Prepared by:	Dillon Alegre, Grant Brink & Rachel Ellison, Environmental Assessment Services, LLC
Report Period:	October 16th to October 31st, 2022
Report No.:	2022 Willamette RST Bi-Weekly Report 10/16-10/31 by EAS
Re:	**WILLAMETTE VALLEY FISH PASSAGE MONITORING VIA ROTARY SCREW TRAPS**

Project Schedule

Table 1. Project Schedule

Site	Task	Start	End	Days
Big Cliff Dam RST	Operation	12/01/2021	02/15/2022	292
Big Cliff Dam RST	Operation	03/15/2022	10/15/2022	
Big Cliff Dam Tailrace	Trap Efficiency Release (1,000 Fish)	12/22/2021	12/22/2021	1
Big Cliff Dam Tailrace	Temporary Trap Removal and Install	05/06/2022	05/13/2022	7
Big Cliff Dam Tailrace	Trap Efficiency Release (1,000 Fish)	05/25/2022	05/25/2025	1
Big Cliff Dam Tailrace	Trap Efficiency Release (1,000 Fish)	08/09/2022	08/09/2022	1
Big Cliff Dam Tailrace	Trap Efficiency Release (1,000 Fish)	09/30/2022	09/30/2022	1
Big Cliff Dam Tailrace	Trap Efficiency Release (500 Fish)	10/13/2022	10/13/2022	1
Big Cliff Dam Tailrace	Trap Efficiency Release (535 Fish)	10/24/2022	10/24/2022	1
Green Peter Tailrace- Middle Santiam River RST	Trap Install	03/02/2022	03/02/2022	1
Green Peter Tailrace- Middle Santiam River RST	Operation	03/03/2022	06/30/2022	120
Green Peter Tailrace- Middle Santiam River RST	Trap Efficiency Release (643 Fish)	03/29/2022	03/29/2022	1
Green Peter Tailrace- Middle Santiam River RST	Trap Efficiency Release (521 Fish)	04/30/2022	04/30/2022	1
Green Peter Tailrace- Middle Santiam River RST	Temporary Trap Removal	05/12/2022	05/12/2022	1
Foster Dam Head of Reservoir- South Santiam River RST	Trap Install	03/16/2022	03/16/2022	1
Foster Dam Head of Reservoir- South Santiam River RST	Operation	03/10/2022	06/30/2022	113
Foster Dam Head of Reservoir- South Santiam River RST	Trap Removal	07/01/2022	07/01/2022	1
Foster Dam Head of Reservoir- South Santiam River RST	Trap Install	09/02/2022	09/02/2022	1
Foster Dam Head of Reservoir- South Santiam River RST	Trapping Efficiency Release (1000 fish)	09/29/2022	09/29/2022	1
Foster Dam Head of Reservoir- South Santiam River RST	Trapping Efficiency Release (840 fish)	10/25/2022	10/25/2022	1
Cougar Dam RST	Operation	11/30/2021	11/30/2022	366
Cougar Dam	Trap Efficiency Release	01/19/2022	01/19/2022	1

	(1,200 Fish, 600 per route)			
Cougar Dam	Trap Efficiency Release (735 Fish, ~365 per route)	04/20/2022	04/20/2022	1
Cougar Dam	Trap Efficiency Release (993 Fish, RO route)	05/15/2022	05/15/2022	1
Cougar Dam	Trap Efficiency Release (500 Fish, PH route)	07/19/2022	07/19/2022	1
Cougar Dam	Trap Efficiency Release (501 Fish, PH route)	08/11/2022	08/11/2022	1
Cougar Dam	Trap Efficiency Release (442 Fish, RO route)	10/14/2022	10/14/2022	1
Cougar Dam Head of Reservoir	Highline and Trap Install	03/07/2022	03/07/2022	1
Cougar Dam Head of Reservoir	Operation	03/08/2022	06/30/2022	115
Cougar Dam Head of Reservoir	Trap Efficiency Release (806 Fish)	03/18/2022	03/18/2022	1
Cougar Dam Head of Reservoir	Trap Efficiency Release (500 Fish)	05/19/2022	05/19/2022	1
Cougar Dam Head of Reservoir	Trap Efficiency Release (515 Fish)	06/23/2022	06/23/2022	1
Cougar Dam Head of Reservoir	Trap Removal	07/01/2022	07/01/2022	1
Cougar Dam Head of Reservoir	Highline Install	09/14/2022	09/14/2022	1
Cougar Dam Head of Reservoir	Trap Install	09/16/2022	09/16/2022	1
Cougar Dam Head of Reservoir	Trap Efficiency Release (551 Fish)	09/22/2022	09/22/2022	1
Cougar Dam Head of Reservoir	Trap Efficiency Release (608 Fish)	10/5/2022	10/5/2022	1
Dexter Dam Tailrace RST	Highline Install	03/02/2022	03/02/2022	1
Dexter Dam Tailrace RST	Trap Install	03/03/2022	03/03/2022	1
Dexter Dam Tailrace RST	Operation	03/07/2022	12/16/2022	285
Dexter Dam Tailrace RST	Trap Efficiency Release (988 Fish)	03/23/2022	03/23/2022	1
Dexter Dam Tailrace RST	Trap Efficiency Release (1000 Fish)	05/04/2022	05/04/2022	1
Dexter Dam Tailrace RST	Trap Efficiency Release (1019 Fish)	05/24/2022	05/24/2022	1
Dexter Dam Tailrace RST	Trap Efficiency Release (981 Fish)	07/21/2022	07/21/2022	1
Dexter Dam Tailrace RST	Trap Efficiency Release (1007 Fish)	10/26/2022	10/26/2022	1
Lookout Dam Tailrace RSTs	Operation	03/15/2022	07/31/2022	139
Lookout Dam Tailrace RSTs	Trap Efficiency Release (1,013 fish, PWR route)	04/13/2022	04/13/2022	1
Lookout Point Head of Reservoir RST	Trap Install	03/06/2022	03/06/2022	1
Lookout Point Head of Reservoir RST	Operation	03/07/2022	12/16/2022	285
Lookout Point Head of Reservoir RST	Trap Efficiency Release (993 fish)	04/05/2022	04/05/2022	1
Lookout Point Head of Reservoir RST	Trap Efficiency Release (989 fish)	04/14/2022	04/14/2022	1
Lookout Point Head of Reservoir RST	Trap Efficiency Release (1007 fish)	05/18/2022	05/18/2022	1
Lookout Point Head of Reservoir RST	Trap Efficiency Release (1005 fish)	07/20/2022	07/20/2022	1
Lookout Point Head of Reservoir RST	Trap Efficiency Release (506 fish)	10/27/2022	10/27/2022	1

Fall Creek Dam Tailrace RST	Operation	03/15/2022	07/15/2022	123
Fall Creek Dam Tailrace RST	Trap Efficiency Release (518 fish)	06/08/2022	06/08/2022	1
Fall Creek Dam Tailrace RST	Trap Efficiency Release (513 fish)	06/30/2022	06/30/2022	1
Fall Creek Dam Tailrace RST	Trap Efficiency Release (500 fish)	07/13/2022	07/13/2022	1
Fall Creek Dam Tailrace RST	Deployment	10/15/2022	10/15/2022	1
Fall Creek Head of Reservoir RST	Trap and Highline Install	01/11/2022	01/11/2022	1
Fall Creek Head of Reservoir RST	Operation	01/02/2022	05/31/2022	150
Fall Creek Head of Reservoir RST	Removal	06/02/2022	06/02/2022	1
Hills Creek Dam RO and PWR	Deployment	10/12/2021	10/12/2021	1
Hills Creek Dam RO	Operation	10/15/2021	03/01/2022	138
Hills Creek Dam PWR	Operation	10/15/2021	03/01/2022	138
Hills Creek Dam	Trap Efficiency Release (1,200 fish, 600 per route)	01/6/2022	01/6/2022	1
Hills Creek Dam	Trap Efficiency Release (1,200 fish, 600 per route)	02/16/2022	02/16/2022	1
Hills Creek Dam	Trap Efficiency Release (1,200 fish, 600 per route)	02/23/2022	02/23/2022	1
Hills Creek Dam RSTs	Trap Removal	03/01/2022	03/01/2022	1
Hills Creek Dam RSTs	Trap Install	09/14/2022	09/14/2022	1
Hills Creek Dam RSTs	Deployment	9/15/2022	9/15/2022	1

Summary of Rotary Screw Trap Data

Rotary screw traps (RSTs) have been operated at eleven locations in the southern Willamette River watershed. For this reporting period, traps were operated at the following nine locations: Big Cliff Dam, Foster Dam Head of Reservoir- South Santiam, Cougar Dam, Cougar Dam Head of Reservoir, Fall creek Dam, Dexter Dam Tailrace, Lookout Dam Tailrace, Lookout Point Head of Reservoir, and Hills Creek Dam. The trap in the Fall Creek Dam RO channel resumed sampling on October 15th. The Green Peter Dam Tailrace- Middle Santiam trap was removed on May 12th due to damage incurred to the highline.

The RST's at Big Cliff Dam and Lookout Dam Tailrace started sampling on March 15th. On March 1st the Middle Fork Willamette River below Hills Creek Dam RST's were removed for the sampling season in conjunction with the end of RO spill and to prioritize the limited number of screw traps to other locations. Sampling at Hills Creek Dam resumed on September 15th.

Below Dam sites that include both RO and PWR to monitor passage routes include South Fork McKenzie River below Cougar Dam and on the Middle Fork of the Willamette River in the Lookout Dam Tailrace, and Hills Creek Dam. Below dam sites that include one RST to monitor passage include Big Cliff Dam, Green Peter Tailrace- Middle Santiam, the Middle Fork of the Willamette River below Dexter Dam and Fall Creek Dam Tailrace which is a tributary on the Middle Fork of the Willamette. At the Green Peter Dam Tailrace, the single RST is placed to sample fish passing through spillways, regulating outlets, and powerhouse outlets. The RST at Dexter Dam is placed to monitor fish passage through the spillways and powerhouse outlets. The RST in the Fall Creek Dam Tailrace is placed in a position to sample fish passing through the regulating outlet.

The RST on the North Santiam River below Big Cliff Dam was not sampled while fish passage measures were not being implemented from 16 February 2022 to 14 March 2022. Sampling resumed on 15 March 2022 in accordance with Task 2.2.

Above reservoir sites include Fall Creek Head of Reservoir, Lookout Point Head of Reservoir on the Middle Fork Willamette River, Foster Dam Head of Reservoir- South Santiam, and Cougar Dam Head of Reservoir on the South Fork McKenzie.

Sampling start dates are included in Table 2, and season total collection numbers are displayed in Table 3. The locations of the RST's are depicted in Figures 1 through 8.

Figure 1. Big Cliff RST Location

Figure 2. Foster Dam Head of Reservoir- South Santiam RST Location

Figure 3. Cougar Dam RST Locations

Figure 4. Cougar Dam Head of Reservoir RST Location

Figure 5. Fall Creek Dam Tailrace RST Location

Figure 6. Dexter Dam RST Location

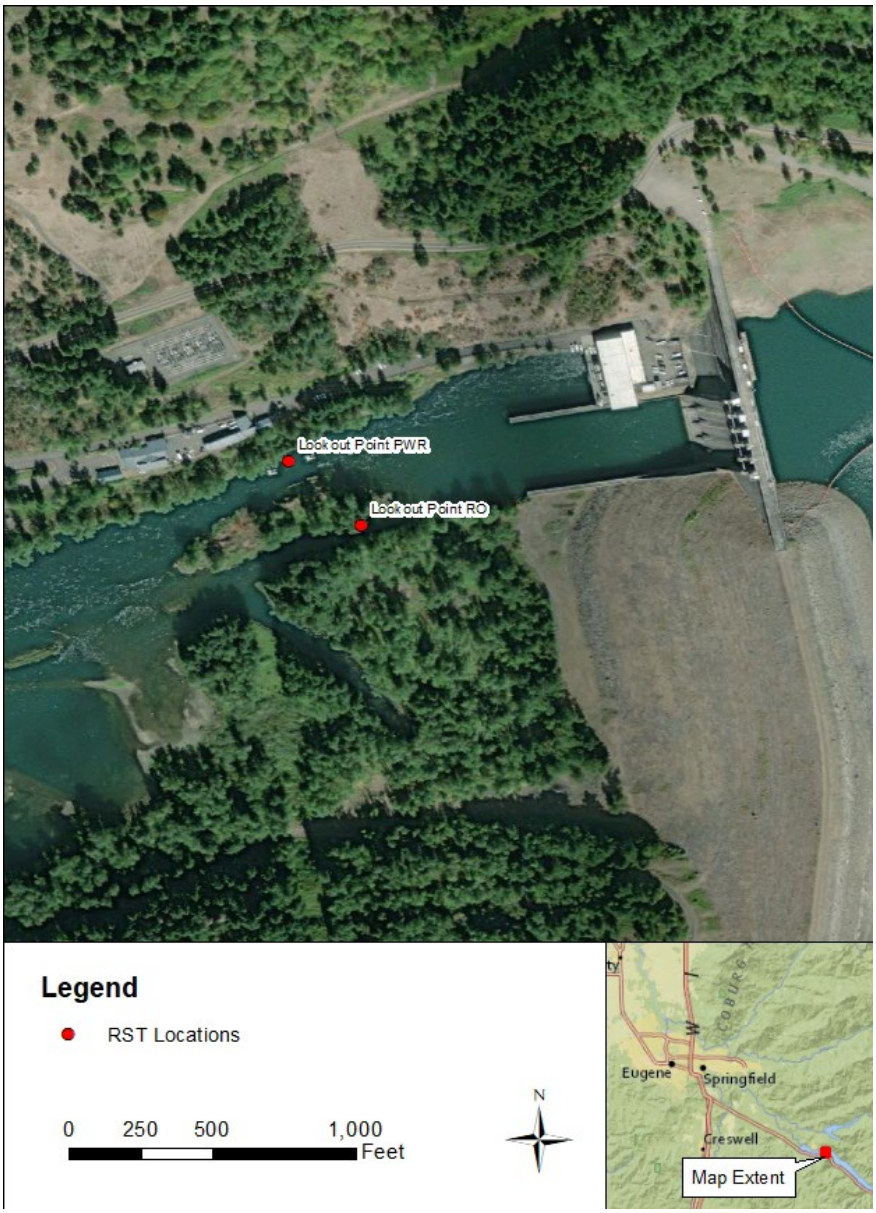


Figure 7. Lookout Point Dam Tailrace RST Location

Figure 8. Lookout Point Head of Reservoir RST Location

Figure 9. Hills Creek Dam RST Locations

Table 2. Sampling Dates for Reporting Period

Site	Total Sampling Period Start	Current Reporting Period Start	Current Reporting Period End	Days Sampled This Period	Total Days Sampled
Big Cliff Dam	12/1/2021	10/16/2022	10/31/2022	15	289
Foster Dam Head of Reservoir- South Santiam	3/16/2022	10/16/2022	10/31/2022	15	169
Cougar Dam PH	12/1/2021	10/16/2022	10/31/2022	0	302
Cougar Dam RO	12/1/2021	10/16/2022	10/31/2022	15	327
Cougar Dam Head of Reservoir	3/7/2022	10/16/2022	10/31/2022	15	144
Fall Creek Dam Tailrace*	3/15/2022	10/16/2022	10/31/2022	14	137
Dexter Dam Tailrace	3/7/2022	10/16/2022	10/31/2022	14	228
Lookout Point Dam PH	3/15/2022	10/16/2022	10/31/2022	9	200
Lookout Point Dam Spill	3/15/2022	10/16/2022	10/31/2022	9	200
Lookout Point Head of Reservoir	3/10/2022	10/16/2022	10/31/2022	8	215
Hills Creek Dam	9/16/2022	10/16/2022	10/31/2022	8	31

*Fall Creek Dam Tailrace trap was being operated by the Corps until EAS began sampling the site on March 15th per Task 7.1

Table 3. Willamette Valley Rotary Screw Trap Monitoring Catch Summary

Site	Species	Catch (Reporting Period)	Recaptures (Reporting Period)	Total Catch	Total Recaptures
Big Cliff Dam	CHS	26	31	1132	246
Big Cliff Dam	STW	5	0	67	0
Green Peter Tailrace- Middle Santiam	CHS	0	0	0	13
Green Peter Tailrace- Middle Santiam	STW	0	0	6	0
Foster Dam Head of Reservoir- South Santiam	CHS	7	111	73	111
Foster Dam Head of Reservoir- South Santiam	STW	74	0	164	1
Cougar Dam	CHS	620	11	2239	449
Cougar Dam Head of Reservoir	CHS	43	0	675	174
Fall Creek Dam Tailrace	CHS	1	0	1	11
Dexter Dam Tailrace	CHS	0	0	97	113
Lookout Point Dam	CHS	0	0	78	2
Lookout Point Head of Reservoir	CHS	0	9	103	215
Hills Creek Dam	CHS	3	0	104	0

North Santiam – Big Cliff Dam

The RST on the North Santiam River below Big Cliff Dam was not sampled while fish passage measures were not being implemented from February 16th, 2022 to March 14th, 2022. Sampling resumed on March 15th, 2022 in accordance with Task 2.2.

Target Species

This reporting period began on October 16th and ended on October 31st. There were a total of 26 Chinook Salmon (CHS) and 5 Winter Steelhead (STW) captured during the 15-day sampling period (Figure 10). Sampling duration was 100% for the RST. Table 4 provides life stage, length, and weight data for all Chinook Salmon and Winter Steelhead that have been caught at the Big Cliff Dam site to-date and for the reporting period. Figure 11 shows length frequency data to-date.

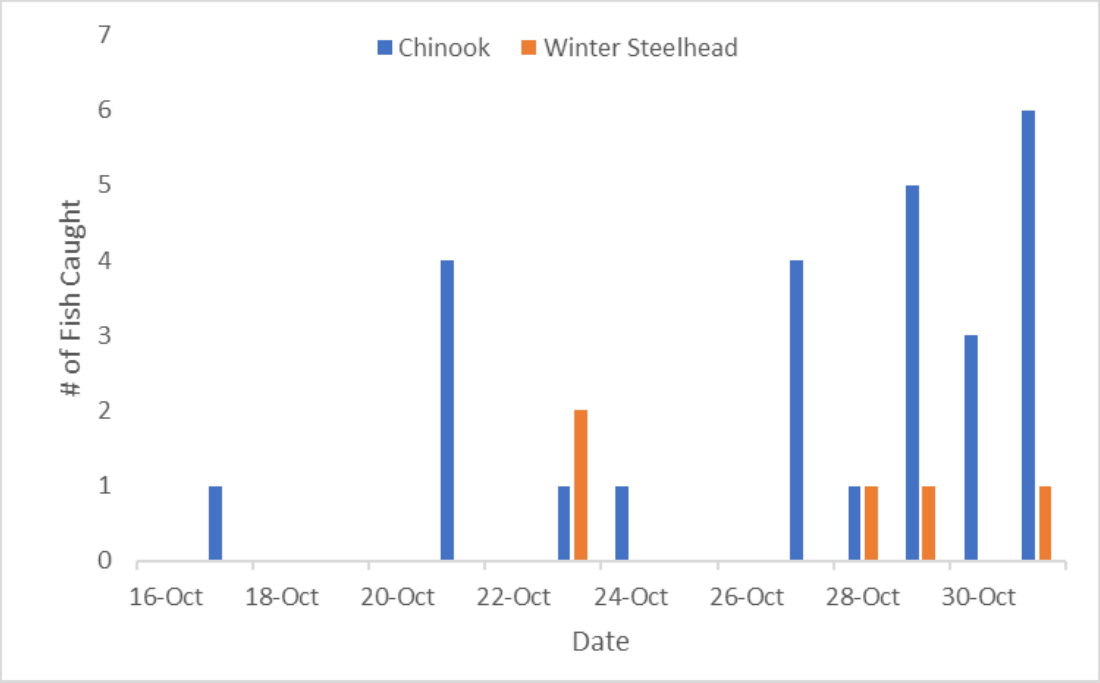


Figure 10. Chinook and Winter Steelhead Captured per day 10/16/2022 to 10/31/2022 (Big Cliff)

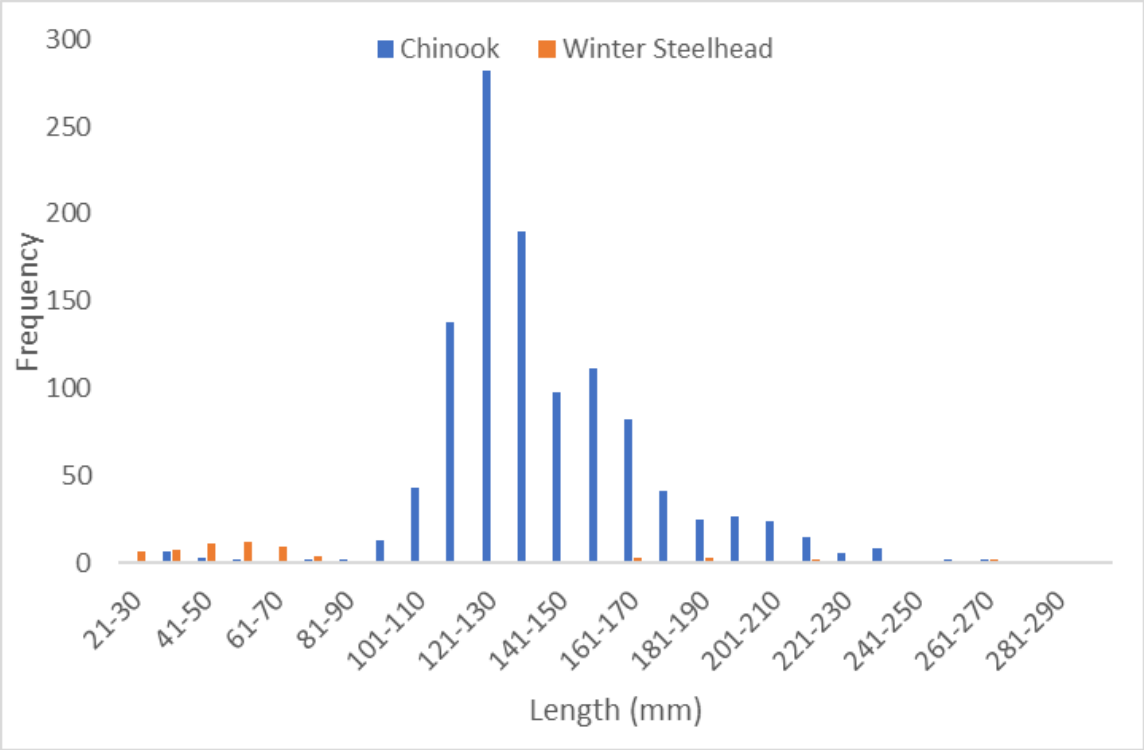


*Figure does not include fish without heads

Figure 11. Length Frequency of Juvenile Chinook and Winter Steelhead Sampled Season To-Date (Big Cliff)

Trapping Efficiency

A total of 535 juvenile hatchery Chinook (sub-yearlings) were bismarck brown dyed, adipose clipped and released on 10/24/2022 below Big Cliff Dam. A total of 31 fish were recaptured in the 8ft trap. Trapping efficiency was 5.8%.

Trapping efficiency fish displayed minor descaling and fin damage. 3 fish displayed bloating.

Big Cliff Dam	Release #	Recapture #	Capture Efficiency
8ft Trap	535	31	5.8% (31/535)

Table 4. Descriptive Statistics of Target Species Captured at Big Cliff Dam Season To-Date

To-Date (Since Dec. 01, 2021)											
Site	Route	Species	Life stage	Collected	Length (mm)*			Weight (g)*			
					Min	Max	Mean	Min	Max	Mean	
Big Cliff	PWR	CHS	Fry	9	31	48	37.5	1.2	1.4	1.4	
		CHS	Parr	24	58	136	98.3	2.1	30.0	11.6	
		CHS	Smolt	1097	91	283	142.9	8.9	253.5	34.4	
		STW	Fry	28	21	69	40.4	1.1	3.4	1.6	
		STW	Parr	22	51	111	65.5	1.3	14.3	3.7	
		STW	Smolt	17	157	284	214.1	36.1	230.5	102.2	

*Fish that were missing heads are not included in length and weight calculations.

October 16-31, 2022											
Site	Route	Species	Life stage	Collected	Length (mm)*			Weight (g)*			
					Min	Max	Mean	Min	Max	Mean	
Big Cliff	PWR	CHS	Fry	0	N/A	N/A	N/A	N/A	N/A	N/A	
		CHS	Parr	0	N/A	N/A	N/A	N/A	N/A	N/A	
		CHS	Smolt	26	113	265	166.6	13.6	197.8	56.9	
		STW	Fry	0	48	48	48.0	1.5	1.5	1.5	
		STW	Parr	5	56	75	64.0	2.1	5.4	3.1	
		STW	Smolt	0	N/A	N/A	N/A	N/A	N/A	N/A	

*Fish that were missing heads are not included in length and weight calculations.

24-Hour Post Collection Holding Trial

21 Spring Chinook and 5 Winter Steelhead were captured during the current reporting period and held for 24 hours. 4 Chinook (19.0%) and 1 Winter Steelhead (20.0%) died in holding.

Injuries and Copepod Infection

Partial descaling <20% was observed in 16 of the 26 Chinook captured (61.5%), 8 displayed descaling >20% (30.8%), 26 displayed body injury (100.0%), 4 had eye injury (15.4%), 23 had copepods present in the branchial cavity (88.5%) and 5 had copepods on fins (19.2%). 5 Chinook displayed gas bubble disease (19.2%) (four level 1 and one level 2. There were 4 mortalities (15.4%).

Partial descaling <20% was observed in 0 of the 5 Winter Steelhead captured (0.0%) and 0 displayed descaling >20% (0.0%), 1 displayed body injury (20.0%), 0 had eye injury (0.0%), 0 had copepods present in the branchial cavity (0.0%) and 0 had copepods on fins (0.0%). There were 0 mortalities (0.0%). Injury data is summarized in table 5.

Table 5. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon and Winter Steelhead for Sampling Period. (Big Cliff Dam).

Site	Species	# Fish Collected	# DSC* <20%	# DSC* >20%	# with Body Injuries	# with Eye Injuries	# with COP* In B.C.	# with COP* on Fins	Mortalities
Big Cliff Dam	Chinook	26	16	8	26	4	23	5	4
Big Cliff Dam	Winter Steelhead	5	0	0	1	0	0	0	0

Collected DNA and Scale Samples

For the reporting period, scales and DNA were collected from 26 Spring Chinook and 5 Winter Steelhead. The other targets captured did not meet length criteria for DNA sampling or were too descaled to collect samples.

Non-Target Species

1094 non-targets were captured during this sampling period. A summary of to-date non-target species catch and mortality numbers are listed in Table 6.

Table 6. Summary of Non-target Species (Big Cliff Dam)

Species	PWR Capture	PWR Mortality	Season Total	Season Total Mortality
Bass	1	1	1	1
Bluegill	807	18	930	28
Bullhead	0	0	5	0
Chinook (Adult)	0	0	2	1
Chinook (clipped)	0	0	9	0
Cutthroat	0	0	3	0
Kokanee	10	2	140	45
O. mykiss (clipped)	0	0	7	3
Pumpkinseed	276	8	373	13
Unknown	0	0	4	1
Mountain Whitefish	0	0	4	0
Totals	**1094**	**29**	**1478**	**63**

Stream Statistics

Basic stream statistics at the Big Cliff Dam site were calculated from data downloaded from U.S. Geological Survey stream gauge numbers 14181410 and 14181500. Gauge height (feet) is the only metric provided at gauge 14181410. Total dissolved gas (TDG) saturation data was received from gauge 14181500, 1 rkm downstream of the trap. During the reporting period, daily maximum values for instantaneous gauge height ranged from 1,111.7 to 1,114.3 feet (mean: 1,113.3 feet) during the reporting period. Figure 12 shows instantaneous gauge height.

Total dissolved gas saturation ranged from 101 to 118% during the reporting period (mean: 114.04%). Figure 113 shows total dissolved gas saturation.

Stream temperatures were recorded every 2 hours for the length of the report period at the RST (Figure 114). Temperature probes operated normally throughout this reporting period.

Flows through the Powerhouse and Spill during the reporting period averaged 3,322.3 and 1,323.1 cubic feet per second (cfs), respectively (Figure 15). Catch per unit of effort (CPUE) data are summarized in Table 7. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 7. Summary of salmonid CPUE, Big Cliff Dam.

Description	Chinook (8 ft)	Winter Steelhead (8 ft)
Catch	26	5
Effort (hrs)	384.9	384.9
CPUE (fish/hr)	0.067	0.013

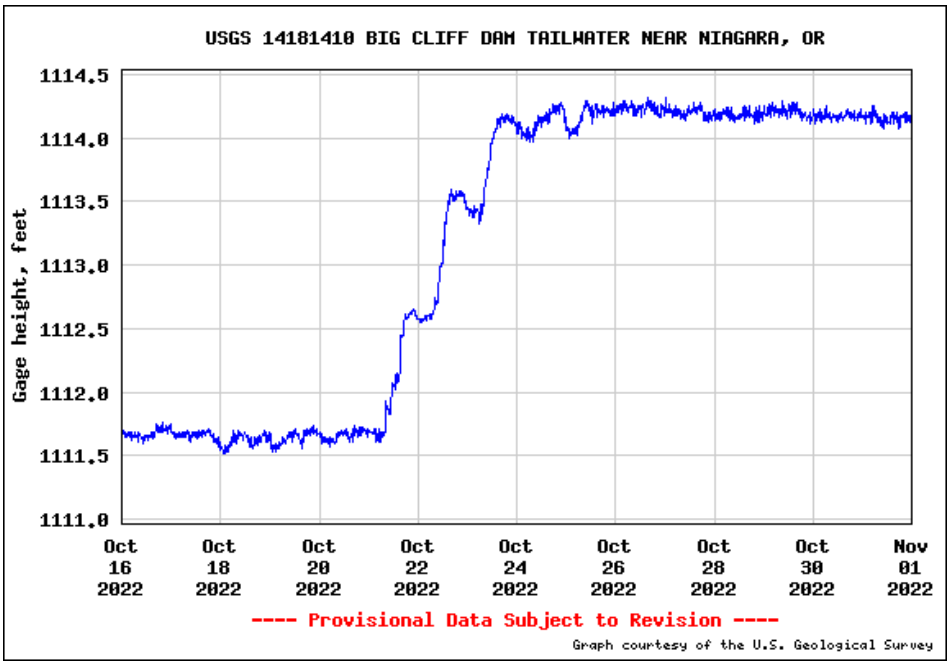


Figure 12. Gauge height (ft); below Big Cliff Dam

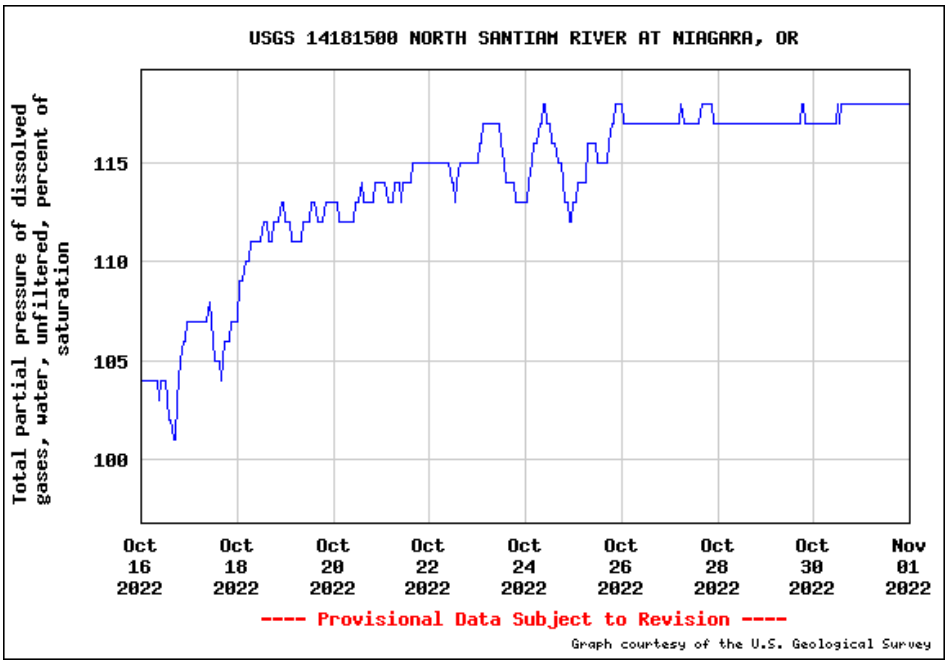


Figure 13. Total Dissolved Gas Saturation (%); below Big Cliff Dam

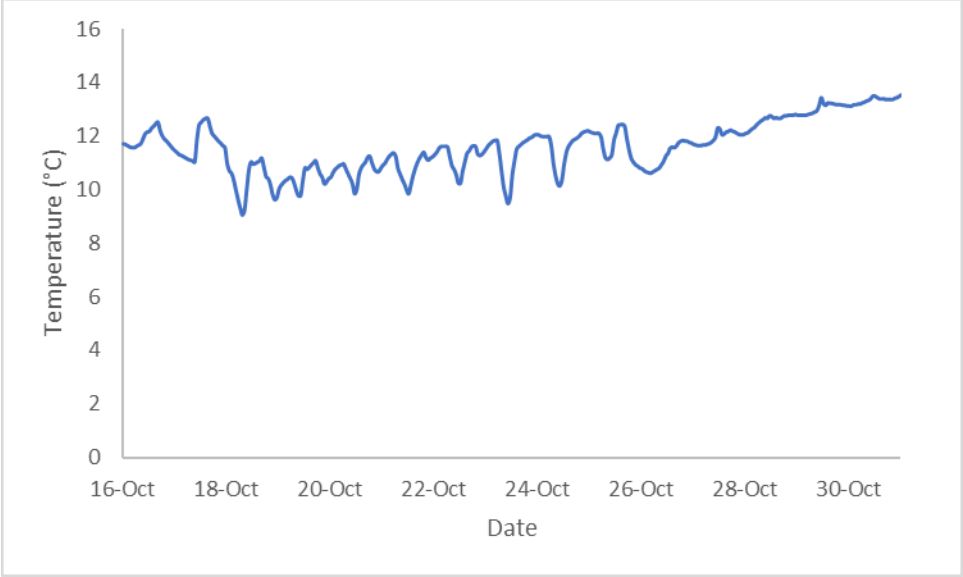


Figure 14. Temperature at RST (Big Cliff Dam)

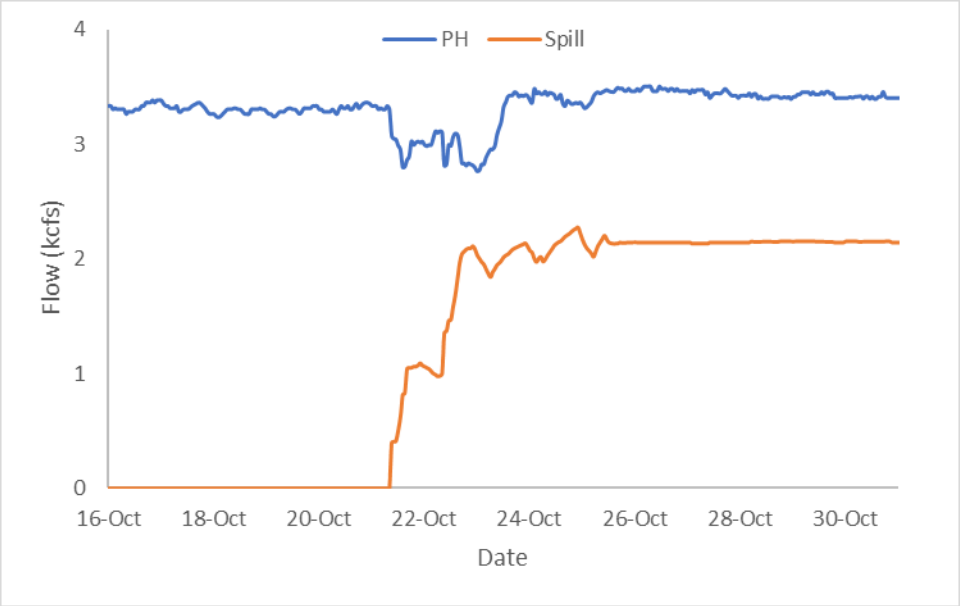


Figure 15. Hourly Flows PWR vs. Spill (Big Cliff Dam)

South Fork Santiam– Foster Dam Head of Reservoir

Target Species

This reporting period began on October 16th and ended on October 31st. There were 7 Chinook salmon (CHS) and 74 Winter Steelhead (STW) captured during the 15-day sampling period. Sampling duration was 100% for the RST. Table 8 provides life stage, length, and weight data for all Chinook Salmon and Winter Steelhead that have been caught at the Foster Dam Head of Reservoir- South Santiam site to-date and for the reporting period. Figure 16 shows the daily capture numbers for Chinook and Winter Steelhead and Figure 17 shows length frequency data to-date for both species.

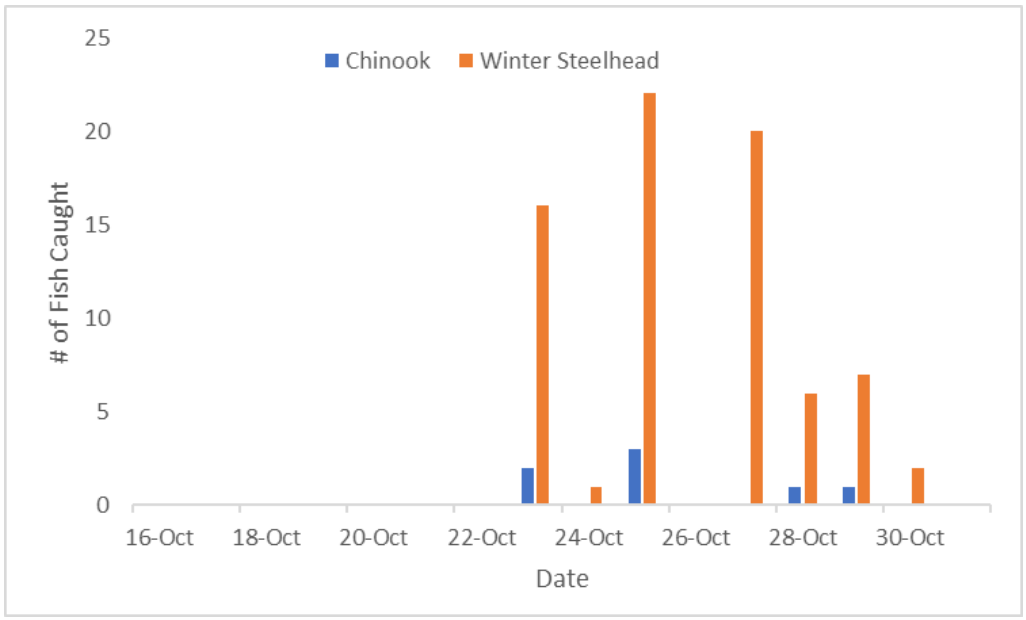


Figure 16. Chinook and Winter Steelhead Captured Per Day 10/16/2022 to 10/31/2022 (Foster Dam Head of Reservoir- South Santiam)

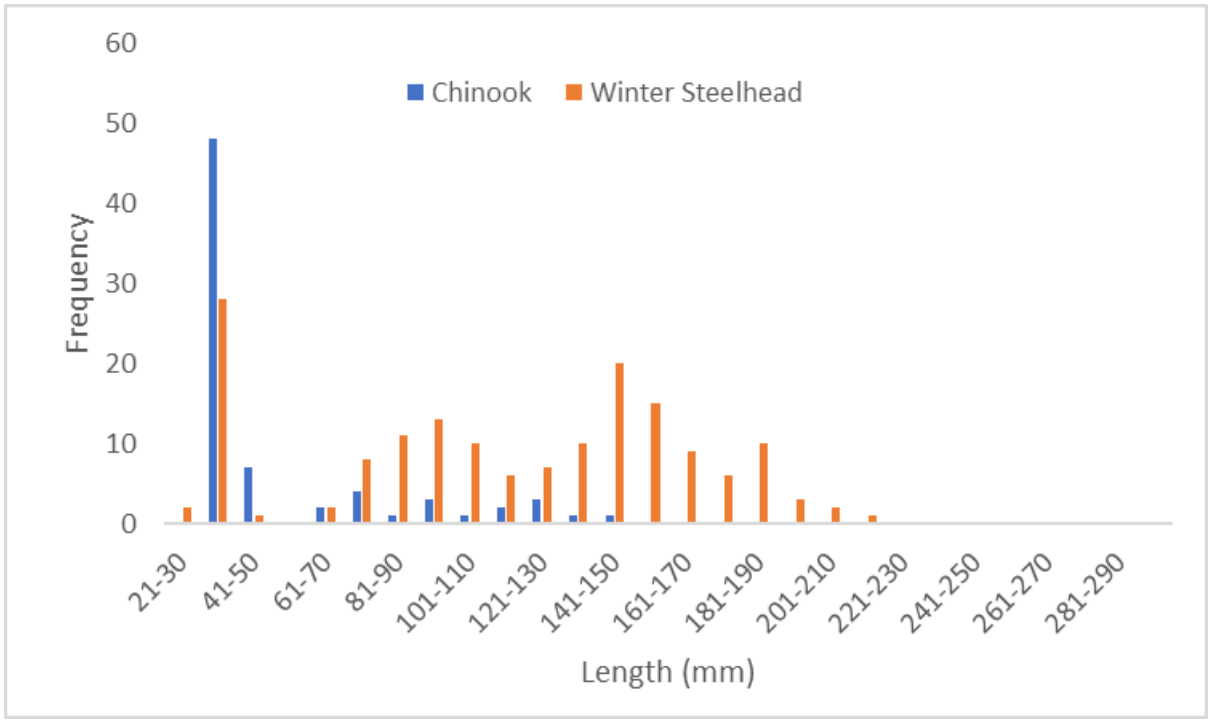


Figure 17. Length Frequency of Juvenile Chinook and Winter Steelhead Sampled Season To-Date (Foster Dam Head of Reservoir- South Santiam)

Trapping Efficiency

A total of 840 juvenile hatchery Chinook (sub-yearlings) were bismarck brown dyed, adipose clipped and released on 10/25/2022 at Cascadia Park above the Foster Dam Head of Reservoir- South Santiam trap. 111 fish have been recaptured to date.

Foster Dam Head of Reservoir- South Santiam	Release #	Recapture #	Capture Efficiency
5 ft Trap	840	111	13.2% (111/840)

Run of River Trapping Efficiency

Run of river fish captured in the RST have been caudal clipped and released upstream to perform run of river trapping efficiency trials. Only fish large enough to be safely caudal clipped have been used for run of river efficiency trials. To date, 22 Chinook and 134 Winter Steelhead have been caudal clipped and released upstream for the purpose of conducting run of river trapping efficiency trials.

Foster Dam Head of Reservoir- South Santiam	Release #	Recapture #
Chinook	7	0
Winter Steelhead	74	10

To-Date (Since Dec. 01, 2021)											
Site	Trap	Species	Life stage	Collected	Length (mm)*			Weight (g)*			
					Min	Max	Mean	Min	Max	Mean	
Foster Dam Head of Reservoir- South Santiam	5 ft	CHS	Fry	55	32	49	35.9	N/A	N/A	N/A	
		CHS	Parr	10	70	127	86.5	3.1	24.7	8.2	
		CHS	Smolt	8	95	146	120.0	8.6	34.9	19.6	
		STW	Fry	31	28	46	34.6	N/A	N/A	N/A	
		STW	Parr	70	65	183	109.7	2.4	63.6	17.0	
		STW	Smolt	63	100	213	160.5	11.2	75.3	41.9	

October 16-31, 2022											
Site	Trap	Species	Life stage	Collected	Length (mm)*			Weight (g)*			
					Min	Max	Mean	Min	Max	Mean	
Foster Dam Head of Reservoir- South Santiam	5 ft	CHS	Fry	0	N/A	N/A	N/A	N/A	N/A	N/A	
		CHS	Parr	2	87	98	92.5	7.2	10.7	9.0	
		CHS	Smolt	5	95	146	115.0	8.6	34.9	17.2	
		STW	Fry	0	N/A	N/A	N/A	N/A	N/A	N/A	
		STW	Parr	53	70	156	107.4	3.9	40	15.7	
		STW	Smolt	21	100	178	144.0	12.1	57.4	30.9	

Injuries and Copepod Infection

Partial descaling <20% was observed on 5 of the 7 Spring Chinook captured (71.4%). Body injuries were present on 2 Spring Chinook (28.6%) and 0 displayed eye injury (0.0%). No copepods were present on any of the Spring Chinook captured (0.0%). There were no mortalities.

Partial descaling <20% was observed on 19 of the 74 Winter Steelhead captured (25.7%). Body injuries were present on 38 Winter Steelhead (51.4%) and 0 displayed eye injury (0.0%). No copepods were present on any of the Winter Steelhead captured (0.0%). There were no mortalities. A summary of injuries observed during the reporting period are provided in Table 9, and for the duration of the season are provided in Appendix A.

Table 9. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon and Winter Steelhead for Sampling Period. (Foster Dam Head of Reservoir- South Santiam).

Site	Species	# Fish Collected	# DSC* <20%	# DSC* >20%	# with Body Injuries	# with Eye Injuries	# with COP* In B.C.	# with COP* on Fins	Mortalities
Foster Dam Head of Reservoir- South Santiam	Chinook	7	5	0	2	0	0	0	0
	Winter Steelhead	74	19	0	38	0	0	0	0

Collected DNA and Scale Samples

For the reporting period, scales and DNA were collected from 7 Spring Chinook and 74 Winter Steelhead. The other targets captured did not meet length criteria for DNA sampling.

Non-Target Species

320 non-target species fish were captured during the reporting period; the data is summarized below in Table 10.

Table 10. Summary of Non-target Species (Foster Dam Head of Reservoir).

Species	5 ft Capture	5 ft Mortality	Season Total	Season Total Mortality
Dace	316	10	358	11
Sculpin	0	0	2	1
Northern Pikeminnow	2	0	2	0
Largescale Sucker	2	1	5	1
Cutthroat	0	0	28	0
Unknown	0	0	4	0
Totals	**320**	**11**	**399**	**13**

Stream Statistics

Basic stream statistics at the Foster Dam Head of Reservoir- South Santiam site were calculated from data downloaded from the U.S. Geological Survey stream gauge number 14185000. Discharge (cfs) and Gauge height (feet) are available at this gauge. During the reporting period, daily maximum values for instantaneous discharge ranged from 35.6 cfs to 367.0 cfs (mean: 156.2 cfs). Figure 18 shows instantaneous discharge.

Stream temperatures were recorded every 2 hours for the length of the report period for the RST (Figure 19). Temperature probes for the trap operated normally throughout this reporting period.

Catch per unit of effort (CPUE) data are summarized in Table 11. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 11. Summary of salmonid CPUE, Foster Dam Head of Reservoir- South Santiam.

	Chinook	Winter Steelhead
Description	**(5 ft)**	
Catch	7	74
Effort (hrs)	389.3	389.3
CPUE (fish/hr)	0.018	0.190

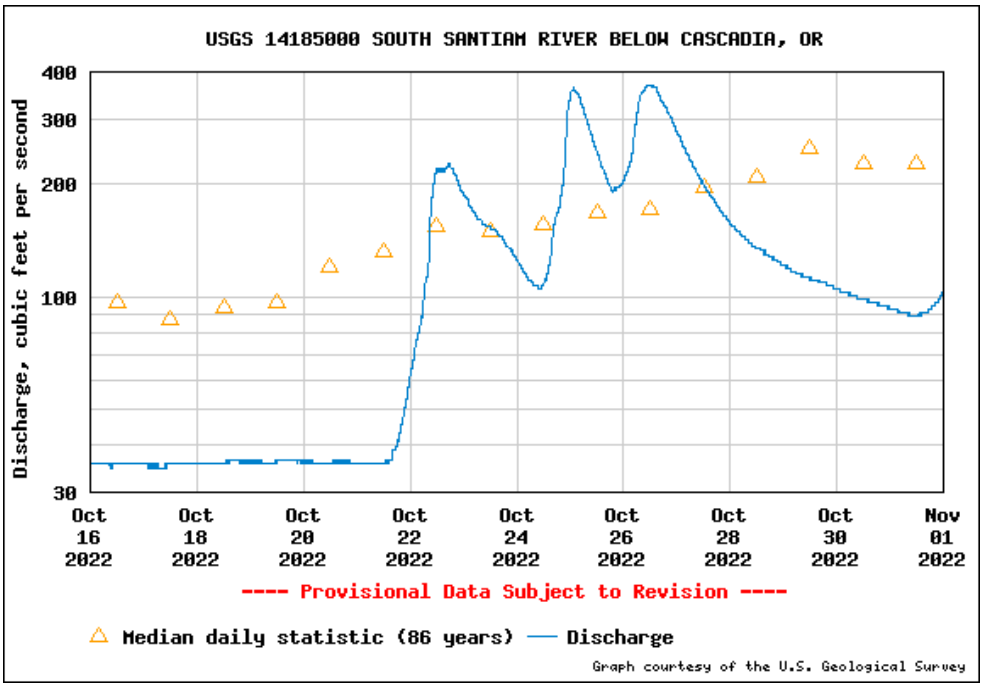


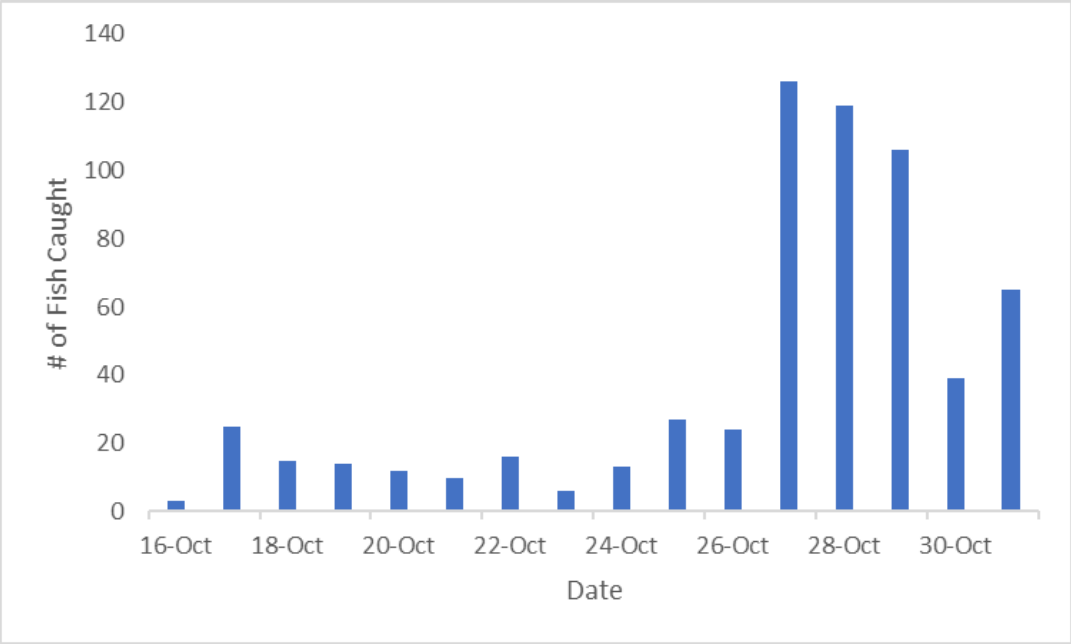
Figure 18. Discharge (cfs); Foster Dam Head of Reservoir – S. Santiam)

Figure 19. Temperature at RST (Foster Dam Head of Reservoir – S. Santiam)

South Fork McKenzie – Cougar Dam

Target Species

This reporting period began on October 16th and ended on October 31st. There were a total of 620 Chinook Salmon (CHS) captured during the 15-day sampling period. The flow in the powerhouse was lowered on 10/8/2022 in order to prioritize flow from the regulating outlet. The powerhouse traps were raised on 10/8/2022 in anticipation of this event to avoid damage to the cones. The flow is too low to continue fishing the powerhouse channel currently. Sampling duration was 100% for the RO RST and 0.0% for the Powerhouse RSTs. Table 12 provides life stage, length, and weight data for all Chinook salmon that have been caught at the Cougar Dam site to-date and for the reporting period. Figure 20 shows the daily capture numbers for chinook and Figure 21 shows length frequency data to-date.



*Recaptured fish for trapping efficiency trials not included.

Figure 20. Chinook Captured Per Day 10/16/2022 to 10/31/2022 (Cougar Dam)

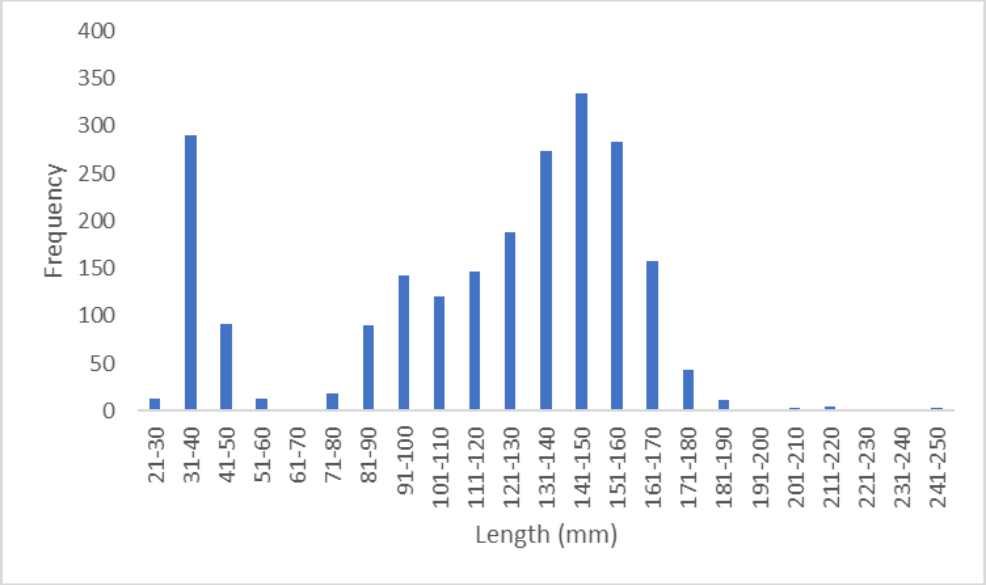


*Figure does not include fish without heads or fish used for trapping efficiency trials.

Figure 21. Length Frequency of Juvenile Chinook Sampled Season To-Date (Cougar Dam)

Trapping Efficiency

A total of 442 juvenile hatchery Chinook (sub-yearlings) were bismarck brown dyed, adipose clipped, left ventral clipped and released on 10/14/2022. 48 fish were recaptured for an efficiency of 10.9%. Trapping efficiency fish displayed injuries, primarily descaling, fin damage, and bloating. Hatchery staff noted that fish may have PKD at time of pickup.

Cougar Dam	Release #	Recapture #	Capture Efficiency
RO Route	442	48	10.9% (48/442)

Run of River Trapping Efficiency

Run of river fish were captured, caudal clipped and released for the purpose of conducting run of river trapping efficiency trials at Cougar Dam. Numbers of fish released and recaptured by route for the reporting period are listed below.

Cougar Dam	Release #	Recapture #
PH	0	0
RO	464	22

Table 12. Descriptive Statistics of Target Species Captured at Cougar Dam Season To-Date

To-Date (Since Dec. 01, 2021)										
Site	Route	Species	Life stage	Collected	Length (mm)*			Weight (g)*		
					Min	Max	Mean	Min	Max	Mean
Cougar Dam	RO	CHS	Fry	21	34	48	40.8	N/A	N/A	N/A
		CHS	Parr	160	56	164	108.6	1.2	41.1	14.9
		CHS	Smolt	870	92	247	146.3	4.7	142.4	34.9
Cougar Dam	PWR	CHS	Fry	382	25	55	38.0	1.0	1.8	1.2
		CHS	Parr	266	54	165	99.2	1.6	41.0	10.7
		CHS	Smolt	538	76	223	138.9	4.2	113.5	30.0

*Fish that were missing heads are not included in length and weight calculations.

October 16-31, 2022										
Site	Route	Species	Life stage	Collected	Length (mm)*			Weight (g)*		
					Min	Max	Mean	Min	Max	Mean
Cougar Dam	RO	CHS	Fry	0	N/A	N/A	N/A	N/A	N/A	N/A
		CHS	Parr	25	84	135	108.9	6.3	24.3	15.3
		CHS	Smolt	595	97	247	147.7	10.0	142.4	36.3
Cougar Dam	PWR	CHS	Fry	0	N/A	N/A	N/A	N/A	N/A	N/A
		CHS	Parr	0	N/A	N/A	N/A	N/A	N/A	N/A
		CHS	Smolt	0	N/A	N/A	N/A	N/A	N/A	N/A

*Fish that were missing heads are not included in length and weight calculations.

24-Hour Post Collection Holding Trial

A total of 180 Chinook captured in the RSTs, 0 fish from the PWR RST and 180 from the RO RST, were held for ~24 hours in holding tanks and then evaluated for survival rates. In total, 36 of the fish (20.0%) held during this period died during holding. 0 of the 0 PWR RST captured fish (0.0%) died during holding and 36 of the 180 RO RST captured fish (20.0%) died during holding.

Injuries and Copepod Infection

Partial descaling <20% was observed on 375 of the 620 Chinook collected at the RO RST (60.5%). Descaling >20% was observed on 219 of the Chinook (35.3%). There were 620 fish with bodily injuries (100.0%) and 100 had eye injuries (16.1%). 590 fish had copepods present in the branchial cavity (95.2%) and 440 had copepods present on fins (71.0%). 168 fish displayed Gas Bubble Disease (111 level 1, 42 level 2, 12 level 3, and 3 level 4) (27.1%). There were 113 chinook mortalities collected in the RO RST (18.2%).

Partial descaling <20% was observed on 0 of the 0 Chinook collected at the PWR RST (0.0%). Descaling >20% was observed on 0 of the Chinook (0.0%). There were 0 fish with bodily injuries (0.0%) and 0 had eye injuries (0.0%). 0 fish had copepods present in the branchial cavity (0.0%) and 0 had copepods present on fins (0.0%). 0 fish displayed Gas Bubble Disease (0.0%). There were 0 chinook mortalities collected in the PWR RST (0.0%). Data is summarized below in Table 13. A summary of injuries observed during the reporting period, and for the duration of the season are provided in Appendix A.

Table 13. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon for Sampling Period. (Cougar Dam).

Site	Route	# CHS Collected	# DSC* <20%	# DSC* >20%	# with Body Injuries	# with Eye Injuries	# with COP* In B.C.	# with COP* on Fins	Mortalities
Cougar	RO	620	375	219	620	100	590	440	113
Cougar	PWR	0	0	0	0	0	0	0	0

*DSC=Descaled, COP=Copepods, B.C.=Branchial Cavity

Collected DNA and Scale Samples

For the reporting period, scales and DNA were collected from 613 Spring Chinook. The other targets captured did not meet length criteria for DNA sampling or were too damaged to remove scales.

Non-Target Species

A total of 17 non-target species fish were captured during the reporting period; the data is summarized below in Table 14. Adipose clipped Chinook captured were from previous TE releases. They are not ODFW PIT tagged fish.

Table 14. Summary of Non-target Species (Cougar Dam).

Species	RO Capture	RO Mortality	PWR Capture	PWR Mortality	Season Total Capture	Season Total Mortality
Brook Lamprey	0	0	0	0	3	0
Bluegill	0	0	0	0	1	0
Bull Trout	0	0	0	0	1	0
Chinook (AD clipped)	14	0	0	0	23	1
Chinook (Adult)	0	0	0	0	1	0
Cutthroat	0	0	0	0	71	3
Dace	0	0	0	0	2502	8
Largescale Sucker	0	0	0	0	55	0
Mountain Whitefish	2	0	0	0	50	2
Northern Pikeminnow	0	0	0	0	2	0
O. mykiss	0	0	0	0	307	3
Sculpin	0	0	0	0	207	4
Smallmouth Bass	0	0	0	0	2	0
Spotted Bass	1	0	0	0	3	0
Unknown	0	0	0	0	21	2
Totals	**17**	**0**	**0**	**0**	**3293**	**23**

Stream Statistics

Basic stream statistics at the Cougar Dam site were calculated from data downloaded from U.S. Geological Survey stream gauge numbers 14159410 and 14181500. Gauge height (feet) is the only metric provided at gauge 14159410. Total dissolved gas saturation data was received from gauge 14181500, 500 meters downstream of the trap. During the reporting period, daily maximum values for instantaneous gauge height ranged from 1,251.8 to 1,252.8 feet (mean: 1,252.1 feet). Figure 22 shows instantaneous gauge height.

Total dissolved gas saturation ranged from 108 to 114% (mean: 109.9%). Figure 23 shows total dissolved gas saturation.

Stream temperatures were recorded every 2 hours for the length of the report period for the RO and PWR RST's (Figure 24 and 25 respectively). Temperature probes for the RO and PWR RST operated normally throughout this reporting period.

Flows through the Powerhouse and RO during the reporting period averaged 0 and 998.8 cubic feet per second (cfs) respectively (Figure 26). Catch per unit of effort (CPUE) data are summarized in Table 15. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 15. Summary of salmonid CPUE, Cougar Dam.

	Chinook	
Description	RO (5ft)	PWR (8ft)
Catch	620	0
Effort (hrs)	381.7	0
CPUE (fish/hr)	1.624	0

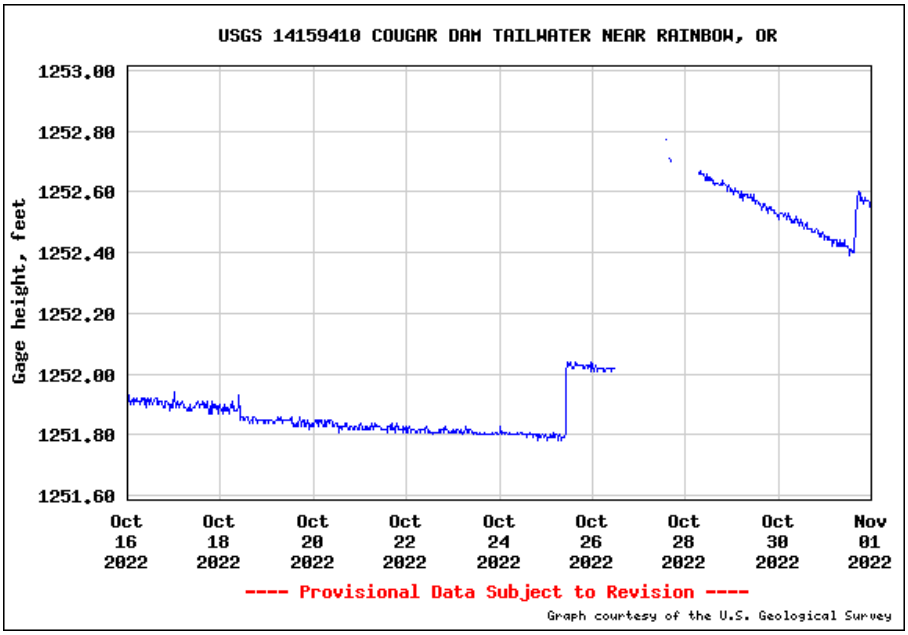


Figure 22. Gauge Height (feet); below Cougar Dam, South Fork McKenzie River

Note: Instantaneous gage data was not measured/recorded between Oct. 26 at 12:00 and Oct. 28 at 07:00.

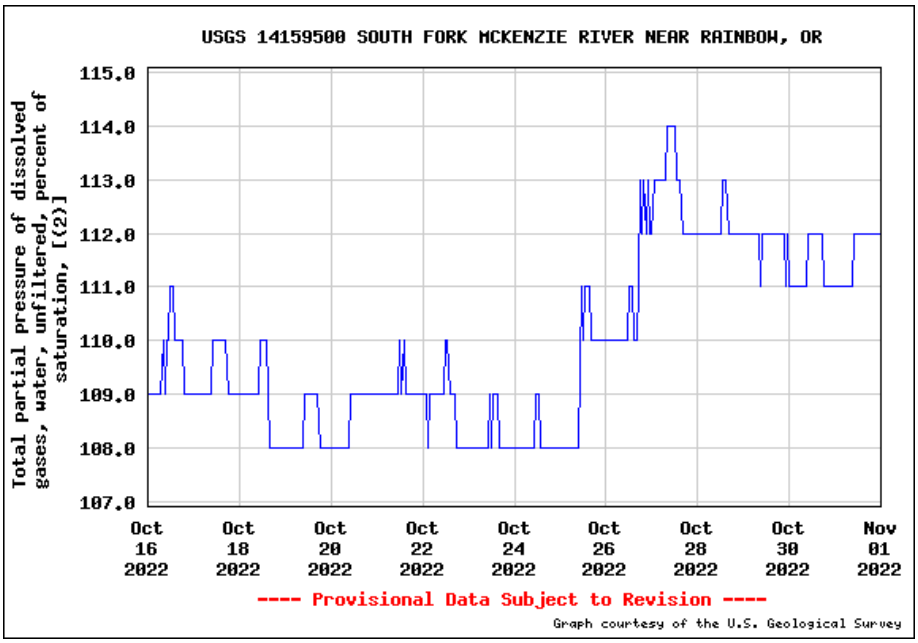


Figure 23. Total Dissolved Gas Saturation (%); below Cougar Dam, South Fork McKenzie River

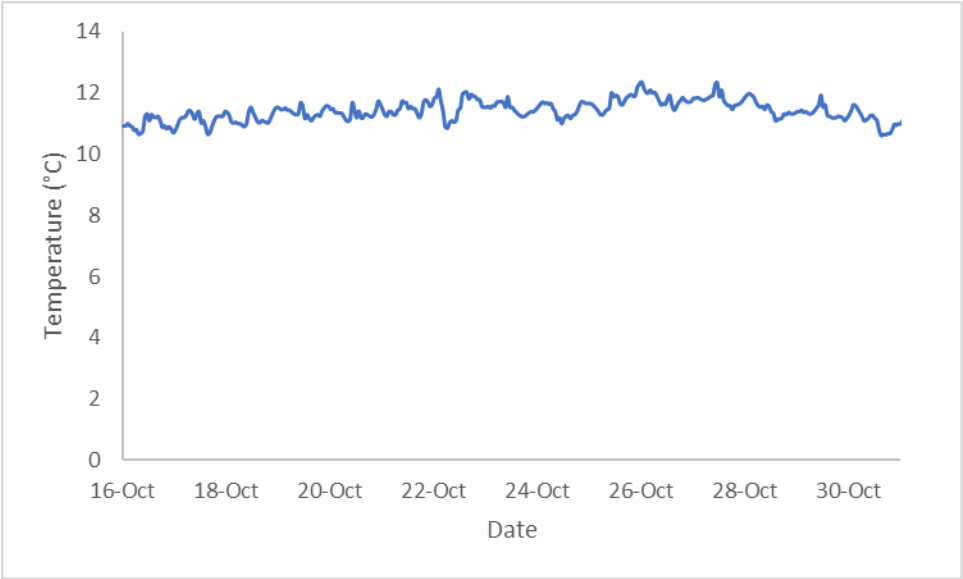


Figure 24. Temperature at RO RST (Cougar Dam)

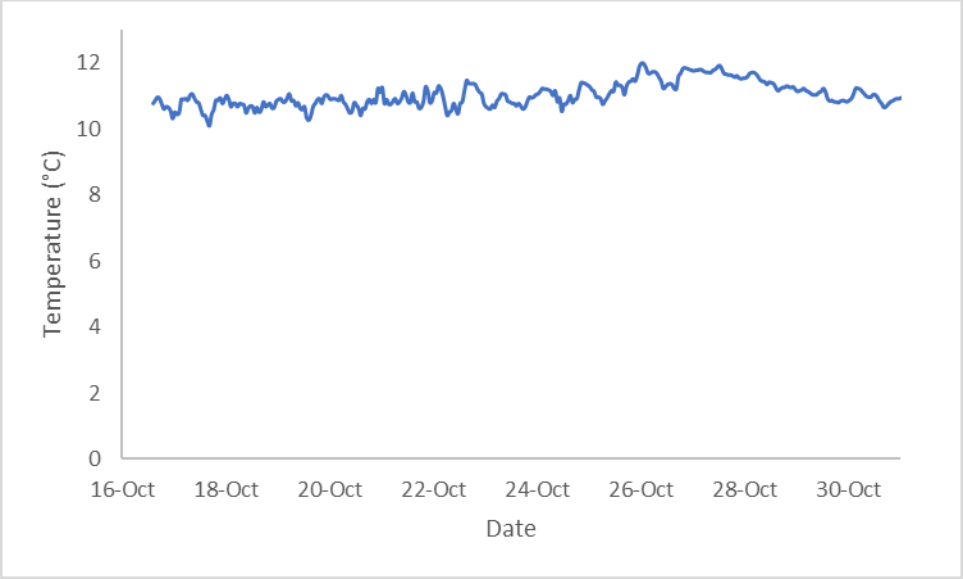


Figure 25. Temperature at PWR RST (Cougar Dam)

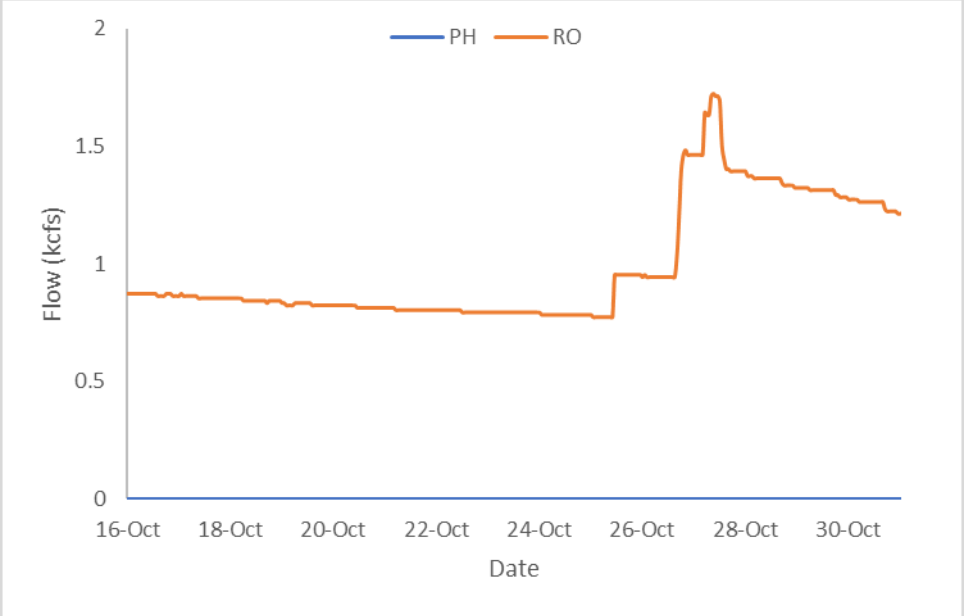


Figure 26. Hourly Flows PWR vs. RO (Cougar Dam)

South Fork of the McKenzie–Cougar Dam Head of Reservoir

Target Species

The reporting period began October 16th and ended on October 31st. There were 43 Chinook salmon captured during the 15-day sampling period (Figure 27). The trap was operated 100% of the reporting period. Table 16 provides life stage, length, and weight data for all Chinook salmon that have been caught at the site to-date and Figure 28 shows length frequency data to-date.

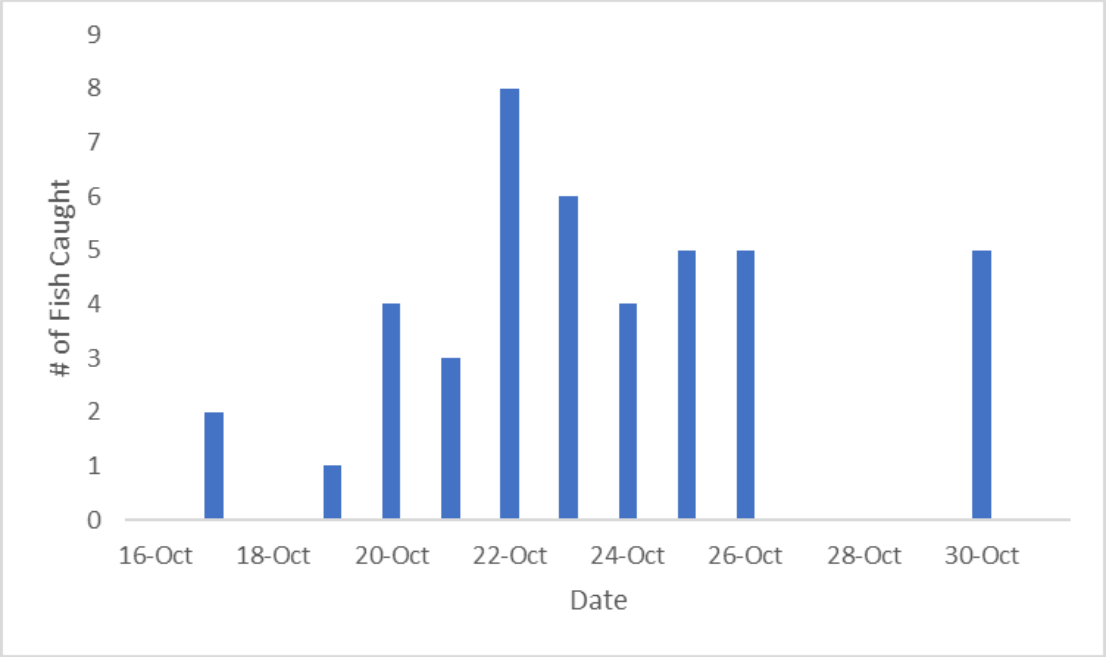


Figure 27. Chinook Captured Per Day 10/16/2022 to 10/31/2022 (Cougar Dam Head of Reservoir)

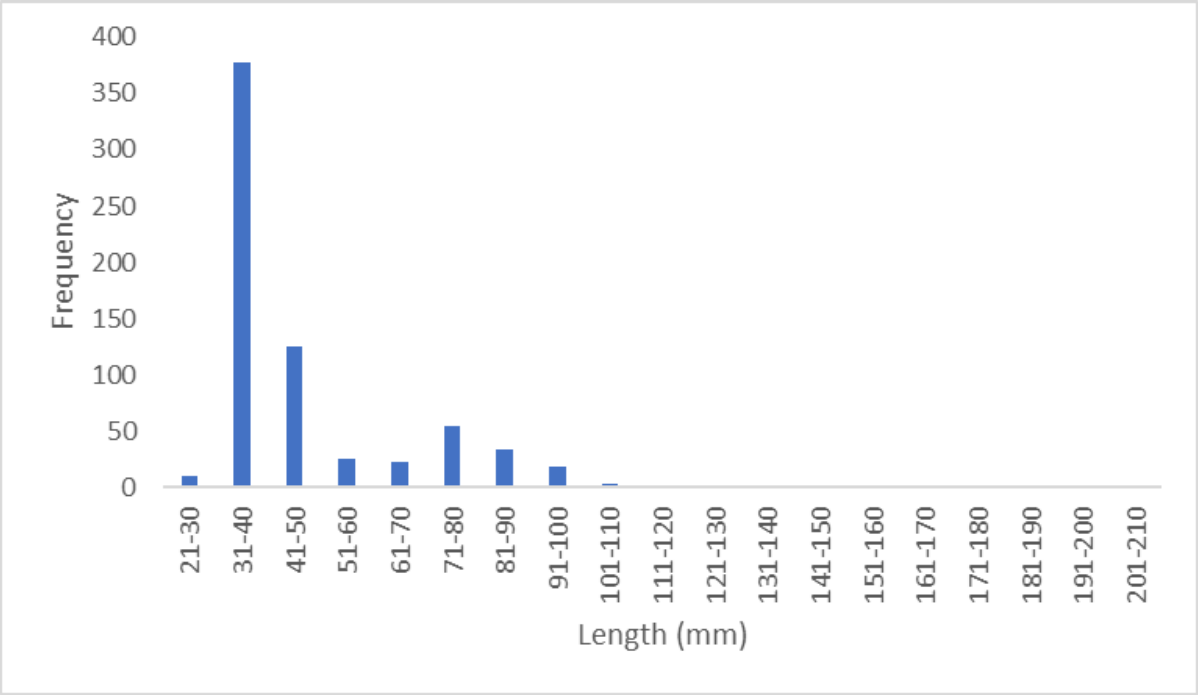


Figure 28. Length Frequency of Juvenile Chinook Sampled Season To-Date (Cougar Dam Head of Reservoir)

Table 16. Descriptive Statistics of Target Species Captured at Cougar Dam Head of Reservoir, Season To-Date and for the Reporting Period

To-Date (Since March 07, 2022)										
Site	Route	Species	Life stage	Collected	Length (mm)*			Weight (g)*		
					Min	Max	Mean	Min	Max	Mean
Cougar Dam Head of Reservoir	5 ft	CHS	Smolt	4	70	94	82	3.3	9.4	6.2
		CHS	Parr	143	43	150	78.4	1.0	11.2	5.5
		CHS	Fry	528	27	63	38.6	0.6	2.8	1.4

October 16-31, 2022										
Site	Route	Species	Life stage	Collected	Length (mm)*			Weight (g)*		
					Min	Max	Mean	Min	Max	Mean
Cougar Dam Head of Reservoir	5 ft	CHS	Smolt	0	N/A	N/A	N/A	N/A	N/A	N/A
		CHS	Parr	43	65	98	81.8	2.8	11.2	6.3
		CHS	Fry	0	N/A	N/A	N/A	N/A	N/A	N/A

***Most fry are too small to collect accurate weights and thus some metrics are not available for them.**

Trapping Efficiency

A total of 608 juvenile hatchery Chinook (smolt) were adipose clipped, PIT tagged, and released on 10/5/2022 upstream of the Cougar Head of Reservoir trap site. A total of 47 fish were recaptured in the 5

ft trap. Trapping efficiency was 7.7%. Of the 47 fish recaptured, 38 displayed minor descaling and 41 had fin damage.

Cougar Dam Head of Reservoir	Release #	Recapture #	Capture Efficiency
5ft trap	608	47	7.7% (47/608)

Injuries and Copepod Infection

43 Chinook were captured for the reporting period. Of the fish captured, partial descaling <20% was observed on 24 fish (55.8%) and descaling >20% was observed on 1 fish (2.3%). 0 had copepods in the branchial cavity (0.0%), 3 had copepods on fins (7.0%), and 36 had bodily injury (83.7%). There was 1 mortality for this reporting period (2.3%). Injury data for the reporting period is summarized in Table 17. To date injury data can be found in Appendix A.

Table 17. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon for Sampling Period. (Cougar Dam Head of Reservoir)

Site	# CHS Collected	# DSC* <20%	# DSC* >20%	# with Body Injuries	# with Eye Injuries	# with COP* In B.C.	# with COP* on Fins	Mortalities
Cougar Dam Head of Reservoir	43	24	1	36	0	0	3	1

*DSC=Descaled, COP=Copepods, B.C.=Branchial Cavity

Collected DNA and Scale Samples

Scales and DNA were collected from 43 of the Chinook captured. The rest of the captured fish were under the minimum fork length threshold and samples were not collected (less than 45 mm fork length for DNA and less than 50 mm fork length for scales).

VIE Marking

Visual Implant Elastomer (VIE) trials commenced at the Cougar Dam Head of Reservoir site on 6/25/2022. VIE tag color and locations are changed every reporting period to distinctly mark groups of fish by capture date. Since then, 32 Chinook have been VIE marked to the left of their dorsal fin with fluorescent elastomer. No fish with VIE marks have been detected at downstream RST sites to date.

Date Tagged	VIE Color	# Tagged	# Recaptured to Date
6/25/2022-7/15/2022	Yellow	30	0
9/15/2022-9/30/2022	Orange	1	0
10/1/2022-10/15/2022	Pink	1	0

Non-Target Species

A total of 19 non-target fish were captured at the Cougar Dam Head of Reservoir RST during the reporting period; the data is summarized below in Table 18.

Table 18. Summary of Non-target Species (Cougar Dam Head of Reservoir)

Species	5ft Capture	5ft Mortality	Season Total	Season Total Mortality
Bull Trout	6	0	8	0
Cutthroat Trout	0	0	41	1
Dace	0	0	8	0
Sculpin	0	0	5	1
O. mykiss	3	0	335	3
Mountain Whitefish	10	0	21	0
Unknown	0	0	9	0
Totals	**19**	**0**	**427**	**5**

Stream Statistics

Basic stream statistics at the site were calculated from data downloaded from the U.S. Geological Survey stream gauge number 14159200. During the reporting period, daily maximum values for instantaneous discharge ranged from 200.0 cfs to 364.0 cfs (mean: 257.3 cfs). Figure 29 shows instantaneous discharge.

Stream temperatures were recorded every two hours using a temperature probe at the Cougar Dam Head of Reservoir RST site during this reporting period. Temperature probes operated normally, and the data is shown below in Figure 30.

Catch per unit of effort (CPUE) data are summarized in Table 19. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 19. Summary of Chinook CPUE, Cougar Dam Head of Reservoir

	Chinook
Description	**5 ft**
Catch	43
Effort (hrs)	389.3
CPUE (fish/hr)	0.110

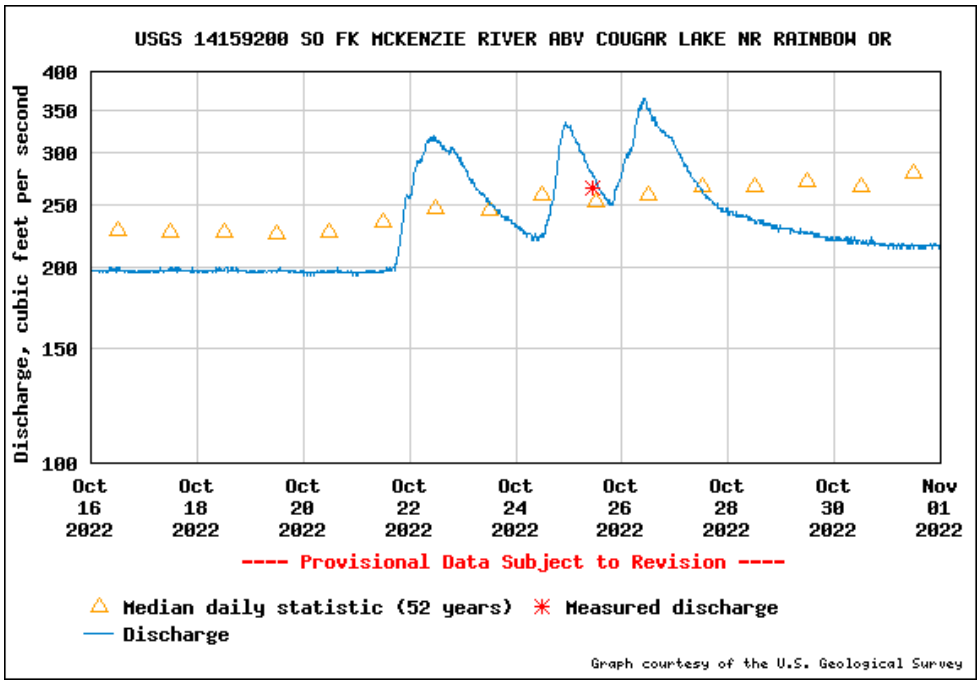


Figure 29. Discharge (cfs); South Fork McKenzie above Cougar Dam

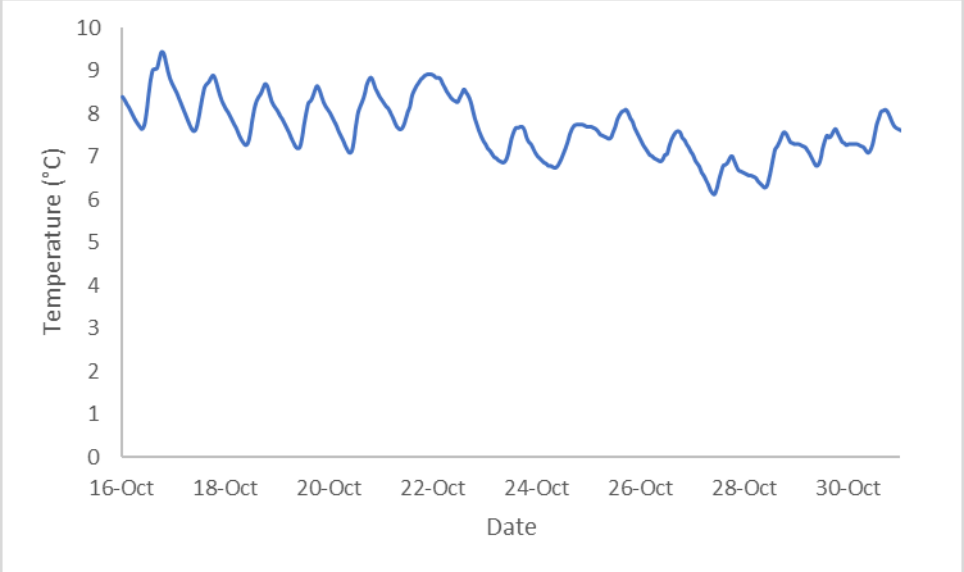


Figure 30. Temperature at RST (Cougar Dam Head of Reservoir)

Fall Creek Dam Tailrace

The Fall Creek Dam Tailrace was installed and secured on October 14th in preparation to start fishing on October 15th per Task 7.7. The trap did not begin sampling until October 16th due to the Cedar Creek fire and hazardous air quality.

The reporting period began October 16th and ended October 31st. 1 Chinook salmon was captured during the 15-day sampling period (Figure 20). The trap was operated 93.3% of the reporting period. Table 24 provides life stage, length, and weight data for all Chinook salmon that have been caught at the Fall Creek Dam Tailrace site to-date and Figure 21 shows length frequency data to-date.

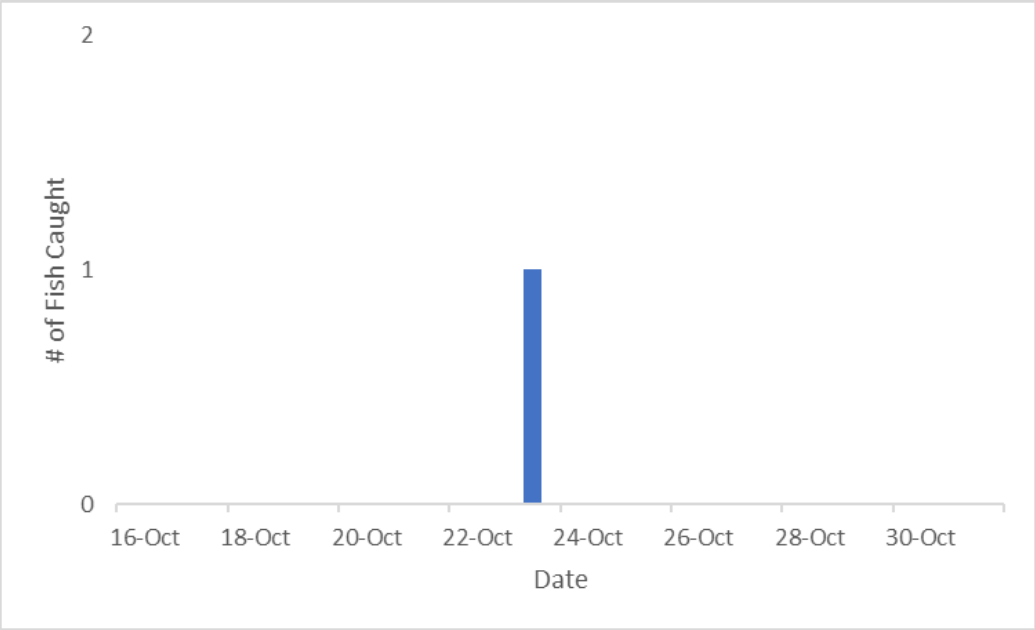


Figure 20. Chinook Captured Per Day 10/16/2022 to 10/31/2022 (Fall Creek Dam Tailrace)

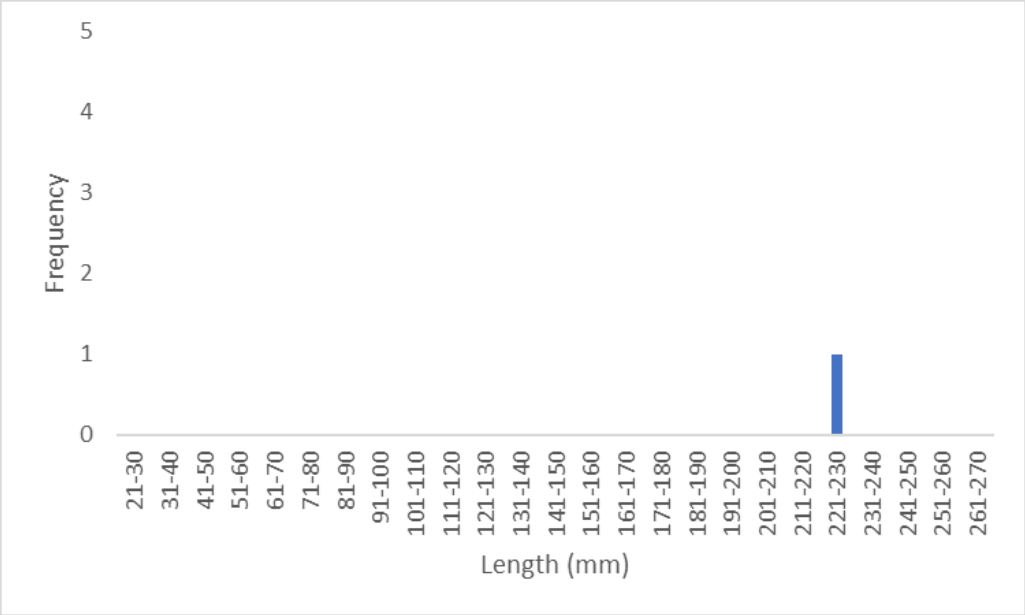


Figure 21. Length Frequency of Juvenile Chinook Sampled Season To-Date (Fall Creek Dam Tailrace)

Table 24. Descriptive Statistics of Target Species Captured at Fall Creek Dam Tailrace, Season To-Date and for the Reporting Period

To-Date											
Site	Route	Species	Life stage	Collected	Length (mm)*			Weight (g)*			
					Min	Max	Mean	Min	Max	Mean	
Fall Creek Dam	RO	CHS	Smolt	1	230	230	230.0	141.1	141.1	141.1	
		CHS	Parr	0	N/A	N/A	N/A	N/A	N/A	N/A	
October 16-31, 2022											
Site	Route	Species	Life stage	Collected	Length (mm)*			Weight (g)*			
					Min	Max	Mean	Min	Max	Mean	
Fall Creek Dam	RO	CHS	Smolt	1	230	230	230.0	141.1	141.1	141.1	
		CHS	Parr	0	N/A	N/A	N/A	N/A	N/A	N/A	

24-Hour Post Collection Holding Trial

1 Spring Chinook was captured during the current reporting period and held for 24 hours. 1 Chinook (100%) died in holding.

Injuries and Copepod Infection

1 Chinook was captured during this reporting period. 1 fish displayed descaling >20% (100.0%) and 1 fish had bodily injuries (100.0%). 1 fish had copepods in the branchial cavity (100.0%). There were no mortalities. The data is summarized in Table 25. To date injury data is listed in Appendix A.

Table 25. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon for Sampling Period. (Fall Creek)

Site	# CHS Collected	# DSC* <20%	# DSC* >20%	# with Body Injuries	# with Eye Injuries	# with COP* In B.C.	# with COP* on Fins	Mortalities
Fall Creek Dam	1	0	1	1	0	1	0	0

*DSC=Descaled, COP=Copepods, B.C.=Branchial Cavity

Collected DNA and Scale Samples

Scales and DNA were collected from 1 of the Chinook captured. The rest of the captured fish were under the minimum fork length threshold and samples were not collected (less than 45 mm fork length for DNA and less than 50 mm fork length for scales).

Trapping Efficiency

A total of 500 juvenile hatchery Chinook (sub yearlings) were adipose clipped, Bismarck Brown dyed, and released on 07/13/2022 upstream of the Fall Creek Dam Tailrace RO channel trap site. A total of 0 fish were recaptured in the 8 ft trap. Trapping efficiency was 0%.

Fall Creek Dam	Release #	Recapture #	Capture Efficiency
RO	500	0	0% (0/500)

Non-Target Species

2440 non-target fish were captured at the Fall Creek Dam Tailrace site during the reporting period; the data is summarized below in Table 26.

Table 26. Summary of Non-target Species (Fall Creek Dam Tailrace)

Species	8ft Capture	8ft Mortality	Season Total	Season Total Mortality
Bluegill	1	0	1	0
Lamprey	2	0	7	0
Bullhead	216	11	217	11
Bull Trout	0	0	0	0
Chinook (clipped)	2	0	2	0
Crappie	0	0	0	0
Cutthroat Trout	11	1	15	1
Dace	2031	88	2128	88
Mosquitofish	82	0	82	0
Peamouth	6	0	6	0
Northern Pikeminnow	2	0	2	0
Red-Sided Shiner	4	0	8	0
Sculpin	3	0	7	0
Spotted Bass	0	0	0	0
Largescale Sucker	44	6	48	6
Whitefish	0	0	0	0
O. mykiss	35	0	40	1
Unknown	1	1	1	1
Totals	**2440**	**113**	**2564**	**114**

Stream Statistics

Basic stream statistics at the site were calculated from data downloaded from U.S. Geological Survey stream gage numbers 14151000 and 1415000. Instantaneous discharge (cfs) data was collected from gage 1415100. Dissolved oxygen (mg/L) concentration data was received from gage 1415000, 1.2 rkms downstream of the trap. During the reporting period, daily maximum values for instantaneous discharge ranged from 135.0 cfs to 2,940.0 cfs (mean: 1,326.6 cfs). Figure 22 shows instantaneous discharge.

Dissolved oxygen concentrations ranged from 9.2 to 9.8 mg/L (mean: 9.5 mg/L) during the reporting period. No data was recorded from the stream gage after October 19 at 12:00. Figure 23 shows dissolved oxygen concentrations.

Stream temperatures were recorded using temperature probes for the Fall Creek Dam Tailrace RST site during this reporting period. The temperature probe operated normally during this period (Figure 24).

Flows In and Out of reservoir during the reporting period averaged 112.4 cfs and 1,142.7 cfs respectively (Figure 25).

Catch per unit of effort (CPUE) data are summarized in Table 27. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B

Table 27. Summary of Chinook CPUE, Fall Creek Dam Tailrace

Description	Chinook (8 ft)
Catch	1
Effort (hrs)	352.1
CPUE (fish/hr)	0.003

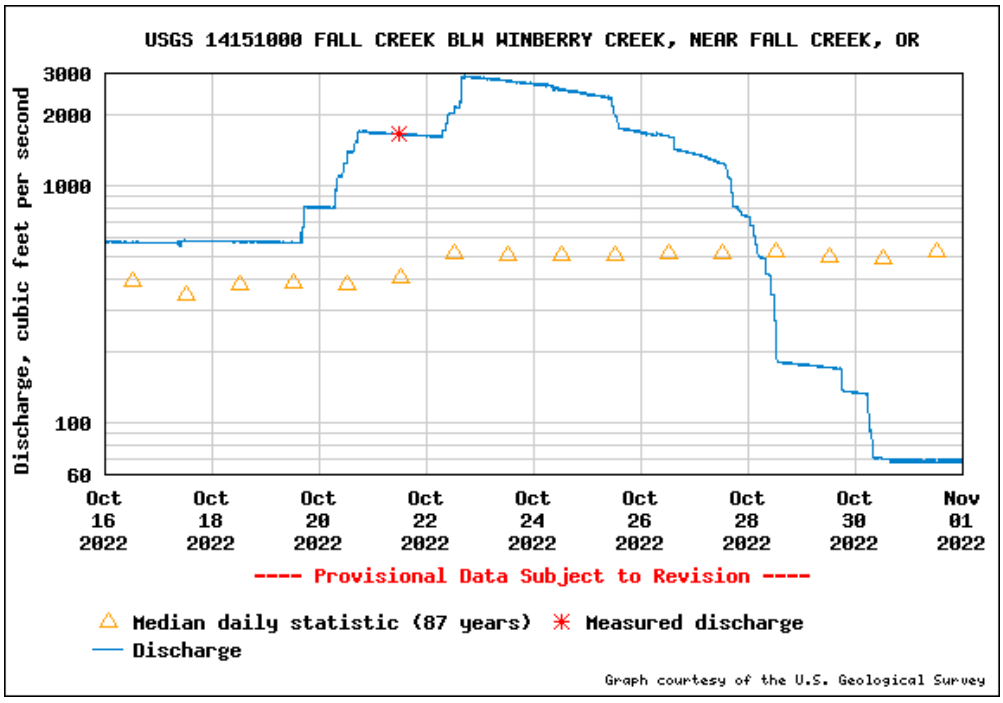
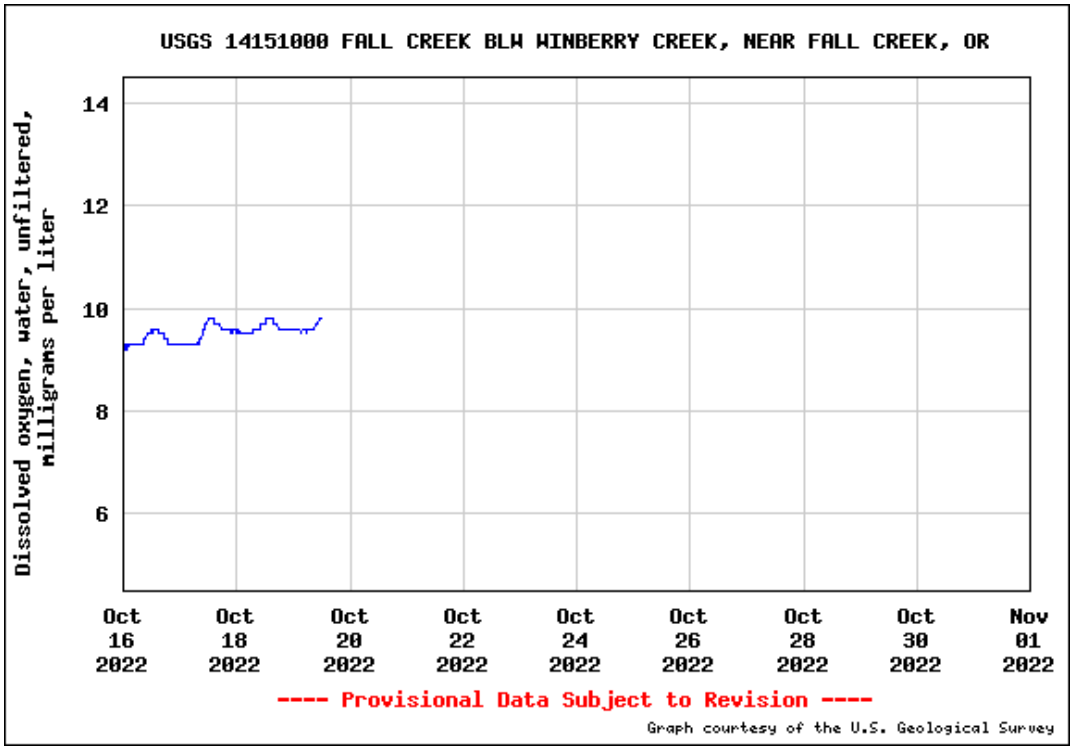


Figure 22. Discharge (cfs); Fall Creek Below Winberry Creek, Near Fall Creek, OR



Note: Dissolved oxygen data from USGS stream gage 14151000 was not measured/recorded after Oct. 19 at 12:00.

Figure 23. Dissolved Oxygen (mg/L); Fall Creek below Winberry Creek, Near Fall Creek, OR

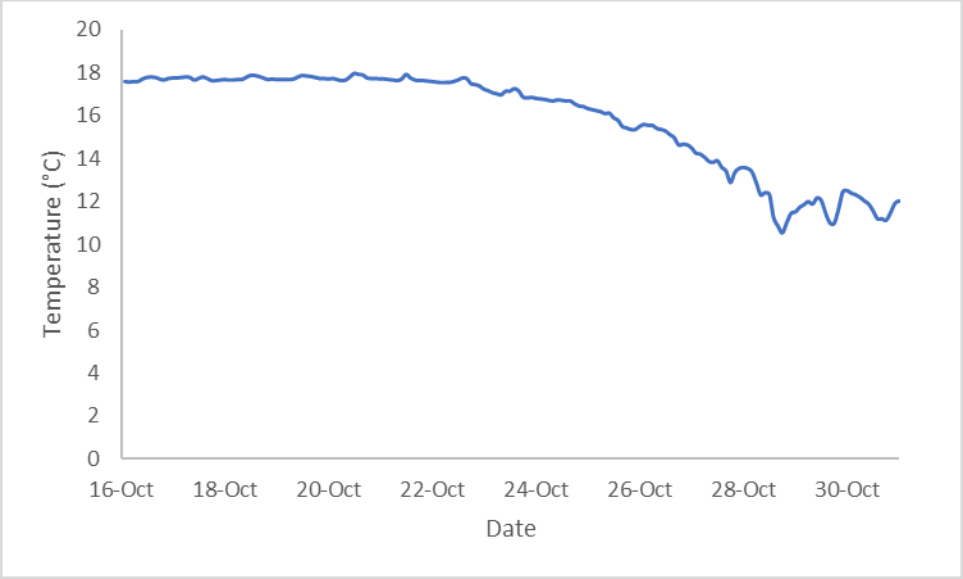


Figure 24. Temperature at RST (Fall Creek Dam Tailrace)

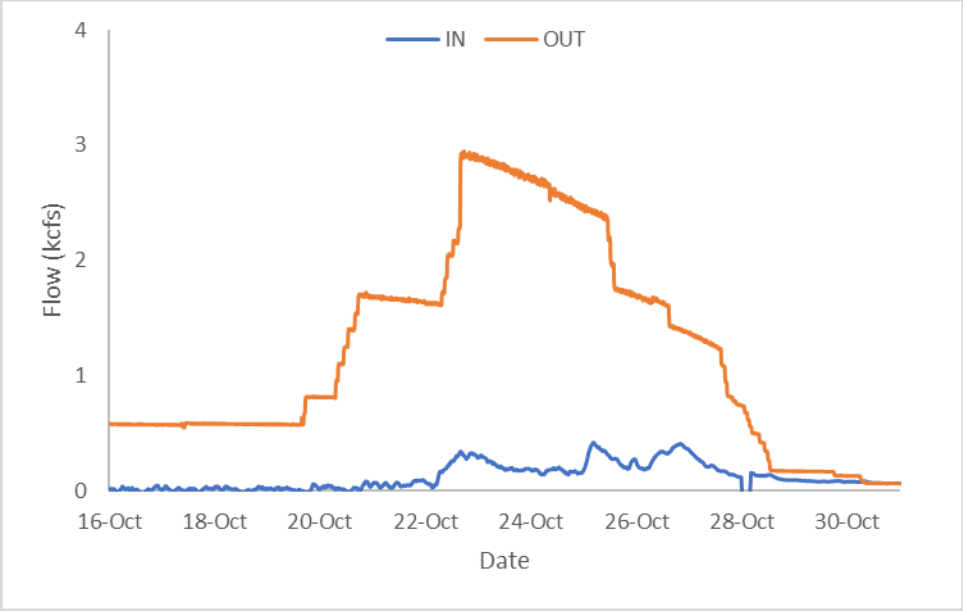
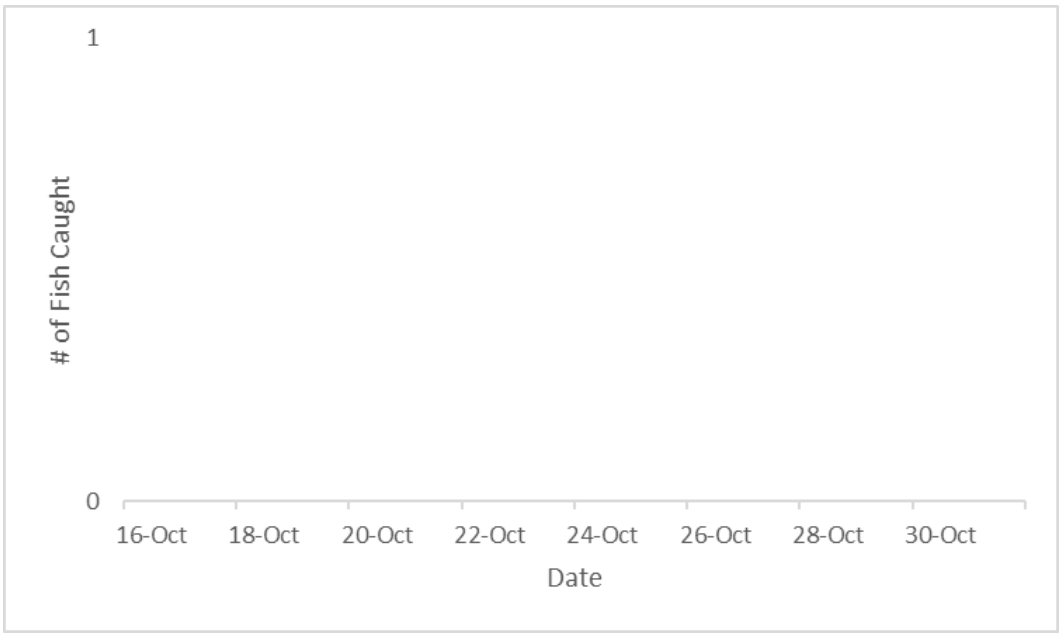


Figure 25. Hourly Flows PWR vs. RO (Fall Creek Tailrace)

Middle Fork Willamette– Dexter Dam

Target Species

This reporting period began on October 16th and ended on October 31st. There were 0 Chinook salmon (CHS) captured during the 15-day sampling period. The Dexter Dam trap was raised to a non-sampling position on October 10th due to hazardous air quality from the Cedar Creek Fire. The trap began sampling again on October 16th. Sampling duration was 93.3% for the 5 ft RST. Table 20 provides life stage, length, and weight data for all Chinook salmon that have been caught at the Dexter Dam site to-date and for the reporting period. Figure 31 shows the daily capture numbers for Chinook and Figure 32 shows length frequency data to-date.



*Recaptured fish for trapping efficiency trials not included.

Figure 31. Chinook Captured Per Day 10/16/2022 to 10/31/2022 (Dexter Dam)

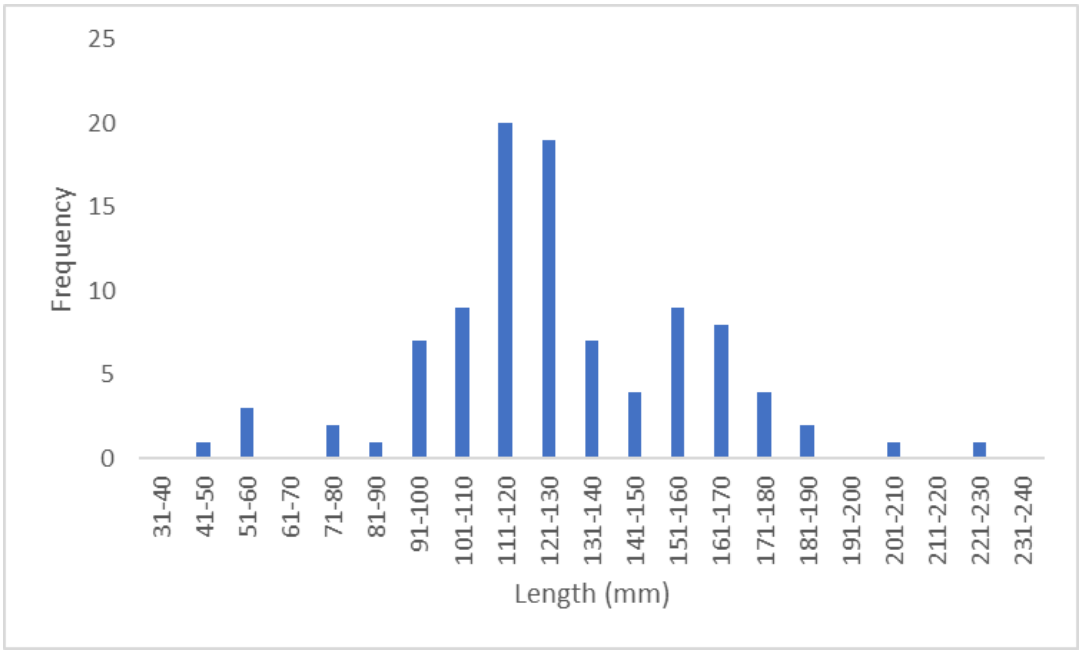


*Figure does not include fish without heads or fish used for trapping efficiency trials.

Figure 32. Length Frequency of Juvenile Chinook Sampled Season To-Date (Dexter Dam)

Table 20. Descriptive Statistics of Target Species Captured at the Dexter Dam RST Season To-Date

To-Date (Since March 07, 2022)											
Site	Trap	Species	Life stage	Collected	Length (mm)*			Weight (g)*			
					Min	Max	Mean	Min	Max	Mean	
Dexter Dam	5 ft	CHS	Fry	3	46	55	51.3	1.4	1.4	1.4	
		CHS	Parr	18	51	159	101.3	2.1	48.3	12.8	
		CHS	Smolt	77	95	224	137.2	9.3	118.4	27.6	

October 16-31, 2022											
Site	Trap	Species	Life stage	Collected	Length (mm)*			Weight (g)*			
					Min	Max	Mean	Min	Max	Mean	
Dexter Dam	5 ft	CHS	Fry	0	N/A	N/A	N/A	N/A	N/A	N/A	
		CHS	Parr	0	N/A	N/A	N/A	N/A	N/A	N/A	
		CHS	Smolt	0	N/A	N/A	N/A	N/A	N/A	N/A	

*Fish that were missing heads are not included in length and weight calculations.

Trapping Efficiency

A total of 1007 juvenile hatchery Chinook (sub-yearlings) were bismarck brown dyed, adipose clipped, upper caudal clipped and released on 10/26/2022 below Dexter Dam. Fish were released in small groups into powerhouse flow to evaluate the traps efficiency capturing fish passing through the powerhouse. 0 fish were recaptured in the 5-foot RST for an efficiency of 0.0%.

Mt. Hood Environmental staff noted that fish appeared to be in good condition upon retrieval from the hatchery.

Dexter Dam	Release #	Recapture #	Capture Efficiency
Spill	N/A	N/A	N/A
Powerhouse	1007	0	0.0% (0/1007)

24-Hour Post Collection Holding Trial

No Chinook were captured this reporting period.

Injuries and Copepod Infection

0 Chinook was captured during this reporting period. Partial descaling <20% was observed in 0 of the 0 Chinook captured (0.0%) and 0 displayed descaling >20% (0.0%). 0 displayed body injury (0.0%) and 0 Chinook had eye injury (0.0%). 0 Chinook had copepods present in the branchial cavity (0.0%) and 0 had

copepods on fins (0.0%). 0 displayed gas bubble disease (0.0%). There were 0 mortalities this reporting period (0.0%). Injuries are displayed in Table 21. To date injury data can be found in Appendix A.

Table 21. Number of Descaled, Bodily/Eye Injured. Copepod Infected and dead Chinook Salmon for Sampling Period (Dexter Dam).

Site	Route	# CHS Collected	# DSC* <20%	# DSC* >20%	# with Body Injuries	# with Eye Injuries	# with COP* In B.C.	# with COP* on Fins	Mortalities
Dexter Dam	PWR	0	0	0	0	0	0	0	0

*DSC=Descaled, COP=Copepods, B.C.=Branchial Cavity

Collected DNA and Scale Samples

For the reporting period, scales and DNA were collected from 0 Spring Chinook. The other targets captured did not meet length criteria for DNA sampling.

Non-Target Species

54 non-target species fish were captured during the reporting period; the data is summarized below in Table 22. Dexter Fish Facility releases adipose clipped Chinook near our trapping site. Adipose clipped Chinook caught in our trap are being counted as non-target fish to provide better clarity on data concerning run of river Chinook.

Table 22. Summary of Non-target Species (Dexter Dam).

Species	Capture	Mortality	Season Total	Season Total Mortality
Bass	0	0	99	1
Bluegill	2	0	10	1
Chinook (clipped)	1	0	358	7
Chinook (adult)	0	0	2	2
Crappie	35	0	87	5
Cutthroat	0	0	3	0
Dace	0	0	31	6
O. mykiss	0	0	16	0
O. mykiss (clipped)	0	0	34	2
Pikeminnow	0	0	1	0
Red-Sided Shiner	0	0	3	0
Sculpin	12	0	459	15
Sucker	0	0	3	1
Unknown	4	0	14	4
Totals	**54**	**0**	**1120**	**38**

Stream Statistics

Basic stream statistics at the Dexter Dam site were calculated from data downloaded from the U.S. Geological Survey stream gauge numbers 14149510 and 14150000. Gauge height (feet) is the only

metric provided at gauge 14149510. Total dissolved gas saturation data was received from gauge 14150000, 4.75 rkms downstream of the trap. During the reporting period, daily maximum values for instantaneous gauge height ranged from 637.6 feet to 638.7 feet (mean: 638.1 feet). Figure 33 shows instantaneous gauge height.

Total dissolved gas saturation ranged from 97 to 103% (mean: 98.7%) during the reporting period. Figure 34 shows total dissolved gas saturation.

Stream temperatures were recorded every two hours using a temperature probe at the Dexter Dam RST site during this reporting period. Temperature probes operated normally, and the data is shown below in Figure 35.

Flows through the Powerhouse and Spill during the reporting period averaged 2,305.8 and 0 cubic feet per second (cfs) respectively (Figure 36). Catch per unit of effort (CPUE) data are summarized in Table 23. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 23. Summary of salmonid CPUE, Dexter Dam.

	Chinook
Description	**8 ft**
Catch	0
Effort (hrs)	353.1
CPUE (fish/hr)	0

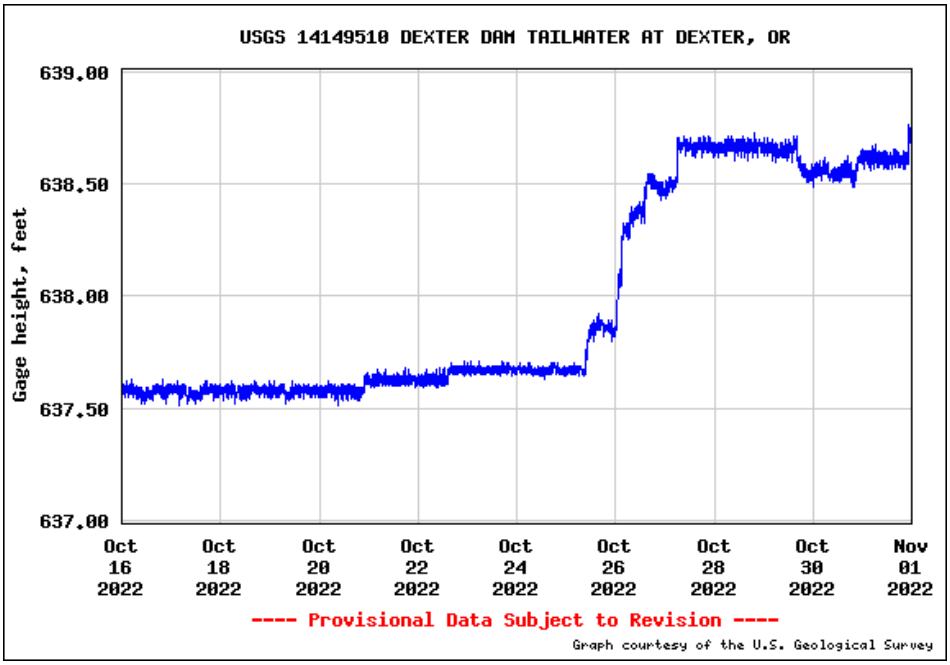


Figure 33. Gauge Height (feet); below Dexter Dam, Middle Fork Willamette

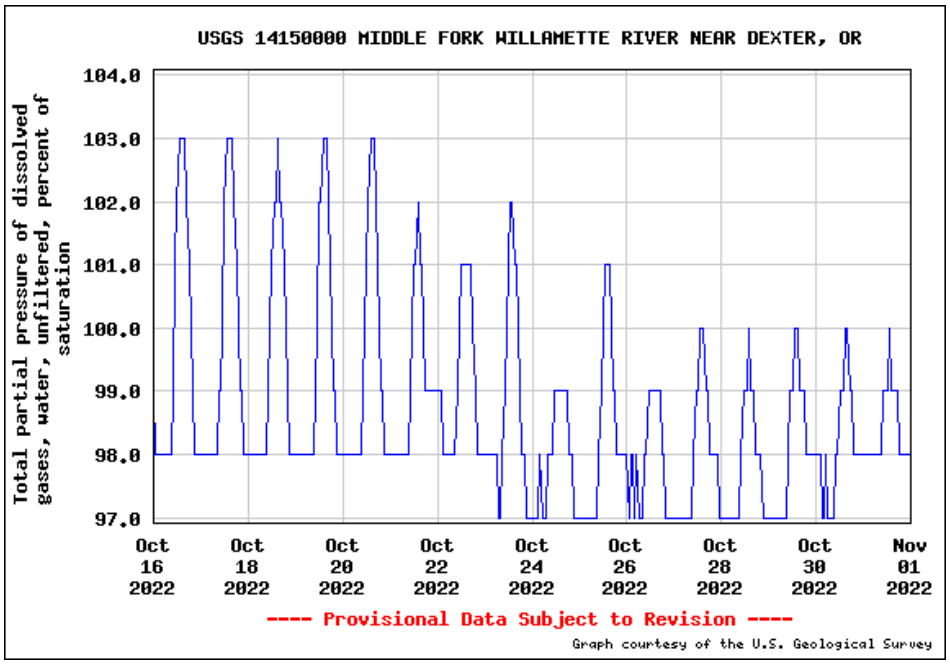


Figure 34. Total Dissolved Gas Saturation (%); Middle Fork Willamette River, Near Dexter, OR

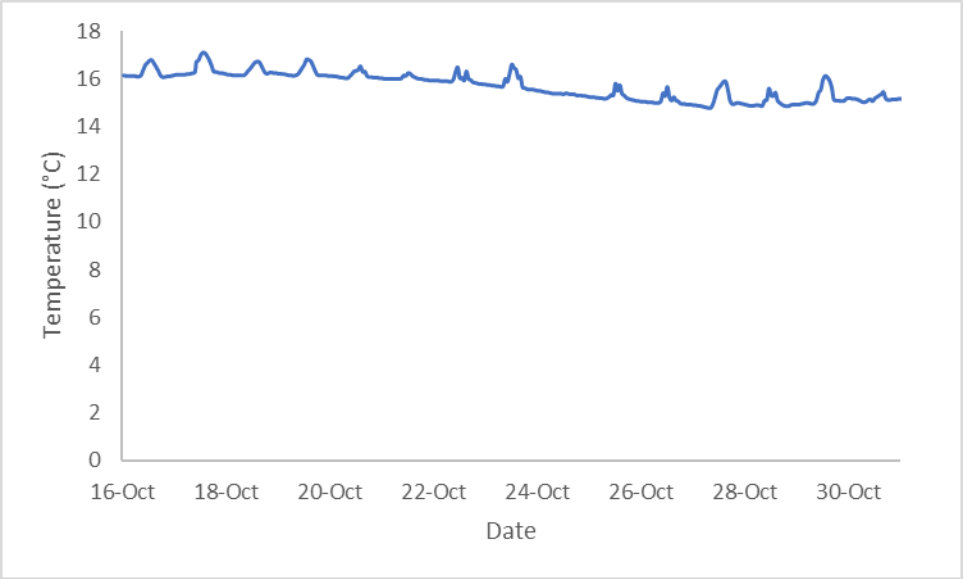


Figure 35. Temperature at RST (Dexter Dam)

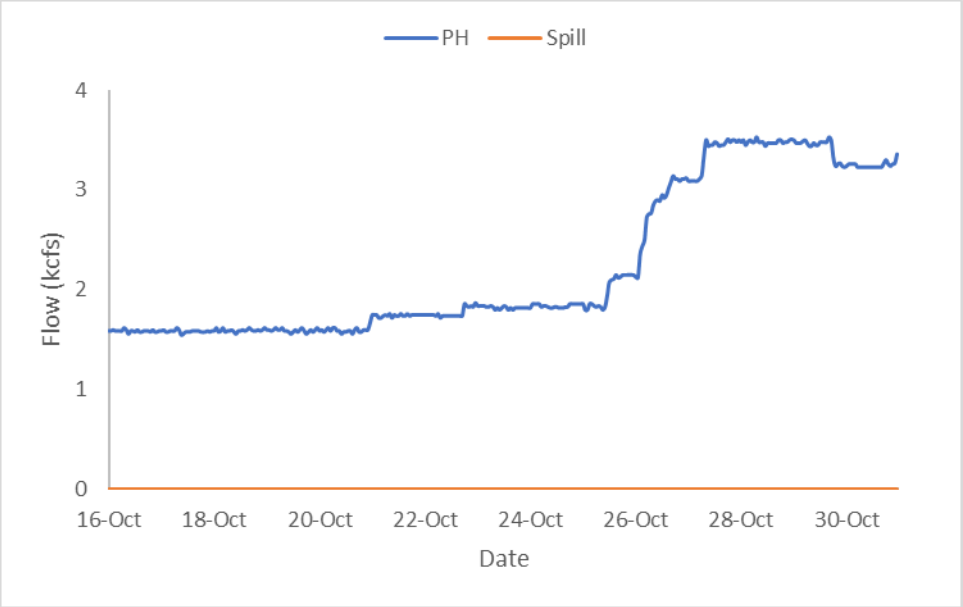


Figure 36. Hourly Flows PWR vs. Spill (Dexter Dam)

Middle Fork Willamette – Lookout Dam Tailrace

Target Species

The reporting period began October 16th and ended on October 31st. 0 Chinook salmon were captured during the 15-day sampling period (Figure 37). The Lookout Dam Tailrace traps were raised to a non-sampling position on October 10th due to hazardous air quality from the Cedar Creek Fire. They resumed

sampling on October 17th when the air quality dropped below 300. Traps were raised to a non-sampling position again on October 18th due to hazardous air quality. Traps resumed sampling on October 22nd. The traps were operated 60.0% of the reporting period. Table 24 provides life stage, length, and weight data for all Chinook salmon that have been caught at the Lookout Point Dam Tailrace site to-date and Figure 38 shows length frequency data to-date.

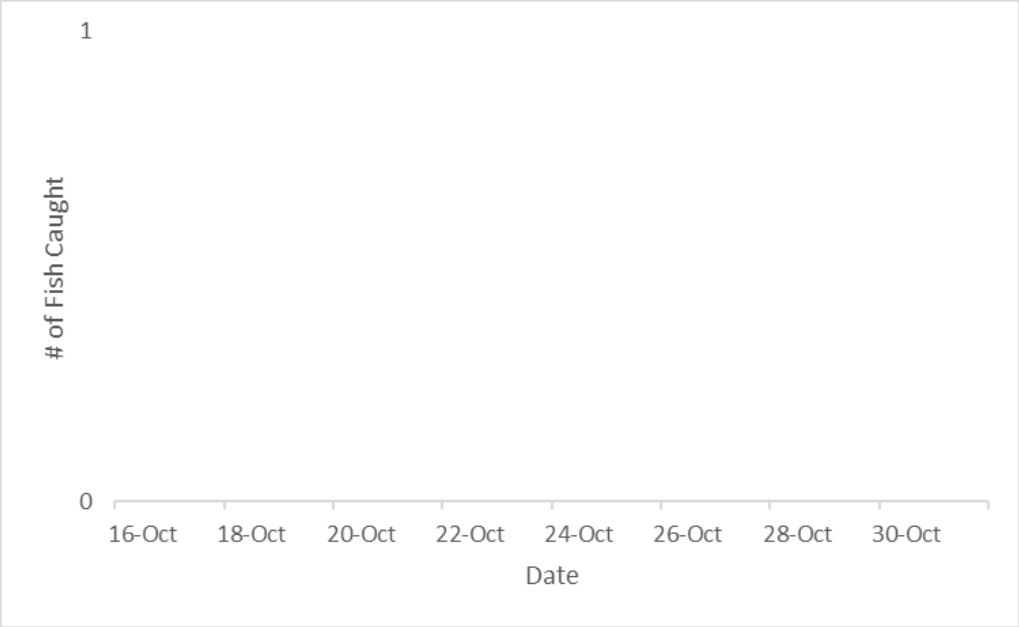


Figure 37. Chinook Captured Per Day 10/01/2022 to 10/15/2022 (Lookout Point Dam Tailrace)

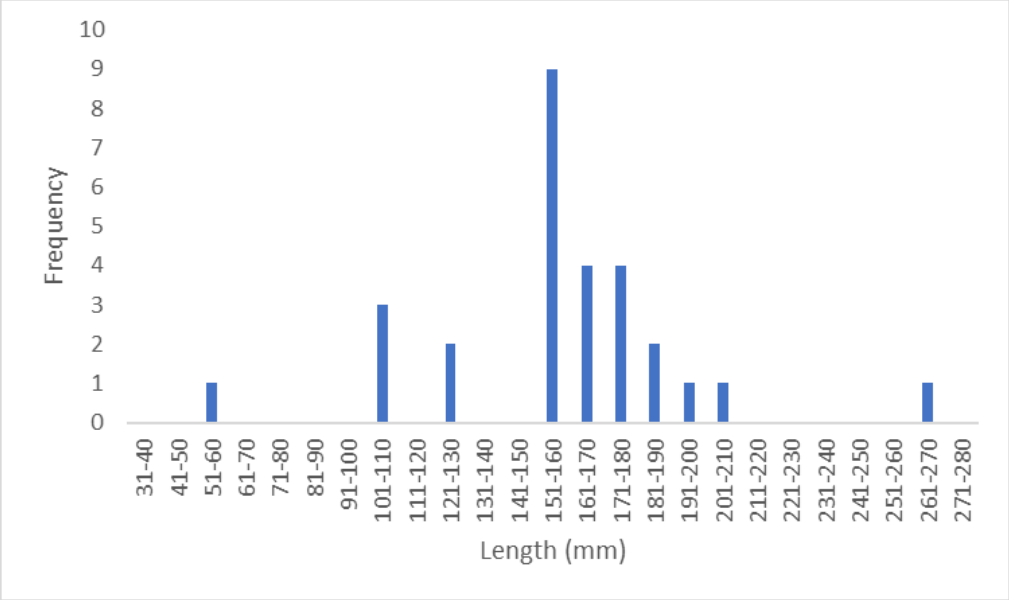


Figure 38. Length Frequency of Juvenile Chinook Sampled Season To-Date (Lookout Point Dam Tailrace)

Table 24. Descriptive Statistics of Target Species Captured at Lookout Point Dam Tailrace, Season To-Date and for the Reporting Period

To-Date (Since March 15, 2022)										
Site	\Route	Species	Life stage	Collected	Length (mm)*			Weight (g)*		
					Min	Max	Mean	Min	Max	Mean
Lookout Point Dam	PH 1	CHS	Smolt	25	112	266	150.3	15.0	108.9	40.6
		CHS	Parr	3	84	107	94.3	3.8	10.5	6.5
		CHS	Fry	0	0	0	0	0	0	0
	PH 2	CHS	Smolt	8	95	141	119.6	8.4	32.3	19.9
		CHS	Parr	4	58	108	86.0	2.2	13.4	6.7
		CHS	Fry	0	0	0	0	0	0	0
	Spill	CHS	Smolt	32	94	194	133.8	7.6	63.0	27.2
		CHS	Parr	6	77	126	96.5	5.4	26.1	12.1
		CHS	Fry	0	0	0	0	0	0	0
October 16-31, 2022										
Site	Route	Species	Life stage	Collected	Length (mm)*			Weight (g)*		
					Min	Max	Mean	Min	Max	Mean
Lookout Point Dam	PH 1	CHS	Smolt	0	N/A	N/A	N/A	N/A	N/A	N/A
		CHS	Parr	0	N/A	N/A	N/A	N/A	N/A	N/A
		CHS	Fry	0	N/A	N/A	N/A	N/A	N/A	N/A
	PH 2	CHS	Smolt	0	N/A	N/A	N/A	N/A	N/A	N/A
		CHS	Parr	0	N/A	N/A	N/A	N/A	N/A	N/A
		CHS	Fry	0	N/A	N/A	N/A	N/A	N/A	N/A
	\Spill	CHS	Smolt	0	N/A	N/A	N/A	N/A	N/A	N/A
		CHS	Parr	0	N/A	N/A	N/A	N/A	N/A	N/A
		CHS	Fry	0	N/A	N/A	N/A	N/A	N/A	N/A

*Some fry are too small to accurately weigh and are omitted from the above tables.

24-Hour Post Collection Holding Trial

0 Chinook captured in the RSTs was held during this reporting period. 0 fish were held from the PWR RST and 0 fish were held from the Spill RST. 0 hold fish died from the PWR RSTs (0 from PH 1 and 0 from PH 2) (0.0%). 0 of the fish from Spill RST died during holding (0.0%).

Trapping Efficiency

A total of 1,013 juvenile hatchery Chinook (parr) were bismarck brown dyed and adipose clipped, right ventral fin clipped and released on 04/13/2022 below Lookout Point Dam. Fish were released in small groups directly into powerhouse flow at 17:00 to 19:00. 2 fish were recaptured in the PH 1 RST for an

efficiency of 0.2%. 1 Lookout Point Dam trap efficiency fish was captured downstream in the Dexter RST on 4/15/2022.

Mt. Hood Environmental staff noted that fish appeared to be in good condition upon retrieval from the hatchery but did note some descaling and fin damage present as is common among hatchery fish of this age.

Lookout Dam	Release #	Recapture #	Capture Efficiency
Powerhouse	1,013	2	0.2% (2/1,013)

Injuries and Copepod Infection

There were 0 Chinook captured in the Spill Channel RST. Partial descaling <20% was observed on 0 of 0 Chinook collected at the Spill RST (0.0%), and descaling >20% was observed on 0 of the Chinook collected (0.0%). 0 displayed body injuries (0.0%) and 0 had eye injuries (0.0%). None of the Spill RST Chinook had copepods present in the branchial cavity (0.0%) and 0 had copepods present on fins (0.0%). 0 of the fish captured in the Spill RST displayed Gas Bubble Disease (0.0%).

There were 0 Chinook captured in the Powerhouse channel RSTs. Partial descaling <20% was observed on 0 of the 0 Chinook collected at the PWR RSTs (0.0%). Descaling >20% was observed on 0 of the Chinook collected (0.0%). 0 PWR RST fish had bodily injury (0.0%) and 0 had eye injuries (0.0%). 0 of the fish had copepods present in the branchial cavity (0.0%) and 0 had copepods present on fins (0.0%). 0 fish displayed Gas Bubble Disease (0.0%). There were 0 chinook mortality collected in the Spill RST (0.0%) and 0 in the PWR RST (0.0%). Injuries are displayed in Table 25. To date injury data can be found in Appendix A.

Table 25. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon for Sampling Period (Lookout Point Dam Tailrace).

Site	Route	# CHS Collected	# DSC* <20%	# DSC* >20%	# with Body Injuries	# with Eye Injuries	# with COP* In B.C.	# with COP* on Fins	Mortalities
Lookout Point Dam Tailrace	PWR	0	0	0	0	0	0	0	0
	Spill	0	0	0	0	0	0	0	0

*DSC=Descaled, COP=Copepods, B.C.=Branchial Cavity

Collected DNA and Scale Samples

For the reporting period, scales and DNA were collected from 0 Spring Chinook. The other targets captured did not meet length criteria for DNA sampling.

Non-Target Species

37,660 non-target species were captured during the reporting period; the data is summarized below in Table 26.

Table 26. Summary of Non-target Species (Lookout Point Dam Tailrace).

Species	PWR Capture	PWR Mortality	Spill Capture	Spill Mortality	Season Total	Season Total Mortality
Bass Unknown	4	1	0	0	4967	3663
Bluegill	3	2	1	1	7	3
Bullhead	0	0	0	0	3	1
Chinook (clipped)	0	0	0	0	4	0
Crappie	37601	20850	12	3	38029	21,047
Cutthroat	0	0	0	0	1	0
Dace	0	0	1	0	1	0
Largemouth Bass	0	0	0	0	1	0
Smallmouth Bass	0	0	0	0	1	1
Largescale Sucker	0	0	0	0	25	15
Northern Pikeminnow	23	0	7	0	46	9
O. mykiss	0	0	0	0	8	1
O. mykiss (clipped)	0	0	0	0	2	1
Red-Sided Shiner	0	0	1	0	2	0
Sculpin	5	0	2	0	107	12
Walleye	0	0	0	0	10	3
Unknown	0	0	0	0	3	2
Totals	**37,636**	**20,853**	**24**	**4**	**43,134**	**24,758**

Stream Statistics

Basic stream statistics at Lookout Dam Tailrace site were calculated from data downloaded from the U.S. Geological Survey stream gauge number 14149010. Total dissolved gas saturation or dissolved oxygen concentration measurements are not available at this stream gauge site, or any nearby stream gauges. Gauge height (feet) is the only metric provided at this gauge. During the reporting period, daily maximum values for instantaneous gauge height ranged from 692.2 feet to 694.1 feet (mean: 693.3 feet). Figure 39 shows instantaneous gauge height.

Stream temperatures were recorded every two hours using a temperature probe at the Lookout Dam RST site during this reporting period. Temperature probes operated normally, and the data is shown below in (figures 40 and 41).

Flows through the Powerhouse and Spill during the reporting period averaged 2,287.4 and 0 cubic feet per second (cfs) respectively (Figure 42). Catch per unit of effort (CPUE) data are summarized in Table 27. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 27. Summary of Chinook CPUE at Lookout Point Dam Tailrace.

	Chinook		
Description	PH 1	PH 2	Spill
Catch	0	0	0
Effort (hrs)	240.5	240.6	240.3
CPUE (fish/hr)	0	0	0

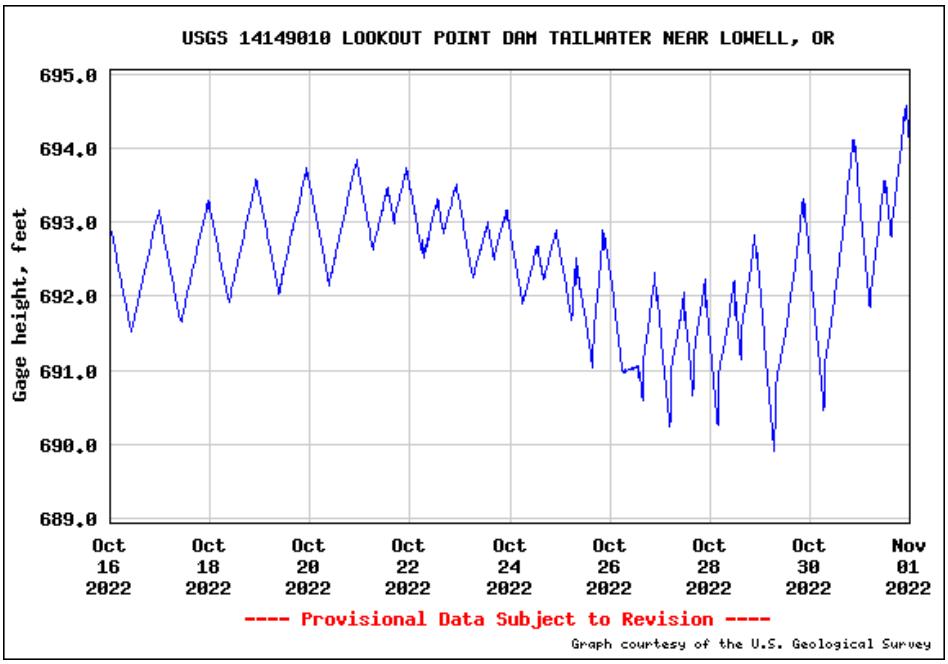


Figure 39. Gauge Height (feet); below Lookout Dam

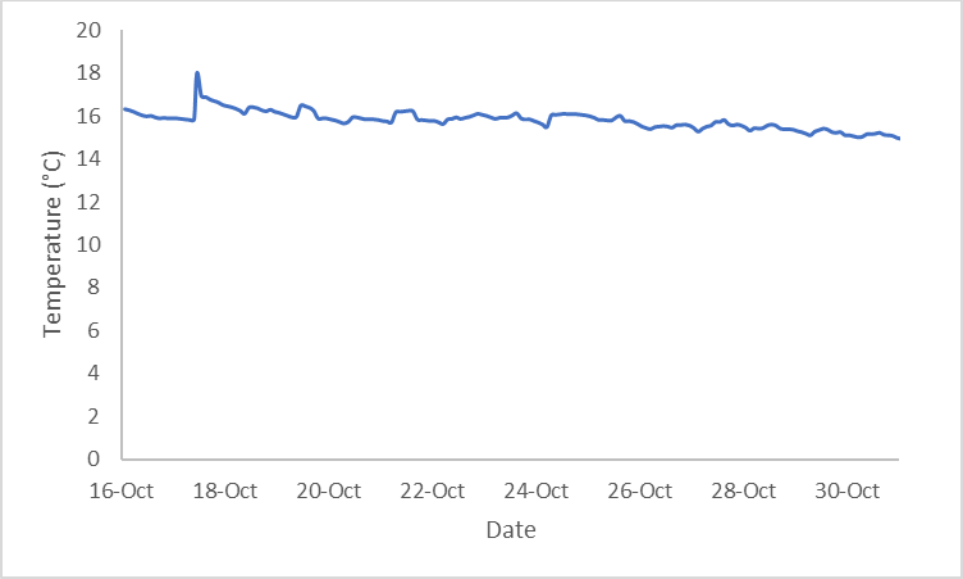


Figure 40. Temperature at RST (Lookout Dam PWR)

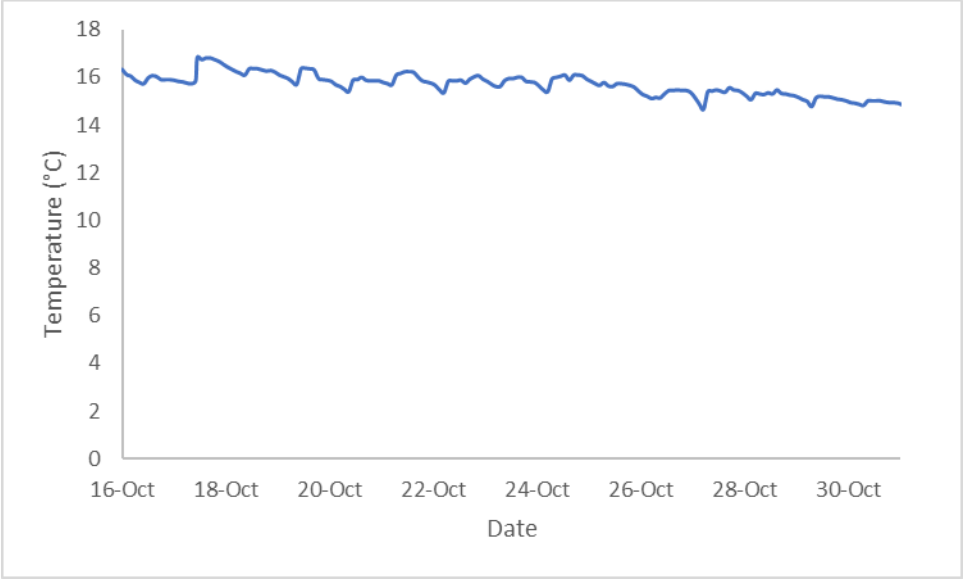


Figure 41. Temperature at RST (Lookout Dam Spill)

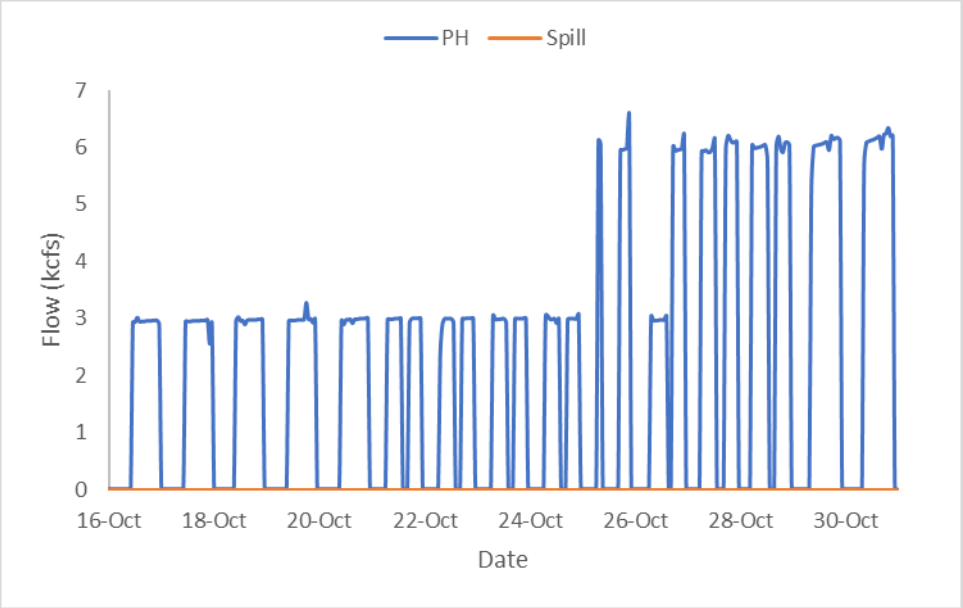


Figure 42. Hourly Flows PWR vs. Spill (Lookout Dam Tailrace)

Middle Fork Willamette – Lookout Point Head of Reservoir

Target Species

The reporting period began October 16th and ended on October 31st. 0 Chinook salmon were captured during the 15-day sampling period (Figure 43). The Lookout Point Head of Reservoir trap was raised on October 10th due to hazardous air quality conditions from the Cedar Creek fire. The trap resumed sampling on October 22nd. The trap was operated 53.3% of the reporting period. Table 28 provides life stage, length, and weight data for all Chinook salmon that have been caught at the Middle Fork Willamette - Lookout Point Head of Reservoir site to-date and Figure 44 shows length frequency data to-date.

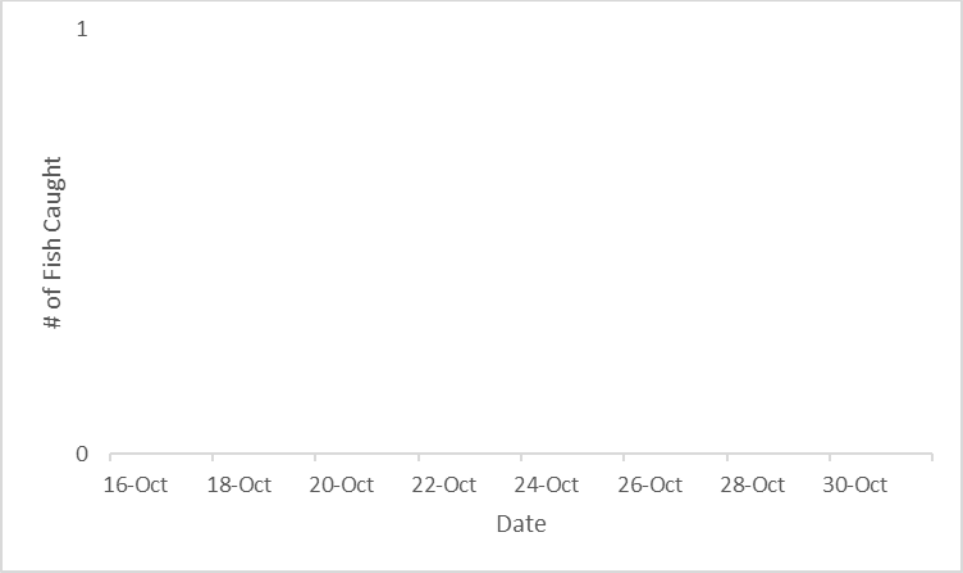


Figure 43. Chinook Captured Per Day 10/16/2022 to 10/31/2022 (Lookout Point Head of Reservoir)

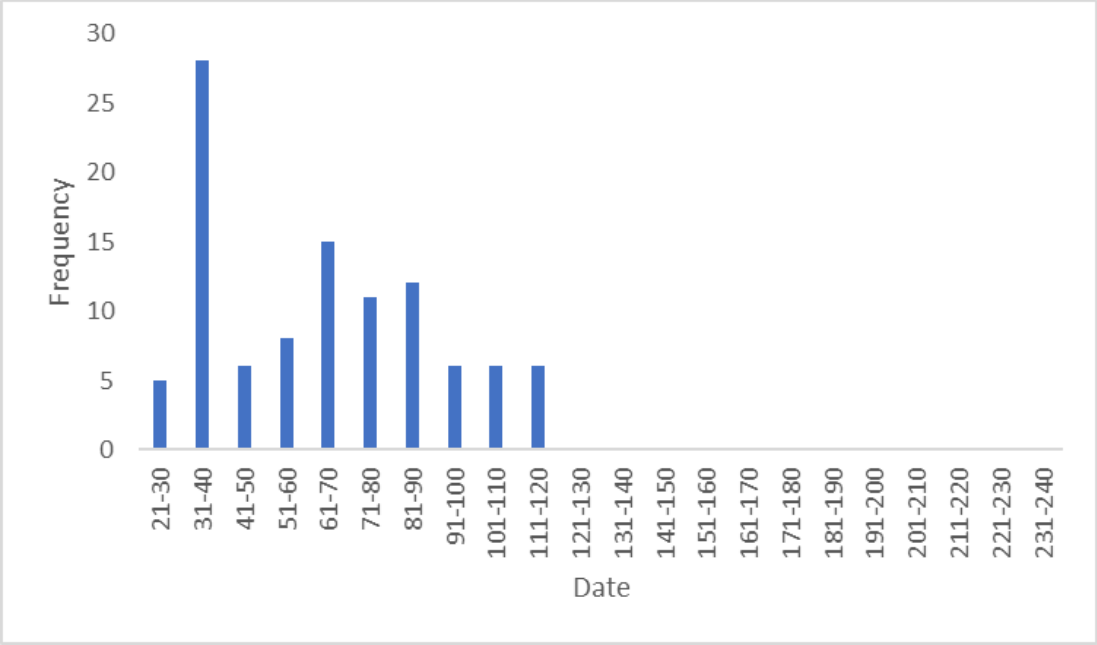


Figure 44. Length Frequency of Juvenile Chinook Sampled Season To-Date (Lookout Point Head of Reservoir)

Table 28. Descriptive Statistics of Target Species Captured at Lookout Point Head of Reservoir, Season To-Date and for the Reporting Period

To-Date											
Site	Route	Species	Life stage	Collected	Length (mm)*			Weight (g)*			
					Min	Max	Mean	Min	Max	Mean	
Lookout Point Head of Reservoir	5 ft	CHS	Smolt	3	111	118	114.5	15.0	17.5	16.3	
		CHS	Parr	59	59	115	80.0	1.0	19.8	5.9	
		CHS	Fry	41	28	69	37.2	N/A	N/A	N/A	
October 16-31, 2022											
Site	Route	Species	Life stage	Collected	Length (mm)*			Weight (g)*			
					Min	Max	Mean	Min	Max	Mean	
Lookout Point Head of Reservoir	5 ft	CHS	Smolt	0	N/A	N/A	N/A	N/A	N/A	N/A	
		CHS	Parr	0	N/A	N/A	N/A	N/A	N/A	N/A	
		CHS	Fry	0	N/A	N/A	N/A	N/A	N/A	N/A	

*Some fry are too small to accurately weigh and are omitted from the above tables.

Trapping Efficiency

A total of 506 juvenile hatchery Chinook (sub-yearlings) were bismarck brown dyed and adipose clipped and released on 10/27/2022 above the Lookout Point Head of Reservoir trap. Fish were released in small groups to evaluate the traps efficiency capturing fish migrating downstream. 9 fish were recaptured in the 5-ft RST for an efficiency of 1.8%.

Of the 9 fish recaptured, 1 was dead. Injuries were descaling and fin damage.

Lookout Point Head of Reservoir	Release #	Recapture #	Capture Efficiency
10/27/2022	506	9	1.8% (9/506)

Injuries and Copepod Infection

There were 0 Chinook captured during this reporting period. 0 had partial descaling <20% (0.0%) and 0 had body injuries (0.0%). There was 0 incidental mortality (0.0%). Injury data for the reporting period is shown in table 29. To date data can be found in Appendix A.

Table 29. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon for Sampling Period (Lookout Point Head of Reservoir).

Site	# CHS Collected	# DSC* <20%	# DSC* >20%	# with Body Injuries	# with Eye Injuries	# with COP* In B.C.	# with COP* on Fins	Mortalities
Lookout Point Head of Reservoir	0	0	0	0	0	0	0	0

*DSC=Descaled, COP=Copepods, B.C.=Branchial Cavity

Collected DNA and Scale Samples

No scales and DNA were collected from Chinook captured for the reporting period.

VIE Marking

Visual Implant Elastomer (VIE) trials commenced at the Lookout Point Head of Reservoir site on 6/25/2022. VIE tag color and locations are changed every reporting period to distinctly mark groups of fish by capture date. Since then, 4 Chinook have been VIE marked to the left of the dorsal fin with fluorescent elastomer. No fish with VIE marks have been detected at downstream RST sites to date.

Date Tagged	VIE Color	# Tagged	# Recaptured to Date
6/25/2022-7/15/2022	Yellow	3	0
7/16/2022-7/31/2022	Red	1	0

Non-Target Species

11 non-target species were captured during the reporting period; the data is summarized below in Table 30.

Table 30. Summary of Non-target Species (Lookout Point Head of Reservoir).

Species	5ft Capture	5ft Mortality	Season Total	Season Total Mortality
Bass Unknown	0	0	2	0
Bluegill	0	0	2	0
Chinook (clipped)	0	0	26	0
Cutthroat Trout	0	0	10	0
Dace	2	0	129	0
Lamprey	0	0	2	0
Largescale Sucker	1	0	17	1
Mountain Whitefish	0	0	3	0
Northern Pikeminnow	0	0	24	0
O. mykiss	2	0	88	3
O. mykiss (clipped)	0	0	2	0
Peamouth	0	0	1	0
Pumpkinseed	0	0	1	1
Red-Sided Shiner	0	0	2	0
Sculpin	0	0	24	7
Smallmouth Bass	0	0	8	0
Unknown	6	0	16	0
Totals	**11**	**0**	**338**	**12**

Stream Statistics

Basic stream statistics for the Lookout Point Head of Reservoir RST site were calculated from data downloaded from the U.S. Geological Survey stream gauge number 14148000. During the reporting

period, daily maximum values for instantaneous discharge ranged from 1,150.0 cfs to 1,840.0 cfs (mean: 1,436.3 cfs). Figure 45 shows instantaneous discharge.

Stream temperatures were recorded every two hours using a temperature probe at the Lookout Point Head of Reservoir RST site during this reporting period. The probe operated normally during this period. (Figure 46).

Flows into Lookout Point Reservoir averaged 1,286.8 cfs (Figure 47). Catch per unit of effort (CPUE) data are summarized in Table 31. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 31. Summary of Chinook CPUE at Lookout Point Head of Reservoir.

	Chinook
Description	5 ft
Catch	0
Effort (hrs)	214.1
CPUE (fish/hr)	0

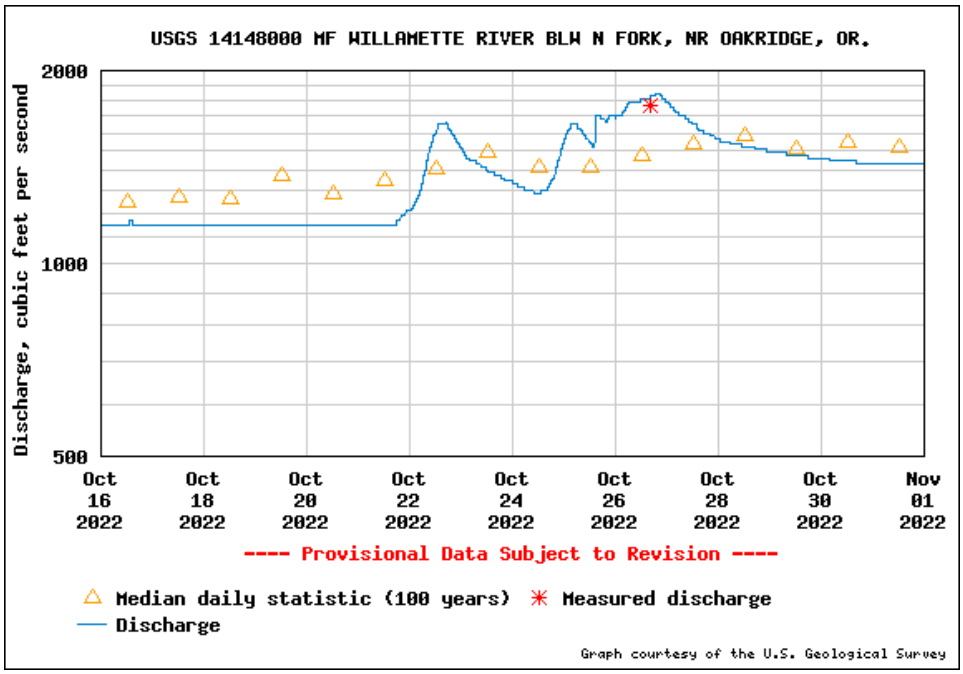


Figure 45. Discharge (cfs); above Lookout Point Reservoir, Below Oakridge, OR

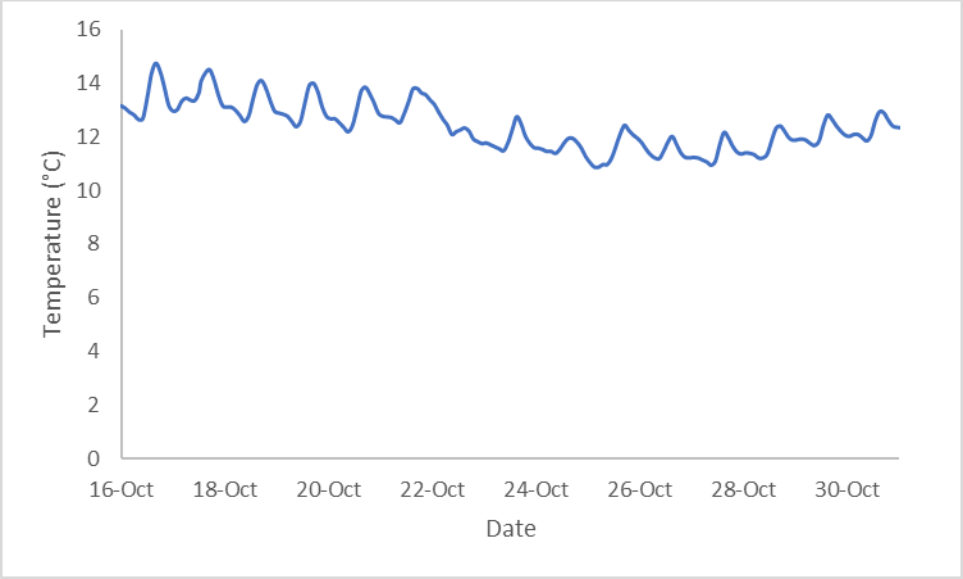


Figure 46. Temperature at RST (Lookout Point Head of Reservoir)

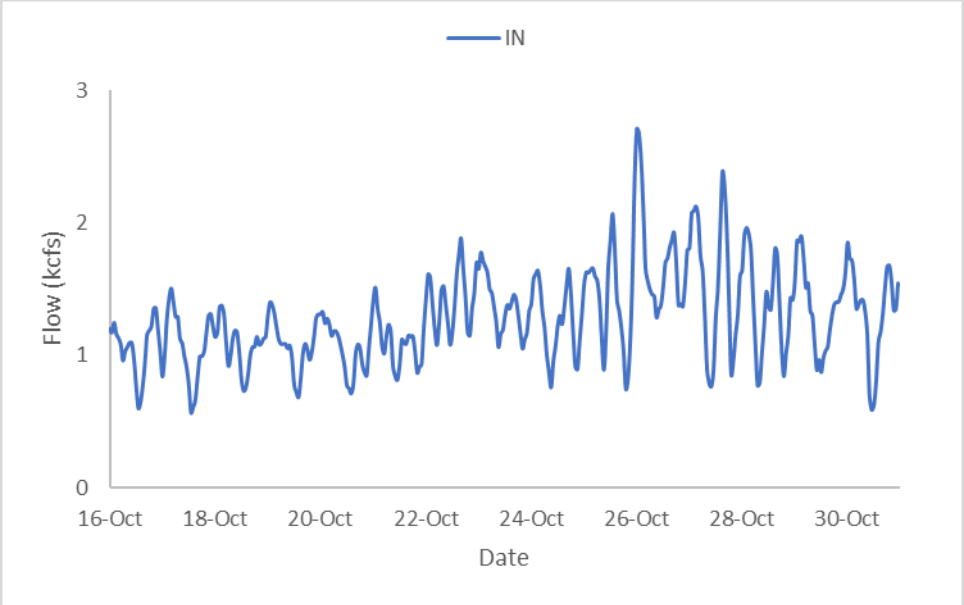


Figure 47. Hourly Flows (Lookout Point Head of Reservoir site)

Middle Fork Willamette – Hills Creek Dam

Target Species

This reporting period began on October 16th and ended on October 31st. There were 3 Chinook salmon (CHS) captured during the 15-day sampling period (Figure 48). Cones were raised on October 10th due to

hazardous air quality conditions from the Cedar Creek fire. The traps resumed sampling on October 22nd. Sampling durations were 53.3% for both the RO RST and Powerhouse RST. Table 4 provides life stage, length, and weight data for all Chinook salmon that have been caught at the Hills Creek Dam site to-date and Figure 49 shows length frequency data to-date.

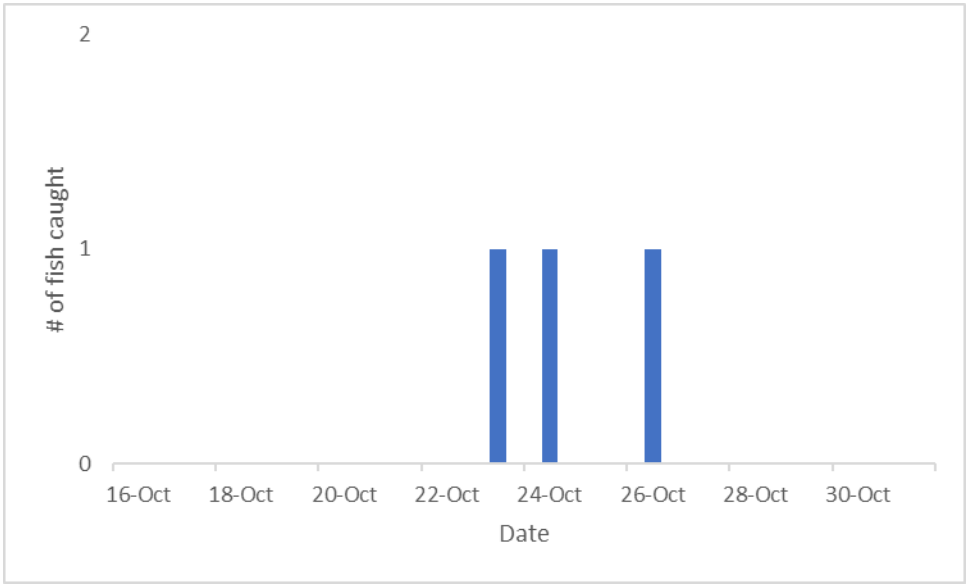


Figure 48. Chinook Captured Per Day 10/16/2022 to 10/31/2022 (Hills Creek Dam)

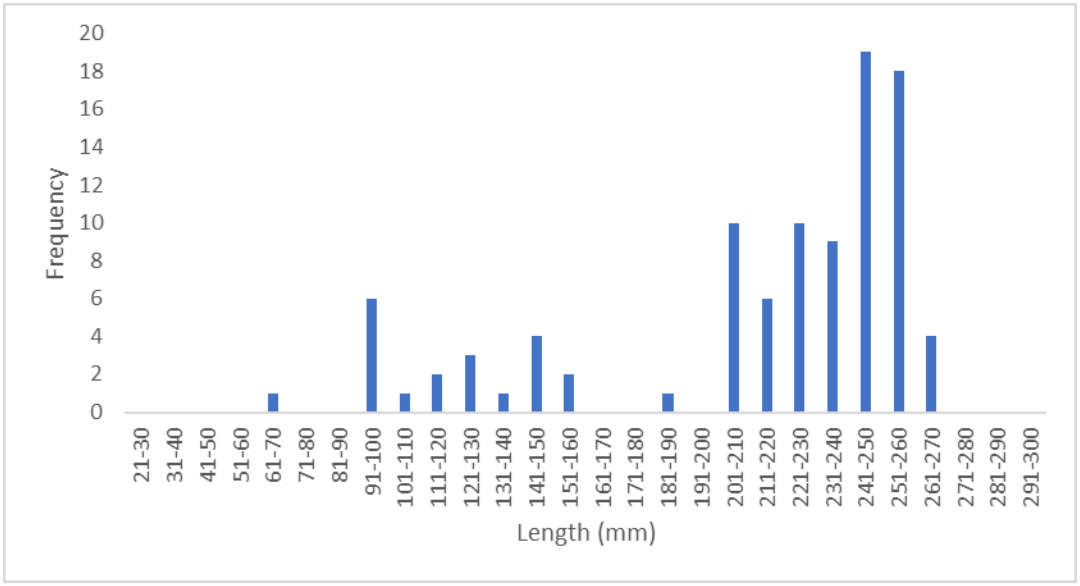


*Figure does not include fish without heads or fish used for trapping efficiency

Figure 49. Length Frequency of Juvenile Chinook Sampled Season To-Date (Hills Creek Dam)

24-Hour Post Collection Holding Trial

3 Chinook captured in the RSTs were held during this reporting period. 0 fish were held from the PWR RST and 3 fish were held from the RO RST. 0 hold fish died from the PWR RST (0.0%). 0 of the fish from RO RST died during holding (0.0%).

Trapping Efficiency

2 trapping efficiency trials have been conducted at Hills Creek Dam. The first being on 2/16/2022 and the second being on 2/25/2022.

During the first Trapping Efficiency trial, a total of 600 juvenile Chinook (parr) were dyed, clipped and released on 02/16/2022 below Hills Creek PWR and 593 below the RO to evaluate the efficiency of the screw trap at those locations. A total of 8 fish were recaptured in the 8ft PWR trap on 2/16/2022 and an additional 4 captured on 2/17/2022 for a total of 12 chinook recaptures in the PWR trap. A total of 19 chinook were captured in the 5ft RO trap on 02/17/2022. No PWR route fish were captured in the RO trap. Route-specific trapping efficiency was 2.0% at the PWR trap and 3.2% at the RO.

Of the fish recaptured,1 was dead and an additional 27 were injured of the total 31 recaptures. Injuries were primarily descaling (16) and fin damage (26). Mt. Hood Environmental staff noted that most fish appeared to have minor descaling with some fin damage, but in good condition overall upon retrieval from the hatchery.

Hills Creek Dam	Release #	Recapture #	Capture Efficiency
PWR Route	600	12	2.0% (12/600)
RO Trap	593	19	3.2% (19/593)

*Live fish captured at the PWR trap are released just downstream of the PWR trap, upstream of the RO trap and therefore retained in the capture efficiency estimates for the RO Trap if they arrive in the lower trap.
*Any dead fish captured at the PWR trap are excluded from the RO trap capture efficiency estimate as they are not alive at time of re-release.

During the second Trapping Efficiency trial, a total of 604 juvenile Chinook (parr) were dyed, clipped and released on 02/25/2022 below Hills Creek PWR and 625 below the RO to evaluate the efficiency of the screw trap at those locations. A total of 5 fish were recaptured in the 8ft PWR trap on 2/26/2022 and an additional 1 captured on 2/27/2022 for a total of 6 chinook recaptures in the PH trap. A total of 6 chinook were captured in the 5ft RO trap on 02/26/2022 and an additional 1 captured on 2/27/2022 for a total of 7 chinook recaptures in the RO trap. No PWR route fish were captured in the RO trap. Route-specific trapping efficiency was 0.99% at the PH trap and 1.12% at the RO.

Of the fish recaptured,1 was dead and an additional 11 were injured of the total 13 recaptures. Injuries were primarily descaling (11) and fin damage (12). Mt. Hood Environmental staff noted that most fish appeared to have minor descaling with some fin damage, but in good condition overall upon retrieval from the hatchery.

Hills Creek Dam	Release #	Recapture #	Capture Efficiency
PWR Route	604	6	0.99% (6/604)
RO Trap	625	7	1.12% (7/625)

*Live fish captured at the PWR trap are released just downstream of the PWR trap, upstream of the RO trap and therefore retained in the capture efficiency estimates for the RO Trap if they arrive in the lower trap.
*Any dead fish captured at the PWR trap are excluded from the RO trap capture efficiency estimate as they are not alive at time of re-release.

Table 32. Descriptive Statistics of Target Species Captured at Hills Creek Dam Season To-Date and for the Reporting Period

To-Date										
Site	Route	Species	Life stage	Collected	Length (mm)*			Weight (g)*		
					Min	Max	Mean	Min	Max	Mean
Hills Creek	RO	CHS	Parr	6	90.0	141.0	110.7	7.4	23.4	13.3
		CHS	Smolt	66	137.0	265.0	231.3	27.4	192.3	143.5
Hills Creek	PWR	CHS	Parr	7	69.0	127.0	98.1	3.7	24.5	11.2
		CHS	Smolt	25	128.0	265.0	224.3	26.2	188.7	130.6

*Fish that were missing heads are not included in length and weight calculations. One fish was a head only and could not be assigned a life stage.

October 16-31, 2022										
Site	Route	Species	Life stage	Collected	Length (mm)*			Weight (g)*		
					Min	Max	Mean	Min	Max	Mean
Hills Creek	RO	CHS	Parr	0	N/A	N/A	N/A	N/A	N/A	N/A
		CHS	Smolt	3	220	253	233.7	121.3	133.8	125.8
Hills Creek	PWR	CHS	Parr	0	N/A	N/A	N/A	N/A	N/A	N/A
		CHS	Smolt	0	N/A	N/A	N/A	N/A	N/A	N/A

Injuries and Copepod Infection

There were 3 Chinook captured in the RO RST. Partial descaling <20% was observed on 0 of 3 Chinook collected at the RO RST (0.0%), and descaling >20% was observed on 3 of the Chinook collected (100.0%). 3 displayed body injuries (100.0%) and 1 had eye injuries (33.3%). 3 of the RO RST Chinook had copepods present in the branchial cavity (100.0%) and 2 had copepods present on fins (66.7%). 0 of the fish captured in the Spill RST displayed Gas Bubble Disease (0.0%).

There were 0 Chinook captured in the Powerhouse channel RST. Partial descaling <20% was observed on 0 of the 0 Chinook collected at the PWR RSTs (0.0%). Descaling >20% was observed on 0 of the Chinook collected (0.0%). 0 PWR RST fish had bodily injury (0.0%) and 0 had eye injuries (0.0%). 0 of the fish had copepods present in the branchial cavity (0.0%) and 0 had copepods present on fins (0.0%). 0 fish displayed Gas Bubble Disease (0.0%). There were 0 chinook mortalities collected in the RO RST (0.0%) and 0 in the PWR RST (0.0%). Injuries are displayed in Table 5. To date injury data can be found in Appendix A.

Table 33. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon for Sampling Period. (Hills Creek Dam)

Site	Route	# CHS Collected	# DSC* <20%	# DSC* >20%	# with Body Injuries	# with Eye Injuries	# with COP* In B.C.	# with COP* on Fins	Mortalities
Hills Creek	RO	3	0	3	3	1	3	2	0
Hills Creek	PWR	0	0	0	0	0	0	0	0

*DSC=Descaled, COP=Copepods, B.C.=Branchial Cavity

Collected DNA and Scale Samples

For the reporting period, scales and DNA were collected from 3 Spring Chinook. The other targets captured did not meet length criteria for DNA sampling or were captured before new protocols were put in place.

Non-Target Species

A total of 23 non-target fish were captured at Hills Creek during the reporting period; the data is summarized below in Table 6.

Table 34. Summary of Non-target Species (Hills Creek Dam).

Species	RO Capture	RO Mortality	PWR Capture	PWR Mortality	Season Total	Season Total Mortality
Bass Unknown	1	1	0	0	1	1
Bluegill	1	0	0	0	56	28
Brook Lamprey	0	0	0	0	2	0
Bullhead	0	0	0	0	1	0
Bull Trout	0	0	0	0	1	0
Crappie	8	0	0	0	71	41
Longnose Dace	0	0	0	0	2	0
Red-Sided Shiner	0	0	0	0	19	2
Sculpin	1	0	0	0	47	0
Spotted Bass	0	0	0	0	6	1
Sucker	0	0	0	0	2	1
Mountain Whitefish	0	0	0	0	1	1
O. mykiss	3	0	0	0	67	22
Unknown	9	0	0	0	13	2
Totals	**23**	**1**	**0**	**0**	**310**	**101**

Stream Statistics

Basic stream statistics at the Hills Creek site were calculated from data downloaded from the U.S. Geological Survey stream gauge numbers 14145110 and 14145500. Gauge height (feet) is the only metric provided at this gauge. Total dissolved gas saturation data was received from gauge 14145500, 1.4 rkms downstream of the trap. During the reporting period, daily maximum values for instantaneous gauge height ranged from 1,224.6 feet to 1,224.9 feet (mean: 1,224.7 feet). Figure 50 shows instantaneous gauge height.

Total dissolved gas saturation ranged from 102 to 105% (mean: 102.9%) during the reporting period. Figure 51 shows total dissolved gas saturation.

Stream temperatures were recorded every 2 hours for the both the RO RST and the PWR RST (Figures 52 and 53). The probes operated normally throughout the reporting period.

Flows through the PWR and RO during the reporting period averaged 0 and 894.6 cubic feet per second (cfs) respectively (Figure 54). Catch per unit of effort (CPUE) data are summarized in Table 7. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 35. Summary of Chinook CPUE, Hills Creek Dam.

	Chinook	
Description	**RO (5ft)**	**PWR (8ft)**
Catch	3	0
Effort (hrs)	214.8	214.2
CPUE (fish/hr)	0.014	0

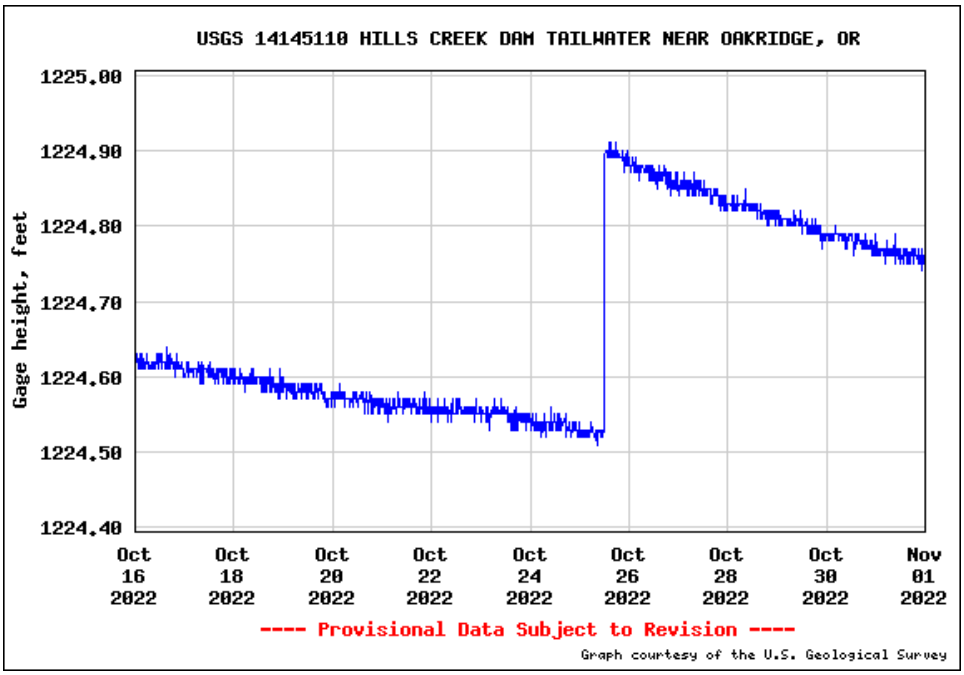


Figure 50. Gauge Height (feet); below Hills Creek Dam PWR - Middle Fork Willamette River

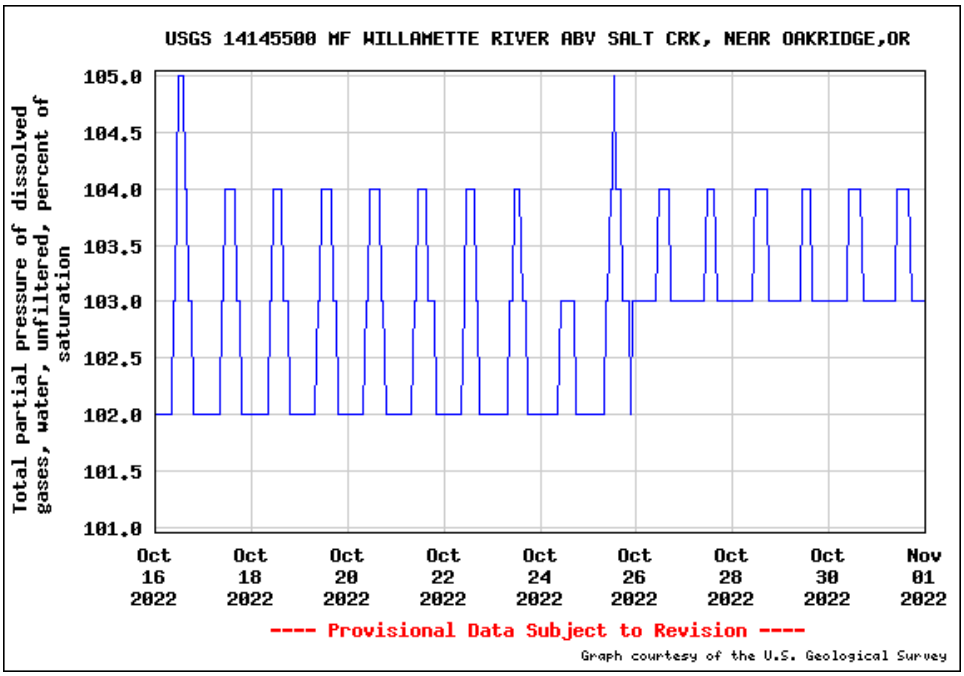


Figure 51. Total Dissolved Gas Saturation (%); below Hills Creek Dam – Middle Fork Willamette River

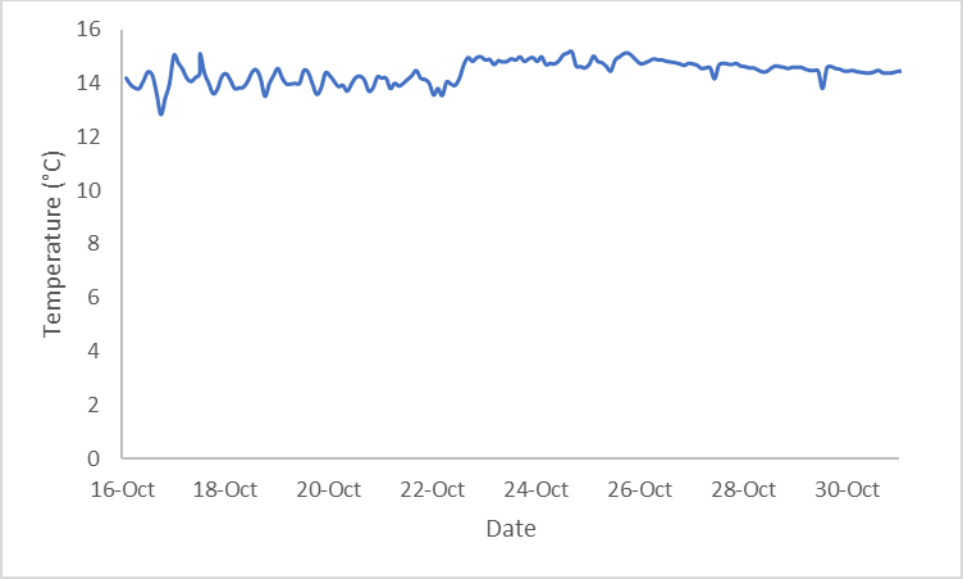


Figure 52. Temperature at RO RST (Hills Creek Dam)

Figure 53. Temperature at Powerhouse RST (Hills Creek Dam)

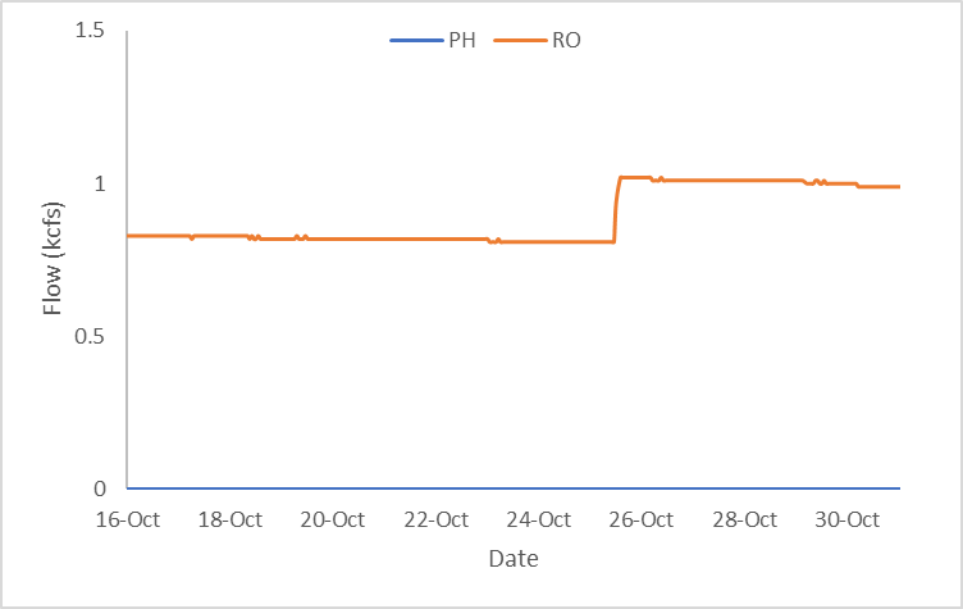


Figure 54. Hourly Flows PWR vs. RO (Hills Creek Dam)

Issues Encountered

The Cedar Creek Fire is still active Southeast of the town of Oakridge near two of our sites on the Middle Fork Willamette River. Air quality exceeded 500 ppm this reporting period. Hills Creek Dam, Lookout Point Head of Reservoir, Lookout Dam Tailrace, and Dexter Dam Tailrace traps were raised to a non-sampling position on October 10th. All traps resumed fishing on October 22nd. Fall Creek Dam Tailrace was installed on October 14th. It did not start fishing until October 16th due to hazardous air quality.

Upcoming USACE Support Services

None at this time.

Appendix A

Chinook (CHS) To Date

Chinook Injuries to-date																							
Site/Trap/Life Stage	Total Fish	MUNK	DS<2	BLO	EYB	FUN	BKD	COP	DS>2	PRD	FID	HBO	BO	HO	BVT	HBP	BRU	TEA	OPD	HIN	FVB	POP	GBD
Big Cliff Dam	1133		699	5	79	3	1	869	261	4	576	5	10	4	27	6	69	40	125	71	65	13	36
8 ft	1133		699	5	79	3	1	869	261	4	576	5	10	4	27	6	69	40	125	71	65	13	36
Adult	1		1								1						1	1	1		1		
Parr	24		6		1	1		15	3		6					2			1				
Smolt	1097		692	5	77	2		854	257	4	568	5	10	2	27	4	67	39	122	70	64	12	36
Unknown	2													2								1	
Fry	9				1		1		1		1						1		1	1			
Foster Dam HOR	73		14		1						4												
5 ft	73		14		1						4												
Parr	10		6								1												
Smolt	8		7								3												
Fry	55		1		1																		
Cougar Dam	2239	10	1139	18	196	7	3	1475	428	3	918	2	7	2	69	17	##	46	167	69	##	12	202
RO	1051		626	13	164	4	3	907	308	3	612	2	2		35	15	80	17	118	48	83	8	198
Parr	160		88	1	26			101	32		67				2		6	2	12	10	2		12
Smolt	870		538	12	135	4	3	806	275	3	544	2	2		33	15	73	15	105	36	81	8	186
Fry	21				3				1		1						1		1	2			
PH	1188	10	513	5	32	3		568	120		306		5	2	34	2	27	29	49	21	62	4	4
Parr	266		146		11	1		104	25		67		1		5		3	5	11	6	5		
Smolt	538		365	5	17	2		464	89		234		4		28	2	22	17	35	12	57	1	4
Unknown	2													2									
Fry	382	10	2		4				6		5				1		2	7	3	3		3	
Cougar Dam HOR	675	3	74			1		8	2	2	44						1	6	7	6	1	1	
5 ft	675	3	74			1		8	2	2	44						1	6	7	6	1	1	
Parr	143		71			1		8	2	1	36						1	6			1		
Smolt	4		1																				
Fry	528	3	2							1	8								7	6		1	
Fall Creek Dam Tail.	1								1		1						1						
8 ft	1								1		1						1						
Smolt	1								1		1						1						
Fall Creek HOR	7		3					2			1												
8 ft	7		3					2			1												
Parr	2		2					1			1												
Smolt	5		1					1															
Dexter Dam Tail.	98		59		6			11	23		46				1		3	4	6	6	4		20
5 ft	98		59		6			11	23		46				1		3	4	6	6	4		20
Parr	18		6		3			2	6		8							2	3	2			6
Smolt	77		53		3			9	17		37				1		3	2	3	4	4		14
Fry	3										1												

Chinook (CHS) To Date - Continued

Chinook Injuries to-date

Site/Trap/Life Stage	Total Fish	MUNK	DS<2	BLO	EYB	FUN	BKD	COP	DS>2	PRD	FID	HBO	BO	HO	BVT	HBP	BRU	TEA	OPD	HIN	FVB	POP	GBD
Lookout Dam Tail.	78		41	1	15	1		14	28		44				2	2	9	1	15	9	6		8
PH 1	28		11	1	7			7	14		19				2	2	6		8	2	1		2
Parr	3				1				2		2					1	1		1				
Smolt	25		11	1	6			7	12		17				2	1	5		7	2	1		2
PH 2	12		10		3			2	2		9						1	1	2	4	1		
Parr	4		4		3				1		4						1	1	1	3			
Smolt	8		6					2	1		5								1	1	1		
Spill	38		20		5	1		5	12		16						2		5	3	4		6
Parr	6		1						3		1												
Smolt	32		19		5	1		5	9		15						2		5	3	4		6
Lookout Point HOR	103		31					2			12						1		1				
5 ft	103		31					2			12						1		1				
Parr	59		29					1			9						1		1				
Smolt	3		1					1			1												
Fry	41		1								2												
Hills Creek Dam	104	1	55		13			79	39		28		8	1	31	8	5	3	9	4	5		2
RO	72	1	37		7			58	28		21		6		25	6	4	2	8	2	2		2
Parr	6		1					1									1						
Smolt	66	1	36		7			57	28		21		6		25	6	3	2	8	2	2		2
PH	32		18		6			21	11		7		2	1	6	2	1	1	1	2	3		
Parr	7		4					1	1							1				1			
Smolt	25		14		6			20	10		7		2	1	6	1	1	1	1	1	3		

Chinook (CHS) During Reporting Period

Chinook Injuries During Reporting Period (10-16-2022 to 10-31-2022)

Site/Trap/Life Stage	Total Fish	MUNK	DS<2	BLO	EYB	FUN	BKD	COP	DS>2	PRD	FID	HBO	BO	HO	BVT	HBP	BRU	TEA	OPD	HIN	FVB	POP	GBD
Big Cliff Dam	26		16	1	4			23	8		21				3		3	4	7	2	2		4
8 ft	26		16	1	4			23	8		21				3		3	4	7	2	2		4
Smolt	26		16	1	4			23	8		21				3		3	4	7	2	2		4
Foster Dam HOR	7		5								2												
5 ft	7		5								2												
Parr	2		1																				
Smolt	5		4								2												
Cougar Dam	620		375	10	100	2		608	219		426		1		27	13	60	8	70	21	70	4	168
RO	620		375	10	100	2		608	219		426		1		27	13	60	8	70	21	70	4	168
Parr	25		18	1	3			24	7		19				1		1		1	3	2		6
Smolt	595		357	9	97	2		584	212		407		1		26	13	59	8	69	18	68	4	162
Cougar Dam HOR	43		24			1		2	1	1	14						1	2					
5 ft	43		24			1		2	1	1	14						1	2					
Parr	43		24			1		2	1	1	14						1	2					
Fall Creek Dam Tail.	1								1		1						1						
8 ft	1								1		1						1						
Smolt	1								1		1						1						
Hills Creek Dam	6		2		2			6	4		3		1		3		2		3				
RO	6		2		2			6	4		3		1		3		2		3				
Smolt	6		2		2			6	4		3		1		3		2		3				

Steelhead (O. mykiss) To Date

O. mykiss Injuries To Date

Site/Trap/Life Stage	Total Fish	MUNK	DS<2	BLO	EYB	FUN	BKD	COP	DS>2	PRD	FID	HBO	BO	HO	BVT	HBP	BRU	TEA	OPD	HIN	FVB	POP	GBD
Big Cliff Dam	67		17		1			10	5		16		1		1		4	3	5	6			1
8 ft	67		17		1			10	5		16		1		1		4	3	5	6			1
Adult	1								1		1		1										
Parr	22		4		1						5									1			
Smolt	16		10					10	4		9				1		3	3	5	5			1
Fry	28		3								1						1						
Green Peter Tail.	6		3		1			1	2		4						4		1	1			5
8 ft	6		3		1			1	2		4						4		1	1			5
Smolt	6		3		1			1	2		4						4		1	1			5
Foster Dam HOR	164		44			1		1		1	37						2	1	2			1	
5 ft	164		44			1		1		1	37						2	1	2			1	
Adult	7		1								2												
Parr	70		17			1		1			17						2		2			1	
Smolt	56		26							1	18							1					
Fry	31																						

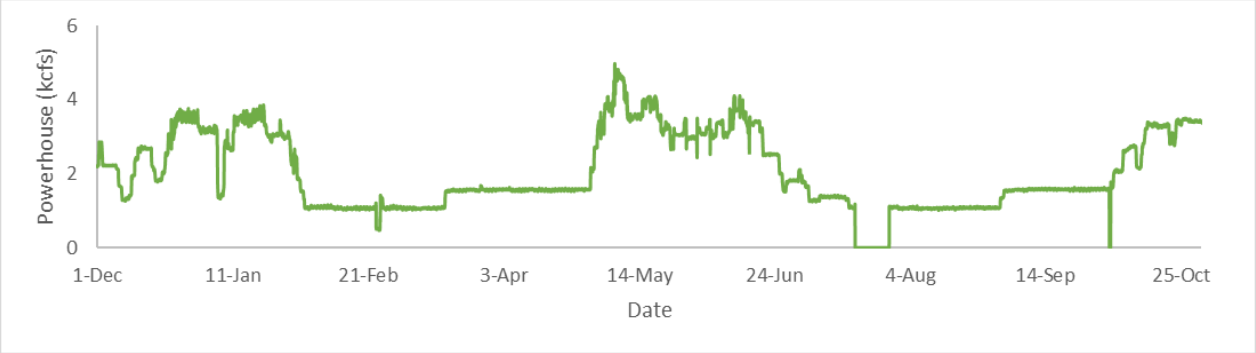
Steelhead (O. mykiss) During Reporting Period

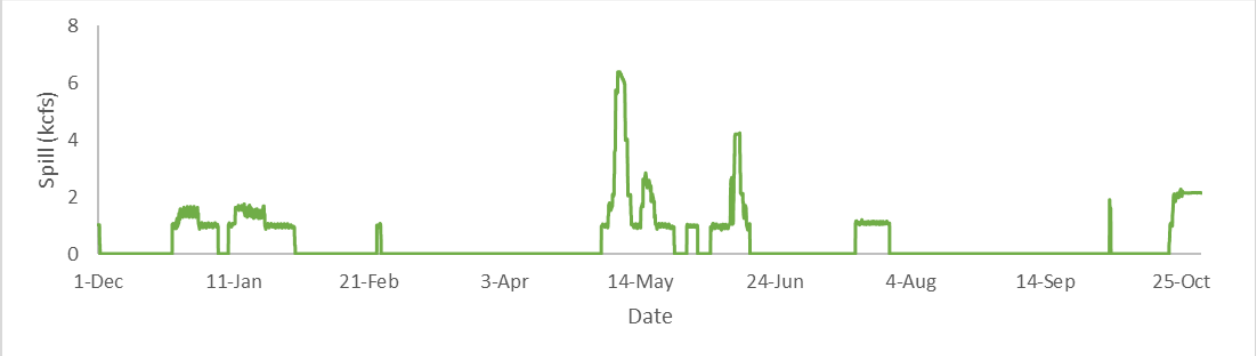
O. mykiss Injuries During Reporting Period (10-16-2022 to 10-31-2022)

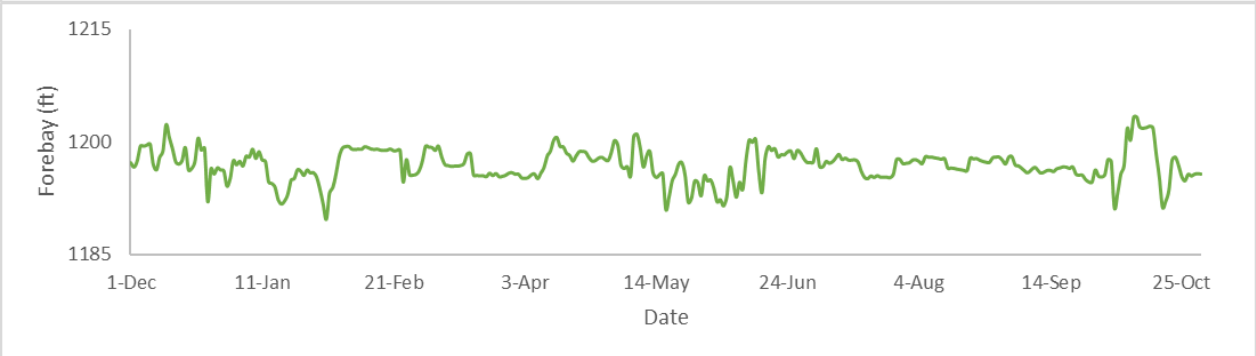
Site/Trap/Life Stage	Total Fish	MUNK	DS<2	BLO	EYB	FUN	BKD	COP	DS>2	PRD	FID	HBO	BO	HO	BVT	HBP	BRU	TEA	OPD	HIN	FVB	POP	GBD
Big Cliff Dam	5										1												
8 ft	5										1												
Parr	5										1												
Foster Dam HOR	74		19			1				1	26						2		2			1	
5 ft	74		19			1				1	26						2		2			1	
Parr	53		10			1					15						2		2			1	
Smolt	21		9							1	11												

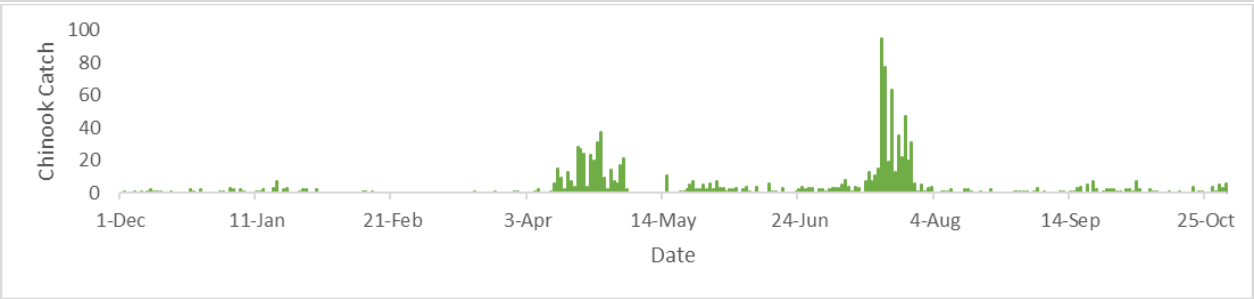
Appendix B

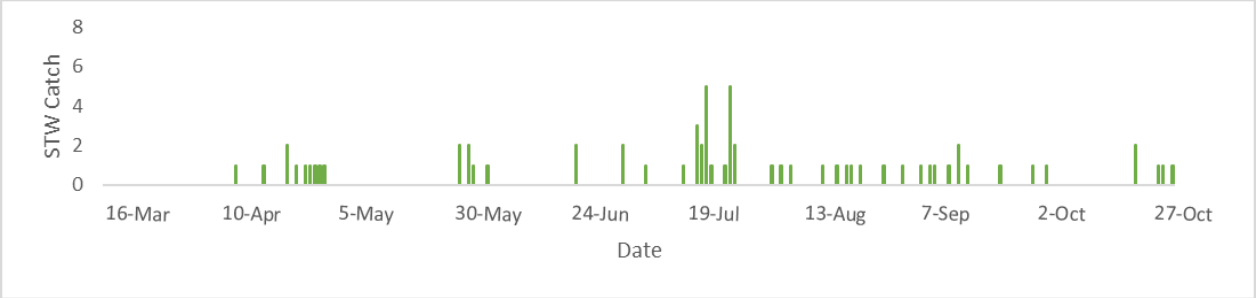
Big Cliff Dam Operational and Capture Data Since Start of Monitoring



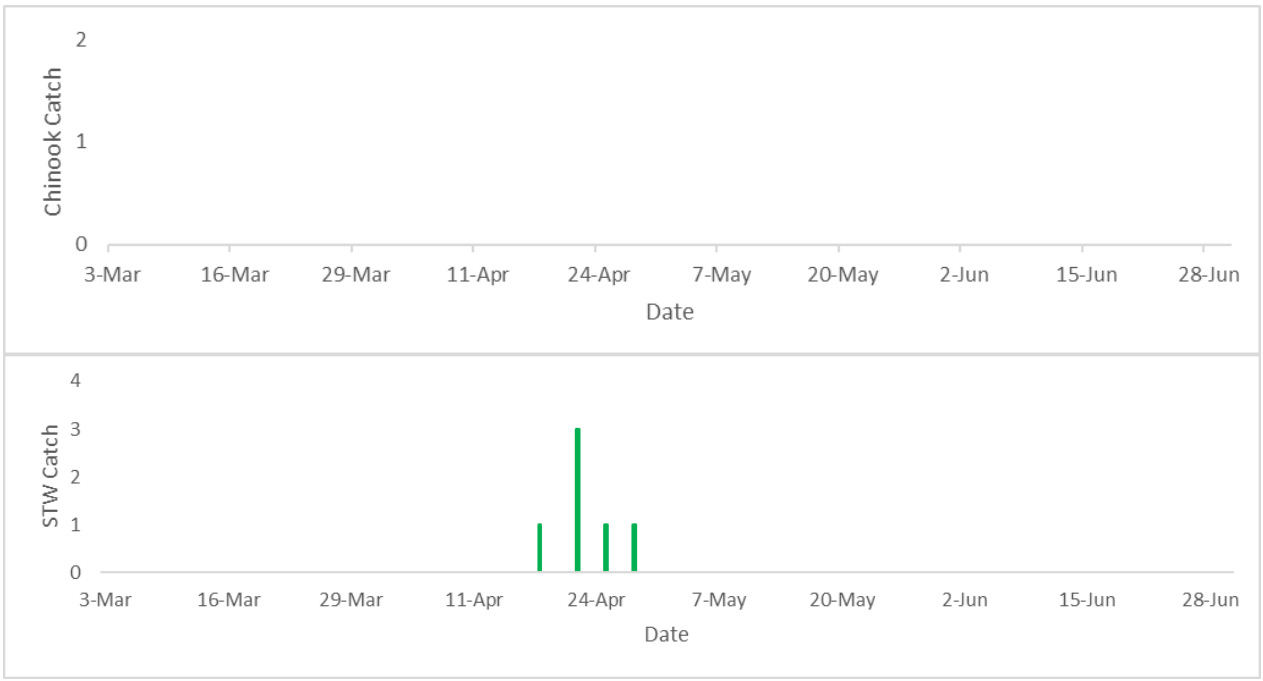




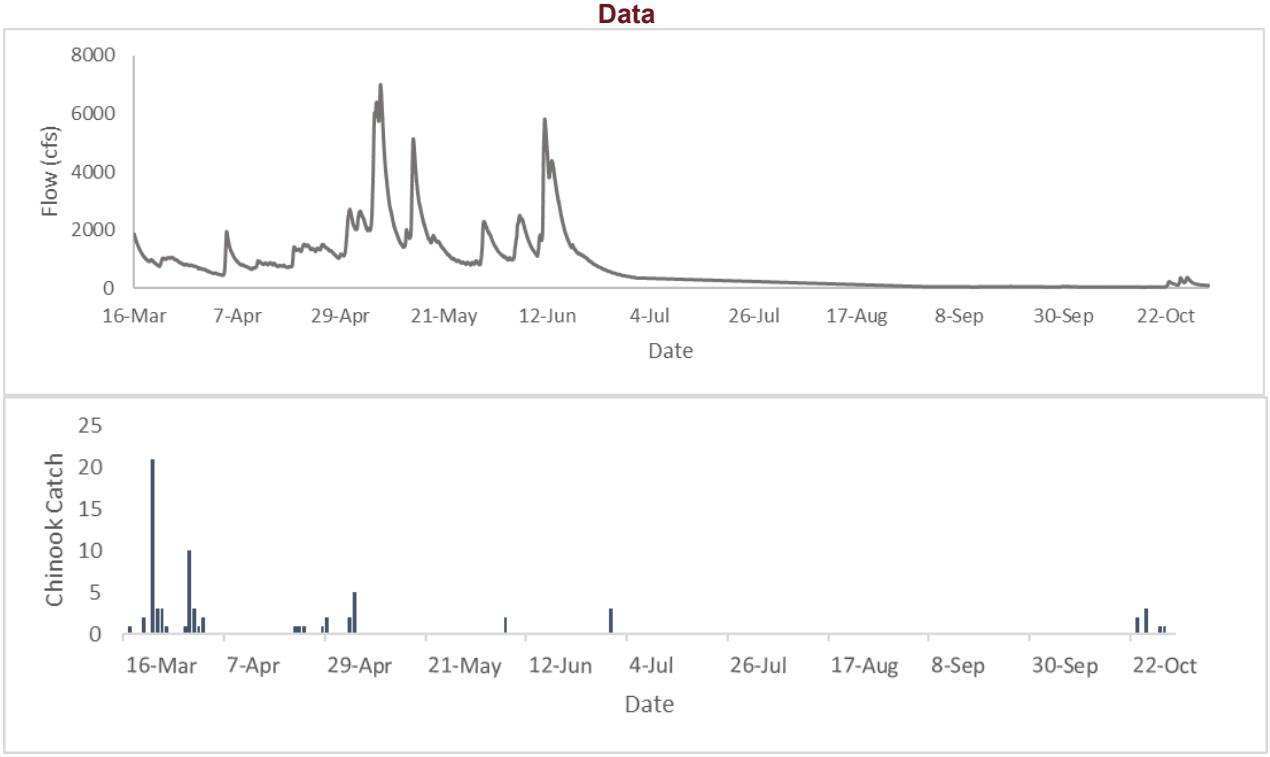


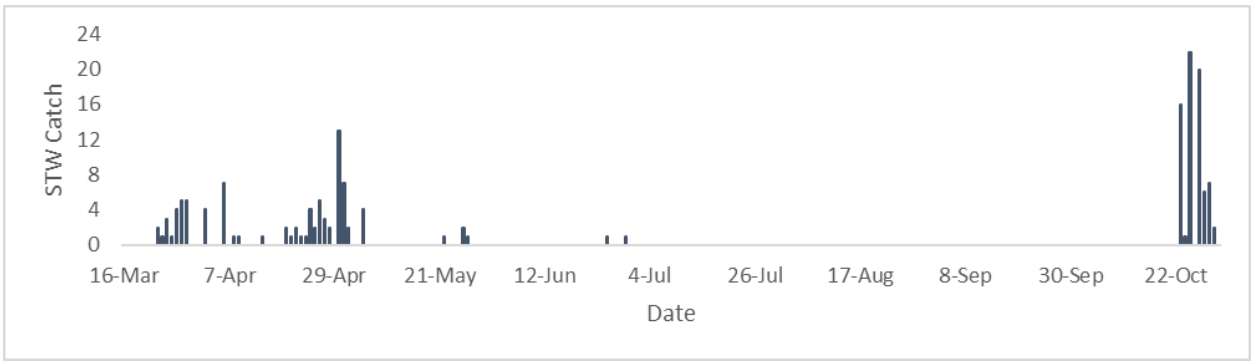


Green Peter Dam Operational and Green Peter Tailrace- Middle Santiam River Capture Data Since Start of Monitoring

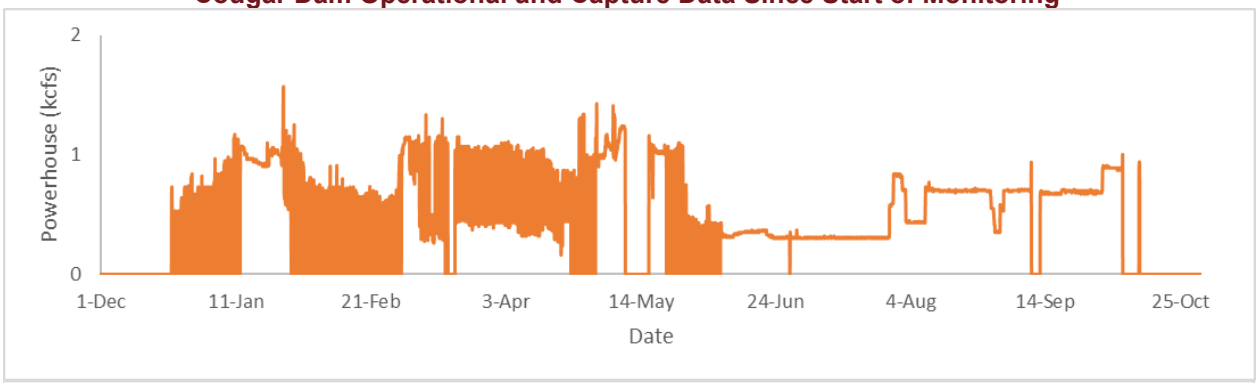


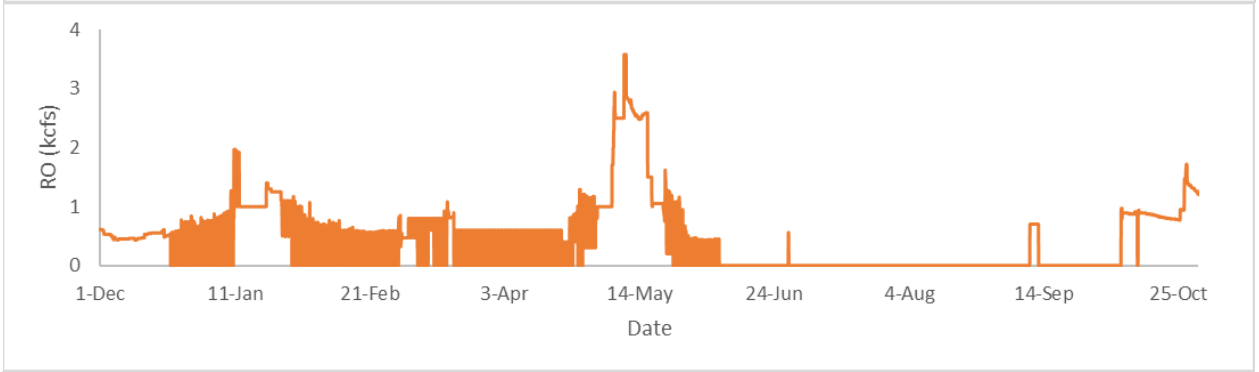
South Santiam River Above Foster Dam Discharge and Foster Dam Head of Reservoir Capture Data

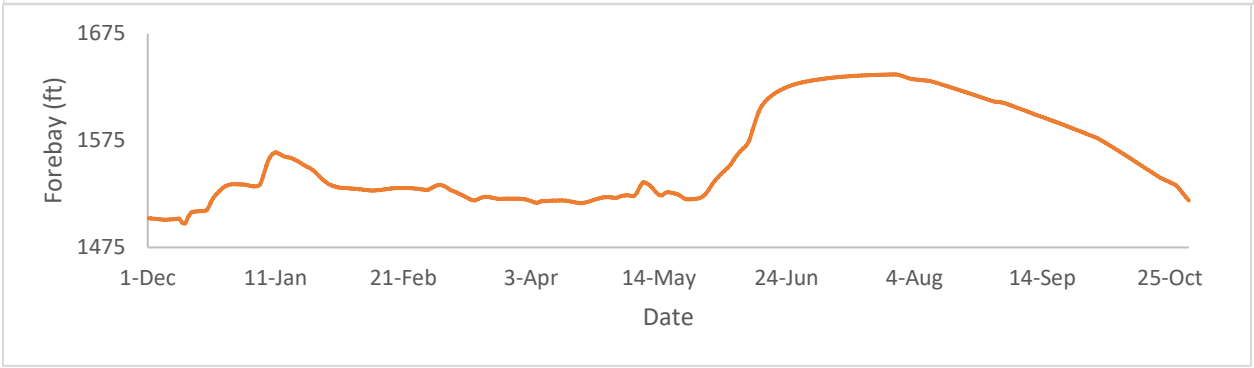


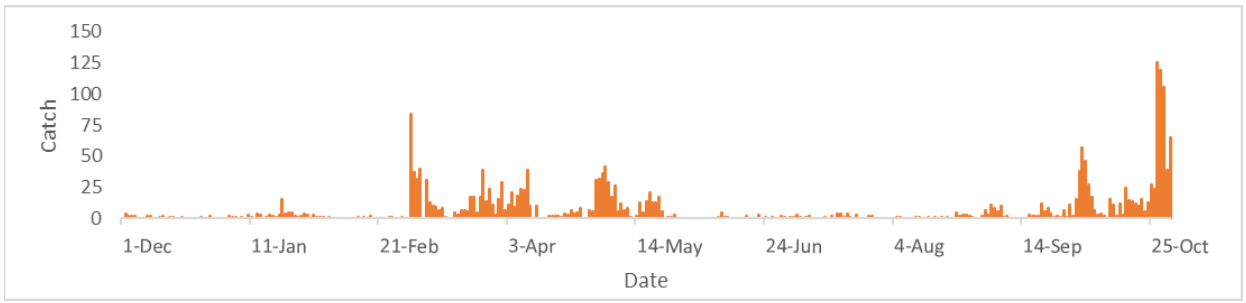


Cougar Dam Operational and Capture Data Since Start of Monitoring

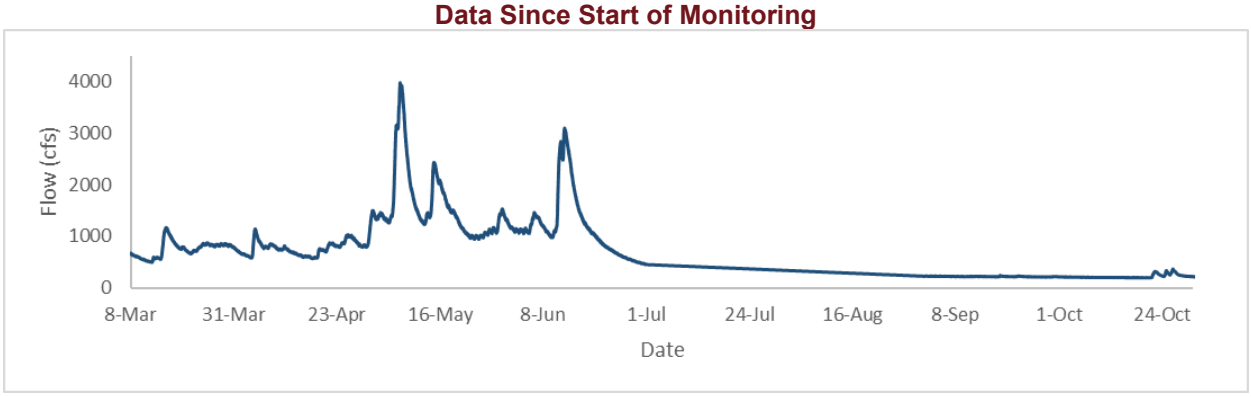




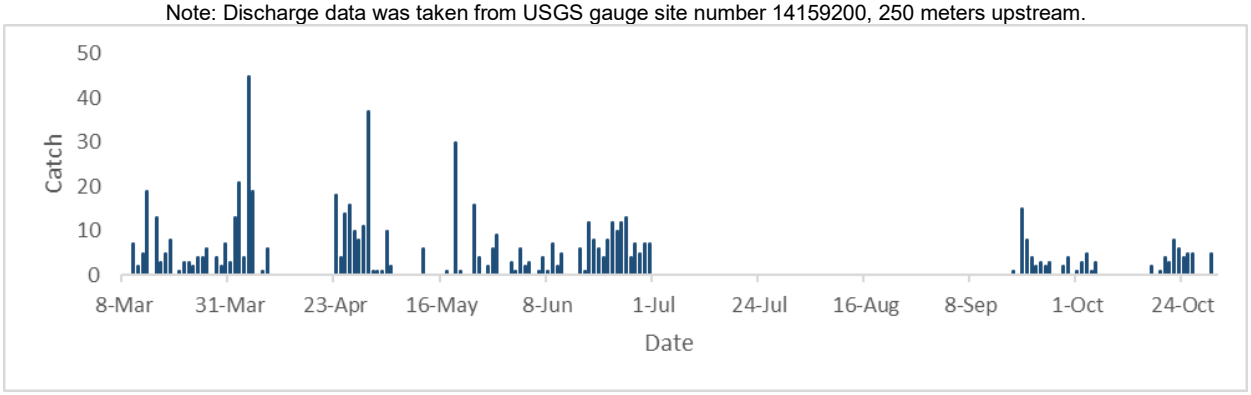




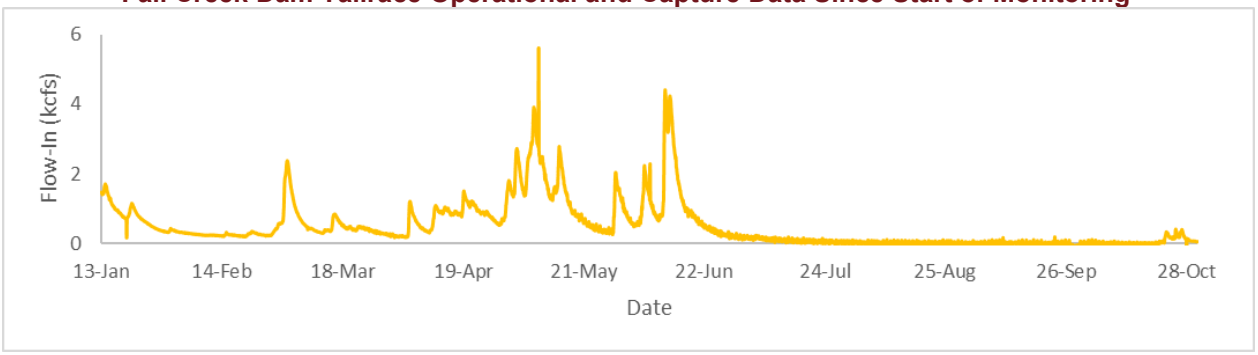
South Fork McKenzie above Cougar Dam Discharge and Cougar Dam Head of Reservoir Capture Data Since Start of Monitoring

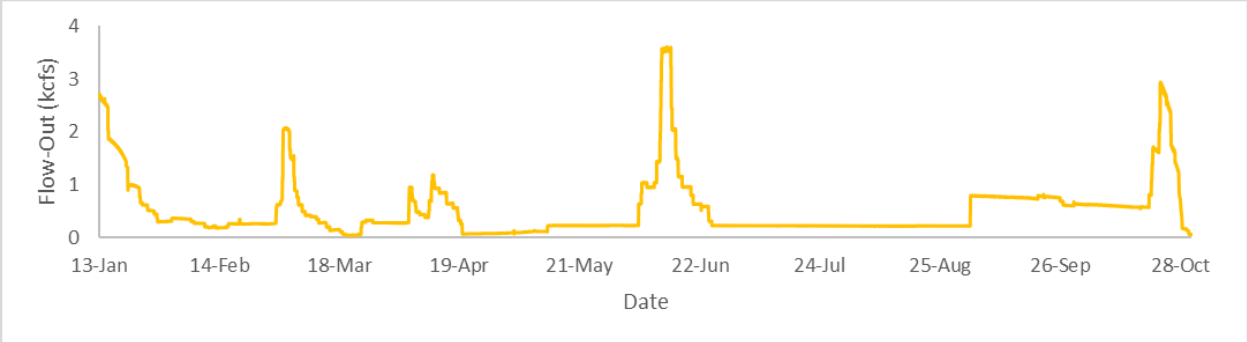


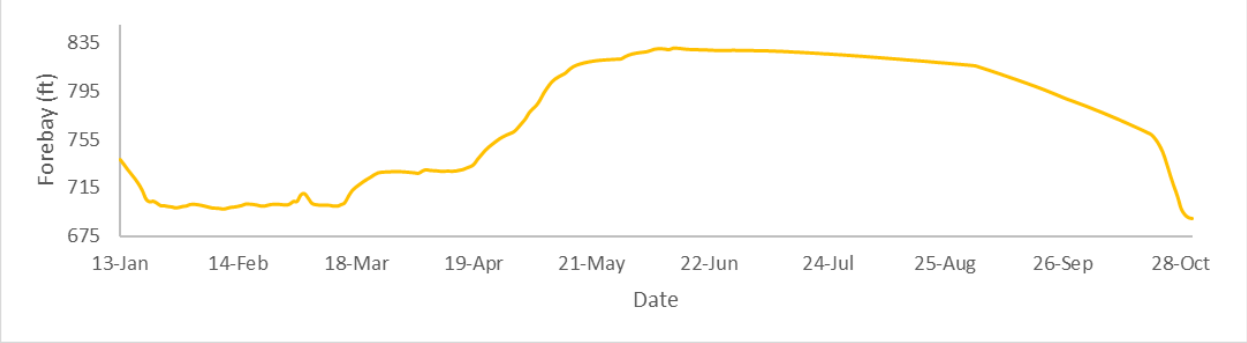
Note: Discharge data was taken from USGS gauge site number 14159200, 250 meters upstream.



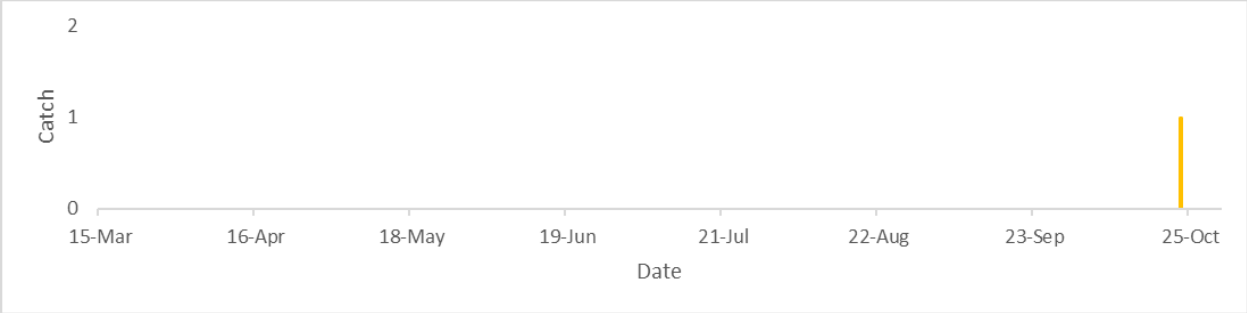
Fall Creek Dam Tailrace Operational and Capture Data Since Start of Monitoring



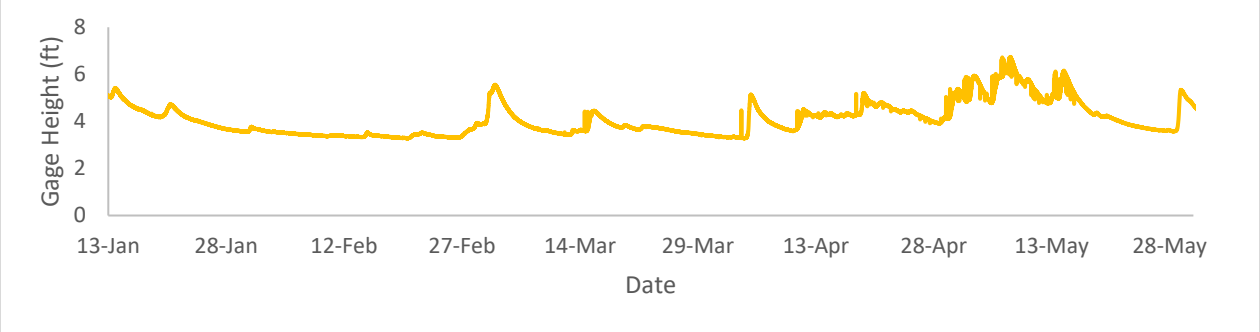




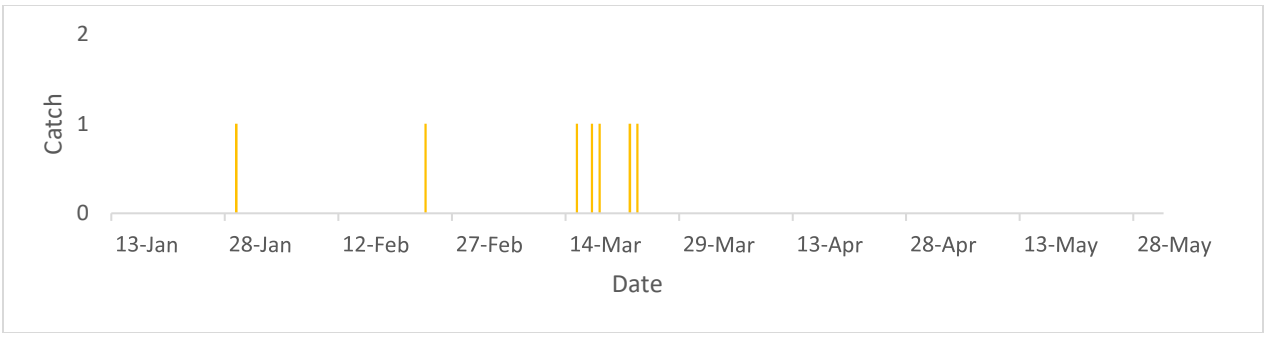
Note: Operational data was being tracked for Fall Creek Head of Reservoir site prior to initiation of Fall Creek Dam monitoring.



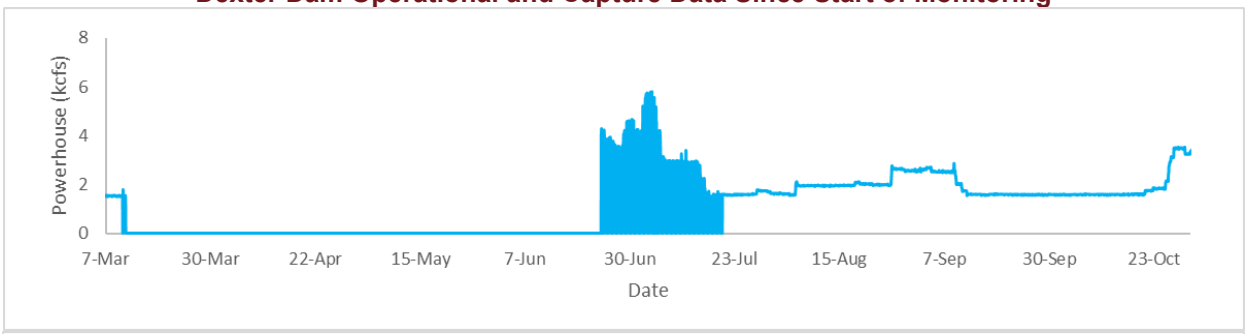
Fall Creek Head of Reservoir Operational and Capture Data Since Start of Monitoring

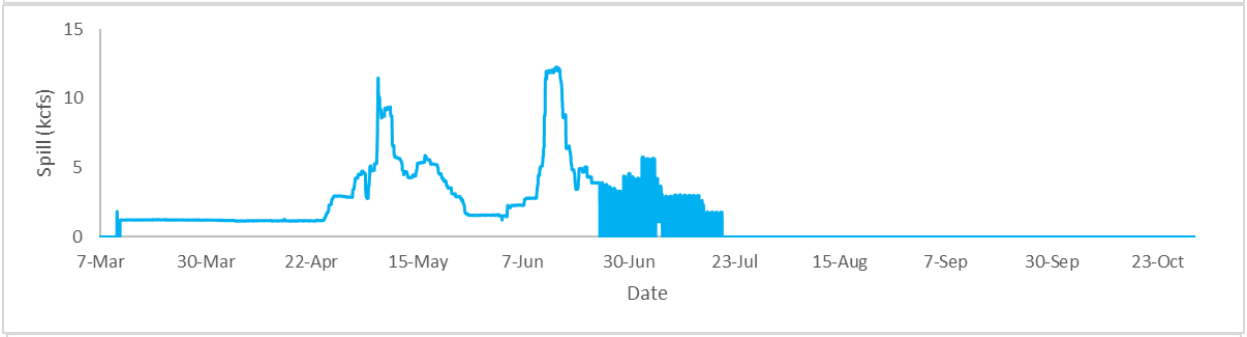


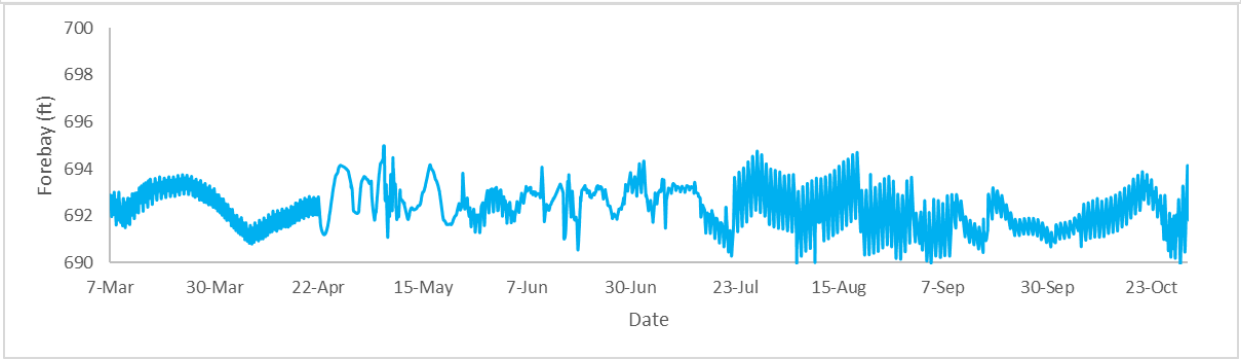
Note: Gauge height data was taken from USGS stream gauge number 14150290, 1.2 rkms downstream.

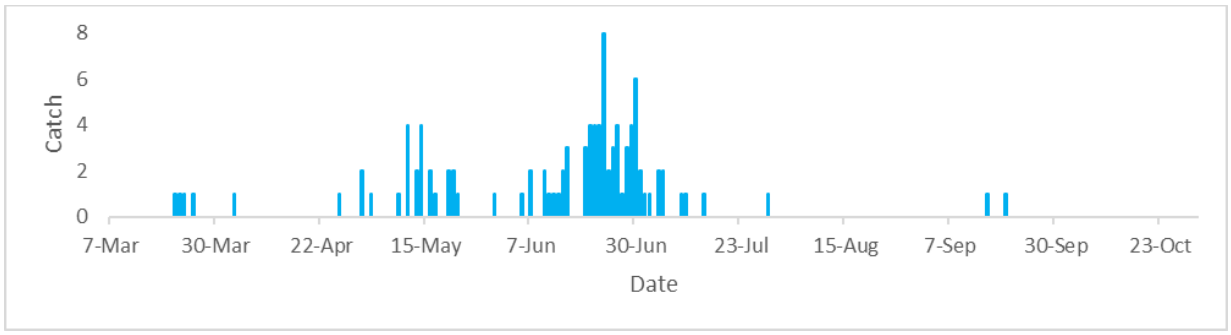


Dexter Dam Operational and Capture Data Since Start of Monitoring

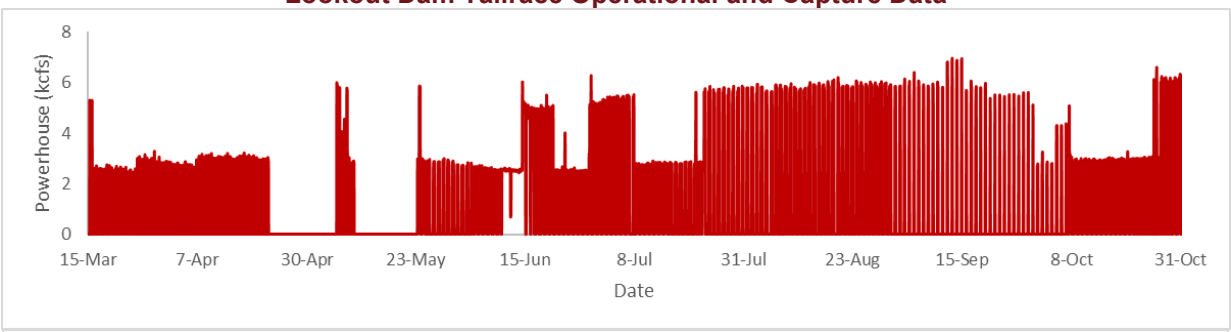


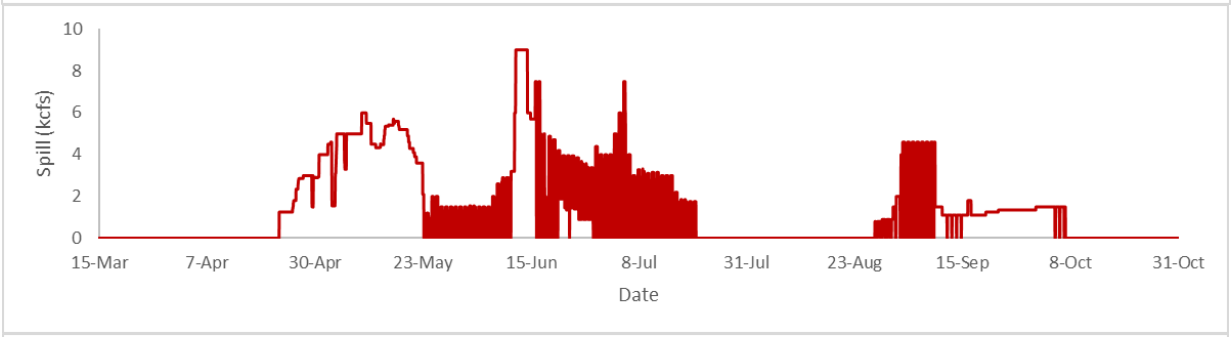


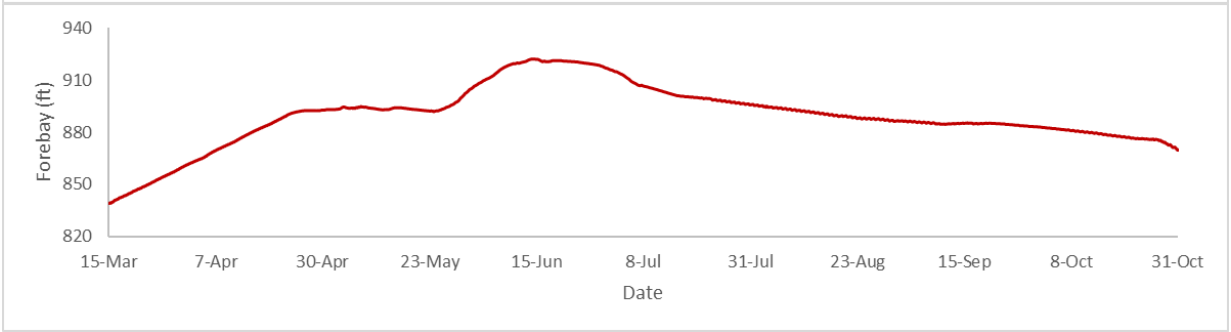


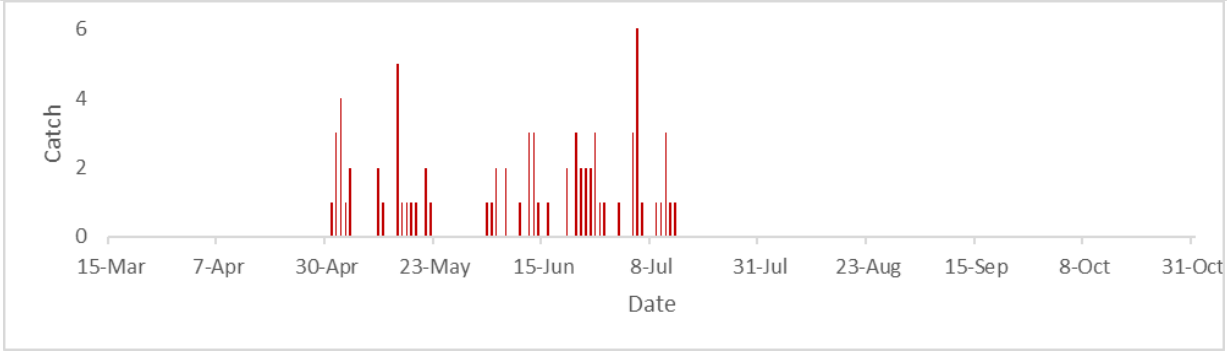


Lookout Dam Tailrace Operational and Capture Data

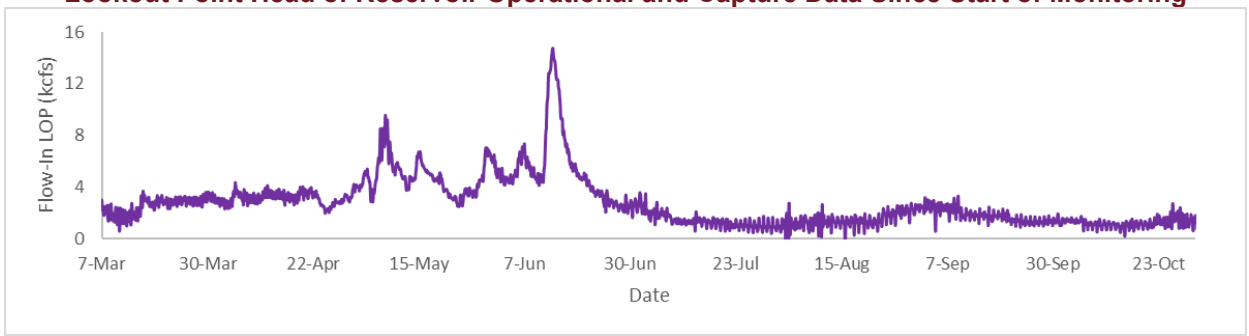


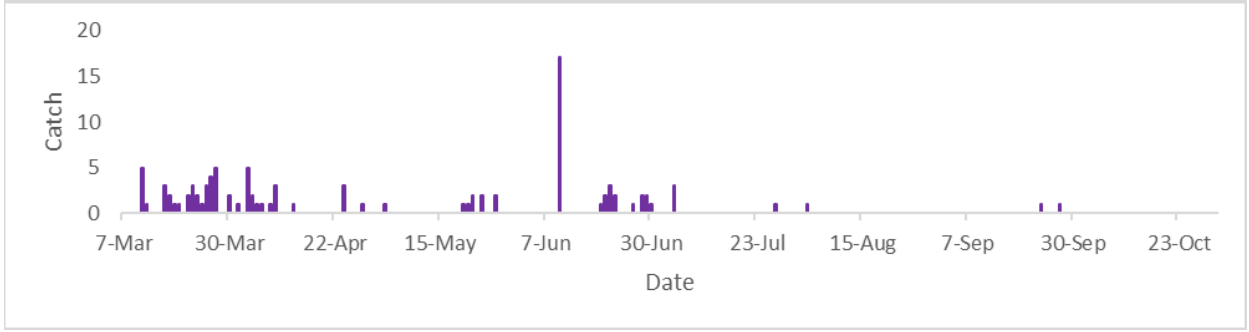




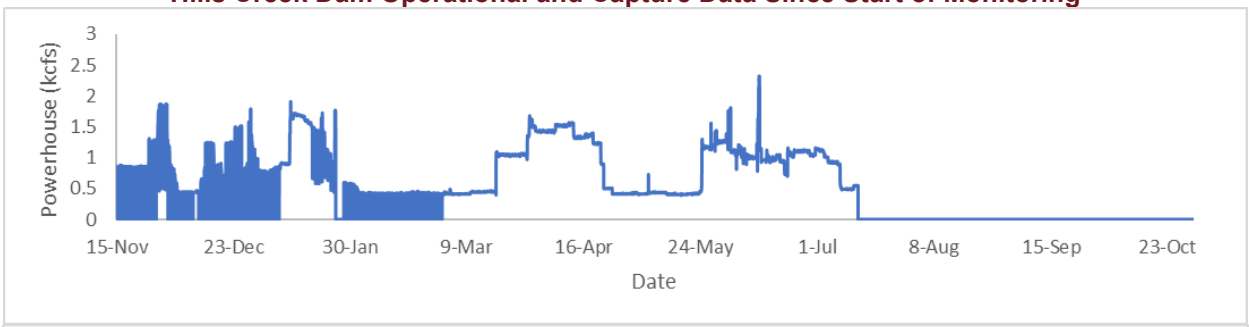


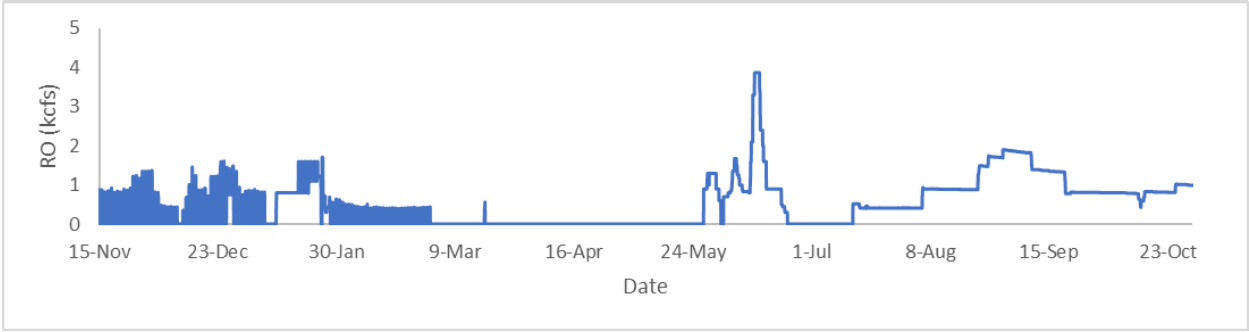
Lookout Point Head of Reservoir Operational and Capture Data Since Start of Monitoring

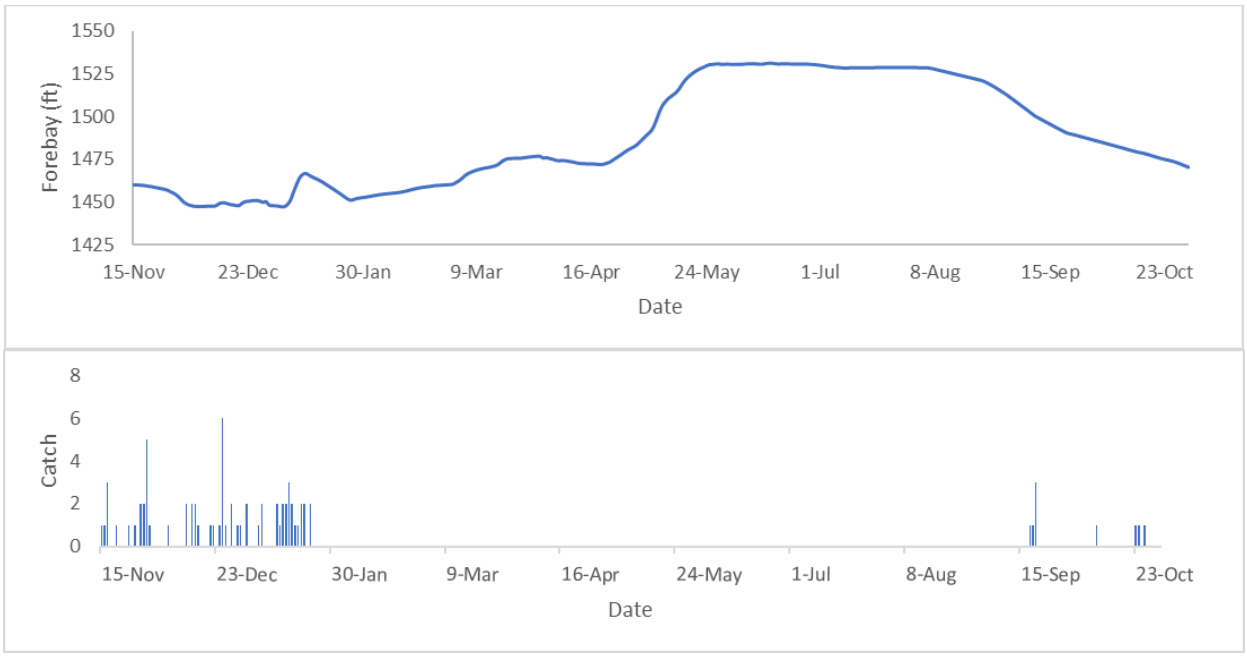




Hills Creek Dam Operational and Capture Data Since Start of Monitoring






1550
1525
1500
1475
1450
1425
Forebay (ft)
15-Nov
23-Dec
30-Jan
9-Mar
16-Apr
24-May
1-Jul
8-Aug
15-Sep
23-Oct
Date

8
6
4
2
0
Catch
15-Nov
23-Dec
30-Jan
9-Mar
16-Apr
24-May
1-Jul
8-Aug
15-Sep
23-Oct
Date

Appendix C

Hills Creek Trapping Efficiency 1/6/2022

Hills Creek Dam	Release #	Recapture #	Capture Efficiency
PH Route	596	20	3.36% (20/596)
RO Trap	RO Route-605	13	2.15% (13/605)
	PH Route-592	5	0.84% (5/592)

*Live fish captured at the PH trap are released just downstream of the PH trap, upstream of the RO trap and therefore retained in the capture efficiency estimates for the RO Trap if they arrive in the lower trap.
*Any dead fish captured at the PH trap are excluded from the RO trap capture efficiency estimate as they are not alive at time of re-release.

Cougar Dam	Release #	Recapture #	Capture Efficiency
PH Route	405	40	9.88% (40/405)
RO Route	410	28	6.83% (28/410)

Dexter Dam	Release #	Recapture #	Capture Efficiency
Spill	988	2	0.2% (2/988)
Powerhouse	N/A	N/A	N/A

Green Peter Dam Tailrace- Middle Santiam	Release #	Recapture #	Capture Efficiency
8ft Trap	643	4	0.62% (4/643)

Big Cliff Dam	Release #	Recapture #	Capture Efficiency
8ft Trap	996	40	4.01% (40/996)

Cougar Dam Head of Reservoir	Release #	Recapture #	Capture Efficiency
5ft trap	806	41	5.1% (41/806)

Cougar Dam Head of Reservoir	Release #	Recapture #	Capture Efficiency
5ft trap	515	7	1.4% (7/515)

Cougar Dam	Release #	Recapture #	Capture Efficiency
PH Route	357	62	17.37% (62/357)
RO Route	378	21	5.56% (21/378)

Dexter Dam	Release #	Recapture #	Capture Efficiency
Spill	1000	43	4.3% (43/1000)
Powerhouse	N/A	N/A	N/A

Lookout Point Head of Reservoir	Release #	Recapture #	Capture Efficiency
04/05/2022	993	53	5.3% (53/993)
04/14/2022	989	19	1.9% (19/989)

Fall Creek Dam	Release #	Recapture #	Capture Efficiency
RO	518	11	2.1% (11/518)

Fall Creek Dam	Release #	Recapture #	Capture Efficiency
RO	513	0	0% (0/513)

Cougar Dam	Release #	Recapture #	Capture Efficiency
RO Route	993	63	6.34% (63/993)

Dexter Dam	Release #	Recapture #	Capture Efficiency
Spill	1019	67	6.6% (67/1,019)
Powerhouse	N/A	N/A	N/A

Lookout Point Head of Reservoir	Release #	Recapture #	Capture Efficiency
05/24/2022	1007	125	12.4% (125/1007)

Big Cliff Dam	Release #	Recapture #	Capture Efficiency
8ft Trap	1000	21	2.1% (21/1000)

Cougar Dam	Release #	Recapture #	Capture Efficiency
PH Route	500	148	29.6% (148/500)

Cougar Dam Head of Reservoir	Release #	Recapture #	Capture Efficiency
5ft trap	551	56	10.2% (56/551)

Big Cliff Dam	Release #	Recapture #	Capture Efficiency
8ft Trap	1000	92	9.2% (92/1000)

Cougar Dam	Release #	Recapture #	Capture Efficiency
PH Route	501	31	6.2% (31/501)

Big Cliff Dam	Release #	Recapture #	Capture Efficiency
8 ft Trap	500	14	2.8% (14/500)

Foster Dam Head of Reservoir- South Santiam	Release #	Recapture #	Capture Efficiency
5 ft Trap	1063	0	0% (0/1063)

Dexter Dam	Release #	Recapture #	Capture Efficiency
Spill	N/A	N/A	N/A
Powerhouse	981	1	0.1% (1/981)

Lookout Point Head of Reservoir	Release #	Recapture #	Capture Efficiency

07/20/2022	1005	9	0.9% (9/1005)

Run of River Trapping Efficiency

Foster Dam Head of Reservoir-South Santiam To-Date	Release #	Recapture #
Chinook	15	0
Winter Steelhead	60	1

Cougar Dam 10/15/2022-10/31/2022	Release #	Recapture #
PH	126	8
RO	20	1

Appendix D

Summary of Project PIT Tagged Fish for Reporting Period

Site	Trap	# of PIT Tagged Fish
Big Cliff Dam	8 ft	0
Foster Dam Head of Reservoir- South Santiam	5 ft	81
Cougar Dam	PWR	0
Cougar Dam	RO	301
Cougar Dam Head of Reservoir	5 ft	41
Green Peter Tailrace- Middle Santiam	8 ft	0
Dexter Dam Tailrace	5 ft	0
Lookout Point Head of Reservoir	5 ft	0
Lookout Dam Tailrace	Spill	0
Lookout Dam Tailrace	PWR	0
Hills Creek Dam Tailrace	PWR	0
Hills Creek Dam Tailrace	RO	0

To Date Summary of Captured Fish Containing PIT Tags

Site	Trap	PIT Tag #	Date	Species
Cougar Dam	RO	3DD.0077780789	1/8/2022	Chinook
Cougar Dam	RO	384.36F2B2C55F	1/14/2022	Chinook
Cougar Dam	PH	3DD.003DA4DC74	3/3/2022	Chinook
Cougar Dam	PH	3DD.003E14CA70	3/4/2022	Chinook
Cougar Dam	PH	384.36F2B2C5D2	3/4/2022	Chinook
Cougar Dam	PH	3DD.003E14CC20	3/5/2022	Chinook
Cougar Dam	PH	3DD.003E14C9D6	3/6/2022	Chinook
Cougar Dam	PH	3DD.003E14CD8D	3/8/2022	Chinook
Cougar Dam	RO	3DD.003BD59645	4/7/2022	Chinook
Cougar Dam	PH	3DD.003BD21883	7/23/2022	O. mykiss
Cougar Dam	PH	3DD.003BD21883	7/26/2022	O. mykiss
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1849	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE22CE	9/23/2022	Chinook

Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2AAF	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1885	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE24AD	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2293	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE26D4	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2422	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2AB1	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE227B	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE22B9	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE24D6	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE22B8	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE223A	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE18C0	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1965	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE224D	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE242B	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2464	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE244B	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2443	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE26F9	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2449	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2519	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2517	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2AF3	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE18D2	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE18E3	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE185B	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE223F	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE270D	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE16F5	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2284	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE175F	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2252	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE223B	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE240E	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE26D0	9/23/2022	Chinook

Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2253	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2489	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE244E	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE190D	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE18D8	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2AC4	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE176A	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1917	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2AEF	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE192E	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2266	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1916	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE16D7	9/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2216	9/24/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1741	9/24/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2AFB	9/24/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE16BC	9/25/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE26CC	9/27/2022	Chinook
Cougar Dam	PH	3DD.003BEE22C0	10/4/2022	Chinook
Cougar Dam	PH	3DD.003BEE2C55	10/7/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE192F	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE241F	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2711	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE26FE	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE18AA	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE22C8	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1933	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE224B	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2474	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE170A	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE16F8	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2291	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1953	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE226B	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1757	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2506	10/6/2022	Chinook

Cougar Dam Head of Reservoir	5 ft	3DD.003BEE225E	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE18D4	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1857	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2418	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE18B6	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2492	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE18EA	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE26BE	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE172B	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2713	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE26C4	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1706	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE18CA	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2AA7	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE18E2	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE18F0	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE26EA	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE176B	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1957	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE226D	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1901	10/6/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE18B5	10/7/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE16D3	10/7/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE16EC	10/7/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE186E	10/7/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE23FC	10/7/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1910	10/8/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE192B	10/9/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE16C5	10/10/2022	Chinook
Cougar Dam	RO	3DD.003BEE2494	10/26/2022	Chinook
Cougar Dam	RO	3DD.003BEE2482	10/26/2022	Chinook
Cougar Dam	RO	3DD.003BEE29DE	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE17FB	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE181A	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE242F	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE1837	10/29/2022	Chinook

Cougar Dam	RO	3DD.003BEE1828	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226D3	10/30/2022	Chinook
Cougar Dam	RO	3DD.003BEE29F6	10/30/2022	Chinook
Cougar Dam	RO	3DD.003BEE29FB	10/30/2022	Chinook
Cougar Dam	RO	3DD.003BD226A9	10/30/2022	Chinook
Cougar Dam	RO	3DD.003BD226D5	10/30/2022	Chinook
Cougar Dam	RO	3DD.003BD226DE	10/30/2022	Chinook
Cougar Dam	RO	3DD.003BEE29F2	10/30/2022	Chinook
Cougar Dam	RO	3DD.003BEE264C	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BEE2483	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BEE2213	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A13	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1928	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE24D7	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE26D4	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A19	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C5E	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C57	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C57	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A34	10/28/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	384.3515E4B149	10/16/2022	Bull Trout
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C4C	10/26/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE16FD	10/26/2022	Chinook
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1651	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1676	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE167B	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1678	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE167D	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1684	10/28/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1674	10/28/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE166C	10/28/2022	O. mykiss

Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1691	10/28/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE17F5	10/30/2022	O. mykiss

List of EAS PIT Tagged Fish for Reporting Period

Site	Trap	PIT Tag #	Date	Species
Cougar Dam	RO	3DD.003BEE1C99	10/22/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CCB	10/22/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CC3	10/22/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CD9	10/22/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CBC	10/22/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CDD	10/22/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CBD	10/22/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CBE	10/22/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CB3	10/22/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CAD	10/22/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CCE	10/22/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CEE	10/22/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CD1	10/22/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CE8	10/22/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C93	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C44	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C8A	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C30	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C40	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C77	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2558	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C60	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C8C	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C6B	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C50	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C59	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C7D	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C6F	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C6C	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C69	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C72	10/27/2022	Chinook

Cougar Dam	RO	3DD.003BEE2C38	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C51	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C70	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2504	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C3D	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C5E	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A13	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C4B	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C33	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C42	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A0B	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A19	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A05	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE29F1	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C3F	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C57	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C4D	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C88	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C7F	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C62	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C37	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C47	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C4A	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C65	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C89	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C84	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C74	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C7C	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C78	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C3C	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2C36	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A2F	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE29EA	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A38	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A35	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A22	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A3A	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE29ED	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A39	10/27/2022	Chinook

Cougar Dam	RO	3DD.003BEE2A0A	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A12	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A07	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE29E7	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A34	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A06	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A33	10/27/2022	Chinook
Cougar Dam	RO	3DD.003BEE29F2	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29FA	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A1F	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29DC	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29FE	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29EC	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29E6	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A10	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A21	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A28	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE181C	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29F4	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29DC	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A31	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A1C	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29FB	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29DF	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29EF	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A1B	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A26	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A09	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A02	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A08	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29F9	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A1A	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29EB	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A04	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29FF	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29DD	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29F6	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE29D8	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE2A01	10/29/2022	Chinook

Cougar Dam	RO	3DD.003BD226DC	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226C0	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226E1	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226C7	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226D3	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226DF	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226DE	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226D5	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226D0	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226E4	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226D7	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD2269B	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226E6	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226DA	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226C6	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226E9	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226AD	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226EC	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226DB	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226A8	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226CD	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226B9	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD22697	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226A9	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226BC	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226E5	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226A5	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226B6	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226BB	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226D6	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226D1	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226E8	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226C2	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226CE	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226CF	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226D4	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226E7	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226E0	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226BF	10/29/2022	Chinook

Cougar Dam	RO	3DD.003BD226D9	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226B3	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226EB	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226DD	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226D8	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226C5	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE26B5	10/29/2022	Chinook
Cougar Dam	RO	3DD.003B3326A1	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE26A4	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE26C9	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226C4	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD22689	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226EA	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226BE	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD22693	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BD226D2	10/29/2022	Chinook
Cougar Dam	RO	3DD.003BEE1806	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BEE1823	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BEE182F	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BEE1801	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BEE1829	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BEE17DE	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39720	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD3970A	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39749	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39721	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD3970E	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39760	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39746	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD3972D	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39768	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD3970B	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39725	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39728	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD3970C	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD3972C	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD3970F	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39719	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD3971A	10/31/2022	Chinook

Cougar Dam	RO	3DD.003BD3971D	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39734	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39727	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39752	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39709	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD3972B	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39713	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39714	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD3970D	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39716	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39706	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD3974B	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39708	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39723	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD3971E	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BD39707	10/31/2022	Chinook
Cougar Dam	RO	3DD.003BEE1C91	10/21/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CD0	10/21/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CAC	10/21/2022	Chinook
Cougar Dam	RO	3DD.003BEE1C92	10/21/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CB9	10/21/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CB4	10/21/2022	Chinook
Cougar Dam	RO	3DD.003BEE1CE2	10/21/2022	Chinook
Cougar Dam	RO	3DD.003BEE1C9D	10/21/2022	Chinook
Cougar Dam	RO	3DD.003BEE166E	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE16A5	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1699	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE166F	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1681	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE168B	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE180E	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17F9	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17E1	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17EE	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17F4	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1809	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE181B	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17F2	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1825	10/28/2022	Chinook

Cougar Dam	RO	3DD.003BEE182C	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1822	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17EF	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE182D	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17FB	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17DD	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17FA	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE182A	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17E4	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1833	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1828	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1815	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17F6	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17ED	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1820	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1821	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE183E	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1831	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE182E	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17F3	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17E2	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17DC	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1812	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1810	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17FE	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1826	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1813	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE181F	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE183C	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1837	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1800	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17F7	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE183F	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1802	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1832	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE182B	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17FD	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17FF	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1803	10/28/2022	Chinook

Cougar Dam	RO	3DD.003BEE180C	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1808	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1835	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE181A	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1804	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1830	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17F8	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1839	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1838	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE180F	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17E9	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE183D	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE180B	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1818	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1824	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1827	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1819	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17FC	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17EA	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1814	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1807	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1811	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE180D	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17EB	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE181C	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1834	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17E7	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17E6	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17F0	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE1805	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17F1	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE183B	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE181D	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17DF	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE17E0	10/28/2022	Chinook
Cougar Dam	RO	3DD.003BEE183A	10/28/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE164F	10/17/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1692	10/17/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1CCC	10/19/2022	Chinook

Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C5F	10/20/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C6A	10/20/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C71	10/20/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C64	10/20/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1CD3	10/21/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1CA3	10/21/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1CC9	10/21/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1CA3	10/22/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1CC0	10/22/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1C9B	10/22/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1C96	10/22/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1C9A	10/22/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1CAF	10/22/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1CA0	10/22/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE1CA7	10/22/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C43	10/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C56	10/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C65	10/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C5C	10/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C5D	10/23/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C54	10/24/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C49	10/24/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C83	10/24/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C45	10/25/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C75	10/25/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C86	10/25/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C4C	10/25/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C87	10/25/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C67	10/26/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C91	10/26/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C32	10/26/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C5A	10/26/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BEE2C61	10/26/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BD226BD	10/30/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BD226C1	10/30/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BD226E3	10/30/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BD226B8	10/30/2022	Chinook
Cougar Dam Head of Reservoir	5 ft	3DD.003BD226E2	10/30/2022	Chinook
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1661	10/23/2022	Chinook

Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1677	10/23/2022	Chinook
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1664	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE16AD	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE169E	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE169C	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1673	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE16A6	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1658	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1662	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1655	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1696	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE168D	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE16A4	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE16A0	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE167C	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1651	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1679	10/23/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE2C7E	10/24/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE166C	10/25/2022	Chinook
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE16A3	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1659	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE167D	10/25/2022	O. mykiss

Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1657	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1678	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE165B	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1685	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1676	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE167B	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE169B	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE164C	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE168F	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1656	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE16A8	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE164E	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE167A	10/25/2022	Chinook
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1694	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE16A2	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1686	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE16AE	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1665	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE166C	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1670	10/25/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1668	10/25/2022	Chinook
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1674	10/27/2022	O. mykiss

Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE16AF	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE167E	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1693	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1691	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE164D	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE166D	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE16AB	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1664	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE165D	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1653	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE167F	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1667	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1698	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE16AC	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE168E	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1684	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE165A	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1690	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1688	10/27/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE29E4	10/28/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE2A2C	10/28/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE2A16	10/28/2022	Chinook

Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE29EF	10/28/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE2A29	10/28/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE29D9	10/28/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE29DB	10/28/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE17E3	10/29/2022	Chinook
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1816	10/29/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE181E	10/29/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE17F5	10/29/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE17EC	10/29/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE17E5	10/29/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE180A	10/29/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1836	10/29/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE1817	10/30/2022	O. mykiss
Foster Dam Head of Reservoir- South Santiam River	5 ft	3DD.003BEE17E8	10/30/2022	O. mykiss