

Fish Passage Center

Weekly Report #19-30

October 11, 2019

This is the final weekly report of 2019, we will return in early 2020

This Week's Highlights

Water Supply

Precipitation throughout the Columbia Basin has varied between 30% and 88% of average at individual sub-basins over October. Precipitation above The Dalles has been 57% of average over October. The 2020 water year began on October 1, 2019.

Table 1. Summary of October precipitation and cumulative Water Year 2020 precipitation with respect to average (1981-2010), at select locations within the Columbia and Snake River Basins.

Location	Water Year 2020 October 1-10, 2019		Water Year 2020 October 1, 2019 to September 30, 2020	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.78	74	0.78	74
SNAKE RIVER ABOVE ICE HARBOR	0.27	52	0.27	52
Columbia Above The Dalles	0.40	57	0.40	57
Kootenai	0.93	88	0.93	88
Clark Fork	0.44	71	0.44	71
Flathead	0.74	86	0.74	86
Pend Oreille River Basin above Waneta Dam	0.59	76	0.59	76
Salmon River Basin	0.53	84	0.53	84
Upper Snake Tributaries	0.31	47	0.31	47
Clearwater	0.80	85	0.80	85
Willamette River above Portland	0.48	30	0.48	30

Grand Coulee Reservoir is at 1283.6 feet (10-10-19) and has refilled 1.5 feet over the last week. Outflows at Grand Coulee have ranged between 42.0 Kcfs and 66.3 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2442.5 feet (10-10-19) and has refilled 0.3 feet over the past week. Daily average outflows at Libby Dam have been 4.0 Kcfs last week.

Hungry Horse is currently at an elevation of 3549.1 feet (10-10-19) and has drafted 0.3 feet last week. Outflows at Hungry Horse have been 1.8 Kcfs over the last week.

Dworshak is currently at an elevation of 1519.5 feet (10-10-19) and has drafted 0.2 feet over last week. Dworshak outflows have been 1.6 Kcfs.

The Brownlee Reservoir was at an elevation of 2040.5 feet on October 10th, 2019 and has drafted 3.0 feet over the last week. Outflows at Hells Canyon have ranged between 11.5 and 19.4 Kcfs over the last four days.

Spill

The summer fish spill program at the FCRPS projects ended on August 31, 2019 and only a small amount of adult attraction spill (0.9-1.3 Kcfs) has been provided at two projects, John Day and Bonneville dams. There has also been a small amount of spill at McNary over the two weeks.

Flows in the Snake River this week were similar to last week. The daily average flows for this week and last week at Lower Granite Dam were 24-25 Kcfs. Flows in the Upper and Mid-Columbia decreased again this week, when compared to the previous week. The daily average flows for this week at Rock Island and McNary dams were approximately 50 Kcfs and 81 Kcfs, respectively. Last week's daily average flows were about 64 Kcfs at Rock Island Dam and 87 Kcfs at McNary Dam.

Temperature

With the termination of the summer spill program, the total dissolved gas (TDG) monitors in the forebays have been removed for the year. Therefore, temperature data from these TDG monitors are no longer be available. However, the forebay temperature strings at many of the FCRPS projects continue to collect data. Herein, we report the daily average temperatures for three index projects with forebay temperature strings. All temperatures reported here are from the string at the 3m depth. The daily average temperatures on October 10, 2019 were 59.4 °F at Lower Granite, 61.6 °F at Ice Harbor, and 59.7 °F at McNary. There is not a forebay temperature string at Bonneville Dam. However, the tailrace TDG monitor at Warrendale is still in operation. The daily average temperature for October 9, 2019 at

Smolt Monitoring

The Smolt Monitoring Program (SMP) is currently collecting and reporting data from three bypass facilities (Bonneville Dam, Lower Granite Dam, and Little Goose Dam). Sampling at McNary and Lower Monumental dams ended after the sample from September 30th. Subyearling Chinook dominated the collections of target species at all three bypass facilities this week. Subyearling Chinook passage increased at all three SMP sites this week. Sampling at Bonneville, Lower Granite, and Little Goose is expected to continue through the end of October.

Data from Bonneville Dam (BON) are only available through the sample on October 9, 2019. Due to high numbers of juvenile shad, BON has continued using an extremely low rate. This low sample rate is necessary in order to minimize the number of juvenile shad that are diverted into the sample tank. However, this also may lead to instances where zero salmonids are sampled, due their generally low numbers this time of year. Subyearling Chinook were the only salmonids to be encountered in the samples at BON over the last two weeks. This week's daily average passage index for subyearling Chinook was about 50 per day. This is an increase from last week's daily average passage index of 20 subyearling Chinook per day. No lamprey juveniles were encountered at BON this week.

With the implementation of every-other-day trucking, two days of SMP data from Lower Granite Dam (LGR) are submitted to the FPC every-other-

day. Subyearling Chinook continued to dominate the samples at LGR this week. This week's daily average passage index for subyearling Chinook was about 60 per day, which is an increase from the previous week's daily average passage index of about 40 per day. Very few spring migrants (e.g., yearling Chinook, steelhead, coho, and sockeye) were encountered in this week's samples at LGR. One Pacific lamprey ammocoete and four macrophthalmia were encountered in this week's samples at LGR. Daily sample counts for lamprey ammocoetes and macrophthalmia ranged from zero to two this week.

Subyearling Chinook continued to dominate the samples at Little Goose Dam (LGS) this week. This week's daily average passage index for subyearling Chinook was about 50 per day, which is a slight increase from the previous week's daily average passage index of about 40 per day. The only other salmonids that were encountered in this week's samples at LGS were sockeye and steelhead, which were each encountered in a few of this week's samples. Pacific lamprey macrophthalmia were encountered in four of this week's samples, with a daily average collection of two per day. No Pacific lamprey ammocoetes were encountered in this week's samples.

Hatchery Releases

FPC has not received preliminary data from some hatcheries as of 10/11/19, therefore, this hatchery release schedule represents the most up to date accounting that are available, but should not be considered a finalized record of hatchery releases.

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 releases were scheduled for this zone in the past week, nor are any scheduled in the next two.

Upper Columbia Zone:

The Upper Columbia Zone encompasses the area of the Columbia River and its tributaries from Priest Rapids Dam to Chief Joseph Dam. In the past week there were no scheduled releases into this zone, nor are there any scheduled for the next two.

Middle Columbia Zone:

The Middle Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to Priest Rapids Dam (excluding the Snake River). In the past week there were no scheduled releases into this zone, nor are there any scheduled for the next two.

Lower Columbia Zone:

The Lower Columbia Zone is defined as the Columbia River and its tributaries below Bonneville Dam. In the past week there were no scheduled releases into this zone, nor are there any scheduled for the next two.

Adult Passage Count

NOTE: This weekly report includes the current year data. The 2018 and 10-year average counts are not included due to computer problems which are being worked on.

Adult Passage Daily passage numbers at Bonneville Dam ranged between 925 and 2,063 adult Chinook in the last week. The 2019 Bonneville Dam adult fall Chinook count of 261,704 and 41,870 jack fall Chinook. At Willamette Falls, 1,428 adult fall Chinook and 293 jack fall Chinook. As of October 9th, a total of 115,118 adult fall Chinook have been counted at McNary Dam and 14,349 have been counted at Lower Granite Dam.

The 2019 Bonneville Dam adult steelhead count of 73,044 and 35,745 unclipped steelhead. Daily adult steelhead counts at Lower Granite Dam ranged from 665 to 1,101 adults per day last week. This year's Lower Granite steelhead count is 22,225 of which 8,197 are unclipped steelhead. At Willamette Falls, the 2019 count for steelhead was 8,344 as of October 9th. The 2019 Bonneville Dam adult coho count of 59,138 and 4,890 jack coho. A total of 19,377 lampreys have been counted at Bonneville Dam so far this year.

Hatchery Releases Last Two Weeks

Hatchery Release Summary
From: 9/28/2019 to 10/11/19

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver	Zone
No Releases Scheduled										

Hatchery Releases Next Two Weeks

Hatchery Release Summary
From: 10/12/2019 to 10/25/2019

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver	Zone
No Releases Scheduled										

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

Daily Average Flow and Spill (in Kcfs)

Date 10/10/2019 1:15:37 PM

Page 1 of 3

Upper 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
09/26/2019	47.2	0.1	39.2	0.0	46.0	0.0	47.8	0.0	49.1	0.0	65.6	1.3	66.9	2.7
09/27/2019	36.4	0.1	38.5	0.0	38.8	0.0	37.9	0.0	38.9	0.0	56.0	0.7	54.1	2.7
09/28/2019	46.2	0.1	40.2	0.0	49.3	0.0	46.7	0.0	47.7	0.0	46.3	0.6	42.2	2.3
09/29/2019	49.6	0.1	56.5	0.0	46.1	0.9	46.3	0.0	49.2	0.0	51.3	0.7	49.2	2.8
09/30/2019	57.4	0.1	52.2	0.0	66.2	0.3	68.5	0.0	70.7	3.1	59.7	1.2	59.8	2.8
10/01/2019	57.4	0.0	57.6	0.0	54.8	0.0	59.9	0.0	63.8	1.6	65.8	0.8	63.8	2.8
10/02/2019	70.4	0.0	60.4	0.0	61.3	0.0	60.7	0.0	64.0	4.3	66.8	0.8	71.9	2.4
10/03/2019	46.5	0.0	52.0	0.0	58.0	0.0	53.0	0.0	55.2	0.0	73.9	0.9	67.4	2.2
10/04/2019	45.8	0.0	44.0	0.0	46.0	0.0	47.7	0.0	49.5	0.0	59.0	0.8	56.8	2.4
10/05/2019	42.0	0.0	41.5	0.0	40.4	0.0	38.1	0.0	39.3	0.0	51.7	0.6	53.4	2.1
10/06/2019	45.7	0.0	49.2	0.0	54.0	0.0	50.9	0.0	53.7	0.0	41.7	5.5	43.1	1.9
10/07/2019	49.5	0.0	42.1	0.0	49.8	0.0	53.4	0.0	55.7	0.0	58.4	1.2	50.9	2.3
10/08/2019	42.2	0.0	46.3	0.0	43.8	0.0	42.9	0.0	42.7	0.0	59.7	0.9	55.8	2.5
10/09/2019	52.5	0.0	58.0	0.0	53.2	0.0	52.8	0.0	56.0	0.0	60.7	0.6	62.5	2.7

- Data not available or incorrect

These data were obtained from the Corps of Engineers...

Daily Average Flow and Spill (in Kcfs)

Date 10/10/2019 1:15:37 PM

Page 2 of 3

Snake Basin Projects

Date	Dworshak		Brownlee		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Inflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
09/26/2019	2.5	0.0			25.5	0.0	25.4	0.0	24.6	0.0	21.4	0.0		
09/27/2019	2.4	0.0			24.8	0.0	19.6	0.0	19.3	0.0	22.0	0.0		
09/28/2019	2.4	0.0			25.9	0.0	26.0	0.0	25.7	0.0	25.4	0.0		
09/29/2019	2.4	0.0			23.4	0.0	24.0	0.0	24.3	0.0	24.1	0.0		
09/30/2019	2.4	0.0			25.0	0.0	26.9	0.0	28.6	0.0	29.3	0.0		
10/01/2019	2.4	0.0			26.4	0.0	25.0	0.0	24.1	0.0	24.6	0.0		
10/02/2019	1.6	0.0			26.5	0.0	25.0	0.0	25.5	0.0	28.1	0.0		
10/03/2019	1.6	0.0			22.5	0.0	22.4	0.0	22.4	0.0	20.6	0.0		
10/04/2019	1.6	0.0			21.3	0.0	21.0	0.0	20.6	0.0	20.4	0.0		
10/05/2019	1.6	0.0			23.5	0.0	20.6	0.0	20.0	0.0	17.8	0.0		
10/06/2019	1.6	0.0			28.4	0.0	28.0	0.0	27.2	0.0	25.1	0.0		
10/07/2019	1.6	0.0			23.9	0.0	21.6	0.0	23.7	0.0	29.3	0.0		
10/08/2019	1.6	0.0			27.4	0.0	19.1	0.0	19.8	0.0	17.1	0.0		
10/09/2019	1.6	0.0			23.3	0.0	25.7	0.0	25.9	0.0	28.5	0.0		

- Data not available or incorrect

These data were obtained from the Corps of Engineers...

Daily Average Flow and Spill (in Kcfs)

Date 10/10/2019 1:15:37 PM

Page 3 of 3

Mid - Columbia Projects

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
09/26/2019	74.1	0.0	66.2	0.9	66.1	0.0	74.5	1.2	0.9	65.4
09/27/2019	82.8	2.1	72.5	0.9	72.5	0.0	79.8	1.2	0.9	70.6
09/28/2019	80.6	1.3	82.7	0.9	84.2	0.0	92.4	1.2	0.9	82.8
09/29/2019	71.8	1.6	71.0	0.9	70.7	0.0	85.7	1.3	0.8	76.2
09/30/2019	92.1	0.0	88.9	0.9	91.2	0.0	102.1	1.2	0.9	92.6
10/01/2019	89.1	2.0	88.1	0.9	88.7	0.0	101.3	1.2	0.9	91.8
10/02/2019	90.6	1.2	91.4	0.9	92.8	0.0	97.6	1.3	0.9	87.9
10/03/2019	98.5	1.7	93.9	1.0	92.4	0.0	100.7	1.7	0.9	90.7
10/04/2019	81.9	0.0	78.0	0.9	77.0	0.0	85.5	1.3	1.3	75.8
10/05/2019	73.6	3.9	76.7	0.8	77.6	0.0	83.6	1.2	0.9	74.1
10/06/2019	74.3	1.9	73.4	0.8	73.7	0.0	81.1	1.2	0.9	71.7
10/07/2019	71.2	1.5	73.1	0.8	73.7	0.0	81.9	1.2	0.9	72.4
10/08/2019	73.0	1.6	73.3	0.8	72.4	0.0	75.2	1.2	0.9	65.7
10/09/2019	92.0	0.0	94.0	0.8	100.3	0.0	113.2	1.2	0.9	103.7

- Data not available or incorrect

These data were obtained from the Corps of Engineers...

FISH PASSAGE CENTER

Smolt Monitoring Program Two Week Passage Index Report

Date 10/10/2019 12:16:14 PM

Page 1 of 7

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)
09/26/2019					0	0	0		0		0
09/27/2019					0	0	0				0
09/28/2019					0	0	0		0		0
09/29/2019					1	0	0				0
09/30/2019					0	0	0		0		0
10/01/2019					0	0					0
10/02/2019					0	0					0
10/03/2019					0	0					0
10/04/2019					0	0					0
10/05/2019					0	0					0
10/06/2019					1	0					0
10/07/2019					0	0					0
10/08/2019					0	0					0
10/09/2019					1	0					0
10/10/2019					1	0					0
Total:	0	0	0	0	4	0	0	0	0	0	0
# Days:	0	0	0	0	15	15	5	0	3	0	14
Average:	0	0	0	0	0	0	0	0	0	0	0
YTD:	16,130	22,180	12,656	5,063	2,955,577	2,007,538	1,697,396	18,809	825,244	701,920	1,764,794

Number of hours sampled:

- No data available or no sample conducted

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

FISH PASSAGE CENTER

Smolt Monitoring Program Two Week Passage Index Report

Date 10/10/2019 12:16:14 PM

Page 2 of 7

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)
09/26/2019					24	6	6		20		69
09/27/2019					15	16	10				34
09/28/2019					19	10	0		10		0
09/29/2019					35	12	0				0
09/30/2019					52	24	10		0		0
10/01/2019					32	64					0
10/02/2019					45	92					34
10/03/2019					67	57					69
10/04/2019					99	59					68
10/05/2019					59	48					103
10/06/2019					47	64					68
10/07/2019					54	54					34
10/08/2019					52	40					34
10/09/2019					48	21					0
10/10/2019					57	33					
Total:	0	0	0	0	705	600	26	0	30	0	513
# Days:	0	0	0	0	15	15	5	0	3	0	14
Average:	0	0	0	0	47	40	5	0	10	0	37
YTD:	1	4	9	1,070	681,347	534,145	354,782	14,978	531,561	506,745	3,464,314

Number of hours sampled:

- No data available or no sample conducted

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

FISH PASSAGE CENTER

Smolt Monitoring Program Two Week Passage Index Report

Date 10/10/2019 12:16:14 PM

Page 3 of 7

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)
09/26/2019					0	0	0		0		0
09/27/2019					0	0	0				0
09/28/2019					0	0	0		0		0
09/29/2019					0	0	0				0
09/30/2019					0	0	0		0		0
10/01/2019					0	0					0
10/02/2019					0	0					0
10/03/2019					0	0					0
10/04/2019					0	0					0
10/05/2019					0	0					0
10/06/2019					0	0					0
10/07/2019					0	0					0
10/08/2019					0	0					0
10/09/2019					0	0					0
10/10/2019					1	0					
Total:	0	0	0	0	1	0	0	0	0	0	0
# Days:	0	0	0	0	15	15	5	0	3	0	14
Average:	0	0	0	0	0	0	0	0	0	0	0
YTD:	0	0	1,565	87	119,648	95,249	46,021	46,937	57,824	71,452	535,732

Number of hours sampled:

- No data available or no sample conducted

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

FISH PASSAGE CENTER

Smolt Monitoring Program Two Week Passage Index Report

Date 10/10/2019 12:16:14 PM

Page 4 of 7

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)
09/26/2019					0	0	0		0		0
09/27/2019					0	0	0				0
09/28/2019					0	0	0		0		0
09/29/2019					1	0	0				0
09/30/2019					1	0	0		0		0
10/01/2019					0	0					0
10/02/2019					2	0					0
10/03/2019					1	1					0
10/04/2019					0	0					0
10/05/2019					0	0					0
10/06/2019					2	0					0
10/07/2019					0	0					0
10/08/2019					1	0					0
10/09/2019					2	0					0
10/10/2019					0	0					0
Total:	0	0	0	0	10	1	0	0	0	0	0
# Days:	0	0	0	0	15	15	5	0	3	0	14
Average:	0	0	0	0	1	0	0	0	0	0	0
YTD:	884	15,707	4,137	1,155	4,386,513	2,941,419	2,461,591	9,870	431,131	824,766	473,503

Number of hours sampled:

- No data available or no sample conducted

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

FISH PASSAGE CENTER

Smolt Monitoring Program Two Week Passage Index Report

Date 10/10/2019 12:16:14 PM

Page 5 of 7

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)
09/26/2019					0	0	0		0		0
09/27/2019					0	0	0				0
09/28/2019					0	0	0		0		0
09/29/2019					2	0	0				0
09/30/2019					1	0	0		0		0
10/01/2019					0	0					0
10/02/2019					2	1					0
10/03/2019					1	0					0
10/04/2019					2	1					0
10/05/2019					0	1					0
10/06/2019					0	0					0
10/07/2019					0	1					0
10/08/2019					0	1					0
10/09/2019					0	0					0
10/10/2019					0	1					0
Total:	0	0	0	0	8	6	0	0	0	0	0
# Days:	0	0	0	0	1	0	0	0	0	0	0
Average:	0	0	0	0	1	0	0	0	0	0	0
YTD:	1	0	0	506	73,735	52,419	63,511	7,401	166,189	89,744	158,595

Number of hours sampled:

- No data available or no sample conducted

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

FISH PASSAGE CENTER

Smolt Monitoring Program Two Week Passage Index Report

Date 10/10/2019 12:16:14 PM

Page 6 of 7

COMBINED LAMPREY JUVENILES

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR* (Sample)	LGS (Coll)	LMN (Coll)	RIS (Coll)	MCN (Coll)	JDA (Coll)	BO2 (Coll)
09/26/2019					0	2	0		10		0
09/27/2019					0	13	0				0
09/28/2019					0	6	0		10		33
09/29/2019					2	0	0				0
09/30/2019					1	0	0		10		0
10/01/2019					1	1					0
10/02/2019					0	0					0
10/03/2019					1	2					0
10/04/2019					0	5					0
10/05/2019					2	3					0
10/06/2019					0	5					0
10/07/2019					2	0					0
10/08/2019					0	0					0
10/09/2019					1	0					0
10/10/2019					0	3					0
Total:	0	0	0	0	10	40	0	0	30	0	33
# Days:	0	0	0	0	17	15	5	0	3	0	14
Average:	0	0	0	0	1	3	0	0	10	0	2
YTD:	2	67	98		645	24,664	67,373	509	189,639	178,367	104,835

- No data available or no sample conducted

- 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.

Number of hours sampled:

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Smolt Monitoring Program Two Week Passage Index Report

Date 10/10/2019 12:16:14 PM

Page 7 of 7

Smolt Monitoring Program Sites and Agency Collaborations:

- 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
- LGS (Index) - Little Goose Bypass Collection System : Passage Index Counts
- LMN (Index) - Lower Monumental Dam Bypass Collection System : Passage Index Counts
- RIS (Index) - Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts
- MCN (Index) - McNary Dam Bypass Collection System : Passage Index Counts
- JDA (Index) - John Day Dam Bypass Collection System : Passage Index Counts
- BO2 (Index) - Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts

- No data available or no sample conducted

Number of hours sampled:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Important Information About this Report:

- For clip information see: <http://www.fpc.org/currentdaily/smpcomments.htm>
- Three 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. Equations for passage index are provided below for each site.
 LGR, LGS, LMN, MCN, JDA (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts Passage Index = Collection Counts / (Powerhouse Flow / (Powerhouse Flow + Spill))
 RIS, BO2 (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts Passage Index = Collection Counts / (Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill))
- 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.
- 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.

FISH PASSAGE CENTER

Two Week Transportation Summary Report

9/26/2019 12:00:00 AM TO 10/10/2019 12:00:00 AM

Date 10/10/2019 12:17:36 PM

Page 1 of 2

Lower Granite Dam

Data	Chinook Subyearlings	Chinook Yearlings	Coho	Sockeye	Steelhead	Grand Total
Sum of Number Collected	705	4	1	8	10	728
Sum of Number Barged	0	0	0	0	0	0
Sum of Number Bypassed	0	0	0	0	10	10
Sum of Number Trucked	719	4	1	7	0	731
Sum of Sample Morts	4	0	0	1	0	5
Sum of Facility Morts	0	0	0	0	0	0
Sum of Reseach Morts	0	0	0	0	0	0
Sum of Total Project Mort	4	0	0	1	0	5

Little Goose Dam

Data	Chinook Subyearlings	Chinook Yearlings	Coho	Sockeye	Steelhead	Grand Total
Sum of Number Collected	600	0	0	6	1	607
Sum of Number Barged	0	0	0	0	0	0
Sum of Number Bypassed	1	0	0	0	0	1
Sum of Number Trucked	594	0	0	4	1	599
Sum of Sample Morts	9	0	0	0	0	9
Sum of Facility Morts	7	0	0	2	0	9
Sum of Reseach Morts	0	0	0	0	0	0
Sum of Total Project Mort	16	0	0	2	0	18

FISH PASSAGE CENTER

Two Week Transportation Summary Report

9/26/2019 12:00:00 AM TO 10/10/2019 12:00:00 AM

Date 10/10/2019 12:17:36 PM

Page 2 of 2

Lower Monumental Dam

Data	Chinook Subyearlings	Chinook Yearlings	Coho	Sockeye	Steelhead	Grand Total
Sum of Number Collected	26	0	0	0	0	26
Sum of Number Barged	0	0	0	0	0	0
Sum of Number Bypassed	30	0	0	0	0	30
Sum of Number Trucked	0	0	0	0	0	0
Sum of Sample Morts	1	0	0	0	0	1
Sum of Facility Morts	0	0	0	0	0	0
Sum of Reseach Morts	0	0	0	0	0	0
Sum of Total Project Mort	1	0	0	0	0	1

Total

Data	Chinook Subyearlings	Chinook Yearlings	Coho	Sockeye	Steelhead	Grand Total
Sum of Number Collected	1,331	4	1	14	11	1,372
Sum of Number Barged	0	0	0	0	0	0
Sum of Number Bypassed	31	0	0	0	10	51
Sum of Number Trucked	1,313	4	1	11	1	1,331
Sum of Sample Morts	14	0	0	1	0	15
Sum of Facility Morts	7	0	0	2	0	9
Sum of Reseach Morts	0	0	0	0	0	0
Sum of Total Project Mort	21	0	0	3	0	24

FISH PASSAGE CENTER

YTD Transportation Summary Report

Date 10/10/2019 12:17:12 PM

Page 1 of 2

Lower Granite Dam

Data	Chinook Subyearlings	Chinook Yearlings	Coho	Sockeye	Steelhead	Grand Total
Sum of Number Collected	434313	1866562	77394	49639	2730597	5158505
Sum of Number Barged	375240	1258040	56679	49346	1360137	3099442
Sum of Number Bypassed	44318	606527	20623	150	1370181	2041799
Sum of Number Trucked	13662	230	6	11	5	13914
Sum of Sample Morts	206	44	2	2	24	278
Sum of Facility Morts	887	1706	84	130	225	3032
Sum of Reseach Morts	0	15	0	0	25	40
Sum of Total Project Mort	1093	1765	86	132	274	3350

Little Goose Dam

Data	Chinook Subyearlings	Chinook Yearlings	Coho	Sockeye	Steelhead	Grand Total
Sum of Number Collected	322412	1158141	55910	30943	1702667	3270073
Sum of Number Barged	283249	943186	52730	30724	1027508	2337397
Sum of Number Bypassed	16245	212682	3062	40	674797	906826
Sum of Number Trucked	22149	2	12	14	135	22312
Sum of Sample Morts	258	40	10	8	11	327
Sum of Facility Morts	511	2231	96	157	216	3211
Sum of Reseach Morts	0	0	0	0	0	0
Sum of Total Project Mort	769	2271	106	165	227	3538

FISH PASSAGE CENTER

YTD Transportation Summary Report

Date 10/10/2019 12:17:12 PM

Page 2 of 2

Lower Monumental Dam

Data	Chinook Subyearlings	Chinook Yearlings	Coho	Sockeye	Steelhead	Grand Total
Sum of Number Collected	223357	1176566	30700	44108	1655433	3130164
Sum of Number Barged	218639	818457	27126	43977	1027465	2135664
Sum of Number Bypassed	4393	357066	3570	128	627716	992873
Sum of Number Trucked	72	0	0	0	2	74
Sum of Sample Morts	46	15	1	0	14	76
Sum of Facility Morts	207	1028	3	3	236	1477
Sum of Reseach Morts	0	0	0	0	0	0
Sum of Total Project Mort	253	1043	4	3	250	1553

Total

Data	Chinook Subyearlings	Chinook Yearlings	Coho	Sockeye	Steelhead	Grand Total
Sum of Number Collected	980082	4201269	164004	124690	6088697	11558742
Sum of Number Barged	877128	3019683	136535	124047	3415110	7572503
Sum of Number Bypassed	64956	1176275	27255	318	2672694	3941498
Sum of Number Trucked	35883	232	18	25	142	36300
Sum of Sample Morts	510	99	13	10	49	681
Sum of Facility Morts	1605	4965	183	290	677	7720
Sum of Reseach Morts	0	15	0	0	25	40
Sum of Total Project Mort	2115	5079	196	300	751	8441

Cumulative Adult Passage at Mainstem Dams Through:

10/10

dam	enddate	Fall Chinook 2019	
		Adult	Jack
BON	10/09	261704	41870
TDA	10/09	167241	24557
JDA	10/09	126266	21679
MCN	10/09	115118	16572
IHR	10/09	16457	4387
LMN	10/09	15167	6149
LGS	10/09	15613	4483
LGR	10/09	14349	5218
PRD	10/09	19673	2326
WAN	10/09	10762	1327
RIS	10/09	9641	643
RRH	10/09	6753	445
WEL	10/09	3065	292
WFA	10/08	1428	293

dam	enddate	Coho 2019	
		Adult	Jack
BON	10/09	59138	4890
TDA	10/09	29963	3657
JDA	10/09	22375	3365
MCN	10/09	18314	2066
IHR	10/09	3522	279
LMN	10/09	3425	520
LGS	10/09	2641	793
LGR	10/09	2748	110
PRD	10/09	4064	245
WAN	10/09	3022	135
RIS	10/09	5615	253
RRH	10/09	2264	107
WEL	10/09	991	57
WFA	10/08	5066	1005

dam	enddate	Sockeye 2019
		Adult
BON	10/09	63046
TDA	10/09	50687
JDA	10/09	52526
MCN	10/09	51561
IHR	10/09	320
LMN	10/09	195
LGS	10/09	83
LGR	10/09	81
PRD	10/09	45231
WAN	10/09	53893
RIS	10/09	58557
RRH	10/09	50455
WEL	10/09	49856
WFA	10/08	--

dam	enddate	Steelhead 2019	
		All	Unclipped
BON	10/09	73044	35745
TDA	10/09	53959	24544
JDA	10/09	41309	19586
MCN	10/09	37265	16262
IHR	10/09	23496	8228
LMN	10/09	23492	8492
LGS	10/09	19943	7106
LGR	10/09	22225	8197
PRD	10/09	3422	--
WAN	10/09	3194	--
RIS	10/09	3882	2300
RRH	10/09	2780	1553
WEL	10/09	2307	1417
WFA	10/08	8344	3404

dam	enddate	Lamprey 2019
		Adult
BON	10/09	19377
TDA	10/09	4221
JDA	10/09	4589
MCN	10/09	1004
IHR	10/09	271
LMN	10/09	177
LGS	10/09	45
LGR	10/09	94
PRD	10/09	3428
WAN	10/09	2965
RIS	10/09	1065
RRH	10/09	906
WEL	10/09	14
WFA	10/08	--