)	% Average
Columbia above Coulee	2.33	130
Snake River above Ice Harbor	1.37	151
Columbia above The Dalles	1.47	126
Kootenai	2.28	121
Clark Fork	1.37	106
Flathead	1.55	94
Pend Oreille River Basin above Waneta Dam	1.29	89
Salmon River Basin	2.11	175
Upper Snake Tributaries	2.77	225
Clearwater	1.75	111
Willamette River above Portland	1.45	82

Grand Coulee Reservoir is at 1,281.8 feet (9-23-15) and has drafted 0.4 feet over the last week. Outflows at Grand Coulee have ranged between 60.5 and 88.5 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2,440.2 feet (9-23-15) and has held steady over the previous week. Daily average outflows at Libby Dam have been 6.1 Kcfs over the last week.

Hungry Horse is currently at an elevation of 3,537.4 feet (9-23-15) and drafted 1.1 feet over the last week. Outflows at Hungry Horse have been 2.5 Kcfs over the last week.

Dworshak is currently at an elevation of 1,519.3 feet (9-23-15) and drafted 1.3 feet over the last week. Outflows have been 1.6–4.9 Kcfs over the last week.

The Brownlee Reservoir was at an elevation of 2,054.7 feet on September 23, 2015, and has drafted 0.6 feet over the last week. Hells Canyon outflows have ranged between 8.9 and 17.8 Kcfs over the last 4 days.

Smolt Monitoring

Most of the Smolt Monitoring Program (SMP) bypass facilities on the Snake and Lower Columbia rivers continued sampling this week. Sampling at Rock Island and John Day dams was terminated earlier this month while sampling at all four SMP traps was terminated in late May.

Samples at Bonneville Dam (BON) continue to be dominated by subyearling Chinook. This week's daily average passage index for subyearling Chinook at BON was approximately 20 fish per day, which is a decrease from last week's daily average passage index of about 45 per day. No other target species were encountered in this week's samples at BON.

Collections at McNary Dam (MCN) this week have been very small. Subyearling Chinook were only encountered in two of this week's four samples (Sept. 18th and 22nd). The estimated passage index for each of these 2 days was only eight subyearling Chinook. Steelhead were encountered in only one of

this week's samples (Sept. 24th), with an estimated passage index of only four. Finally, Pacific lamprey macrophthalmia were encountered in two of this week's samples. Sampling at MCN is scheduled to end at the end of this month.

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 only 10 per day, which is a decrease from last week's daily average passage index of about 35 per day. Yearling Chinook and steelhead were also encountered in this week's samples, but in very low numbers. Finally, two Pacific lamprey macrophthalmia were encountered in the sample from September 22nd.

Sampling at Little Goose Dam (LGS) was limited to a 24-hour sample every other day from April 2nd to April 30th. Little Goose Dam began collecting fish for transportation on May 1st 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 about 130 fish per day, which is a slight increase over last week's daily average passage index of about 120 per day. Several of this week's samples at LGS had elevated sample mortality rates among subyearling Chinook. These high mortality rates have been associated with elevated levels of *Columnaris*. At this point, mortality rates have not been high enough, for a long enough period, to trigger a change in operations. The only spring migrants that were encountered in this week's samples were yearling Chinook and steelhead. Yearling Chinook were encountered in one of this week's samples (Sept. 20th) while steelhead were encountered in four of this week's samples. Finally, Pacific lamprey macrophthalmia were encountered in four of this week's samples, with daily collections ranging from 0 to 4 per day.

Sampling at Lower Monumental Dam (LMN) was limited to a 24-hour sample every third day from April 4th to April 13th and every other day from April 15th to May 1st. At 1500 on May 1st, LMN began collecting fish for transportation and, therefore, collections at LMN are every day for the rest of the season. As with the last several weeks, this week's samples at LMN

were dominated by subyearling Chinook, with a daily average passage index of about 10 per day, which is similar to last week's daily average passage index. The only other target species that was encountered in this week's samples at LMN were steelhead, which were encountered in four of this week's samples. Sampling at LMN is scheduled to end at the end of this month.

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 September 24th, the 2015 cumulative adult fall Chinook count at BON is 785,523, which is about 1.04 times greater than the 2014 count of 753,984 and nearly 2.0 times greater than the 10-year average count of 395,793. The 2015 Bonneville Dam fall Chinook jack count of 63,462 is about 61% of the 2014 count of 103,933 and 1.02 times greater than the 10-year average count of 62,331. At 49,986, the cumulative adult fall Chinook count at Ice Harbor Dam (through September 24th) is about 98% of 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 September 24th) is 40,167, which is about 1.08 times greater than the cumulative count for 2014 and 2.12

times greater than the 10-year average cumulative count.

Through September 24th, the 2015 cumulative adult steelhead count at BON is 245,051, which is about 82% of the 2014 count of 300,667 and 74% of the 10-year average count of 329,688. The 2015 cumulative adult wild steelhead count at BON is 90,340, which is about 74% of the 2014 count and 84% of the 10-year average count. Daily adult steelhead counts at Lower Granite Dam (LGR) ranged from 2,121 to 5,639 adults per day last week. This year's LGR cumulative steelhead count is 54,096 (through September 24th), which is about 1.05 times greater than the 2014 count but only 75% of the 10-year average count. The 2015 cumulative adult wild steelhead count at LGR is 17,280, which is about 86% of the 2014 count and 84% of the 10-year average count. At Willamette Falls, the 2015 cumulative count for steelhead is 7,901 (through September 23rd). To date, this year's steelhead count is 29% of the 2014 count and 34% of the 10-year average count.

Through September 24th, the 2015 cumulative adult sockeye count at BON is 510,704, which is about 83% of the 2014 count but 2.1 times greater than the 10-year average count. Two of the major spawning sites for sockeye in the Upper Columbia River zone are Lake Wenatchee and Lake Osoyoos (Okanogan basin). The 2015 cumulative adult sockeye count at McNary Dam (through September 24th) is 279,466, which is about 51% of the 2014 count but 1.5 times greater than the 10-year average count. The LGR cumulative adult sockeye count for 2015 is 430, which is about 15% of the 2014 count and 46% of the 10-year average.

Adult coho passage at BON has decreased over the last two weeks, with daily passage numbers ranging from 414 to 1,108 per day. Through September 24th, the cumulative adult coho count at BON is 24,391, which is about 15% of the 2014 count and 33% of the 10-year average count.

Hatchery Releases Last Two Weeks

Hatchery Release Summary

From 9/12/2015 to 9/25/2015

No Releases Scheduled

Hatchery Releases Next Two Weeks

Hatchery Release Summary

From: 9/26/2015 to 10/8/2015

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
09/11/2015	89.1	0.0	91.9	0.0	92.5	0.0	88.7	0.8	92.3	0.0	87.7	1.6	85.6	1.7
09/12/2015	71.6	0.0	71.7	0.0	76.0	0.0	76.4	0.0	81.7	0.0	93.3	1.7	93.5	2.8
09/13/2015	57.3	0.0	60.4	0.0	61.8	0.0	57.0	0.0	59.1	0.0	51.1	4.3	50.5	3.1
09/14/2015	64.3	0.0	66.4	0.0	69.0	0.0	68.7	0.0	73.1	0.0	80.7	1.9	81.1	2.6
09/15/2015	65.1	0.0	62.0	0.0	60.9	0.0	55.2	0.0	56.9	0.0	70.7	1.4	73.3	1.4
09/16/2015	66.0	0.0	63.2	0.0	63.3	0.0	63.9	0.0	64.9	0.0	75.5	1.4	74.0	1.4
09/17/2015	65.4	0.0	70.7	0.0	65.4	0.0	64.9	0.0	68.1	0.0	62.8	1.3	59.4	2.2
09/18/2015	77.4	0.0	55.3	0.0	64.9	0.0	61.8	0.0	62.9	0.0	76.1	1.4	78.1	2.3
09/19/2015	69.6	0.0	71.6	0.0	54.5	0.0	53.6	0.0	55.6	0.0	49.8	1.5	49.3	2.3
09/20/2015	68.3	0.0	68.2	0.0	61.8	0.0	57.1	0.0	59.0	0.0	55.8	1.8	52.3	2.3
09/21/2015	88.5	0.0	82.5	0.0	82.5	0.0	82.1	0.0	86.8	0.0	84.1	2.1	81.5	2.7
09/22/2015	72.7	0.0	77.1	0.0	81.2	0.0	79.5	0.0	84.1	0.0	92.1	2.1	91.7	2.7
09/23/2015	85.7	0.0	75.9	0.0	76.9	0.0	70.3	0.0	74.5	0.0	85.9	1.8	88.3	2.6
09/24/2015	71.6	0.0	80.6	0.0	83.7	0.0	81.0	0.0	85.8	0.0	91.5	1.8	90.6	2.7

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
09/11/2015	5.9	0.0	---	8.9	20.5	0.0	20.5	0.0	20.2	0.0	19.8	0.0
09/12/2015	5.9	0.0	---	9.0	19.9	0.0	19.0	0.0	19.4	0.0	17.3	0.0
09/13/2015	5.9	0.0	---	9.3	16.6	0.0	15.7	0.0	15.9	0.0	16.5	0.0
09/14/2015	5.9	0.0	---	10.3	22.1	0.0	22.6	0.0	23.1	0.0	22.8	0.0
09/15/2015	4.9	0.0	---	8.5	21.8	0.0	22.2	0.0	22.8	0.0	22.5	0.0
09/16/2015	4.9	0.0	---	9.4	23.0	0.0	28.1	0.0	27.9	0.0	26.7	0.0
09/17/2015	4.9	0.0	---	9.3	17.9	0.0	17.2	0.0	21.8	0.0	19.4	0.0
09/18/2015	2.4	0.0	---	10.5	22.5	0.0	23.3	0.0	23.8	0.0	24.0	0.0
09/19/2015	2.4	0.0	---	9.2	19.2	0.0	18.4	0.0	20.3	0.0	21.4	0.0
09/20/2015	1.8	0.0	---	10.7	17.2	0.0	16.5	0.0	16.2	0.0	13.5	0.0
09/21/2015	1.6	0.0	---	11.9	19.5	0.0	18.8	0.0	16.5	0.0	17.4	0.0
09/22/2015	1.6	0.0	---	12.7	19.1	0.0	18.3	0.0	17.6	0.0	16.6	0.0
09/23/2015	2.8	0.0	---	12.6	19.2	0.0	15.8	0.0	15.5	0.0	13.6	0.0
09/24/2015	1.6	0.0	---	12.6	19.7	0.0	19.3	0.0	18.8	0.0	18.8	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		
09/11/2015	98.4	0.0	100.6	1.0	99.3	0.0	108.5	1.3	44.4	55.4
09/12/2015	107.1	0.0	99.0	1.0	98.3	0.0	103.1	1.3	40.3	54.1
09/13/2015	79.2	0.0	77.6	1.0	75.2	0.0	87.5	1.3	26.7	52.1
09/14/2015	90.3	0.0	82.0	1.0	81.4	0.0	91.2	1.3	27.8	54.6
09/15/2015	101.1	0.0	97.7	0.9	96.0	0.0	100.2	1.4	37.3	54.1
09/16/2015	97.9	0.0	102.6	1.0	101.7	0.0	111.9	1.5	48.2	54.8
09/17/2015	97.4	0.0	82.8	0.9	78.7	0.0	85.7	1.2	22.3	54.8
09/18/2015	81.5	0.0	89.4	0.9	89.2	0.0	93.1	1.3	---	---
09/19/2015	88.7	0.0	86.6	0.9	86.6	0.0	100.3	1.6	---	---
09/20/2015	70.4	0.0	68.5	0.9	67.3	0.0	79.3	1.2	15.1	55.5
09/21/2015	81.1	0.0	77.5	0.9	76.7	0.0	86.5	1.3	29.6	48.2
09/22/2015	91.6	0.0	92.9	0.9	91.2	0.0	95.9	1.5	31.2	55.8
09/23/2015	102.7	0.0	98.2	0.9	96.2	0.0	105.6	1.3	41.5	55.4
09/24/2015	115.5	0.0	116.1	0.9	113.9	0.0	120.8	1.3	55.6	56.5

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>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>				
9/11	100.8	101.4	101.6	24	---	---	---	0	101.0	101.4	102.5	24	101.7	102.5	106.9	24	102.8	103.4	104.0	24
9/12	102.4	102.9	103.2	24	---	---	---	0	101.3	101.7	102.6	24	101.9	102.7	103.3	24	103.2	103.9	104.5	24
9/13	103.3	103.9	104.2	24	---	---	---	0	101.7	101.9	102.4	24	102.6	103.4	103.9	24	103.4	103.7	104.0	24
9/14	103.6	103.8	104.2	24	---	---	---	0	102.5	102.7	103.1	24	102.6	102.8	103.0	24	102.7	102.9	103.0	24
9/15	103.3	103.6	104.0	24	---	---	---	0	102.0	102.2	102.4	24	102.2	102.5	102.7	24	102.1	102.4	102.6	24
9/16	102.1	102.5	103.2	24	---	---	---	0	101.5	101.6	101.9	24	101.6	101.9	102.1	24	101.5	102.0	102.4	24
9/17	101.9	102.0	102.2	24	---	---	---	0	100.9	101.1	101.5	24	100.9	101.1	101.6	24	101.1	101.4	101.6	24
9/18	101.4	101.6	101.8	24	---	---	---	0	100.4	100.5	100.8	23	100.4	100.6	100.8	23	100.4	100.5	100.7	13
9/19	101.7	101.8	101.9	22	---	---	---	0	100.3	100.5	101.0	24	100.6	101.2	101.5	24	100.9	101.2	101.4	24
9/20	102.1	102.4	102.5	24	---	---	---	0	101.2	101.7	101.9	24	101.2	101.6	101.9	24	101.4	101.7	101.8	24
9/21	102.2	102.4	102.7	24	---	---	---	0	100.5	100.7	100.8	23	100.2	100.5	101.1	24	100.8	101.1	101.2	24
9/22	102.4	102.5	102.5	24	---	---	---	0	100.5	100.7	101.0	24	100.0	100.5	101.4	24	100.7	100.8	101.1	22
9/23	101.7	101.9	102.2	24	---	---	---	0	100.6	101.0	101.7	24	99.6	100.1	100.8	24	100.4	100.7	100.9	24
9/24	101.3	101.6	101.8	23	---	---	---	0	100.7	101.0	101.9	23	99.5	100.2	100.4	23	100.2	100.5	100.7	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>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>				
9/11	103.3	103.9	105.3	24	102.9	103.6	104.4	24	102.8	103.7	104.6	24	102.5	103.1	103.4	24	102.5	102.9	103.4	24
9/12	104.4	105.1	105.8	24	103.7	104.7	105.6	22	103.3	104.6	105.6	22	103.8	104.4	105.2	24	103.4	103.8	104.6	24
9/13	105.0	105.5	106.4	24	103.8	104.1	104.5	24	103.3	104.0	104.5	24	104.0	104.3	104.6	24	103.3	103.7	104.2	24
9/14	104.1	105.0	106.5	24	103.2	103.5	103.7	24	102.9	103.3	103.6	24	103.5	103.7	104.2	24	103.4	103.5	103.8	24
9/15	102.9	103.6	104.8	24	102.1	102.3	102.5	24	101.6	102.2	102.7	24	102.7	102.9	103.1	24	102.4	102.7	102.9	24
9/16	102.9	104.0	105.4	24	101.4	101.7	101.9	24	101.0	101.6	102.3	24	101.9	102.0	102.3	24	101.7	101.9	102.2	24
9/17	102.5	103.2	103.9	24	100.9	101.1	101.6	24	100.6	101.1	102.4	24	101.4	101.5	101.6	24	101.4	101.5	101.6	24
9/18	101.6	101.7	103.4	13	100.8	100.9	101.1	24	100.7	101.2	101.8	24	100.9	101.0	101.2	24	101.1	101.3	102.7	24
9/19	101.7	102.1	103.1	24	101.2	101.4	101.5	24	101.1	101.5	101.9	24	100.9	101.1	101.1	24	100.3	100.6	100.7	24
9/20	102.1	102.7	103.5	24	101.6	101.9	102.2	24	101.7	102.3	102.7	24	101.3	101.6	101.8	24	100.7	101.3	101.6	24
9/21	100.9	101.4	102.5	24	100.9	101.1	101.4	24	100.9	101.3	101.9	24	101.0	101.2	101.2	24	100.9	101.2	101.5	24
9/22	100.3	100.5	100.8	24	100.8	101.3	101.8	24	100.9	101.5	101.9	24	101.2	101.4	101.5	24	101.2	101.5	101.8	24
9/23	100.1	100.5	101.0	24	100.6	100.8	101.1	24	100.6	101.0	101.6	24	100.9	101.0	101.4	24	100.7	101.0	101.2	24
9/24	99.8	100.1	100.6	23	100.3	100.7	100.9	23	100.5	101.0	101.5	23	100.8	101.0	101.2	23	100.8	101.1	101.4	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>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>				
9/11	101.6	102.3	102.8	24	101.8	102.3	102.9	24	101.3	103.9	105.8	24	101.8	102.6	102.9	24	99.4	101.9	102.5	24
9/12	102.6	102.9	103.2	24	102.8	103.3	103.5	24	102.5	104.2	105.3	24	102.9	103.3	103.7	24	101.3	102.9	103.5	24
9/13	103.2	103.4	103.7	24	103.3	103.6	104.1	24	100.5	101.4	101.7	24	103.7	105.1	116.7	24	100.6	101.3	101.9	24
9/14	102.6	102.7	103.0	24	102.5	102.6	102.6	24	100.3	101.0	101.3	24	101.6	101.8	102.3	24	100.4	100.6	100.8	24
9/15	101.9	102.1	102.4	24	101.9	102.1	102.4	24	99.8	100.7	101.2	24	101.2	101.5	102.1	24	99.0	99.7	100.1	24
9/16	101.2	101.4	101.5	24	101.2	101.3	101.5	24	99.6	101.2	102.0	24	101.0	101.6	101.9	24	99.5	100.4	100.8	24
9/17	100.6	100.9	101.1	24	100.7	100.9	101.1	24	99.4	100.3	100.7	24	101.1	101.5	102.0	24	100.2	100.4	100.6	24
9/18	100.1	100.3	100.4	24	100.3	100.6	100.8	24	100.2	100.9	101.3	24	100.8	101.2	101.5	24	99.7	100.2	100.7	24
9/19	100.6	100.7	100.8	24	100.8	101.0	101.3	24	98.6	99.5	100.1	24	101.4	101.9	102.4	24	100.7	101.3	101.9	24
9/20	100.6	100.8	100.9	24	100.7	101.2	101.5	24	100.1	102.1	102.7	24	102.3	102.8	103.6	24	101.2	101.6	101.8	24
9/21	100.4	100.5	100.7	24	100.6	100.7	100.8	24	101.2	102.4	102.9	24	102.1	102.3	102.9	24	101.1	101.9	102.6	24
9/22	100.4	100.5	100.5	24	100.7	100.9	100.9	21	101.3	102.0	102.2	24	101.7	102.0	102.5	24	101.0	101.9	102.4	24
9/23	100.1	100.5	100.7	24	100.6	100.8	101.1	24	---	---	---	0	---	---	---	0	---	---	---	0
9/24	100.2	100.3	100.4	23	100.4	100.5	100.5	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		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
9/11	101.2	101.7	101.9	24	---	---	---	0	99.1	99.5	99.9	24	99.2	100.3	101.2	24	101.3	102.6	103.9	24
9/12	102.4	103.2	103.8	24	---	---	---	0	99.7	100.2	100.6	24	99.6	100.9	102.0	24	100.2	100.2	100.7	10
9/13	102.3	102.9	103.1	24	---	---	---	0	100.1	100.6	101.1	24	100.1	101.5	103.2	24	---	---	---	0
9/14	101.2	101.3	101.6	24	---	---	---	0	100.3	100.5	100.9	24	99.8	100.8	102.2	24	---	---	---	0
9/15	100.2	100.4	101.1	24	---	---	---	0	100.1	100.4	100.8	24	97.9	98.8	99.8	24	---	---	---	0
9/16	100.0	100.3	100.4	24	---	---	---	0	99.8	100.0	100.3	24	97.7	99.1	100.3	24	---	---	---	0
9/17	100.4	100.8	101.3	24	---	---	---	0	99.6	99.8	100.3	24	97.7	98.4	99.4	24	---	---	---	0
9/18	100.3	100.7	101.2	24	---	---	---	0	99.4	99.8	100.4	24	93.4	94.5	96.4	24	---	---	---	0
9/19	101.0	101.8	102.5	24	---	---	---	0	99.6	100.2	101.0	24	91.6	92.8	94.0	23	---	---	---	0
9/20	101.8	102.4	103.0	24	---	---	---	0	105.1	108.8	111.0	24	92.6	92.6	93.8	12	---	---	---	0
9/21	101.5	101.9	102.3	24	---	---	---	0	104.7	105.6	106.4	24	91.2	91.2	92.2	10	---	---	---	0
9/22	101.6	101.9	102.3	24	---	---	---	0	104.7	105.5	106.3	24	90.1	90.1	90.2	4	---	---	---	0
9/23	---	---	---	0	---	---	---	0	103.5	104.3	109.2	24	---	---	---	0	---	---	---	0
9/24	---	---	---	0	---	---	---	0	103.6	104.1	104.9	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		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
9/11	102.6	104.8	106.4	24	97.6	97.9	98.5	24	97.6	97.9	98.2	24	94.5	94.8	95.2	24	94.9	95.5	95.8	24
9/12	102.8	105.0	106.7	24	98.1	98.4	98.7	24	98.5	99.0	99.4	24	95.1	95.3	95.7	24	95.3	95.8	96.3	24
9/13	102.7	104.6	106.4	24	98.9	99.3	99.7	24	98.6	98.9	99.5	24	96.2	96.7	96.8	24	95.6	96.0	96.5	24
9/14	101.8	103.0	104.1	24	99.7	100.5	101.0	24	98.8	99.4	99.9	24	96.6	96.8	97.0	24	95.5	95.7	95.9	24
9/15	101.9	103.7	105.4	24	100.1	100.4	100.7	24	99.4	99.6	99.9	24	96.8	97.1	97.5	24	95.3	95.6	95.9	24
9/16	101.7	103.2	104.4	24	100.2	100.5	100.7	24	99.9	100.2	100.6	24	96.4	97.0	97.6	24	95.1	95.9	96.4	24
9/17	101.1	102.3	103.6	24	100.7	101.0	101.4	24	100.3	100.6	101.3	24	97.6	97.8	97.9	24	96.1	96.4	97.0	24
9/18	102.1	104.4	106.3	24	99.9	100.1	100.6	24	99.3	99.5	99.8	24	96.7	97.1	97.3	24	95.1	95.3	95.6	24
9/19	101.9	104.1	105.9	24	99.1	99.2	99.4	24	99.1	99.4	100.2	24	95.3	95.8	96.5	24	95.6	96.2	96.5	24
9/20	102.3	104.6	106.7	24	98.9	99.1	99.8	24	98.8	99.1	99.7	24	96.2	96.7	97.3	24	96.5	97.1	97.8	24
9/21	101.9	104.1	105.8	24	98.2	98.5	98.8	24	97.9	98.1	98.6	24	95.9	95.9	96.3	10	96.6	97.3	97.8	23
9/22	99.9	100.3	104.1	14	98.1	98.1	98.4	9	97.9	98.2	98.7	23	---	---	---	0	97.4	97.8	98.0	24
9/23	---	---	---	0	---	---	---	0	97.8	98.0	98.3	24	---	---	---	0	97.2	97.5	97.8	24
9/24	---	---	---	0	---	---	---	0	98.3	98.9	99.1	23	---	---	---	0	98.6	100.0	102.9	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		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
9/11	96.4	96.6	96.8	24	97.1	97.9	98.3	24	97.6	97.6	97.7	8	100.2	101.2	106.8	24	---	---	---	0
9/12	97.2	97.8	98.1	24	97.9	98.5	99.0	24	---	---	---	0	100.5	101.5	102.4	24	---	---	---	0
9/13	97.1	97.3	97.5	24	96.9	97.4	98.1	24	---	---	---	0	100.1	101.2	102.4	24	---	---	---	0
9/14	96.2	96.3	96.4	24	95.9	96.1	96.3	24	---	---	---	0	99.6	99.9	100.6	24	---	---	---	0
9/15	96.9	97.2	97.2	24	96.5	96.9	97.0	24	---	---	---	0	99.1	99.5	100.1	24	---	---	---	0
9/16	97.5	97.6	97.7	24	96.5	96.8	97.3	24	---	---	---	0	101.0	102.6	110.4	24	---	---	---	0
9/17	96.0	96.9	97.1	24	95.8	96.2	96.5	24	---	---	---	0	99.6	100.2	101.1	24	---	---	---	0
9/18	94.7	94.8	94.9	24	94.9	95.2	95.5	24	---	---	---	0	98.6	99.0	99.9	24	---	---	---	0
9/19	95.1	95.4	95.5	24	95.1	95.5	96.1	24	---	---	---	0	98.1	98.5	98.9	24	---	---	---	0
9/20	95.2	95.4	95.5	24	95.3	95.7	96.3	24	---	---	---	0	98.3	99.1	100.1	24	---	---	---	0
9/21	94.6	94.6	94.7	8	95.1	95.9	96.4	24	---	---	---	0	97.9	98.5	99.3	24	---	---	---	0
9/22	---	---	---	0	97.0	97.7	99.7	24	---	---	---	0	98.8	99.5	100.5	24	---	---	---	0
9/23	---	---	---	0	96.5	97.2	98.0	24	---	---	---	0	98.6	99.8	100.9	24	---	---	---	0
9/24	---	---	---	0	96.5	97.1	98.3	23	---	---	---	0	98.0	98.8	99.8	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	<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>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24h</u>	<u>12h</u>		<u>#</u>	<u>24h</u>	<u>12h</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>				
9/11	---	---	---	0	101.3	101.7	101.9	24	101.2	102.0	102.8	24	92.9	94.4	95.6	24	100.4	100.9	101.2	24
9/12	---	---	---	0	102.2	102.7	103.1	24	102.4	103.1	103.5	24	93.9	95.5	97.5	19	101.4	102.0	102.3	24
9/13	---	---	---	0	102.3	102.7	103.1	24	100.3	100.4	100.7	24	95.0	95.7	96.9	24	101.5	101.7	101.9	24
9/14	---	---	---	0	102.0	102.3	102.8	24	100.5	100.5	100.7	11	96.6	100.3	101.2	24	100.3	100.6	101.1	24
9/15	---	---	---	0	101.5	101.8	102.1	24	---	---	---	0	99.7	100.1	100.7	24	99.0	99.0	99.3	8
9/16	---	---	---	0	101.3	101.5	101.9	24	---	---	---	0	99.1	99.4	99.7	24	---	---	---	0
9/17	---	---	---	0	100.2	100.6	100.7	24	---	---	---	0	97.7	98.2	98.8	24	---	---	---	0
9/18	---	---	---	0	99.4	99.8	100.1	24	---	---	---	0	96.7	97.6	98.0	24	---	---	---	0
9/19	---	---	---	0	99.0	99.2	99.6	24	---	---	---	0	97.8	98.2	98.8	24	---	---	---	0
9/20	---	---	---	0	99.2	99.7	100.3	24	---	---	---	0	97.1	98.3	99.9	24	---	---	---	0
9/21	---	---	---	0	99.8	100.5	101.1	24	---	---	---	0	96.7	97.5	97.9	24	---	---	---	0
9/22	---	---	---	0	100.4	101.0	101.2	24	---	---	---	0	96.8	97.3	97.7	24	---	---	---	0
9/23	---	---	---	0	100.6	100.9	101.2	24	---	---	---	0	95.7	96.1	96.8	24	---	---	---	0
9/24	---	---	---	0	100.2	100.5	101.0	23	---	---	---	0	96.0	96.7	97.1	23	---	---	---	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>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24h</u>	<u>12h</u>		<u>#</u>	<u>24h</u>	<u>12h</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>				
9/11	101.0	101.3	101.5	24	101.9	102.1	102.4	24	104.8	105.6	106.5	24	103.9	104.3	104.9	24	107.3	107.7	108.6	24
9/12	101.7	102.1	102.4	24	102.3	102.6	103.2	24	105.3	106.2	106.7	24	103.9	104.5	105.1	24	108.4	108.9	109.9	24
9/13	102.0	102.2	102.3	24	102.1	102.3	102.4	24	104.9	105.5	106.2	24	103.9	104.3	104.7	24	107.7	108.0	108.4	24
9/14	101.3	101.7	101.9	24	101.0	101.2	101.3	24	104.5	104.8	105.2	24	103.1	103.3	103.6	24	108.4	109.2	110.6	24
9/15	99.8	99.9	100.2	24	99.9	100.0	100.3	24	103.4	103.8	104.1	24	102.5	102.8	103.2	24	108.3	109.4	111.0	24
9/16	99.7	100.0	100.3	24	99.7	99.7	99.9	14	103.1	103.4	104.0	24	102.1	102.5	102.8	24	108.3	108.3	110.8	12
9/17	100.1	100.3	100.4	24	---	---	---	0	103.6	104.0	104.3	24	101.4	101.4	102.2	11	---	---	---	0
9/18	100.0	100.3	100.4	24	---	---	---	0	103.9	104.5	105.2	24	---	---	---	0	---	---	---	0
9/19	100.4	100.7	101.0	24	---	---	---	0	104.0	104.4	104.9	24	---	---	---	0	---	---	---	0
9/20	101.0	101.4	101.6	24	---	---	---	0	104.1	104.8	105.4	24	---	---	---	0	---	---	---	0
9/21	101.2	101.5	101.8	24	---	---	---	0	101.0	102.8	104.1	24	---	---	---	0	---	---	---	0
9/22	100.7	101.0	101.2	24	---	---	---	0	99.8	101.9	103.8	24	---	---	---	0	---	---	---	0
9/23	100.1	100.2	100.4	24	---	---	---	0	102.8	103.8	104.6	24	---	---	---	0	---	---	---	0
9/24	100.0	100.1	100.4	22	---	---	---	0	103.4	103.9	104.6	23	---	---	---	0	---	---	---	0

Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 9/25/2015 6:49

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/currentsmptsubmitdata.asp>

COMBINED YEARLING CHINOOK												
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
09/11/2015	*	---	---	---	---	0	0	0	---	---	0	
09/12/2015		---	---	---	---	0	0	0	---	0	0	
09/13/2015	*	---	---	---	---	0	0	0	---	---	0	
09/14/2015		---	---	---	---	0	0	0	---	0	0	
09/15/2015	*	---	---	---	---	3	0	0	---	---	0	
09/16/2015		---	---	---	---	2	0	0	---	0	---	
09/17/2015	*	---	---	---	---	1	0	0	---	---	0	
09/18/2015		---	---	---	---	3	0	0	---	0	---	
09/19/2015	*	---	---	---	---	2	0	0	---	---	0	
09/20/2015		---	---	---	---	1	1	0	---	0	---	
09/21/2015	*	---	---	---	---	0	0	0	---	---	0	
09/22/2015		---	---	---	---	0	0	0	---	0	---	
09/23/2015	*	---	---	---	---	0	0	0	---	---	0	
09/24/2015		---	---	---	---	---	0	---	---	0	---	
09/25/2015		---	---	---	---	---	---	---	---	---	---	
<hr/>												
Total:		0	0	0	0	12	1	0	0	0	0	
# Days:		0	0	0	0	13	14	13	0	7	5	
Average:		0	0	0	0	1	0	0	0	0	0	
YTD		40,054	68,276	7,458	1,081	1,769,207	1,156,886	1,126,664	16,457	1,340,101	664,378	1,712,479

COMBINED SUBYEARLING CHINOOK												
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
09/11/2015	*	---	---	---	---	48	105	14	---	---	0	181
09/12/2015		---	---	---	---	43	160	11	---	0	0	58
09/13/2015	*	---	---	---	---	31	198	2	---	---	10	60
09/14/2015		---	---	---	---	22	130	7	---	0	5	0
09/15/2015	*	---	---	---	---	24	85	4	---	---	0	16
09/16/2015		---	---	---	---	26	57	7	---	4	---	0
09/17/2015	*	---	---	---	---	44	78	13	---	---	---	0
09/18/2015		---	---	---	---	23	102	12	---	8	---	58
09/19/2015	*	---	---	---	---	21	115	13	---	---	---	54
09/20/2015		---	---	---	---	10	217	22	---	0	---	0
09/21/2015	*	---	---	---	---	1	128	3	---	---	---	0
09/22/2015		---	---	---	---	3	70	3	---	8	---	0
09/23/2015	*	---	---	---	---	10	52	2	---	---	---	16
09/24/2015		---	---	---	---	---	250	---	---	0	---	36
09/25/2015		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	0	306	1,747	113	0	20	15	479
# Days:		0	0	0	0	13	14	13	0	7	5	14
Average:		0	0	0	0	24	125	9	0	3	3	34
YTD		1	114	1,292	2,077	1,152,955	961,925	332,203	20,817	1,563,219	826,329	2,189,906

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)
09/11/2015 *	---	---	---	---	1	0	0	---	---	0	0
09/12/2015	---	---	---	---	1	0	0	---	0	0	0
09/13/2015 *	---	---	---	---	0	0	0	---	---	0	0
09/14/2015	---	---	---	---	0	0	0	---	0	0	0
09/15/2015 *	---	---	---	---	0	0	0	---	---	0	0
09/16/2015	---	---	---	---	0	0	0	---	0	---	0
09/17/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/18/2015	---	---	---	---	0	0	0	---	0	---	0
09/19/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/20/2015	---	---	---	---	0	0	0	---	0	---	0
09/21/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/22/2015	---	---	---	---	0	0	0	---	0	---	0
09/23/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/24/2015	---	---	---	---	---	0	---	---	0	---	0
09/25/2015	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	2	0	0	0	0	0	0
# Days:	0	0	0	0	13	14	13	0	7	5	14
Average:	0	0	0	0	0	0	0	0	0	0	0
YTD	0	0	0	47	40,413	60,310	37,631	14,704	66,248	70,109	692,863

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)
09/11/2015 *	---	---	---	---	0	2	0	---	---	0	0
09/12/2015	---	---	---	---	0	1	0	---	0	0	0
09/13/2015 *	---	---	---	---	3	1	0	---	---	0	0
09/14/2015	---	---	---	---	1	1	0	---	0	0	0
09/15/2015 *	---	---	---	---	0	0	1	---	---	0	0
09/16/2015	---	---	---	---	0	0	0	---	0	---	0
09/17/2015 *	---	---	---	---	0	1	2	---	---	---	0
09/18/2015	---	---	---	---	0	1	1	---	0	---	0
09/19/2015 *	---	---	---	---	1	2	2	---	---	---	0
09/20/2015	---	---	---	---	0	1	3	---	0	---	0
09/21/2015 *	---	---	---	---	2	0	0	---	---	---	0
09/22/2015	---	---	---	---	1	1	1	---	0	---	0
09/23/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/24/2015	---	---	---	---	---	0	---	---	4	---	0
09/25/2015	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	8	11	10	0	4	0	0
# Days:	0	0	0	0	13	14	13	0	7	5	14
Average:	0	0	0	0	1	1	1	0	1	0	0
YTD	2,567	40,594	672	11,678	1,300,232	1,073,543	576,063	12,756	456,629	201,081	1,021,904

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)
09/11/2015 *	---	---	---	---	0	0	0	---	---	0	0
09/12/2015	---	---	---	---	0	0	0	---	0	0	0
09/13/2015 *	---	---	---	---	0	0	0	---	---	0	0
09/14/2015	---	---	---	---	0	0	0	---	0	0	0
09/15/2015 *	---	---	---	---	0	0	0	---	---	0	0
09/16/2015	---	---	---	---	0	0	0	---	4	---	0
09/17/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/18/2015	---	---	---	---	0	0	0	---	0	---	0
09/19/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/20/2015	---	---	---	---	0	0	0	---	0	---	0
09/21/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/22/2015	---	---	---	---	0	0	0	---	0	---	0
09/23/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/24/2015	---	---	---	---	---	0	---	---	0	---	0
09/25/2015	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	0	0	0	0	4	0	0
# Days:	0	0	0	0	13	14	13	0	7	5	14
Average:	0	0	0	0	0	0	0	0	1	0	0
YTD	74	0	4	47	16,237	19,851	11,030	3,932	128,922	104,375	149,234

COMBINED LAMPREY JUVENILES											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR [†] (Samp)	LGS (Coll)	LMN (Coll)	RIS (Coll)	MCN (Coll)	JDA (Coll)	BO2 (Coll)
09/11/2015 *	---	---	---	---	0	0	0	---	---	0	0
09/12/2015	---	---	---	---	1	0	0	---	0	0	0
09/13/2015 *	---	---	---	---	0	0	0	---	---	0	0
09/14/2015	---	---	---	---	1	0	0	---	4	0	0
09/15/2015 *	---	---	---	---	0	0	0	---	---	0	10
09/16/2015	---	---	---	---	1	0	0	---	28	---	0
09/17/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/18/2015	---	---	---	---	0	4	0	---	4	---	0
09/19/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/20/2015	---	---	---	---	0	2	0	---	8	---	0
09/21/2015 *	---	---	---	---	0	0	0	---	---	---	0
09/22/2015	---	---	---	---	2	0	0	---	0	---	0
09/23/2015 *	---	---	---	---	0	1	0	---	---	---	0
09/24/2015	---	---	---	---	---	1	---	---	0	---	0
09/25/2015	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	5	8	0	0	44	0	10
# Days:	0	0	0	0	13	14	13	0	7	5	14
Average:	0	0	0	0	0	1	0	0	6	0	1
YTD	0	1	0	0	48	8,223	2,335	169	9,067	19,956	4,115

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:

9/25/15 6:51 AM

09/11/15 TO 09/25/15

		Species				
Site	Data	CH0	CH1	CO	ST	Grand Total
LGR	Sum of NumberCollected	306	12	2	8	328
	Sum of NumberBarged	0	0	0	0	0
	Sum of NumberBypassed	0	0	0	8	8
	Sum of Numbertrucked	361	12	5	0	378
	Sum of SampleMorts	7	0	0	0	7
	Sum of FacilityMorts	0	0	0	0	0
	Sum of ResearchMorts	0	0	0	0	0
	Sum of TotalProjectMorts	7	0	0	0	7
LGS	Sum of NumberCollected	1,747	1		11	1,759
	Sum of NumberBarged	0	0		0	0
	Sum of NumberBypassed	3	0		0	3
	Sum of Numbertrucked	1,484	1		7	1,492
	Sum of SampleMorts	57	0		1	58
	Sum of FacilityMorts	22	0		3	25
	Sum of ResearchMorts	0	0		0	0
	Sum of TotalProjectMorts	79	0		4	83
LMN	Sum of NumberCollected	113			10	123
	Sum of NumberBarged	0			0	0
	Sum of NumberBypassed	0			0	0
	Sum of Numbertrucked	116			10	126
	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		2,166	13	2	29	2,210
Total Sum of NumberBarged		0	0	0	0	0
Total Sum of NumberBypassed		3	0	0	8	11
Total Sum of Numbertrucked		1,961	13	5	17	1,996
Total Sum of SampleMorts		64	0	0	1	65
Total Sum of FacilityMorts		22	0	0	3	25
Total Sum of ResearchMorts		0	0	0	0	0
Total Sum of TotalProjectMorts		86	0	0	4	90

YTD Transportation Summary

Source: Fish Passage Center

Updated:

9/25/15 6:51 AM

TO: 09/25/15

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	683,220	1,150,151	26,327	10,915	826,794	2,697,407
	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	463,136	1,151,628
	Sum of NumberTrucked	16,241	13	12	0	43	16,309
	Sum of SampleMorts	266	43	1	8	32	350
	Sum of FacilityMorts	1,492	318	10	257	261	2,338
	Sum of ResearchMorts	25	16	0	7	40	88
	Sum of TotalProjectMorts	1,783	377	11	272	333	2,776
LGS	Sum of NumberCollected	647,050	807,531	42,069	13,866	748,847	2,259,363
	Sum of NumberBarged	639,244	545,396	40,315	13,818	535,296	1,774,069
	Sum of NumberBypassed	139	261,966	1,720	40	213,220	477,085
	Sum of NumberTrucked	4,848	1	5	0	38	4,892
	Sum of SampleMorts	208	21	0	2	16	247
	Sum of FacilityMorts	2,371	147	29	6	277	2,830
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	2,579	168	29	8	293	3,077
LMN	Sum of NumberCollected	174,464	642,436	22,120	6,690	322,652	1,168,362
	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	752	0	0	0	12	764
	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		1,504,734	2,600,118	90,516	31,471	1,898,293	6,125,132
Total Sum of NumberBarged		1,468,476	1,600,221	84,936	30,941	1,184,041	4,368,615
Total Sum of NumberBypassed		9,119	999,008	5,519	230	713,153	1,727,029
Total Sum of NumberTrucked		21,841	14	17	0	93	21,965
Total Sum of SampleMorts		542	109	3	10	87	751
Total Sum of FacilityMorts		4,491	780	41	283	879	6,474
Total Sum of ResearchMorts		25	16	0	7	40	88
Total Sum of TotalProjectMorts		5,058	905	44	300	1,006	7,313

Cumulative Adult Passage at Mainstem Dams Through: 09/24

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	09/24	220480	13314	188083	26094	132065	23978	161735	17730	109734	25342	87270	20126	785523	63452	753984	103933	395793	62331
TDA	09/24	194116	12307	143142	21080	101070	20309	123915	15458	96134	19525	74749	16059	472175	60517	436603	65282	220529	46955
JDA	09/24	166015	11514	123224	19103	88117	19021	108768	10988	86033	17655	66973	16286	368534	39939	342728	49536	161957	39809
MCN	09/24	156151	8767	107147	16033	79364	15788	96287	8723	87974	17022	63834	12059	300142	26728	300098	42506	130480	25254
IHR	09/24	116462	5745	79298	12428	55061	10384	21408	2807	17433	4474	17149	4587	49986	4648	50996	11350	26242	11139
LMN	09/23	111511	8697	79942	14020	55282	9560	17764	4835	16064	8136	18788	5227	41027	10407	40689	13326	22204	11021
LGS	09/24	105124	8553	77966	13649	51473	10681	15494	4464	17058	7477	17984	5853	42872	6319	39836	9412	20914	8541
LGR	09/24	104873	8379	79167	13732	50576	11930	14958	4222	14668	7106	15904	6380	40167	5561	37180	7951	18955	9171
PRD	09/23	27716	1570	23742	2649	15720	1631	78139	3550	78434	4889	53883	2434	42717	2662	65936	6733	31777	4966
WAN	09/23	25982	1077	0	0	15431	2202	76636	2180	0	0	49981	2003	25898	1553	0	0	13028	3634
RIS	09/23	31750	1092	23247	2934	15126	2669	88691	2476	77982	6494	51644	5343	16617	1297	12886	4205	6765	3004
RRH	09/23	15244	609	12376	2377	6372	1183	76246	1937	58569	5017	40639	3786	13225	813	9891	3187	5024	2031
WEL	09/23	19971	1520	15377	2544	5959	1398	62129	3311	49255	5989	31068	3500	5557	307	3725	1492	2282	1078
WFA	09/23	51046	2042	30071	1598	33725	1204	0	0	0	0	0	0	888	255	1136	403	936	207

DAM	END DATE	Coho						Sockeye			Steelhead					Lamprey			
		2015		2014		10-Yr Avg.		2015	2014	10-Yr Avg.	10-Yr			10-Yr					
		Adult	Jack	Adult	Jack	Adult	Jack				Wild	Wild	10-Yr	2015	2014	10-Yr	2015	2014	10-Yr
BON	09/24	24391	3253	159770	8535	74964	4344	510704	614180	241300	245051	300667	329688	90340	122753	107523	38394	31828	21588
TDA	09/24	16124	2473	109369	8769	30221	3120	429765	586188	206906	172636	208062	230200	61267	84194	74762	12282	11515	6048
JDA	09/24	12673	2265	75080	6115	23395	2931	366300	557531	205463	130696	148367	192707	45607	57114	61563	8195	8332	5577
MCN	09/24	9348	2097	53728	10803	13460	2039	279466	546008	181615	116990	140269	151242	39347	52259	45994	1694	1680	1728
IHR	09/24	737	128	7836	463	1638	177	1051	2392	742	72791	86424	103410	20195	26177	26021	748	712	270
LMN	09/23	376	151	4156	1155	1001	188	888	2804	898	64234	78563	92790	19529	27065	25163	255	216	77
LGS	09/24	575	88	3653	949	950	189	582	2811	879	56145	61964	75567	16267	21823	20053	84	121	39
LGR	09/24	172	10	927	45	422	69	430	2775	943	54096	51495	72200	17280	20158	20637	52	79	11
PRD	09/23	1718	267	11446	618	2710	278	301261	608142	215739	11848	15429	16314	0	0	0	6492	7051	4007
WAN	09/23	1179	115	0	0	1136	176	296332	0	191339	11135	0	16056	0	0	0	5037	0	2386
RIS	09/23	1151	52	3385	11	1655	192	264541	581095	212287	10810	10224	13861	4817	5021	5945	0	2350	1172
RRH	09/23	283	23	813	9	264	25	216239	492849	181104	7864	6567	10333	3338	3186	4105	0	3668	827
WEL	09/23	68	10	199	5	68	0	186921	490773	174968	6027	4446	7252	2506	2277	2948	0	7	3
WFA	09/23	208	283	2113	1418	3418	1101	0	0	0	7901	27385	23545	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.