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Report March 1 to 15, 2025
Period:

Re: CRAMER FISH SCIENCES – WILLAMETTE VALLEY FISH PASSAGE MONITORING
VIA ROTARY SCREW TRAPS

Project Schedule

Table 1. Project Schedule

| Site | Task | Start | End | Days |
|---|---|------------------|------------------|------------|
| Breitenbush River | Operation | 2/01/2025 | 6/30/2025 | 150 |
| | Trap Install | 1/23/2025 | 1/23/2025 | 1 |
| | Trap Efficiency Trial (1,466 fish) | 2/26/2025 | 2/26/2025 | 1 |
| | Trap Efficiency Trial (750 fish) | 3/4/2025 | 3/4/2025 | 1 |
| | Trap Efficiency Trial (762 fish) | 3/12/2025 | 3/12/2025 | 1 |
| Detroit Head of Reservoir- North Santiam | Operation | 2/01/2025 | 6/30/2025 | 150 |
| | Trap Install | 1/25/2025 | 1/25/2025 | 1 |
| | Trap Efficiency Trial (827 fish) | 2/12/2025 | 2/12/2025 | 1 |
| | Trap Efficiency Trial (750 fish) | 3/4/2025 | 3/4/2025 | 1 |
| | Trap Efficiency Trial (750 fish) | 3/12/2025 | 3/12/2025 | 1 |
| Big Cliff Dam Tailrace | Operation | 1/01/2025 | 6/30/2025 | 180 |
| | Trap Efficiency Trial (500 fish) | 1/21/2025 | 1/21/2025 | 1 |
| | Trap Efficiency Trial (500 fish) | 2/12/2025 | 2/12/2025 | 1 |
| | Trap Efficiency Trial (2,543 fish) | 2/26/2025 | 2/26/2025 | 1 |
| | Trap Efficiency Trial (486 fish) | 3/4/2025 | 3/4/2025 | 1 |
| | Trap Efficiency Trial (772 fish) | 3/12/2025 | 3/12/2025 | 1 |
| Green Peter Head of Reservoir- Middle Santiam | Operation | 2/01/2025 | 6/30/2025 | 150 |
| | Trap Efficiency Trial (2,001 fish) | 2/10/2025 | 2/10/2025 | 1 |
| | Trap Efficiency Trial (2,002 fish) | 3/2/2025 | 3/2/2025 | 1 |
| | Trap Efficiency Trial (2,001 fish) | 3/9/2025 | 3/9/2025 | 1 |
| | Trap Efficiency Trial (2,900 dead fish) | 3/12/2025 | 3/12/2025 | 1 |
| Green Peter Dam Tailrace | Operation | 1/01/2025 | 6/30/2025 | 180 |
| | Trap Efficiency Trial (1,000 fish) | 1/21/2025 | 1/21/2025 | 1 |
| | Trap Efficiency Trial (1,997 fish) | 2/27/2025 | 2/27/2025 | 1 |
| | Trap Efficiency Trial (1,998 fish) | 3/5/2025 | 3/5/2025 | 1 |
| | Trap Efficiency Trial (5,858 dead fish) | 3/12/2025 | 3/12/2025 | 1 |
| Foster Dam Head of Reservoir- South Santiam | Operation | 2/01/2025 | 6/30/2025 | 150 |
| | Trap Install | 1/24/2025 | 1/24/2025 | 1 |
| | Trap Efficiency Trial (1,000 fish) | 2/3/2025 | 2/3/2025 | 1 |
| | Trap Efficiency Trial (2,000 fish) | 2/17/2025 | 2/17/2025 | 1 |
| | Trap Efficiency Trial (2,000 fish) | 3/3/2025 | 3/3/2025 | 1 |
| | Trap Efficiency Trial (2,000 fish) | 3/10/2025 | 3/10/2025 | 1 |

| Site | Task | Start | End | Days |
|---|--------------|-----------|-----------|------|
| Cougar Head of Reservoir | Operation | 2/01/2025 | 6/30/2025 | 150 |
| | Trap Install | 1/26/2025 | 1/26/2025 | 1 |
| Cougar Dam | Operation | 1/01/2025 | 6/30/2025 | 180 |
| Fall Creek Head of Reservoir | Operation | 1/01/2025 | 6/30/2025 | 180 |
| Fall Creek Dam Tailrace | Operation | 1/01/2025 | 7/15/2025 | 196 |
| Hills Creek Head of Reservoir- Middle Fork Willamette | Operation | 2/01/2025 | 6/30/2025 | 150 |
| | Trap Install | 1/21/2025 | 1/21/2025 | 1 |
| Hills Creek Dam Tailrace | Operation | 1/01/2025 | 6/30/2025 | 180 |
| Lookout Point Head of Reservoir- Middle Fork Willamette | Operation | 1/01/2025 | 6/30/2025 | 150 |
| Lookout Dam Tailrace | Operation | 1/1/2025 | 6/30/2025 | 150 |
| Dexter Dam Tailrace | Operation | 1/01/2025 | 6/30/2025 | 150 |

Table 2. Sampling Dates for Reporting Period

| Site | Sampling Period Start | Reporting Period Start | Reporting Period End | Days Sampled This Report | Total Days Sampled |
|---|-----------------------|------------------------|----------------------|--------------------------|--------------------|
| Breitenbush River | 2/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 54 |
| Detroit Head of Reservoir- North Santiam | 2/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 54 |
| Big Cliff Dam Tailrace | 1/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 75 |
| Green Peter Head of Reservoir- Middle Santiam | 2/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 37 |
| Green Peter Dam Tailrace | 1/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 58 |
| Foster Dam Head of Reservoir- South Santiam | 2/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 37 |
| Cougar Head of Reservoir | 2/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 36 |
| Cougar Dam Tailrace PH | 1/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 71 |
| Cougar Dam Tailrace RO | 1/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 72 |
| Fall Creek Head of Reservoir | 1/1/2025 | 3/1/2025 | 3/15/2025 | 14 | 59 |
| Fall Creek Dam Tailrace | 1/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 72 |
| Hills Creek Head of Reservoir- Middle Fork Willamette | 2/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 36 |
| Hills Creek Dam Tailrace PH | 1/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 72 |
| Hills Creek Dam Tailrace RO | 1/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 72 |
| Lookout Point Head of Reservoir- Middle Fork Willamette | 1/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 39 |
| Lookout Dam Tailrace PH | 1/1/2025 | 3/1/2025 | 3/15/2025 | 14 | 53 |
| Lookout Dam Tailrace Spill | 1/1/2025 | 3/1/2025 | 3/15/2025 | 14 | 53 |
| Dexter Dam Tailrace | 1/1/2025 | 3/1/2025 | 3/15/2025 | 15 | 70 |

Table 3. Willamette Valley Rotary Screw Trap Monitoring Catch Summary

| Site | Species | Catch (Reporting Period) | Recaptures (Reporting Period) | Total Catch |
|---|---------|--------------------------|-------------------------------|-------------|
| Breitenbush River | CHS | 1016 | 134 | 1702 |
| Breitenbush River | STW | 21 | 0 | 36 |
| Detroit Head of Reservoir- North Santiam | CHS | 2112 | 201 | 2678 |
| Detroit Head of Reservoir- North Santiam | STW | 9 | 0 | 11 |
| Big Cliff Dam Tailrace | CHS | 17 | 59 | 64 |
| Big Cliff Dam Tailrace | STW | 2 | 0 | 5 |
| Green Peter Head of Reservoir- Middle Santiam | CHS | 335 | 109 | 1420 |
| Green Peter Head of Reservoir- Middle Santiam | STW | 4 | 0 | 5 |
| Green Peter Dam Tailrace | CHS | 12 | 7 | 33 |

| | | | | |
|---|-----|----|----|-----|
| Green Peter Dam Tailrace | STW | 0 | 0 | 0 |
| Foster Dam Head of Reservoir- South Santiam | CHS | 5 | 44 | 126 |
| Foster Dam Head of Reservoir- South Santiam | STW | 15 | 0 | 28 |
| Cougar Head of Reservoir | CHS | 8 | 0 | 12 |
| Cougar Dam Tailrace | CHS | 33 | 0 | 62 |
| Fall Creek Head of Reservoir | CHS | 0 | 0 | 6 |
| Fall Creek Dam Tailrace | CHS | 0 | 0 | 17 |
| Hills Creek Head of Reservoir- Middle Fork Willamette | CHS | 0 | 0 | 0 |
| Hills Creek Dam Tailrace | CHS | 0 | 0 | 1 |
| Lookout Point Head of Reservoir- Middle Fork Willamette | CHS | 1 | 0 | 3 |
| Lookout Point Dam | CHS | 0 | 0 | 0 |
| Dexter Dam Tailrace | CHS | 0 | 0 | 0 |

Summary of Rotary Screw Trap Data

Rotary screw traps were operated at the following 15 locations: Breitenbush River, Detroit Head of Reservoir – North Santiam, Big Cliff Dam Tailrace, Green Peter Head of Reservoir – Middle Santiam, Green Peter Dam Tailrace, Foster Dam Head of Reservoir- South Santiam, Fall Creek Dam Tailrace, Cougar Dam Head of Reservoir, Cougar Dam Tailrace, Hills Creek Head of Reservoir- Lookout Point Head of Reservoir- Middle Fork Willamette, Lookout Dam Tailrace, and Dexter Dam Tailrace.

The RSTs located at Breitenbush River, Detroit Head of Reservoir – North Santiam, Green Peter Head of Reservoir – Middle Santiam, Foster Dam Head of Reservoir- South Santiam, Cougar Dam Head of Reservoir, and Hills Creek Head of Reservoir- Middle Fork Willamette resumed sampling on February 1st, 2025.

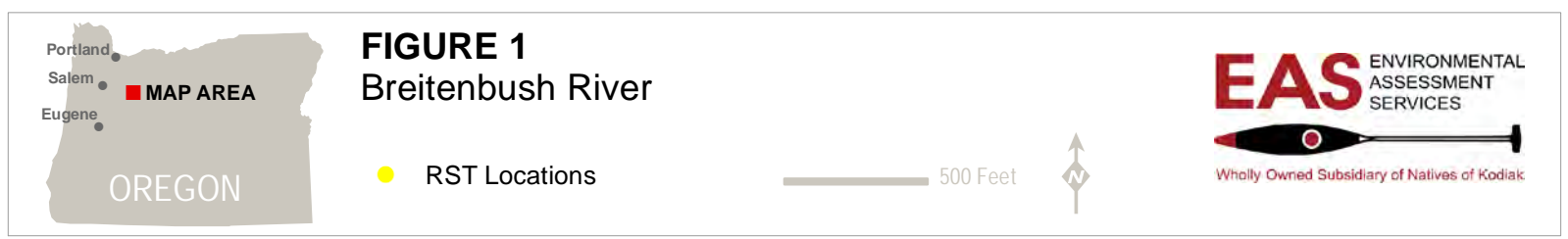
Winter Steelhead (*O. mykiss*) may be present in the Santiam Basin. All natural origin juvenile *O. mykiss* captured at these sites will be treated and reported as Winter Steelhead.

This report was written by Environmental Assessment Services, LLC (EAS) for Cramer Fish Sciences under contract W9127N19D0009. It contains season totals from data starting on January 1st, 2025 but incorporates operations from previous years sampled.

Sampling start dates are included in Table 2, and season total collection numbers are displayed in Table 3. The locations of the RSTs are depicted in Figure 1 through Figure 15.



Imagery Source: 2022, ESRI.





Portland
Salem
Eugene

MAP AREA

OREGON

FIGURE 2

Detroit Head of Reservoir -
North Santiam Above Detroit

● RST Locations

500 Feet





Imagery Source: 2021, ESRI.



FIGURE 3
Big Cliff Dam Tailrace

● RST Locations

500 Feet





Imagery Source: 2022, ESRI.



FIGURE 4
Green Peter Head of Reservoir -
Middle Santiam River

● RST Locations

500 Feet





Portland
Salem
Eugene

OREGON

FIGURE 5
Green Peter Tailrace -
Middle Santiam River

● RST Locations

500 Feet





FIGURE 6
Foster Dam Head of Reservoir -
South Santiam River

● RST Locations

500 Feet





Imagery Source: 2020, NAIP.



FIGURE 7
Cougar Dam Head of Reservoir

● RST Locations

500 Feet





FIGURE 8
Cougar Dam Tailrace

● RST Locations

500 Feet





FIGURE 9
Fall Creek Head of Reservoir

● RST Locations

500 Feet





Imagery Source: 2021, ESRI.



FIGURE 10
Fall Creek Dam Tailrace

● RST Locations

500 Feet





FIGURE 11
Hills Creek Head of Reservoir -
Middle Fork Willamette Above Hills Creek

● RST Locations

500 Feet





FIGURE 12
Hills Creek Dam Tailrace

● RST Locations

500 Feet



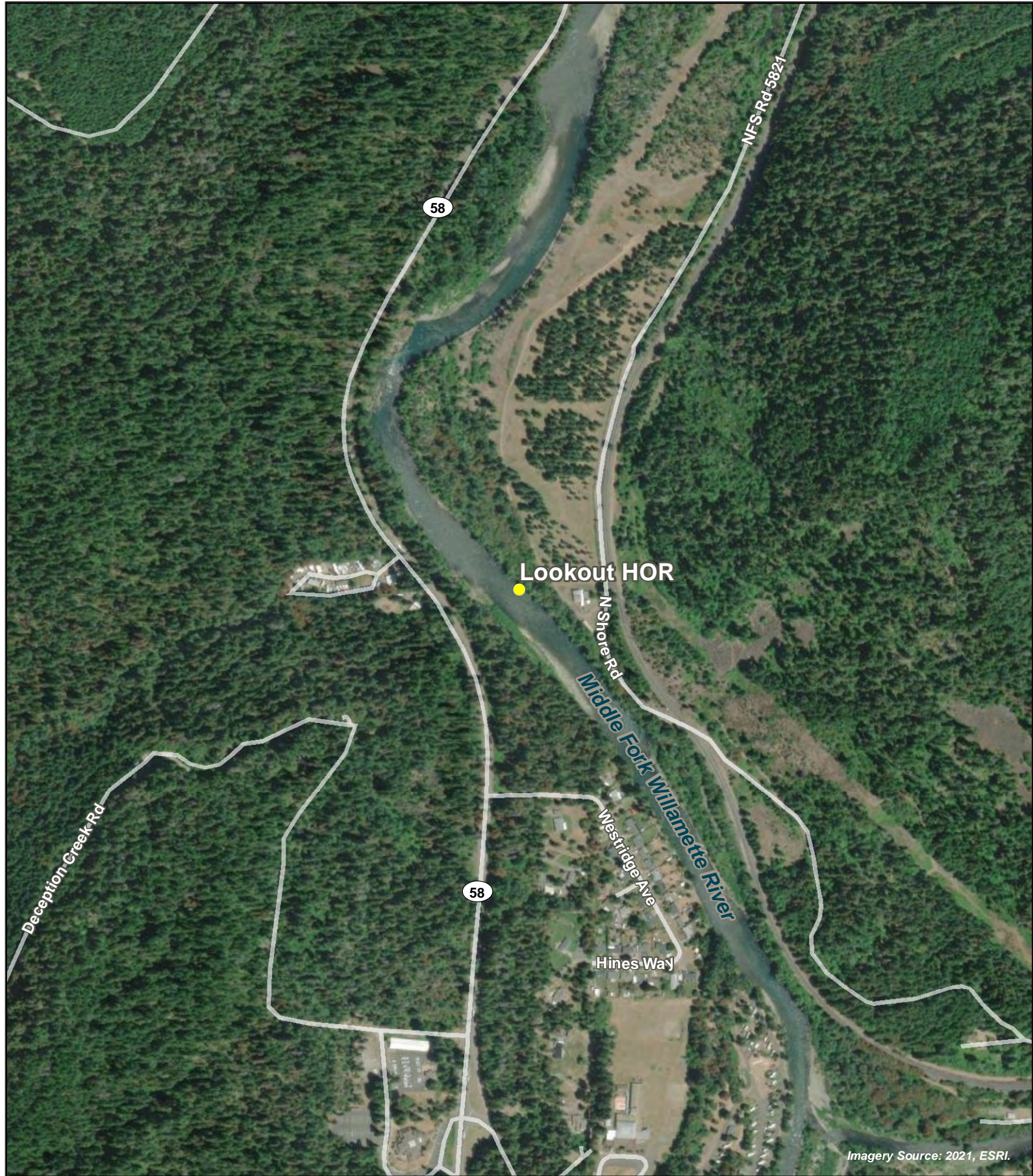


FIGURE 13
Lookout Point Head of Reservoir -
Middle Fork Willamette

● RST Locations

500 Feet





FIGURE 14
Lookout Dam Tailrace

● RST Locations

500 Feet





FIGURE 15
Dexter Dam Tailrace

- RST location prior to 11/6/2023
- ▲ RST location after 11/6/2023

500 Feet



Breitenbush River

The Breitenbush River RST was installed January 23rd, 2025 and began February 1st, 2025. All natural origin *O. mykiss* captured at this site will be reported as Winter Steelhead.

Target Species

There were a total of 1,016 Chinook Salmon (CHS), and 21 Winter Steelhead (STW) captured during the reporting period (Figure 16). Sampling duration was 100.0% of the reporting period for the 5ft RST. Figure 17 shows length frequency data to-date. Table 4 provides life stage, length, and weight data for all Chinook Salmon and Winter Steelhead that have been caught at the Breitenbush River site to-date and for the reporting period.

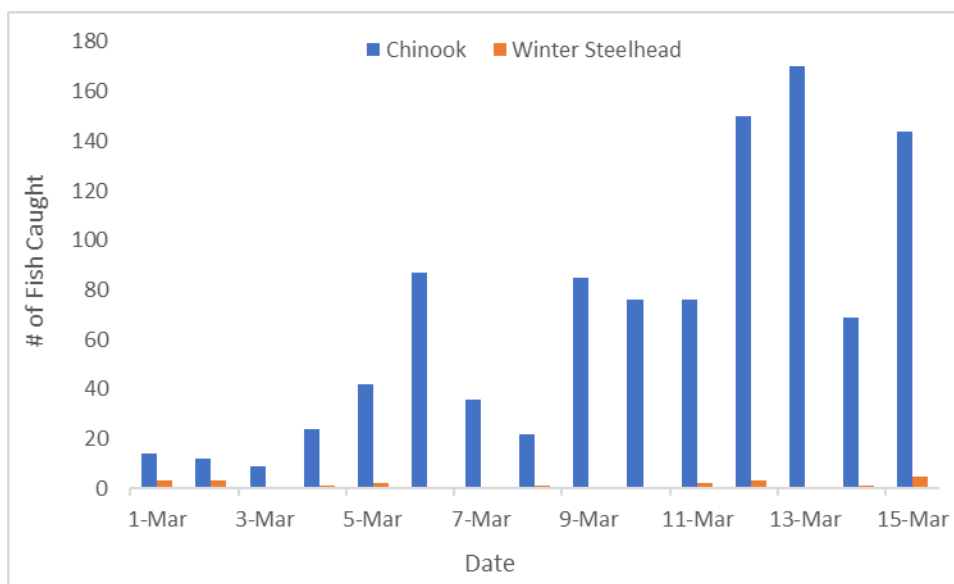


Figure 16. Chinook and Winter Steelhead Captured Per Day for the Reporting Period (Breitenbush River).

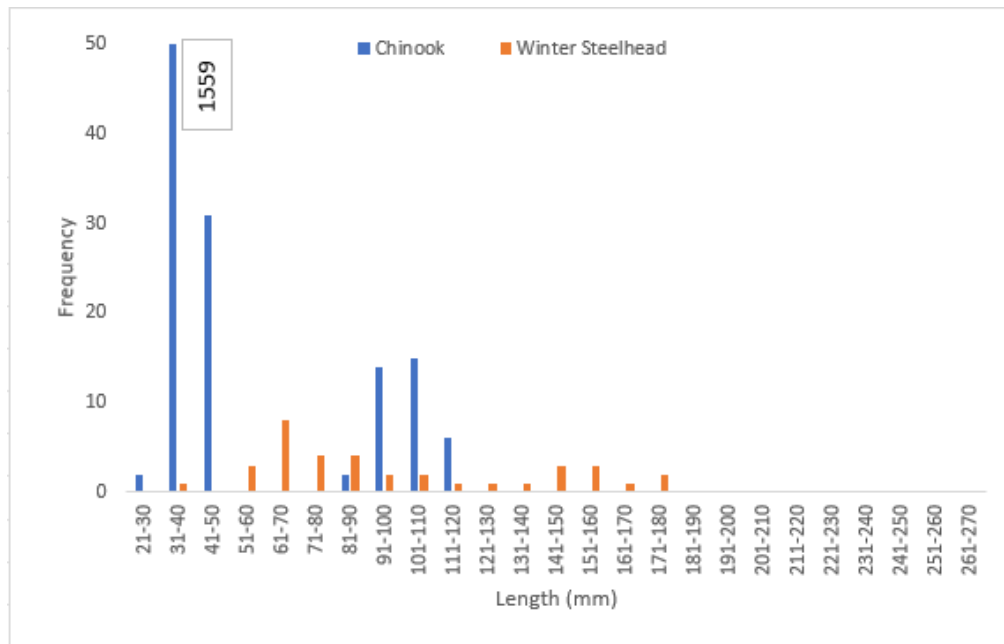


Figure 17. Length Frequency of Juvenile Chinook Sampled Season To-Date (Breitenbush River).

Table 4. Descriptive Statistics of Target Species Captured at the Breitenbush River To-Date.

| To-Date (Since February 1, 2025) | | | | | | | | | | |
|----------------------------------|-------|---------|------------|-----------|--------------|-----|-------|-------------|------|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Breitenbush River | 5ft | CHS | Fry | 1,665 | 30 | 42 | 36.5 | N/A | N/A | N/A |
| | | CHS | Parr | 15 | 85 | 112 | 98.5 | 6.1 | 14.1 | 9.5 |
| | | CHS | Smolt | 22 | 85 | 119 | 104.0 | 5.7 | 16.6 | 11.3 |
| | | STW | Fry | 2 | 37 | 51 | 44.0 | N/A | N/A | N/A |
| | | STW | Parr | 19 | 54 | 104 | 73.6 | 1.1 | 10.2 | 4.5 |
| | | STW | Smolt | 15 | 72 | 174 | 136.7 | 8.3 | 53.2 | 27.9 |

Fish that were missing heads or caudal fins are not included in length and weight calculations.

| Reporting Period | | | | | | | | | | |
|-------------------|-------|---------|------------|-----------|--------------|-----|-------|-------------|------|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Breitenbush River | 5ft | CHS | Fry | 1,008 | 30 | 41 | 36.1 | N/A | N/A | N/A |
| | | CHS | Parr | 2 | 85 | 96 | 90.5 | 6.1 | 8.2 | 7.2 |
| | | CHS | Smolt | 6 | 102 | 110 | 105.3 | 6.7 | 11.7 | 9.7 |
| | | STW | Fry | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | STW | Parr | 12 | 54 | 99 | 72.2 | 1.1 | 8.3 | 4.2 |
| | | STW | Smolt | 9 | 104 | 174 | 141.7 | 10.6 | 53.2 | 28.2 |

Fish that were missing heads or caudal fins are not included in length and weight calculations.

Trapping Efficiency

On 3/04/2025, 750 hatchery Chinook were released above the trap site to evaluate the trapping efficiency of the 5 ft RST. 11 fish were recaptured for an efficiency of 1.5%.

On 3/12/2025, 762 hatchery Chinook were released above the trap site to evaluate the trapping efficiency of the 5 ft RST. 123 fish were recaptured for an efficiency of 16.1% as detailed in Table 5.

Table 5. Hatchery Trapping Efficiency (Breitenbush River)

| Breitenbush River | Release # | Recapture # | Capture Efficiency |
|-------------------|-----------|-------------|--------------------|
| 5ft Trap | 750 | 11 | 1.5% |
| | 762 | 123 | 16.1% |

Run of River Trapping Efficiency

Run of river fish captured in the RST have been differentially marked and released upstream to perform run of river trapping efficiency trials. This year 386 Spring Chinook and 1 Winter Steelhead have been marked and released upstream for the purpose of conducting run of river trapping efficiency trials. Release numbers and recaptures for this reporting period are summarized below (Table 6).

Table 6. Run of River Trapping Efficiency (Breitenbush River).

| Breitenbush River | Release (Current Reporting Period) # | Recapture (Current Reporting Period) # |
|-------------------|--------------------------------------|--|
| Chinook | 0 | 0 |
| Winter Steelhead | 0 | 0 |

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon and Winter Steelhead during the reporting period is provided in Table 7, and target species injuries for the duration of the season are provided in Appendix A.

Table 7. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon and Winter Steelhead for Sampling Period (Breitenbush River).

| Species | # Fish Collected | # DSC* <20% | # DSC* >20% | # with Body Injuries | # with Eye Injuries | # with COP* In B.C. | # with COP* on Fins | Mortalities | GBD |
|------------------|------------------|-------------|-------------|----------------------|---------------------|---------------------|---------------------|-------------|-----|
| Chinook | 1,016 | 11 | 222 | 336 | 37 | 1 | 0 | 236 | 0 |
| Winter Steelhead | 21 | 7 | 1 | 13 | 0 | 0 | 0 | 1 | 0 |

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

Collected DNA and Scale Samples

DNA was collected from 8 Spring Chinook and 21 Winter Steelhead. Scale samples were collected from 8 Spring Chinook and 21 Winter Steelhead. The other targets captured did not meet length criteria for DNA sampling or were too descaled/damaged to collect samples.

PIT Tags

22 fish were PIT tagged during this reporting period, 6 Chinook and 16 Winter Steelhead. More information regarding PIT tagged fish can be found in Appendix D.

VIE Marking

A total of 445 Spring Chinook and 1 Winter Steelhead were VIE marked with fluorescent elastomer in 2025. VIE marking ceased on February 27, 2025. All captured fish are assessed for the presence of VIE marks. VIE tag color was changed every month to distinctly mark groups of fish by capture date. No fish with VIE marks have been detected at downstream RST sites to date. Fish still showing an egg sac were not VIE marked. Release numbers and recaptures for this reporting period are summarized below (Table 8).

Table 8. Summary of VIE Marked Fish (Breitenbush River)

| Month Tagged | Species | Tag Location | VIE Color | # Tagged | # Recaptured To-Date |
|---------------|------------------|--------------|-----------|----------|----------------------|
| February 2025 | Chinook | Head | Yellow | 445 | 15 |
| February 2025 | <i>O. mykiss</i> | Head | Yellow | 1 | 0 |

Non-Target Species

2 non-target fish were captured during this reporting period. A summary of non-target fish capture is provided in Table 9.

Table 9. Summary of Non-target Species (Breitenbush River).

| Species | 5 ft Capture | 5 ft Mortality | Season Total | Season Total Mortality |
|----------------------------|--------------|----------------|--------------|------------------------|
| Chinook (clipped) | 0 | 0 | 0 | 0 |
| Cutthroat Trout | 0 | 0 | 0 | 0 |
| Mountain Whitefish | 0 | 0 | 0 | 0 |
| <i>O. mykiss</i> (clipped) | 0 | 0 | 0 | 0 |
| Sculpin | 1 | 0 | 6 | 3 |
| Unknown Salmonid | 1 | 0 | 1 | 0 |
| Totals | 2 | 0 | 7 | 3 |

Stream Statistics

Basic stream statistics at the Breitenbush River RST site were calculated from data downloaded from the U.S. Geological Survey stream gage number 14179000. Instantaneous discharge (cfs) is displayed in Figure 18. Stream temperatures were recorded every 2 hours for the length of the reporting period (Figure 19). Catch per unit of effort (CPUE) data are summarized in Table 10. Gage height and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 10. Summary of salmonid CPUE, Breitenbush River.

| Description | Chinook (5 ft) | Winter Steelhead (5 ft) |
|----------------|----------------|-------------------------|
| Catch | 1016 | 21 |
| Effort (hrs) | 360.0 | 360.0 |
| CPUE (fish/hr) | 2.8 | 0.06 |

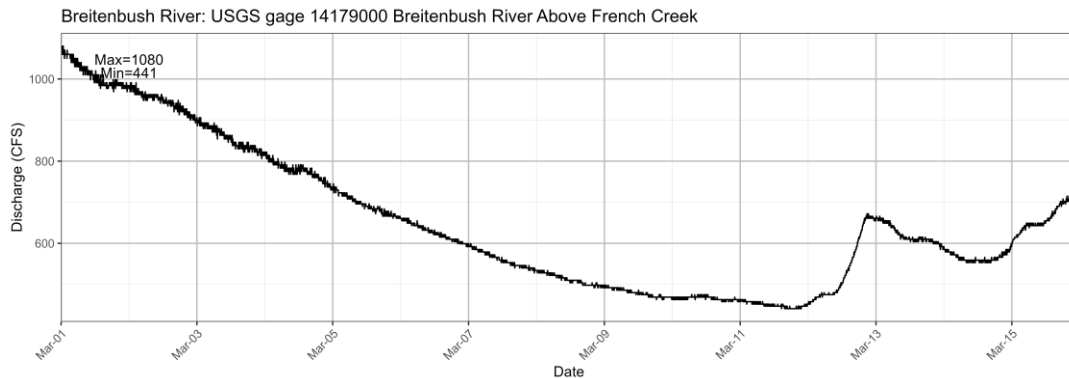
**Figure 18. Discharge (cfs); Breitenbush River.**



Figure 19. Temperature at RST (Breitenbush River).

North Santiam River – Detroit Head of Reservoir

The Detroit Head of Reservoir RST was installed January 25th, 2025 and began February 1st, 2025. All natural origin *O. mykiss* captured at this site will be reported as Winter Steelhead.

Target Species

There were a total of 2,112 Chinook Salmon (CHS), and 9 Winter Steelhead (STW) captured for the reporting period (Figure 20). Sampling duration was 100.0% of the reporting period for the 5ft RST. Figure 21 shows length frequency data to-date. Table 11 provides life stage, length, and weight data for all Chinook Salmon and Winter Steelhead that have been caught at the Detroit Head of Reservoir site to-date and for the reporting period.

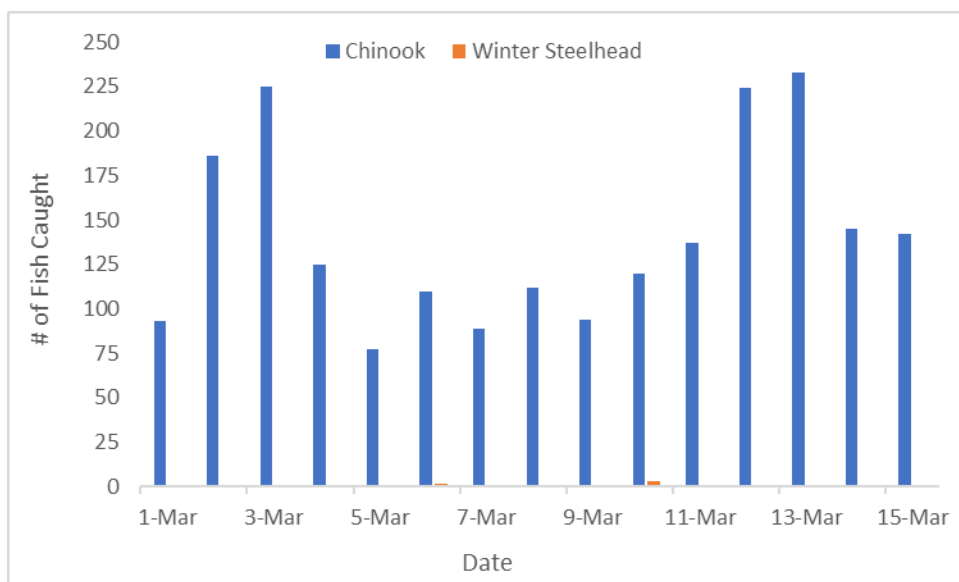


Figure 20. Chinook and Winter Steelhead Captured Per Day for the Reporting Period (Detroit Head of Reservoir).

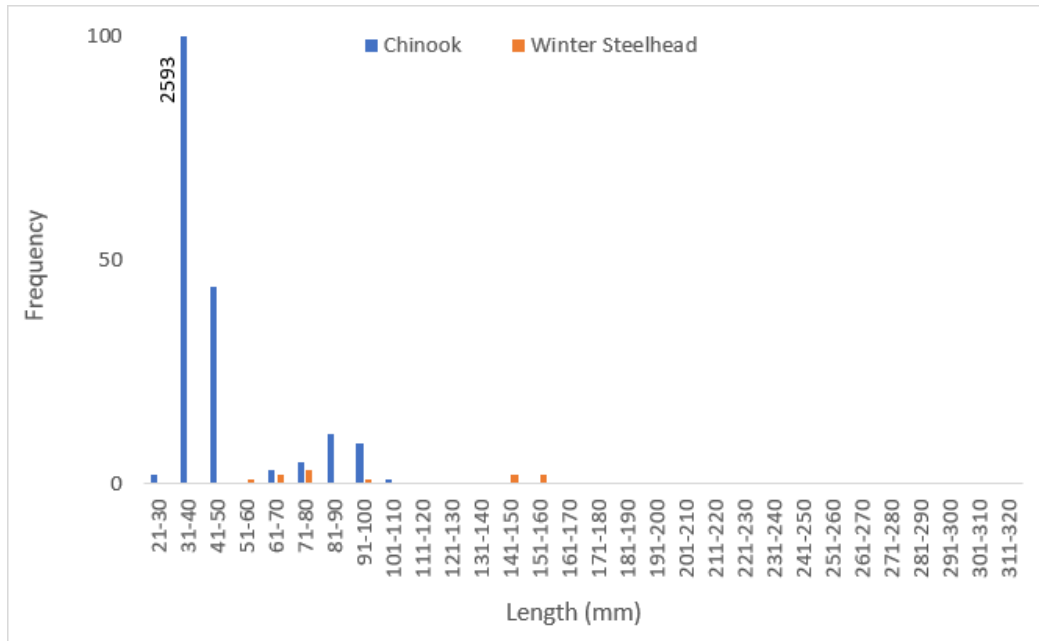


Figure 21. Length Frequency of Juvenile Chinook and Winter Steelhead Sampled Season To-Date (Detroit Head of Reservoir).

Table 11. Descriptive Statistics of Target Species Captured at Detroit Head of Reservoir Season To-Date.

| To-Date (Since February 1, 2025) | | | | | | | | | | |
|----------------------------------|-------|---------|------------|-----------|--------------|-----|-------|-------------|------|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Detroit HOR | 5ft | CHS | Fry | 2,647 | 27 | 42 | 36.8 | N/A | N/A | N/A |
| | | CHS | Parr | 22 | 65 | 97 | 84.3 | 3.5 | 9.6 | 6.5 |
| | | CHS | Smolt | 7 | 85 | 101 | 90.6 | 6.5 | 10.4 | 8.2 |
| | | STW | Fry | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | STW | Parr | 7 | 58 | 94 | 72.7 | 2.0 | 8.7 | 4.7 |
| | | STW | Smolt | 4 | 143 | 155 | 148.3 | 26.4 | 41.5 | 31.5 |

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

| Reporting Period | | | | | | | | | | |
|------------------|-------|---------|------------|-----------|--------------|-----|-------|-------------|------|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Detroit HOR | 5ft | CHS | Fry | 2,107 | 32 | 42 | 36.9 | N/A | N/A | N/A |
| | | CHS | Parr | 3 | 65 | 97 | 75.7 | 3.8 | 4.6 | 4.3 |
| | | CHS | Smolt | 2 | 85 | 101 | 93.0 | 6.5 | 10.1 | 8.3 |
| | | STW | Fry | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | STW | Parr | 6 | 58 | 94 | 72.2 | 2.0 | 8.7 | 4.6 |
| | | STW | Smolt | 3 | 144 | 155 | 150.0 | 26.4 | 41.5 | 32.1 |

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

Trapping Efficiency

On 3/04/2025, 750 hatchery Chinook were released above the trap site to evaluate the trapping efficiency of the 5 ft RST. 66 fish were recaptured for an efficiency of 8.8%.

On 3/12/2025, 750 hatchery Chinook were released above the trap site to evaluate the trapping efficiency of the 5 ft RST, 135 fish were recaptured for an efficiency of 18.0%, as detailed in Table 12.

Table 12. Hatchery Trapping Efficiency (Detroit Head of Reservoir).

| Detroit Head of Reservoir | Release # | Recapture # | Capture Efficiency |
|---------------------------|-----------|-------------|--------------------|
| 5-ft Trap | 750 | 66 | 8.8% |
| | 750 | 135 | 18.0% |

Run of River Trapping Efficiency

Run of river fish captured in the RST have been differentially marked and released upstream to perform run of river trapping efficiency trials. This year 197 Spring Chinook and 0 Winter Steelhead have been marked and released upstream for the purpose of conducting run of river trapping efficiency trials. Release numbers and recaptures for this reporting period are summarized below Table 13.

Table 13. Run of River Trapping Efficiency (Detroit Head of Reservoir).

| Detroit Head of Reservoir | Release (Current Reporting Period) # | Recapture (Current Reporting Period) # |
|---------------------------|--------------------------------------|--|
| Chinook | 0 | 0 |
| Winter Steelhead | 0 | 0 |

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon and Winter Steelhead during the reporting period is provided in Table 14, and target species injuries for the duration of the season are provided in Appendix A.

Table 14. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon and Winter Steelhead for Sampling Period (Detroit Head of Reservoir).

| Species | # Fish Collected | # DSC <20% | # DSC >20% | # with Body Injuries | # with Eye Injuries | # with COP In B.C. | # with COP on Fins | Mortalities | GBD |
|------------------|------------------|------------|------------|----------------------|---------------------|--------------------|--------------------|-------------|-----|
| Chinook | 2,112 | 31 | 41 | 124 | 13 | 0 | 0 | 66 | 0 |
| Winter Steelhead | 9 | 1 | 1 | 6 | 1 | 0 | 0 | 1 | 0 |

Collected DNA and Scale Samples

For the reporting period, DNA was collected from 5 Spring Chinook and 8 Winter Steelhead. Scale samples were collected from 5 Spring Chinook and 8 Winter Steelhead. The other targets captured did not meet length criteria for DNA sampling or were too descaled/damaged to collect samples.

PIT Tags

5 Spring Chinook and 6 Winter Steelhead were PIT tagged during this reporting period. More information regarding PIT tagged fish can be found in Appendix D.

VIE Marking

A total of 193 Spring Chinook and 0 Winter Steelhead were VIE marked with fluorescent elastomer in 2025. VIE marking ceased on February 27, 2025. All captured fish are assessed for presence of VIE but will not be marked with VIE. VIE tag color was changed every month to distinctly mark groups of fish by capture date. Fish still showing an egg sac were not VIE marked.

1 Chinook smolt with VIE RDO (right dorsal orange) was encountered at the Big Cliff Dam RST on 12/22/2024. This fish was tagged by EAS in May of 2024 at the Detroit Head of Reservoir RST. Release numbers and recaptures for this reporting period are summarized below (Table 15).

Table 15. Summary of VIE Marked Fish (Detroit Head of Reservoir).

| Month Tagged | Species | Tag Location | VIE Color | # Tagged | # Recaptured to Date |
|---------------|------------------|--------------|-----------|----------|----------------------|
| February 2025 | Chinook | Right Dorsal | Yellow | 193 | 1 |
| February 2025 | <i>O. mykiss</i> | Right Dorsal | Yellow | 0 | 0 |

Non-Target Species

61 non-target species were captured during this reporting period. A summary of non-target fish capture is provided in Table 16.

Table 16. Summary of Non-target Species (Detroit Head of Reservoir).

| Species | 5 ft Capture | 5 ft Mortality | Season Total | Season Total Mortality |
|----------------------------|--------------|----------------|--------------|------------------------|
| Chinook (clipped) | 4 | 0 | 15 | 0 |
| Cutthroat Trout | 0 | 0 | 0 | 0 |
| Dace | 0 | 0 | 0 | 0 |
| Kokanee Wild | 56 | 18 | 121 | 27 |
| Largescale Sucker | 0 | 0 | 0 | 0 |
| Mountain Whitefish | 0 | 0 | 0 | 0 |
| Northern Pikeminnow | 0 | 0 | 0 | 0 |
| <i>O. mykiss</i> (clipped) | 1 | 0 | 1 | 0 |
| <i>O. mykiss</i> (adult) | 0 | 0 | 0 | 0 |
| Sculpin | 0 | 0 | 4 | 0 |
| Unknown Salmonid | 0 | 0 | 1 | 1 |
| Unknown | 0 | 0 | 0 | 0 |
| Totals | 61 | 18 | 142 | 28 |

Stream Statistics

Basic stream statistics at the Detroit Head of Reservoir site were calculated from data downloaded from U.S. Geological Survey stream gage number 14178000. Discharge (cfs) metrics provided at gage 14178000 are displayed in Figure 22. Stream temperatures were recorded every 2 hours for the length of the reporting period at the Detroit Head of Reservoir RST site. Figure 23 shows temperature during the reporting period. Catch per unit of effort (CPUE) data are summarized in. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 17. Summary of salmonid CPUE, Detroit Head of Reservoir – North Santiam River.

| Description | Chinook (5 ft) | Winter Steelhead (5 ft) |
|----------------|----------------|-------------------------|
| Catch | 2112 | 9 |
| Effort (hrs) | 350.9 | 350.9 |
| CPUE (fish/hr) | 6.02 | 0.03 |

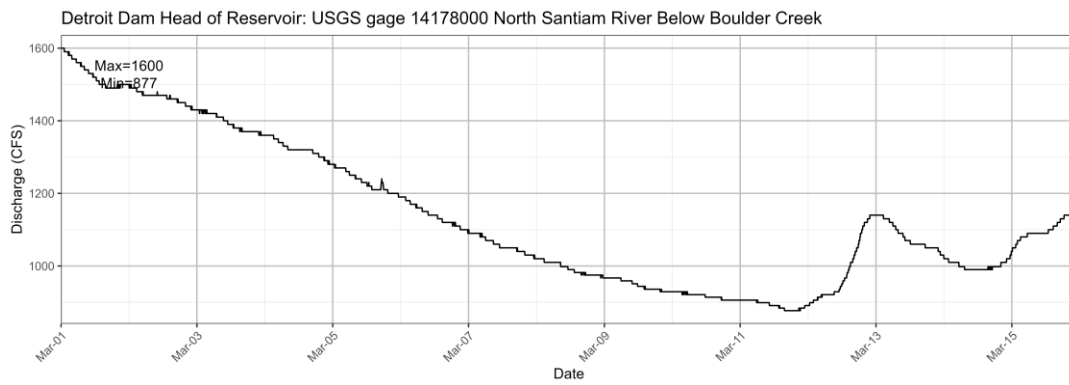


Figure 22. Discharge (cfs); Detroit Head of Reservoir – North Santiam River.

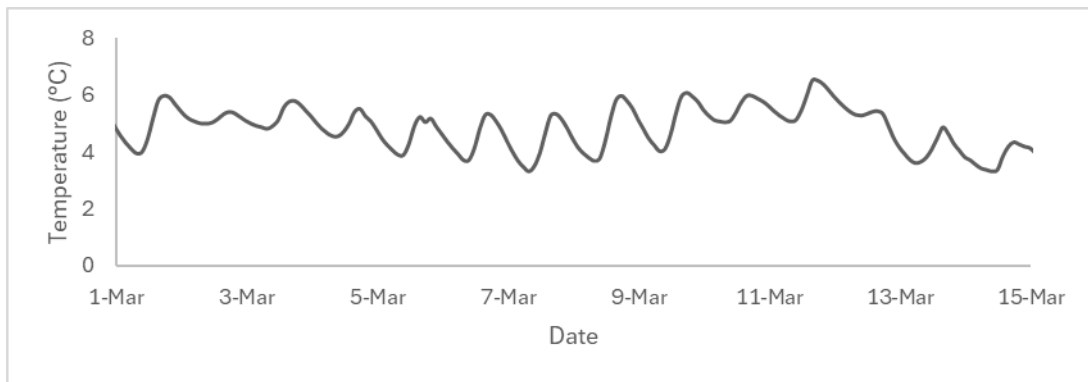


Figure 23. Temperature at RST (Detroit Head of Reservoir – North Santiam River).

North Santiam River – Big Cliff Dam Tailrace

The RST in the Big Cliff Dam Tailrace began sampling under contract W9127N19D0009 on October 16, 2023. Sampling at Big Cliff Dam Tailrace prior to October 16, 2023, was conducted by EAS for the USACE under contract W9127N19D0007.

Target Species

For the reporting period, there were a total of 17 Chinook Salmon (CHS), and 2 Winter Steelhead (STW) captured (Figure 24). Sampling duration was 100.0% for the 8 ft RST. Table 18 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 25 shows length frequency data to-date.

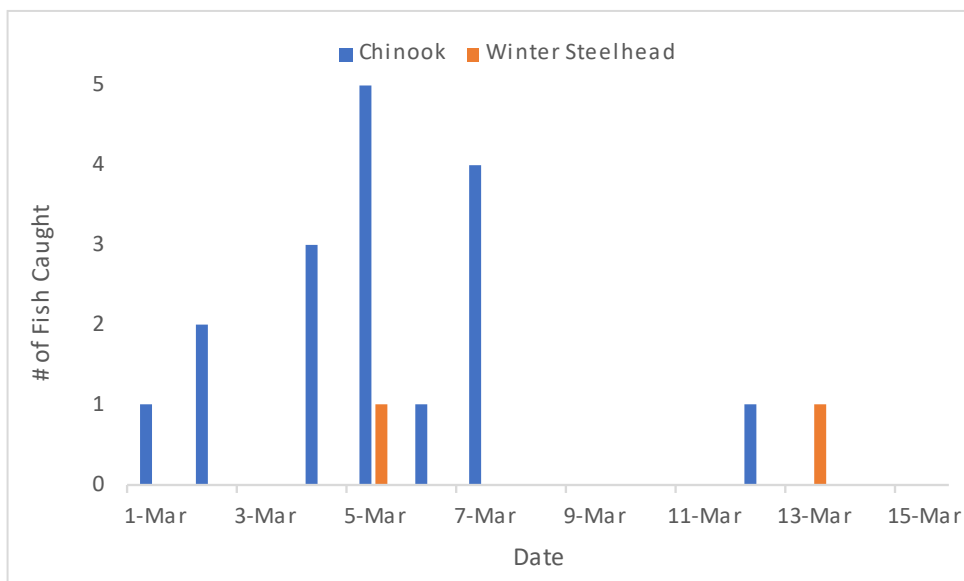
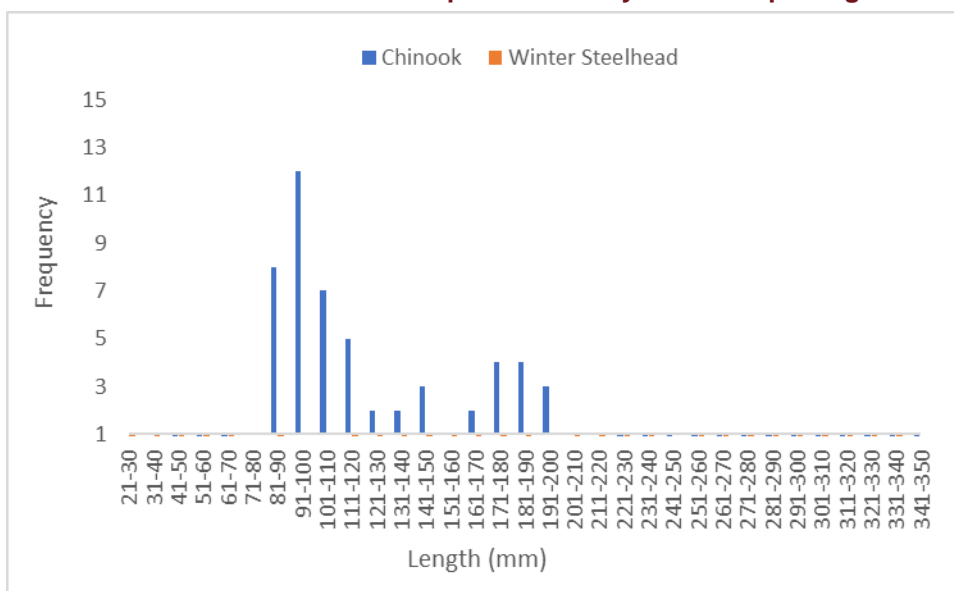


Figure 24. Chinook and Winter Steelhead Captured Per Day for the Reporting Period (Big Cliff).



**Figure does not include fish without heads*

Figure 25. Length Frequency of Juvenile Chinook and Winter Steelhead Sampled in 2025 (Big Cliff).

Table 18. Descriptive Statistics of Target Species Captured at Big Cliff Dam To-Date and for the reporting period.

| To-Date (Since Jan. 1, 2025) | | | | | | | | | | |
|------------------------------|------|---------|------------|-----------|--------------|-----|-------|-------------|-------|-------|
| Site | Trap | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Big Cliff | 8 ft | CHS | Fry | 4 | 27 | 36 | 29.5 | N/A | N/A | N/A |
| | | CHS | Parr | 13 | 79 | 107 | 92.5 | 4.6 | 9.2 | 7.1 |
| | | CHS | Smolt | 47 | 89 | 212 | 136.9 | 6.1 | 88.0 | 30.8 |
| | | STW | Fry | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | STW | Parr | 3 | 73 | 102 | 89.3 | 3.0 | 9.5 | 7.3 |
| | | STW | Smolt | 2 | 199 | 247 | 223.0 | 70.6 | 131.3 | 101.0 |

| Reporting Period | | | | | | | | | | |
|------------------|------|---------|------------|-----------|--------------|-----|-------|-------------|------|------|
| Site | Trap | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Big Cliff | 8 ft | CHS | Fry | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | CHS | Parr | 3 | 85 | 87 | 86.0 | 4.6 | 6.8 | 5.9 |
| | | CHS | Smolt | 14 | 89 | 154 | 118.5 | 6.1 | 37.8 | 18.0 |
| | | STW | Fry | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | STW | Parr | 1 | 73 | 73 | 73.0 | 3.0 | 3.0 | 3.0 |
| | | STW | Smolt | 1 | 199 | 199 | 199.0 | 70.6 | 70.6 | 70.6 |

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

Trapping Efficiency

On 3/04/2025, 486 hatchery Chinook were released below Big Cliff Dam. 8 fish were recaptured for an efficiency of 1.6%.

On 3/12/2025, 772 hatchery Chinook were released below Big Cliff Dam. 51 fish were recaptured for an efficiency of 6.6% as detailed in Table 19.

Table 19. Hatchery Trapping Efficiency (Big Cliff Dam)

| Big Cliff Dam | Release # | Recapture # | Capture Efficiency |
|---------------|-----------|-------------|--------------------|
| 8 ft | 486 | 8 | 1.6% |
| | 772 | 51 | 6.6% |

24-Hour Post Collection Holding Trial

13 Spring Chinook and 2 Winter Steelhead were captured during the current reporting period and held for ~24 hours. 0 Chinook (0.0%) and 0 Winter Steelhead (0.0%) died in holding.

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon and Winter Steelhead during the reporting period is provided in Table 20, and target species injuries for the duration of the season are provided in Appendix A.

Table 20. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon and Winter Steelhead for Sampling Period (Big Cliff Dam).

| Species | # Fish Collected | # DSC <20% | # DSC >20% | # with Bodily Injuries | # with Eye Injuries | # with COP In B.C. | # with COP on Fins | Mortalities | GBD |
|------------------|------------------|------------|------------|------------------------|---------------------|--------------------|--------------------|-------------|-----|
| Chinook | 17 | 11 | 4 | 12 | 4 | 10 | 8 | 4 | 1 |
| Winter Steelhead | 2 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 0 |

Collected DNA and Scale Samples

DNA was collected from 16 Spring Chinook and 2 Winter Steelhead for the reporting period. Scales were collected from 15 Spring Chinook and 2 Winter Steelhead. The other targets captured did not meet length criteria for DNA sampling or were too descaled/damaged to collect samples.

PIT Tags

0 Spring Chinook and 0 Winter Steelhead were PIT tagged during this reporting period. The first 60 target fish per week are prioritized for the 24-Hour Post Collection Holding Study. These fish are not tagged to not bias the results of the holding study. More information regarding PIT tagged fish can be found in Appendix D.

VIE Marking

1 Chinook with VIE RDO (right dorsal orange) was captured at the Big Cliff Dam RST on 12/22/2024. This fish was tagged in May 2024 at the Detroit Head of Reservoir RST. VIE marking at sites upstream of the Big Cliff Dam RST ceased on February 27, 2025. All captured fish are assessed for the presence of VIE marks.

Non-Target Species

27 non-target fish were captured during this sampling period. A summary of non-target species catch and mortality numbers for 2025 are listed in Table 21. Two of the clipped Chinook were from Bulk Mark Releases by Cramer Fish Sciences.

Table 21. Summary of Non-target Species (Big Cliff Dam).

| Species | 8 ft Capture | 8 ft Mortality | Season Total | Season Total Mortality |
|----------------------------|--------------|----------------|--------------|------------------------|
| Bluegill | 0 | 0 | 1 | 1 |
| Brown Bullhead | 0 | 0 | 0 | 0 |
| Dace | 0 | 0 | 0 | 0 |
| Chinook (Adult) | 0 | 0 | 0 | 0 |
| Chinook (clipped) | 9 | 2 | 13 | 2 |
| Coho | 1 | 0 | 1 | 0 |
| Cutthroat Trout | 0 | 0 | 0 | 0 |
| Kokanee | 12 | 5 | 32 | 12 |
| Kokanee (clipped) | 5 | 0 | 38 | 11 |
| <i>O. mykiss</i> (clipped) | 0 | 0 | 0 | 0 |
| <i>O. mykiss</i> (Adult) | 0 | 0 | 1 | 0 |
| Pumpkinseed | 0 | 0 | 0 | 0 |
| Mountain Whitefish | 0 | 0 | 1 | 1 |
| Sculpin | 0 | 0 | 0 | 0 |
| Unknown | 0 | 0 | 2 | 2 |
| Unknown Salmonid | 0 | 0 | 5 | 5 |
| Totals | 27 | 7 | 94 | 34 |

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 (Figure 26). Total dissolved gas (TDG) saturation data was received from gauge 14181500, 1 rkm downstream of the trap (Figure 27). Stream temperatures were recorded every 2 hours for the length of the reporting period at the RST (Figure 28). The temperature probe for the trap operated normally throughout this reporting period. Flows through the Powerhouse and Spill during the reporting period are displayed in Figure 29. Catch per unit of effort (CPUE) data are summarized in Table 22. Detroit

and Big Cliff forebay elevations and TDG at Niagara are shown in Appendix B. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 22. Summary of salmonid CPUE, Big Cliff Dam.

| Description | Chinook | Winter Steelhead |
|----------------|---------|------------------|
| Catch | 17 | 2 |
| Effort (hrs) | 354.9 | 354.9 |
| CPUE (fish/hr) | 0.05 | 0.006 |

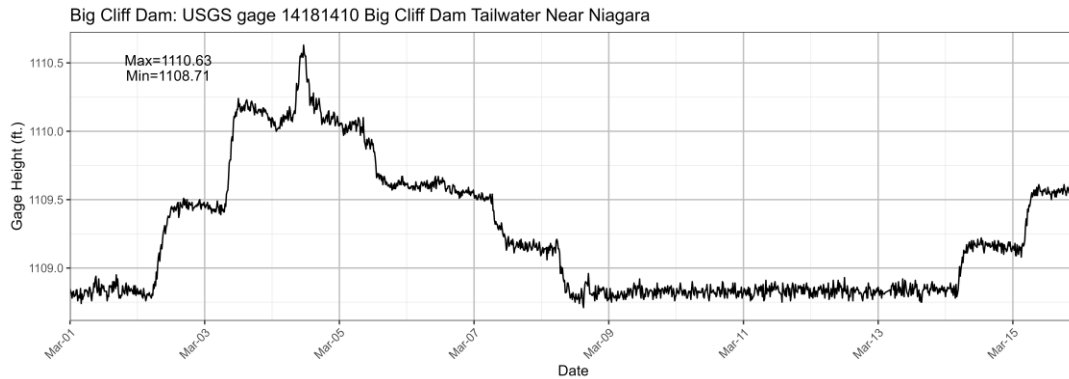


Figure 26. Gauge height (ft); below Big Cliff Dam.

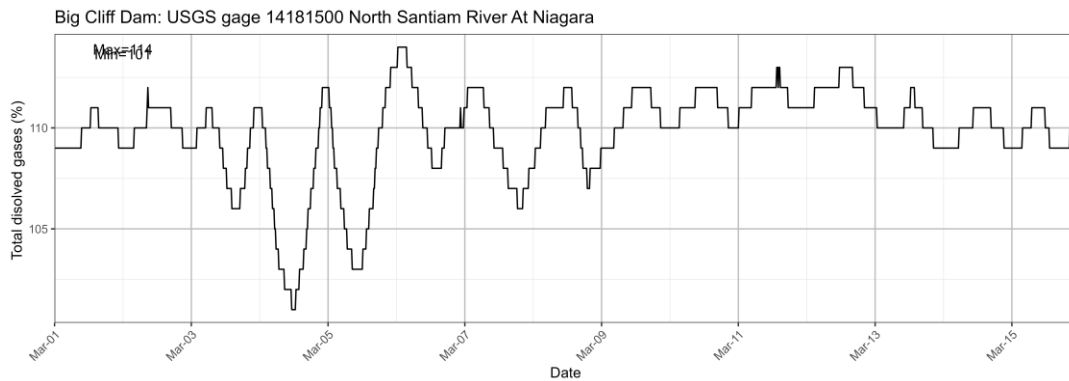


Figure 27. Total Dissolved Gas Saturation (%); below Big Cliff Dam.

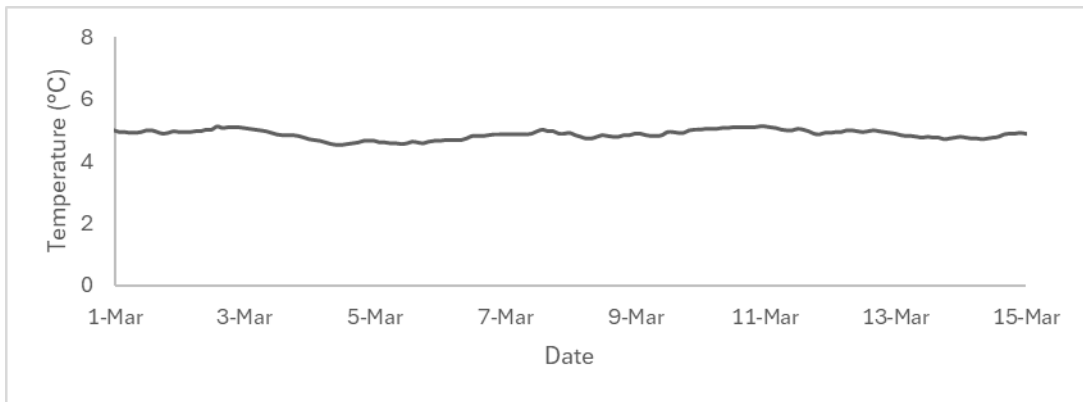


Figure 28. Temperature at RST (Big Cliff Dam).

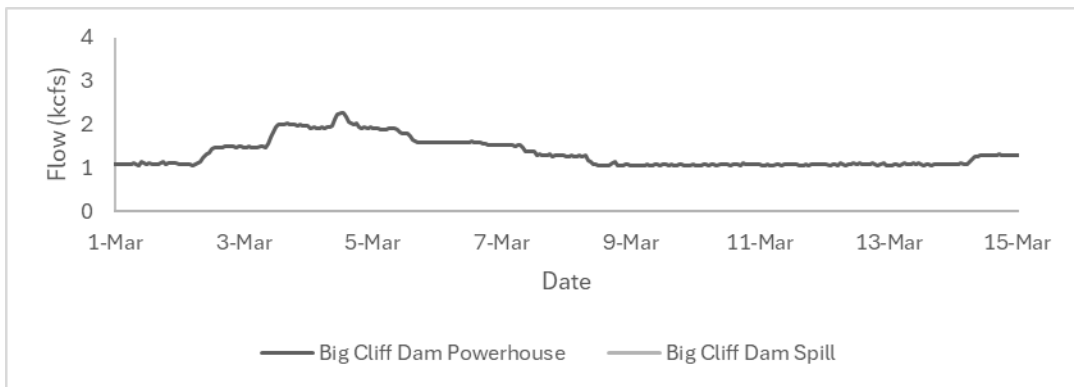


Figure 29. Hourly Flows PH vs. Spill (Big Cliff Dam).

Middle Santiam River – Green Peter Head of Reservoir

The Green Peter Head of Reservoir RST was deployed February 1st, 2025. All natural origin *O. mykiss* captured at this site will be reported as Winter Steelhead.

Target Species

There were a total of 335 Chinook Salmon (CHS), and 4 Winter Steelhead (STW) captured for the reporting period (Figure 30). Sampling duration was 100.0% of the reporting period for the 5ft RST. Figure 31 shows length frequency data to-date. Table 23 provides life stage, length, and weight data for all Chinook Salmon and Winter Steelhead that have been caught at the Middle Santiam River- Green Peter Head of Reservoir site to-date and for the reporting period.

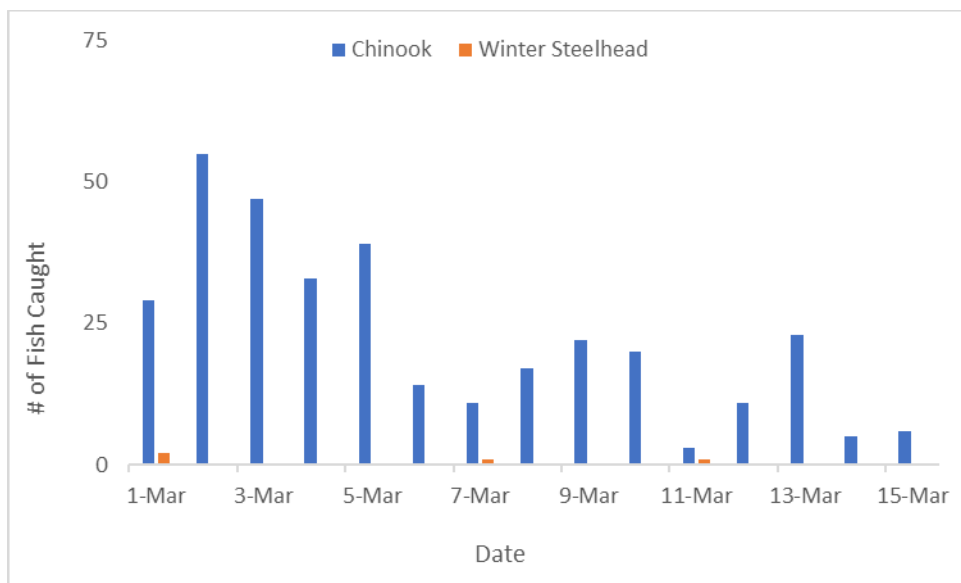


Figure 30. Chinook Captured Per Day for the Reporting Period (Green Peter Head of Reservoir – Middle Santiam River).

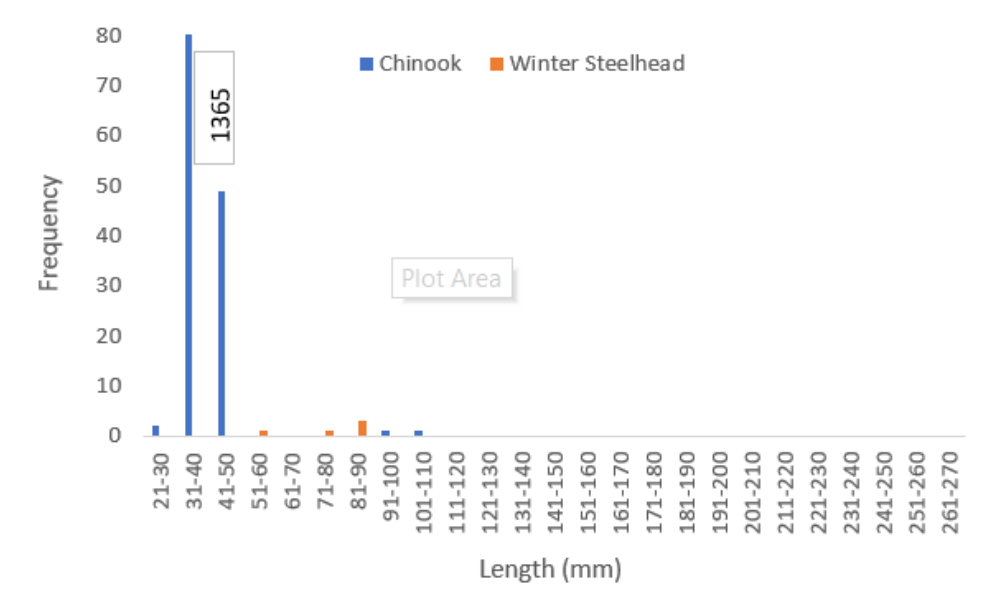


Figure 31. Length Frequency of Juvenile Chinook Sampled Season To-Date (Green Peter Head of Reservoir – Middle Santiam River).

Table 23. Descriptive Statistics of Target Species Captured at Green Peter Head of Reservoir – Middle Santiam River Season To-Date.

| To-Date (since February 1, 2025) | | | | | | | | | | |
|--|-------|---------|------------|-----------|--------------|-----|-------|-------------|------|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Green Peter Head of Reservoir-Middle Santiam | 5ft | CHS | Fry | 1,418 | 30 | 44 | 36.6 | N/A | N/A | N/A |
| | | CHS | Parr | 2 | 94 | 110 | 102.0 | 8.8 | 12.5 | 10.7 |
| | | CHS | Smolt | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | STW | Fry | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | STW | Parr | 5 | 57 | 89 | 76.4 | 3.6 | 8.3 | 5.6 |
| | | 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.

| Reporting Period | | | | | | | | | | |
|--|-------|---------|------------|-----------|--------------|-----|------|-------------|-----|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Green Peter Head of Reservoir-Middle Santiam | 5ft | CHS | Fry | 334 | 30 | 42 | 36.4 | N/A | N/A | N/A |
| | | CHS | Parr | 1 | 94 | 94 | 94.0 | 8.8 | 8.8 | 8.8 |
| | | CHS | Smolt | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | STW | Fry | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | STW | Parr | 4 | 57 | 89 | 75.0 | 3.6 | 8.3 | 5.6 |
| | | 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.

Trapping Efficiency

On 3/2/2025, 2,002 hatchery Chinook were released above the trap site to evaluate the trapping efficiency of the 5 ft RST. 6 fish were recaptured for an efficiency of 0.3%.

On 3/9/2025, 2,001 hatchery Chinook were released above the trap site to evaluate the trapping efficiency of the 5 ft RST. 23 fish were recaptured for an efficiency of 1.1%.

On 3/12/2025, 2,900 dead hatchery Chinook were released above the trap site to evaluate the trapping efficiency of the 5 ft RST. 0 fish were recaptured for an efficiency of 0.0%.

On 3/12/2025, 2,500 hatchery Chinook were released above the trap site to evaluate the trapping efficiency of the 5 ft RST. These fish were PIT tagged as part of a Cramer Fish Sciences Bulk Mark Release. 80 fish were recaptured for an efficiency of 3.2% as detailed in Table 24.

Table 24. Hatchery Trapping Efficiency (Green Peter Head of Reservoir).

| Green Peter Head of Reservoir- Middle Santiam River | Release # | Recapture # | Capture Efficiency |
|---|---------------|-------------|--------------------|
| 5-ft Trap | Alive (2,002) | 6 | 0.3% |
| | Alive (2,001) | 23 | 1.1% |
| | Dead (2,900) | 0 | 0.0% |
| | Alive (2,500) | 80 | 3.2% |

Run of River Trapping Efficiency

Run of river fish captured in the RST have been differentially marked and released upstream to perform run of river trapping efficiency trials. This year 579 Spring Chinook and 0 Winter Steelhead have been marked and released upstream for the purpose of conducting run of river trapping efficiency trials. Release numbers and recaptures for this reporting period are summarized below (Table 25).

Table 25. Run of River Trapping Efficiency (Green Peter Head of Reservoir).

| Green Peter Head of Reservoir | Release (Current Reporting Period) # | Recapture (Current Reporting Period) # |
|-------------------------------|--------------------------------------|--|
| Chinook | 0 | 0 |
| Winter Steelhead | 0 | 0 |

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon and Winter Steelhead during the reporting period is provided in Table 26, and target species injuries for the duration of the season are provided in Appendix A.

Table 26. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon and Winter Steelhead for Sampling Period (Green Peter Head of Reservoir-Middle Santiam River).

| Species | # Fish Collected | # DSC <20% | # DSC >20% | # with Body Injuries | # with Eye Injuries | # with COP In B.C. | # with COP on Fins | Mortalities | GBD |
|------------------|------------------|------------|------------|----------------------|---------------------|--------------------|--------------------|-------------|-----|
| Chinook | 335 | 2 | 6 | 26 | 0 | 0 | 0 | 8 | 0 |
| Winter Steelhead | 4 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |

Collected DNA and Scale Samples

For the reporting period, DNA was collected from 1 Spring Chinook and 4 Winter Steelhead. Scale samples were collected from 1 Spring Chinook and 4 Winter Steelhead. The other targets captured did not meet length criteria for DNA sampling or were too descaled/damaged to collect samples.

PIT Tags

1 Spring Chinook and 3 Winter Steelhead were PIT tagged during this reporting period. More information regarding PIT tagged fish can be found in Appendix D.

VIE Marking

A total of 781 Spring Chinook and 0 Winter Steelhead have been VIE marked with fluorescent elastomer in 2025. VIE marking ceased on February 27, 2025. All captured fish are assessed for presence of VIE marks. VIE tag color was changed every month to distinctly mark groups of fish by capture date. No fish with VIE marks have been detected at downstream RST sites to date. Fish still showing an egg sac were not VIE marked. Release numbers and recaptures for this reporting period are summarized below (Table 27).

Table 27. Summary of VIE Marked Fish (Green Peter Head of Reservoir).

| Month Tagged | Species | Tag Location | VIE Color | # Tagged | # Recaptured to Date |
|---------------|------------------|--------------|-----------|----------|----------------------|
| February 2025 | Chinook | Right Dorsal | Yellow | 781 | 2 |
| February 2025 | <i>O. mykiss</i> | Right Dorsal | Yellow | 0 | 0 |

Non-Target Species

6 non-target species were captured during this reporting period. A summary of non-target fish capture is provided in Table 28. Additionally, 80 adipose clipped and PIT tagged Chinook were encountered. These fish were dropped as part of a Cramer Fish Sciences Bulk Mark Release trial and used as a trapping efficiency trial.

Table 28. Summary of Non-target Species (Green Peter Head of Reservoir – Middle Santiam River).

| Species | 5 ft Capture | 5 ft Mortality | Season Total | Season Total Mortality |
|----------------------------|--------------|----------------|--------------|------------------------|
| Kokanee | 0 | 0 | 0 | 0 |
| Cutthroat Trout | 0 | 0 | 0 | 0 |
| Chinook (clipped) | 0 | 0 | 4 | 0 |
| <i>O. mykiss</i> (clipped) | 0 | 0 | 0 | 0 |
| Dace | 5 | 0 | 6 | 0 |
| Mountain Whitefish | 0 | 0 | 0 | 0 |
| Largescale Sucker | 0 | 0 | 0 | 0 |
| Sculpin | 1 | 0 | 1 | 0 |
| Unknown Salmonid | 0 | 0 | 0 | 0 |
| Totals | 6 | 0 | 11 | 0 |

Stream Statistics

Basic stream statistics at the Green Peter Head of Reservoir – Middle Santiam River site were calculated from data downloaded from the U.S. Geological Survey stream gauge number 14185800 (Figure 32). Stream temperatures were recorded every 2 hours for the length of the report period for the RST (Figure 33). The temperature logger operated normally throughout the reporting period. Catch per unit of effort (CPUE) data are summarized in Table 29. Gage height and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 29. Summary of salmonid CPUE, Green Peter HOR – Middle Santiam River.

| Description | Chinook (5 ft) | Winter Steelhead (5 ft) |
|----------------|----------------|-------------------------|
| Catch | 335 | 4 |
| Effort (hrs) | 359.9 | 359.9 |
| CPUE (fish/hr) | 0.9 | 0.01 |

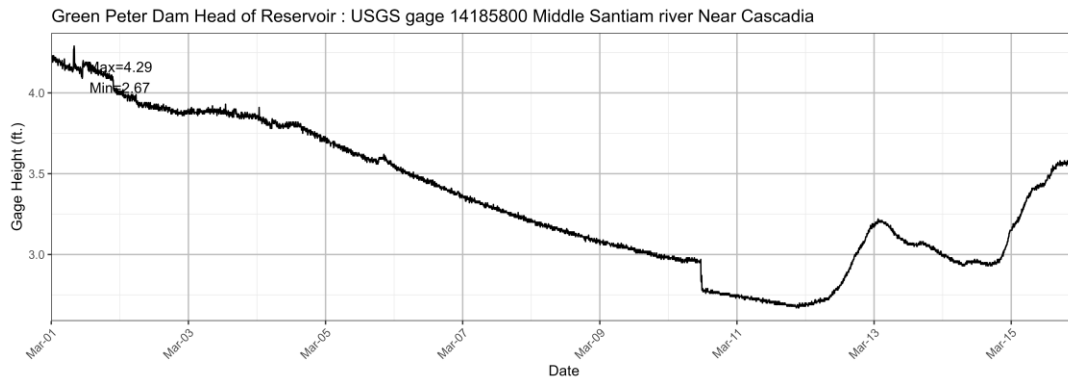


Figure 32. Gage Height (feet); Green Peter Head of Reservoir – Middle Santiam River.

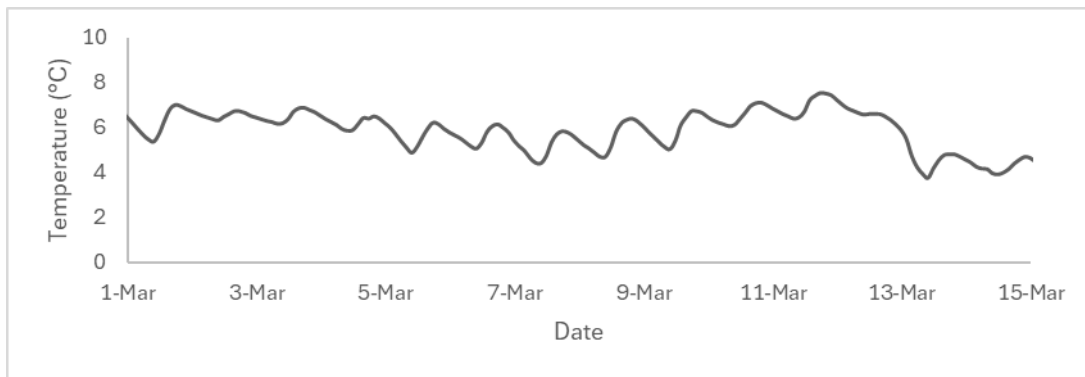


Figure 33. Temperature at RST (Green Peter Head of Reservoir – Middle Santiam River).

Middle Santiam River – Green Peter Dam Tailrace

The RST in the Green Peter dam Tailrace began sampling under contract W9127N19D0009 on December 1, 2023. Sampling at Green Peter Dam Tailrace prior to December 1, 2023 was conducted by EAS for the USACE under contract W9127N19D0007.

Target Species

For the reporting period, there were 12 Chinook Salmon (CHS), and 0 Winter Steelhead (STW) captured (Figure 34). Sampling duration was 100.0% of the reporting period for the RST. Table 30 provides life stage, length, and weight data for all target species that have been caught at the Green Peter Dam site to date and for the reporting period. Figure 35 shows length frequency data to date for Chinook and Winter Steelhead.

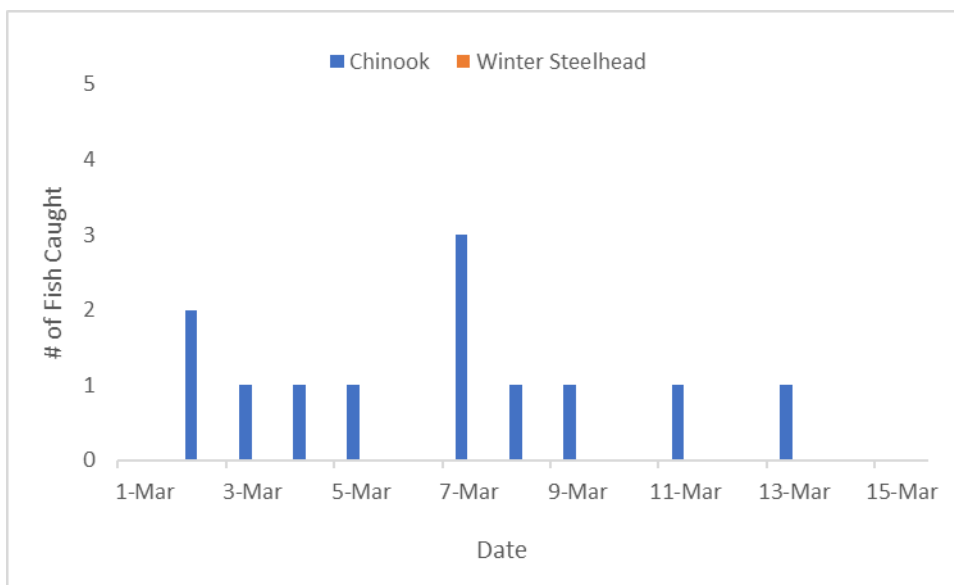
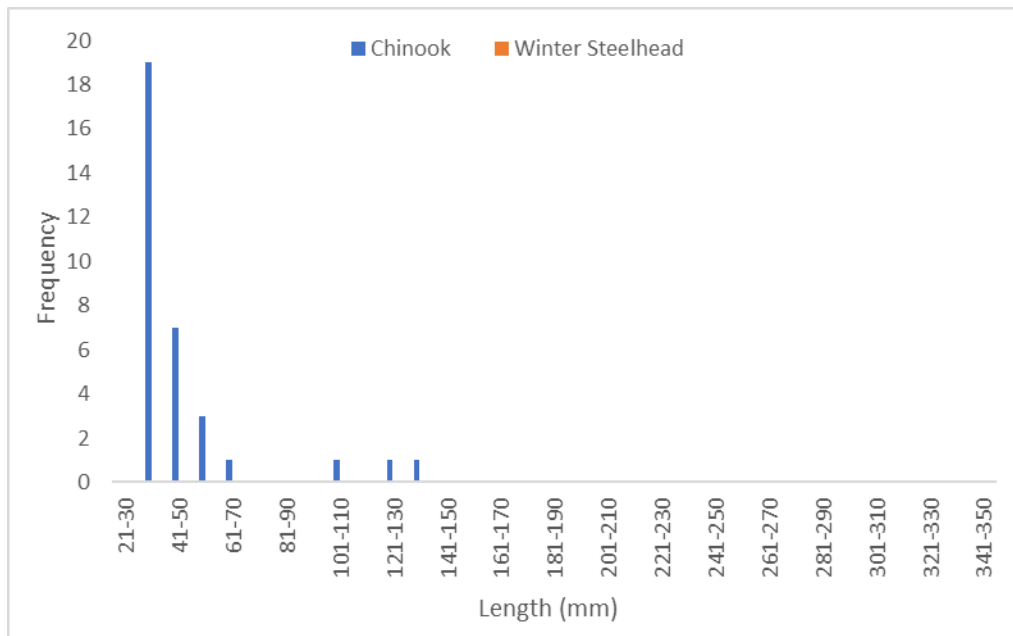


Figure 34. Chinook and Winter Steelhead Captured Per Day for the Reporting Period (Green Peter Tailrace- Middle Santiam).



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

Figure 35. Length Frequency of Juvenile Chinook and Winter Steelhead Sampled in 2025 (Green Peter Tailrace- Middle Santiam River).

Table 30. Descriptive Statistics of Target Species Captured at the Green Peter Tailrace- Middle Santiam River Season To-Date.

| To-Date (Since Jan. 1, 2025) | | | | | | | | | | |
|------------------------------|-------|---------|------------|-----------|--------------|-----|-------|-------------|------|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Green Peter Dam Tailrace | Spill | CHS | Fry | 29 | 33 | 55 | 39.7 | N/A | N/A | N/A |
| | | CHS | Parr | 1 | 62 | 62 | 62.0 | 2.0 | 2.0 | 2.0 |
| | | CHS | Smolt | 3 | 102 | 135 | 121.3 | 9.5 | 26.9 | 19.5 |
| | | STW | Fry | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | STW | Parr | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | 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.

| Reporting Period | | | | | | | | | | |
|--------------------------|-------|---------|------------|-----------|--------------|-----|-------|-------------|-----|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Green Peter Dam Tailrace | Spill | CHS | Fry | 10 | 36 | 55 | 45.5 | N/A | N/A | N/A |
| | | CHS | Parr | 1 | 62 | 62 | 62.0 | 2.0 | 2.0 | 2.0 |
| | | CHS | Smolt | 1 | 102 | 102 | 102.0 | 9.5 | 9.5 | 9.5 |
| | | STW | Fry | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | STW | Parr | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | 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.

Trapping Efficiency

On 3/05/2025, 1,998 hatchery Chinook were released for a fish trapping efficiency trial below Green Peter Dam in the RO outlet. 5 Chinook were recaptured for a trap efficiency of 0.3%, as detailed in Table 31.

On 3/12/2025, 5,858 dead hatchery Chinook were released for a fish trapping efficiency trial below Green Peter Dam in the RO outlet. 2 Chinook were recaptured for a trap efficiency of 0.03%, as detailed in Table 31.

Table 31. Hatchery Trapping Efficiency (Green Peter Dam).

| Green Peter Dam Tailrace | Release # | Recapture # | Capture Efficiency |
|--------------------------|---------------|-------------|--------------------|
| 8 ft Trap | Alive (1,998) | 5 | 0.3% |
| | Dead (5,858) | 2 | 0.03% |

Run of River Trapping Efficiency

Run of river fish captured in the RST have been differentially marked and released upstream to perform run of river trapping efficiency trials. This year, no Spring Chinook have been marked and released upstream for the purpose of conducting dead run of river trapping efficiency trials. Release numbers and recaptures for this reporting period are summarized below (Table 32).

Table 32. Run of River Trapping Efficiency (Green Peter Dam).

| Green Peter Dam | Release (Current Reporting Period) # | Recapture (Current Reporting Period) # |
|-----------------|--------------------------------------|--|
| Chinook (dead) | 0 | 0 |

24-Hour Post Collection Holding Trial

4 Spring Chinook and 0 Winter Steelhead were captured during the current reporting period and held for 24 hours. 1 Chinook (25.0%) and 0 Winter Steelhead (0.0%) died in holding.

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon and Winter Steelhead during the reporting period is provided in Table 33, and target species injuries for the duration of the season are provided in Appendix A.

Table 33. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon and Winter Steelhead for Sampling Period (Green Peter Tailrace- Middle Santiam River).

| Species | # Collected | # DSC <20% | # DSC >20% | # with Body Injuries | # with Eye Injuries | # with COP In B.C. | # with COP on Fins | Mortalities | GBD |
|------------------|-------------|------------|------------|----------------------|---------------------|--------------------|--------------------|-------------|-----|
| Chinook | 12 | 1 | 7 | 10 | 1 | 0 | 0 | 8 | 1 |
| Winter Steelhead | 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Collected DNA and Scale Samples

DNA was collected from 6 Spring Chinook and 0 Winter Steelhead for the reporting period. Scales were collected from 4 Spring Chinook and 0 Winter Steelhead. The other targets captured did not meet length criteria for DNA sampling or were too descaled/damaged to collect samples.

PIT Tags

0 Spring Chinook and 0 Winter Steelhead were PIT tagged during this reporting period. The first 60 target fish per week are prioritized for the 24-Hour Post Collection Holding Study. These fish are not tagged to not bias the results of the holding study. More information regarding PIT tagged fish can be found in Appendix D.

VIE Marking

No VIE marked Spring Chinook or Winter Steelhead have been detected at this site to date. VIE marking at RST sites upstream of the Green Peter Tailrace RST site ceased on February 27, 2025. All captured fish are assessed for the presence of VIE marks.

Non-Target Species

31 non-target fish were captured during this sampling period. 7 of the clipped Chinook were PIT tagged fish from a Cramer Fish Sciences Bulk Mark Release. A summary of non-target species catch and mortality numbers for 2025 are listed in Table 34.

Table 34. Summary of Non-target Species (Green Peter Tailrace- Middle Santiam River).

| Species | Capture | Mortality | Season Total Capture | Season Total Mortality |
|----------------------------|---------|-----------|----------------------|------------------------|
| Bass Unknown | 0 | 0 | 0 | 0 |
| Bluegill | 9 | 7 | 16 | 7 |
| Brown Bullhead | 1 | 0 | 6 | 0 |
| Chinook (clipped) | 18 | 7 | 20 | 7 |
| Cutthroat Trout | 1 | 0 | 1 | 0 |
| Dace | 0 | 0 | 0 | 0 |
| Kokanee | 0 | 0 | 4 | 0 |
| Kokanee (clipped) | 0 | 0 | 0 | 0 |
| Largemouth Bass | 0 | 0 | 0 | 0 |
| Largescale Sucker | 0 | 0 | 1 | 1 |
| Mountain Whitefish | 0 | 0 | 0 | 0 |
| Northern Pikeminnow | 0 | 0 | 0 | 0 |
| <i>O. mykiss</i> (adults) | 0 | 0 | 0 | 0 |
| <i>O. mykiss</i> (clipped) | 0 | 0 | 0 | 0 |
| Sculpin | 0 | 0 | 0 | 0 |
| Pumpkinseed | 0 | 0 | 0 | 0 |

| | | | | |
|------------------|-----------|-----------|-----------|-----------|
| Smallmouth Bass | 0 | 0 | 0 | 0 |
| Spotted Bass | 0 | 0 | 0 | 0 |
| Unknown | 0 | 0 | 0 | 0 |
| Walleye | 0 | 0 | 0 | 0 |
| Unknown Salmonid | 2 | 2 | 2 | 2 |
| Totals | 31 | 16 | 50 | 17 |

Stream Statistics

Basic stream statistics at the Green Peter Dam Tailrace- Middle Santiam site were calculated from data downloaded from the U.S. Geological Survey stream gage number 14186110 and 14186200. Gage height (feet) is the only metric provided at gage 14186110 (Figure 36). Total dissolved gas saturation data was received from gage number 14186200, 50 meters upstream of the trap (Figure 37). The temperature logger operated normally for the reporting period (Figure 38). Flows through the Powerhouse and Spillway during the reporting period are displayed in Figure 39. Catch per unit of effort (CPUE) data are summarized in Table 35. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 35. Summary of salmonid CPUE, Green Peter Tailrace- Middle Santiam River.

| Description | Chinook | Winter Steelhead |
|----------------|---------|------------------|
| Catch | 12 | 0 |
| Effort (hrs) | 359.9 | 359.9 |
| CPUE (fish/hr) | 0.03 | 0.0 |

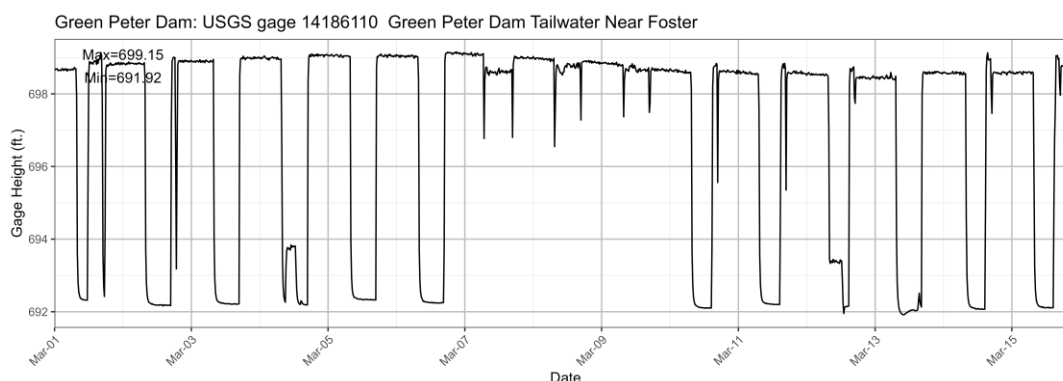


Figure 36. Gage Height (feet); below Green Peter Dam.

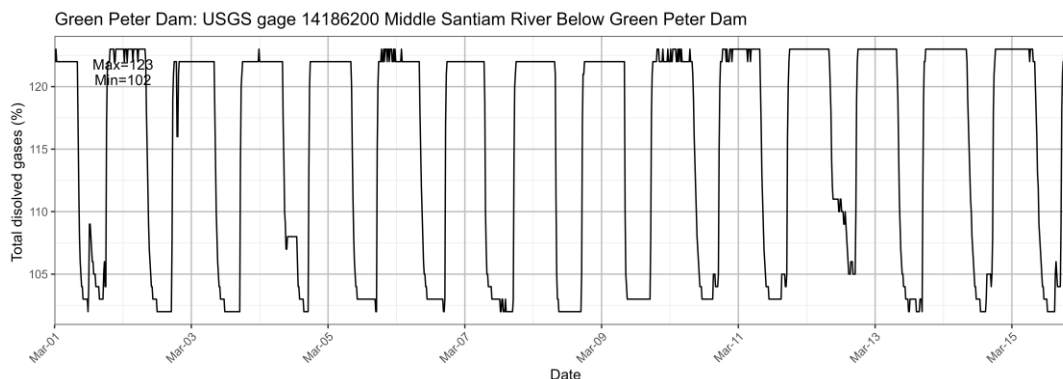


Figure 37. Total Dissolved Gas Saturation (%); below Green Peter Dam.

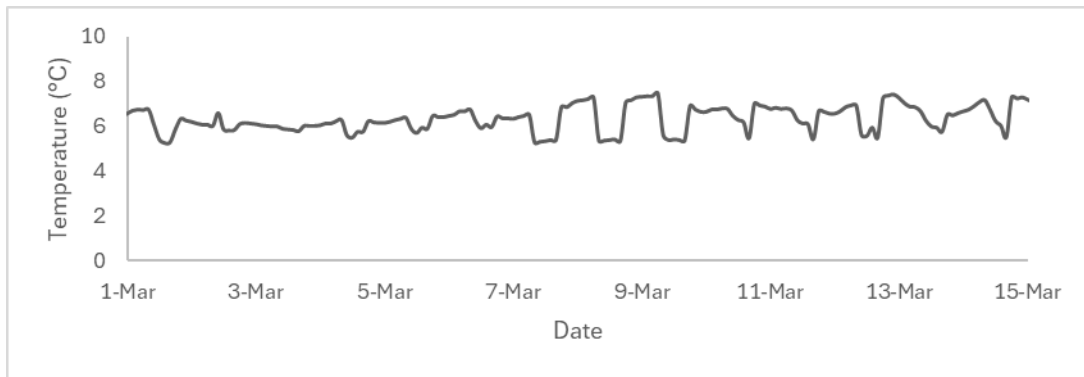


Figure 38. Temperature at RST (Green Peter Tailrace- Middle Santiam River).

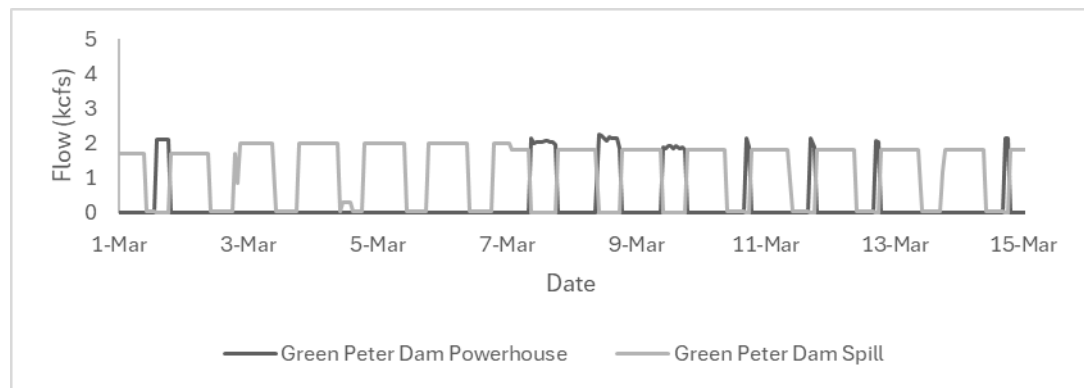


Figure 39. Hourly Flows PH vs. Spill (Green Peter Dam).

South Santiam River – Foster Dam Head of Reservoir

The Foster Dam Head of Reservoir RST was installed January 24th, 2025 and began February 1st, 2025. All natural origin *O. mykiss* captured at this site will be reported as Winter Steelhead.

Target Species

There were a total of 5 Chinook Salmon (CHS), and 15 Winter Steelhead (STW) captured for the reporting period (Figure 40). Sampling duration was 100.0% of the reporting period for the 5ft RST. Figure 41 shows length frequency data to-date. Table 36 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 site to-date and for the reporting period.

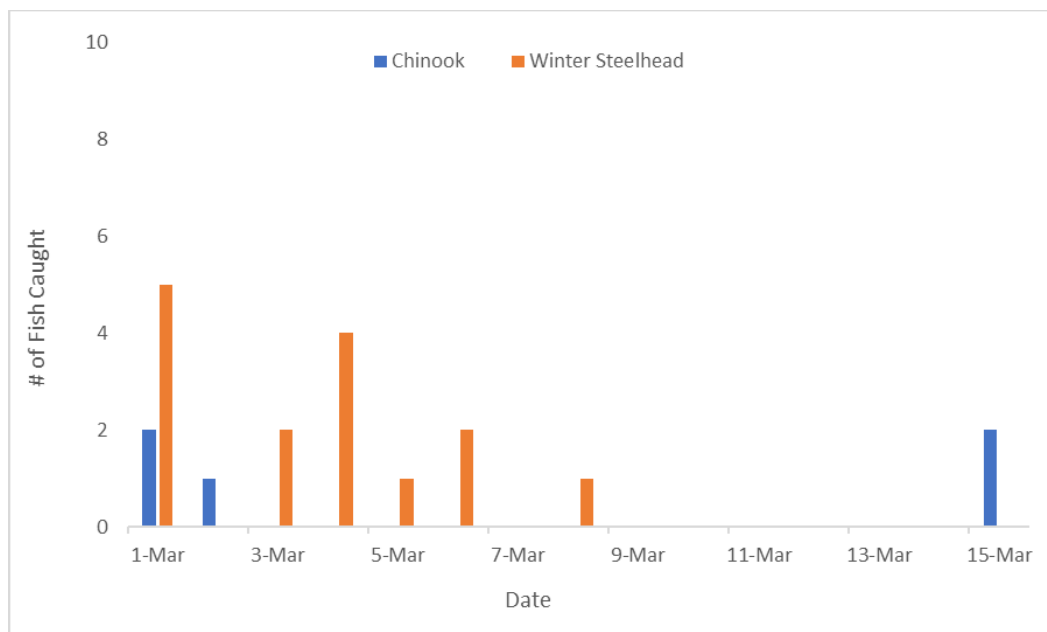


Figure 40. Chinook and Winter Steelhead Captured Per Day for the Reporting Period (Foster Dam Head of Reservoir).

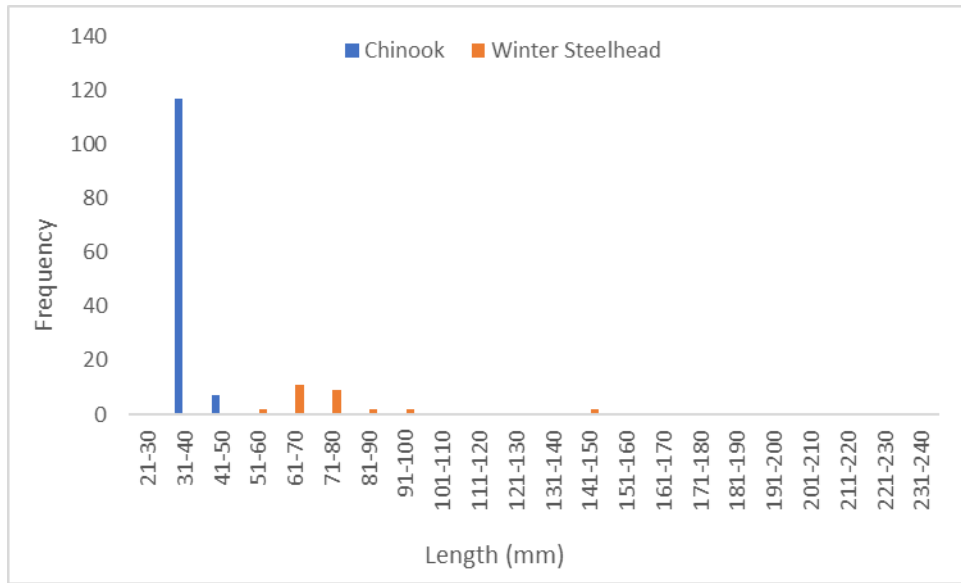


Figure 41. Length Frequency of Juvenile Chinook Sampled Season To-Date (Foster Dam Head of Reservoir).

Table 36. Descriptive Statistics of Target Species Captured at the Foster Dam Head of Reservoir To-Date

| To-Date (Since February 1, 2025) | | | | | | | | | | |
|----------------------------------|-------|---------|------------|-----------|--------------|-----|-------|-------------|------|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Foster Dam Head of Reservoir | 5ft | CHS | Fry | 125 | 33 | 42 | 38.2 | N/A | N/A | N/A |
| | | CHS | Parr | 1 | 48 | 48 | 48.0 | 1.2 | 1.2 | 1.2 |
| | | CHS | Smolt | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | STW | Fry | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | STW | Parr | 26 | 56 | 93 | 71.9 | 2.1 | 9.2 | 4.4 |
| | | STW | Smolt | 2 | 142 | 145 | 143.5 | 30.3 | 31.3 | 30.8 |

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

| Reporting Period | | | | | | | | | | |
|------------------------------|-------|---------|------------|-----------|--------------|-----|-------|-------------|------|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Foster Dam Head of Reservoir | 5ft | CHS | Fry | 5 | 33 | 42 | 37.0 | 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 |
| | | STW | Fry | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | STW | Parr | 13 | 59 | 93 | 72.5 | 2.2 | 9.1 | 4.5 |
| | | STW | Smolt | 2 | 142 | 145 | 143.5 | 30.3 | 31.3 | 30.8 |

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

Trapping Efficiency

On 3/03/2025, 2,000 hatchery Chinook were released above the trap site to evaluate the trapping efficiency of the 5 ft RST. 17 fish were recaptured for an efficiency of 0.9%.

On 3/10/2025, 2,000 hatchery Chinook were released above the trap site to evaluate the trapping efficiency of the 5 ft RST. 27 fish were recaptured for an efficiency of 1.4%, as detailed in Table 37.

Table 37. Hatchery Trapping Efficiency (Foster Dam Head of Reservoir).

| Foster Dam Head of Reservoir | Release # | Recapture # | Capture Efficiency |
|------------------------------|-----------|-------------|--------------------|
| 5-ft Trap | 2,000 | 17 | 0.9% |
| | 2,000 | 27 | 1.4% |

Run of River Trapping Efficiency

Run of river fish captured in the RST have been differentially marked and released upstream to perform run of river trapping efficiency trials. This year 47 Spring Chinook and 0 Winter Steelhead have been marked and released upstream for the purpose of conducting run of river trapping efficiency trials. Release numbers and recaptures for this reporting period are summarized below (Table 38).

Table 38. Run of River Trapping Efficiency (Foster Dam Head of Reservoir).

| Foster Dam Head of Reservoir | Release (Current Reporting Period) # | Recapture (Current Reporting Period) # |
|------------------------------|--------------------------------------|--|
| Chinook | 0 | 0 |
| Winter Steelhead | 0 | 0 |

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon and Winter Steelhead during the reporting period is provided in Table 39, and target species injuries for the duration of the season are provided in Appendix A.

Table 39. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon and Winter Steelhead for Sampling Period (Foster Dam Head of Reservoir).

| Species | # Fish Collected | # DSC <20% | # DSC >20% | # with Body Injuries | # with Eye Injuries | # with COP In B.C. | # with COP on Fins | Mortalities | GBD |
|------------------|------------------|------------|------------|----------------------|---------------------|--------------------|--------------------|-------------|-----|
| Chinook | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Winter Steelhead | 15 | 6 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |

Collected DNA and Scale Samples

DNA was collected from 0 Spring Chinook and 15 Winter Steelhead. Scale samples were collected from 0 Spring Chinook and 15 Winter Steelhead.

PIT Tags

0 Chinook and 15 Winter Steelhead were PIT tagged during this reporting period. More information regarding PIT tagged fish can be found in Appendix D.

Non-Target Species

7 non-target species were captured during this reporting period. A summary of non-target fish capture is provided in Table 40.

Table 40. Summary of Non-target Species (Foster Dam Head of Reservoir).

| Species | 5 ft Capture | 5 ft Mortality | Season Total | Season Total Mortality |
|-------------------|--------------|----------------|--------------|------------------------|
| Chinook (clipped) | 3 | 0 | 3 | 0 |
| Cutthroat Trout | 0 | 0 | 0 | 0 |
| Dace | 2 | 0 | 7 | 0 |
| Kokanee | 0 | 0 | 0 | 0 |
| Largescale Sucker | 0 | 0 | 0 | 0 |

| Species | 5 ft Capture | 5 ft Mortality | Season Total | Season Total Mortality |
|---------------------|--------------|----------------|--------------|------------------------|
| Lamprey | 0 | 0 | 0 | 0 |
| Northern Pikeminnow | 0 | 0 | 0 | 0 |
| O. mykiss (clipped) | 0 | 0 | 0 | 0 |
| Mountain Whitefish | 0 | 0 | 0 | 0 |
| Sculpin | 2 | 0 | 2 | 0 |
| Unknown | 0 | 0 | 0 | 0 |
| Totals | 7 | 0 | 12 | 0 |

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 (Figure 42). Stream temperatures were recorded every 2 hours for the duration of the reporting period for the RST (Figure 43). Temperature probes for the trap operated normally throughout this reporting period. Catch per unit of effort (CPUE) data are summarized in Table 41. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 41. Summary of CPUE, Foster Dam Head of Reservoir.

| Description | Chinook (5 ft) | Winter Steelhead (5 ft) |
|----------------|----------------|-------------------------|
| Catch | 5 | 15 |
| Effort (hrs) | 359.9 | 359.9 |
| CPUE (fish/hr) | 0.01 | 0.04 |

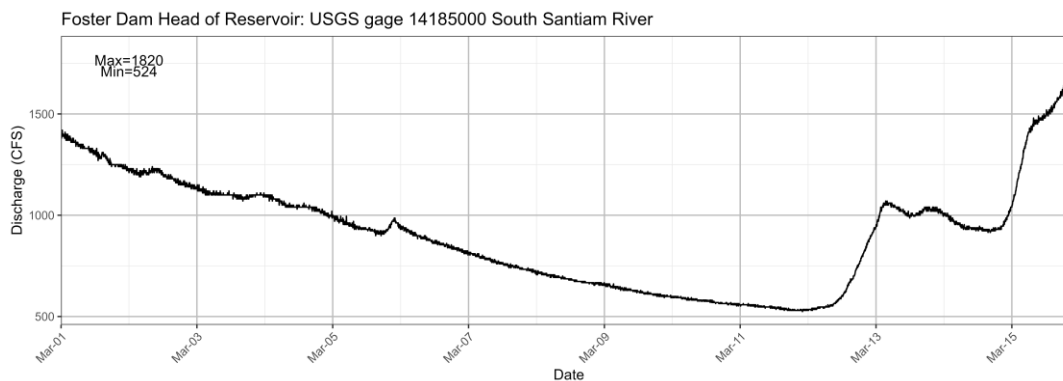


Figure 42. Discharge (cfs); Foster Dam Head of Reservoir.

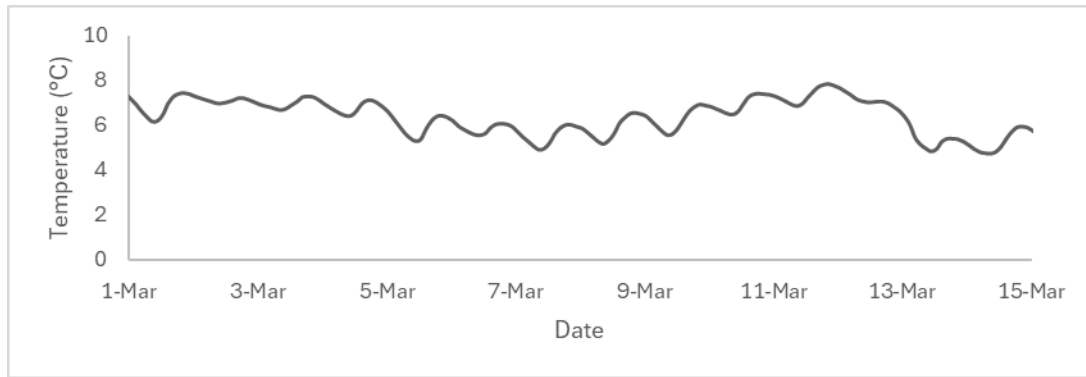


Figure 43. Temperature at RST (Foster Dam Head of Reservoir).

South Fork McKenzie River – Cougar Dam Head of Reservoir

The Cougar Dam Head of Reservoir RST was installed January 26th, 2025 and began sampling on February 1st, 2025.

Target Species

There were 8 Chinook Salmon (CHS) captured for the reporting period (Figure 44). Sampling duration was 100.0% of the reporting period for the 5ft RST. Table 42 provides life stage, length, and weight data for all Chinook salmon that have been caught at the site to-date and Figure 45 shows length frequency data to-date.

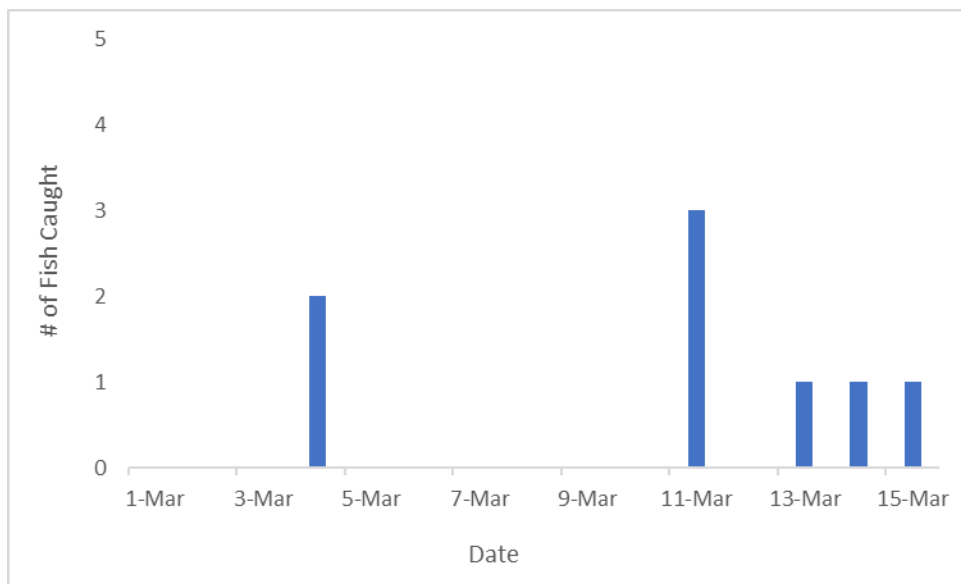


Figure 44. Chinook Captured Per Day for the Reporting Period (Cougar Dam Head of Reservoir).

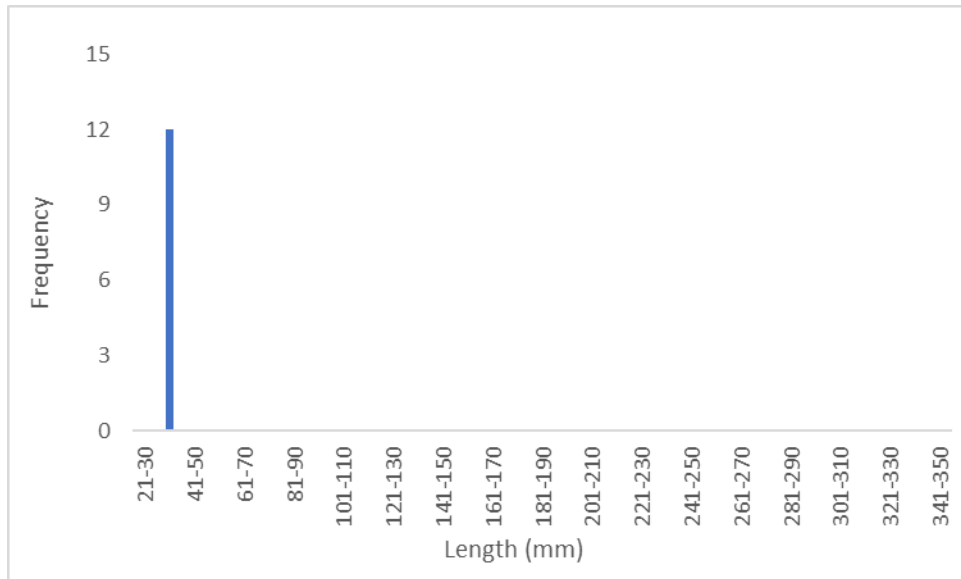


Figure 45. Length Frequency of Juvenile Chinook Sampled in 2025 (Cougar Dam Head of Reservoir).

Table 42. Descriptive Statistics of Target Species Captured at Cougar Dam Head of Reservoir, Season To-Date and for the Reporting Period.

| To-Date (Since February 1, 2025) | | | | | | | | | | |
|----------------------------------|-------|---------|------------|-----------|-------------|-----|------|------------|-----|------|
| Site | Route | Species | Life stage | Collected | Length (mm) | | | Weight (g) | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Cougar Dam Head of Reservoir | 5 ft | CHS | Fry | 12 | 32 | 36 | 34.3 | 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 |

| Reporting Period | | | | | | | | | | |
|------------------------------|-------|---------|------------|-----------|-------------|-----|------|------------|-----|------|
| Site | Route | Species | Life stage | Collected | Length (mm) | | | Weight (g) | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Cougar Dam Head of Reservoir | 5 ft | CHS | Fry | 8 | 32 | 36 | 34.5 | 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 |

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

Trapping Efficiency

On 11/25/2024, 749 hatchery Chinook were released upstream of the Cougar Head of Reservoir trap site. A total of 33 fish were recaptured in the 5 ft trap. Trapping efficiency was 4.4%, as detailed in Table 43.

Table 43. Hatchery Trapping Efficiency (Cougar Dam Head of Reservoir).

| Cougar Dam Head of Reservoir | Release # | Recapture # | Capture Efficiency |
|------------------------------|-----------|-------------|--------------------|
| 5-ft Trap | 749 | 33 | 4.4% |

Run of River Trapping Efficiency

Run of river fish captured in the RST have been differentially marked and released upstream to perform run of river trapping efficiency trials. This year 0 Spring Chinook have been marked and released upstream for the purpose of conducting run of river trapping efficiency trials. Release numbers and recaptures for this reporting period are summarized below (Table 44).

Run of river trapping efficiency has been discontinued until daily catch rates increase.

Table 44. Run of River Trapping Efficiency (Cougar Dam Head of Reservoir).

| Cougar Dam Head of Reservoir | Release (Current Reporting Period) # | Recapture (Current Reporting Period) # |
|------------------------------|--------------------------------------|--|
| Chinook | 0 | 0 |

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon during the reporting period is provided in Table 45, and target species injuries for the duration of the season are provided in Appendix A.

Table 45. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon for Sampling Period. (Cougar Dam Head of Reservoir).

| # CHS Collected | # DSC <20% | # DSC >20% | # with Body Injuries | # with Eye Injuries | # with COP In B.C. | # with COP on Fins | Mortalities | GBD |
|-----------------|------------|------------|----------------------|---------------------|--------------------|--------------------|-------------|-----|
| 8 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

Collected DNA and Scale Samples

DNA was collected from 0 of the Chinook captured. Scales were collected from 0 of the Chinook captured. The rest of the captured fish were under the minimum fork length threshold or too descaled to retrieve samples.

PIT Tags

0 Spring Chinook were PIT tagged during this reporting period. More information regarding PIT tagged fish can be found in Appendix D.

VIE Marking

1 Spring Chinook was VIE marked with fluorescent elastomer in 2025. VIE marking ceased on February 27, 2025. All captured fish are assessed for the presence of VIE marks. VIE tag color was changed every month to distinctly mark groups of fish by capture date. Fish still showing an egg sac were not VIE marked. Release numbers and recaptures for this reporting period are summarized below (Table 46).

Table 46. Summary of VIE Marked Fish (Cougar Dam Head of Reservoir).

| Month Tagged | Tag Location | VIE Color | # Tagged | # Recaptured to Date |
|---------------|--------------|-----------|----------|----------------------|
| February 2025 | Right Dorsal | Yellow | 1 | 0 |

Non-Target Species

22 non-target species were captured during this reporting period. A summary of non-target fish capture is provided in Table 47.

Table 47. Summary of Non-target Species (Cougar Dam Head of Reservoir).

| Species | Capture | Mortality | Season Total | Season Total Mortality |
|-------------|---------|-----------|--------------|------------------------|
| Bull Trout | 0 | 0 | 0 | 0 |
| Brook Trout | 0 | 0 | 0 | 0 |

| Species | Capture | Mortality | Season Total | Season Total Mortality |
|---------------------|-----------|-----------|--------------|------------------------|
| Cutthroat Trout | 3 | 0 | 4 | 0 |
| Chinook (Adult) | 0 | 0 | 0 | 0 |
| Chinook (clipped) | 0 | 0 | 0 | 0 |
| Dace | 0 | 0 | 0 | 0 |
| Mountain Whitefish | 0 | 0 | 0 | 0 |
| Northern Pikeminnow | 0 | 0 | 0 | 0 |
| <i>O. mykiss</i> | 18 | 0 | 26 | 0 |
| Lamprey | 0 | 0 | 0 | 0 |
| Sculpin | 1 | 1 | 1 | 1 |
| Unknown | 0 | 0 | 0 | 0 |
| Totals | 22 | 1 | 31 | 1 |

Stream Statistics

Basic stream statistics at the site were calculated from data downloaded from the U.S. Geological Survey stream gauge number 14159200 (Figure 46). Stream temperatures were recorded every 2 hours using a temperature probe at the Cougar Dam Head of Reservoir RST site during this reporting period. The temperature probe operated normally throughout the reporting period, and the data is shown below in Figure 47. Catch per unit of effort (CPUE) data are summarized in Table 48. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 48. Summary of Chinook CPUE, Cougar Dam Head of Reservoir.

| Description | Chinook |
|----------------|---------|
| Catch | 8 |
| Effort (hrs) | 358.3 |
| CPUE (fish/hr) | 0.02 |

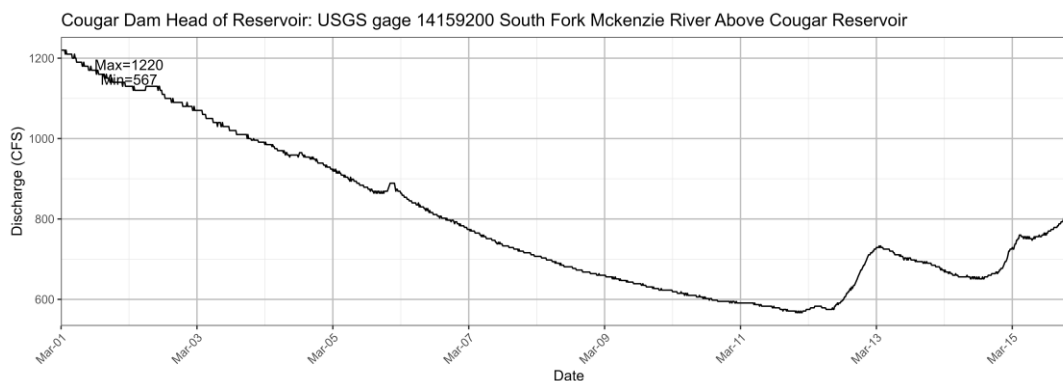


Figure 46. Discharge (cfs); South Fork McKenzie above Cougar Dam.

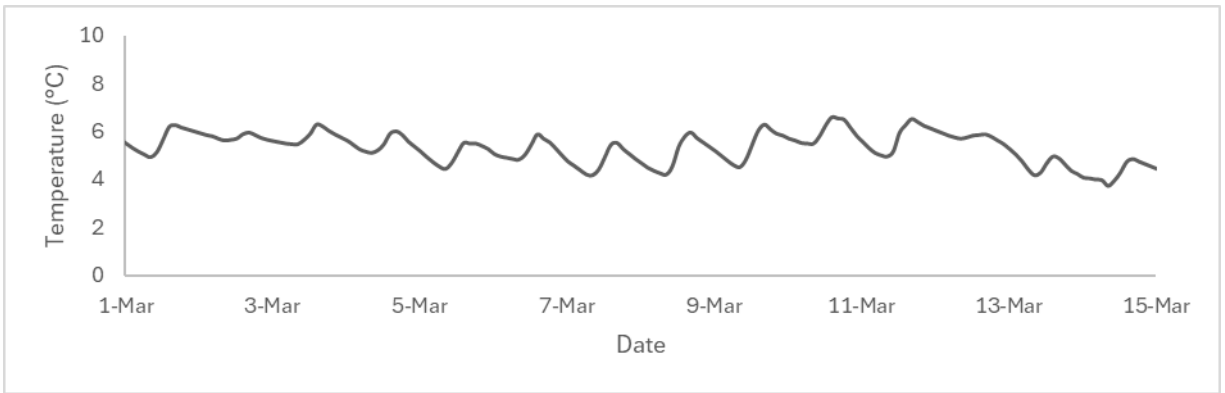


Figure 47. Temperature at RST (Cougar Dam Head of Reservoir).

South Fork McKenzie River– Cougar Dam Tailrace

The RSTs in the Cougar Dam Tailrace began sampling under contract W9127N19D0009 on December 1st, 2023. Sampling at Cougar Dam prior to December 1, 2023, was conducted by EAS for the USACE under contract W9127N19D0007.

Target Species

For the reporting period, there were a total of 33 Chinook Salmon (CHS) captured. Sampling duration was 100.0% of the reporting period for the RSTs. Table 49 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 48 shows the daily capture numbers for Chinook and Figure 49 shows length frequency data to-date.

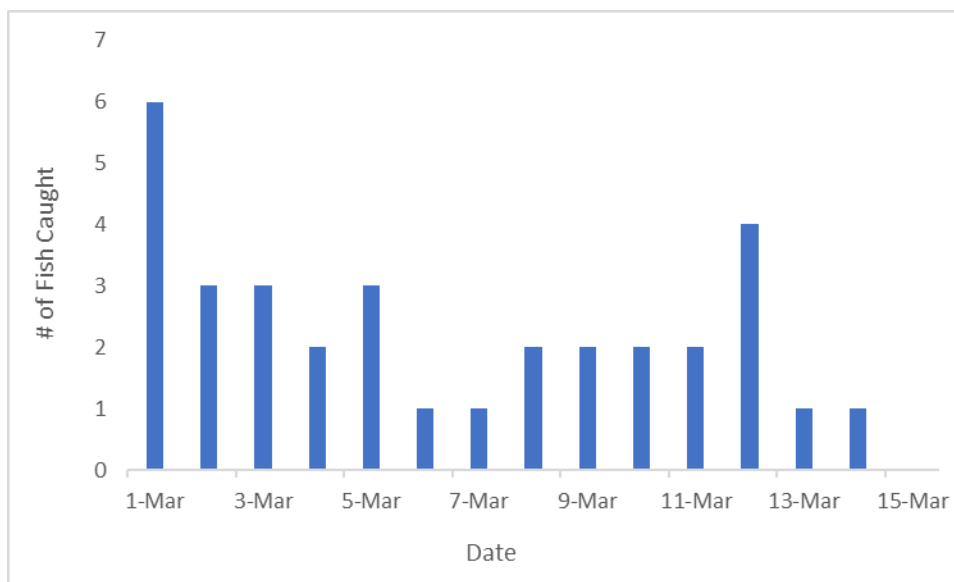


Figure 48. Chinook Captured Per Day for the Reporting Period (Cougar Dam).

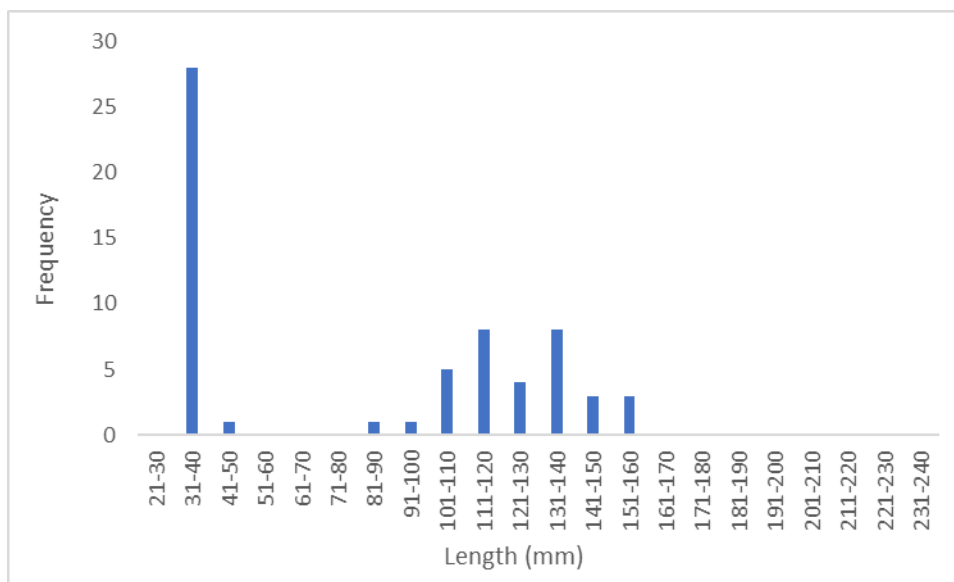


Figure 49. Length Frequency of Juvenile Chinook Sampled in 2025 (Cougar Dam).

Table 49. Descriptive Statistics of Target Species Captured at Cougar Dam To-Date.

| To-Date (Since Jan. 1, 2025) | | | | | | | | | | |
|------------------------------|-------|---------|------------|-----------|--------------|-----|-------|-------------|------|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Cougar Dam | RO | CHS | Fry | 5 | 35 | 38 | 37.0 | N/A | N/A | N/A |
| | | CHS | Parr | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | CHS | Smolt | 16 | 90 | 157 | 130.4 | 7.2 | 40.5 | 25.1 |
| | PH 1 | CHS | Fry | 15 | 34 | 41 | 36.9 | N/A | N/A | N/A |
| | | CHS | Parr | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | CHS | Smolt | 10 | 103 | 144 | 120.5 | 12.1 | 31.8 | 19.6 |
| | PH 2 | CHS | Fry | 9 | 34 | 39 | 37.0 | N/A | N/A | N/A |
| | | CHS | Parr | 1 | 97 | 97 | 97.0 | 11.0 | 11.0 | 11.0 |
| | | CHS | Smolt | 6 | 104 | 151 | 128.2 | 12.0 | 37.0 | 23.2 |

| Reporting Period | | | | | | | | | | |
|------------------|-------|---------|------------|-----------|--------------|-----|-------|-------------|------|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Cougar Dam | RO | CHS | Fry | 2 | 35 | 38 | 36.5 | N/A | N/A | N/A |
| | | CHS | Parr | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | CHS | Smolt | 8 | 123 | 157 | 141.0 | 17.3 | 40.5 | 30.5 |
| | PH 1 | CHS | Fry | 12 | 34 | 41 | 37.3 | N/A | N/A | N/A |
| | | CHS | Parr | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | CHS | Smolt | 4 | 115 | 144 | 132.3 | 17.3 | 31.8 | 26.5 |
| | PH 2 | CHS | Fry | 4 | 37 | 38 | 37.5 | N/A | N/A | N/A |
| | | CHS | Parr | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | CHS | Smolt | 3 | 137 | 151 | 145.7 | 28.2 | 37.0 | 32.8 |

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

Trapping Efficiency

No hatchery Chinook are available for trapping efficiency trials at the Cougar Dam RST site for 2025. Please refer to appendix C for a summary of trapping efficiency trials performed at this site prior to 2025.

Run of River Trapping Efficiency

Run of river fish were differentially marked and released for the purpose of conducting run of river trapping efficiency trials at Cougar Dam. This year, no Chinook have been released for the purpose of run of river trapping efficiency. Numbers of fish released and recaptured by route for the reporting period are listed below (Table 50).

Table 50. Run of River Trapping Efficiency (Cougar Dam).

| Release Route | Release (Current Reporting Period) # | Trap | Recapture (Current Reporting Period) # |
|---------------|--------------------------------------|------|--|
| PH | 0 | PH 1 | 0 |
| | | PH 2 | 0 |
| RO | 0 | RO | 0 |

24-Hour Post Collection Holding Trial

9 Spring Chinook captured in the RO RST and 20 Chinook captured in the PH RSTs were held for ~24 hours in holding tanks and then evaluated for survival rates. 1 of the RO RST captured fish (12.5%) died during holding. 0 of the fish from PH RST died during holding (0.0%).

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon during the reporting period is provided in Table 51, and target species injuries for the duration of the season are provided in Appendix A.

Table 51. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon for Sampling Period (Cougar Dam).

| Route | # CHS Collected | # DSC <20% | # DSC >20% | # with Body Injuries | # with Eye Injuries | # with COP In B.C. | # with COP on Fins | Mortalities | GBD |
|-------|-----------------|------------|------------|----------------------|---------------------|--------------------|--------------------|-------------|-----|
| RO | 10 | 7 | 1 | 8 | 1 | 6 | 5 | 1 | 5 |
| PH 1 | 16 | 4 | 0 | 4 | 0 | 2 | 2 | 1 | 0 |
| PH 2 | 7 | 2 | 1 | 4 | 1 | 2 | 1 | 2 | 0 |

Collected DNA and Scale Samples

DNA was collected from 15 Spring Chinook during this reporting period. Scales were collected from 15 Spring Chinook. The other targets captured did not meet length criteria for DNA sampling or were too damaged to remove scales.

PIT Tags

0 Spring Chinook were PIT tagged during this reporting period. The first 60 target fish per week are prioritized for the 24-Hour Post Collection Holding Study. These fish are not tagged to not bias the results of the holding study. More information regarding PIT tagged fish can be found in Appendix D.

VIE Marking

No VIE marked Spring Chinook were encountered during this reporting period. 5 VIE marked Spring Chinook have been detected at this site to date. These fish were tagged by EAS at Cougar Dam Head of Reservoir in May 2023. They were recaptured in November 2023. VIE marking upstream of the Cougar Dam RSTs ceased on February 27, 2025. All captured fish are assessed for the presence of VIE marks.

Non-Target Species

10 non-target fish were captured during the reporting period; the data is summarized below in Table 52.

Table 52. Summary of Non-target Species (Cougar Dam).

| Species | RO Capture | RO Mortality | PH Capture | PH Mortality | Season Total Capture | Season Total Mortality |
|---------------------|------------|--------------|------------|--------------|----------------------|------------------------|
| Bluegill | 0 | 0 | 0 | 0 | 0 | 0 |
| Crappie | 0 | 0 | 0 | 0 | 0 | 0 |
| Brook Lamprey | 0 | 0 | 0 | 0 | 0 | 0 |
| Bull Trout | 0 | 0 | 0 | 0 | 0 | 0 |
| Chinook (clipped) | 0 | 0 | 3 | 0 | 8 | 1 |
| Chinook (Adult) | 0 | 0 | 0 | 0 | 0 | 0 |
| Cutthroat Trout | 0 | 0 | 1 | 0 | 3 | 0 |
| Dace | 0 | 0 | 0 | 0 | 0 | 0 |
| Largescale Sucker | 0 | 0 | 0 | 0 | 0 | 0 |
| Mountain Whitefish | 0 | 0 | 0 | 0 | 1 | 0 |
| Northern Pikeminnow | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>O. mykiss</i> | 1 | 0 | 5 | 0 | 14 | 2 |
| Pacific Lamprey | 0 | 0 | 0 | 0 | 0 | 0 |
| Sculpin | 0 | 0 | 0 | 0 | 2 | 0 |
| Totals | 1 | 0 | 9 | 0 | 28 | 3 |

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 (Figure 50 and Figure 51). Stream temperatures were recorded using HOBO temperature loggers. The RO and PH temperature loggers recorded data every two hours (Figure 52 and Figure 53). Flow through the PH and RO during the reporting period is displayed in Figure 54. Catch per unit of effort (CPUE) data are summarized in Table 53. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 53. Summary of salmonid CPUE, Cougar Dam.

| Description | PH 1 | PH 2 | RO |
|----------------|-------|-------|-------|
| Catch | 16 | 7 | 10 |
| Effort (hrs) | 359.4 | 359.5 | 358.4 |
| CPUE (fish/hr) | 0.04 | 0.02 | 0.03 |

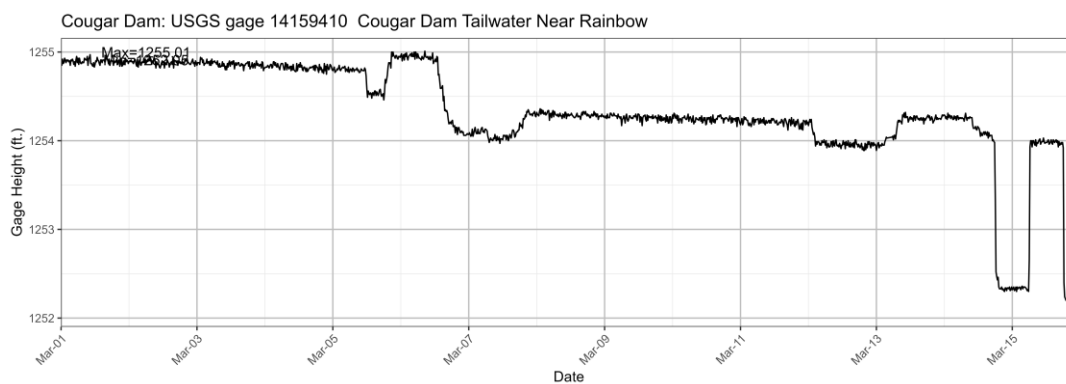


Figure 50. Gauge Height (feet); below Cougar Dam, South Fork McKenzie River.

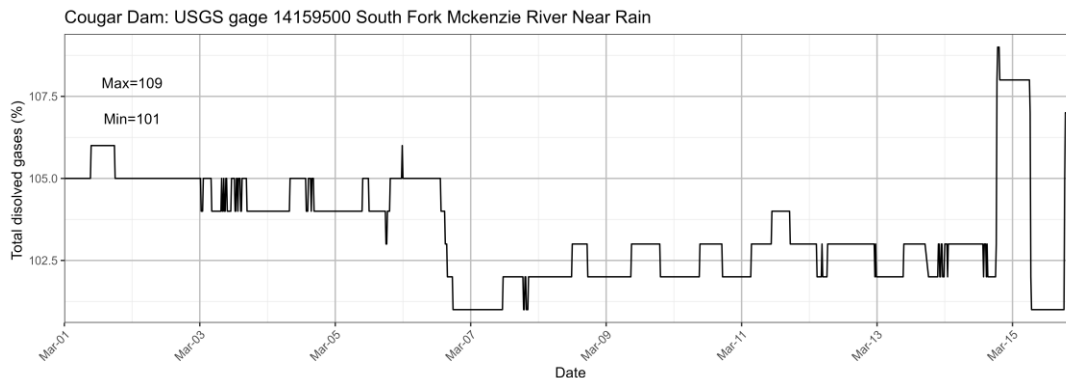


Figure 51. Total Dissolved Gas Saturation (%); below Cougar Dam, South Fork McKenzie River.

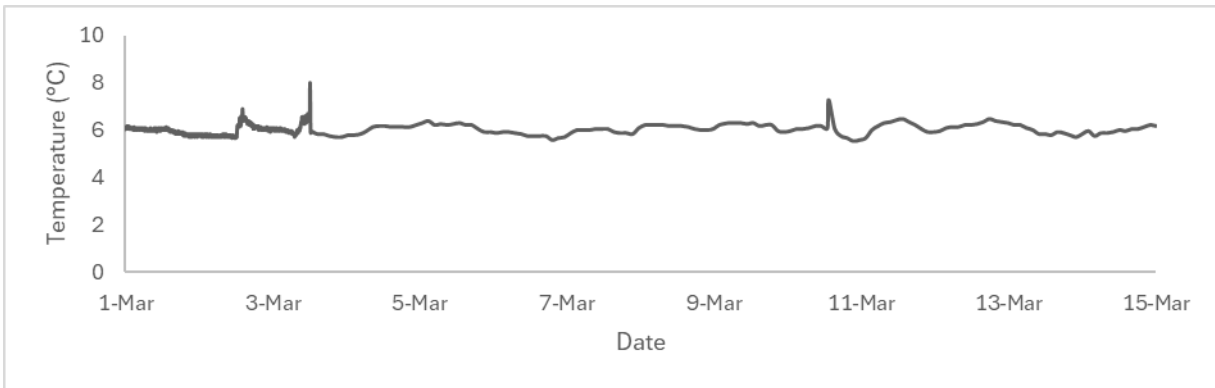


Figure 52. Temperature at RO RST (Cougar Dam).

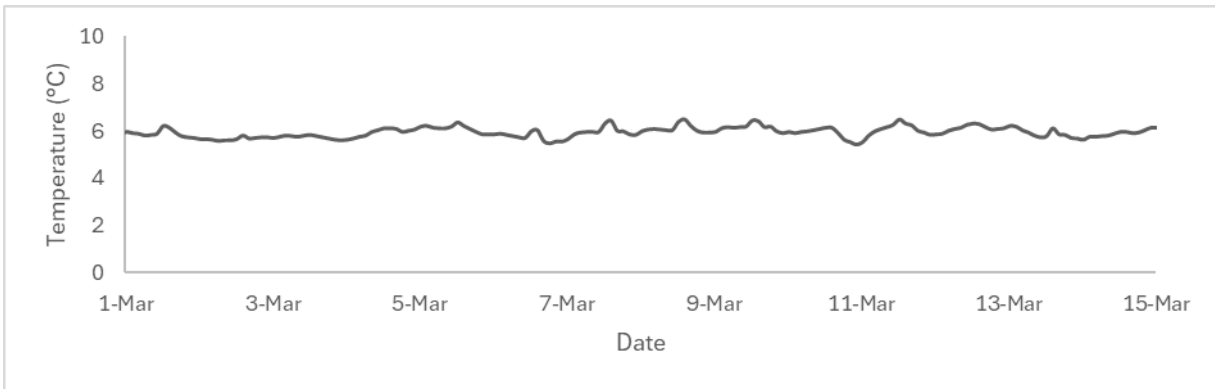


Figure 53. Temperature at PH RST (Cougar Dam).

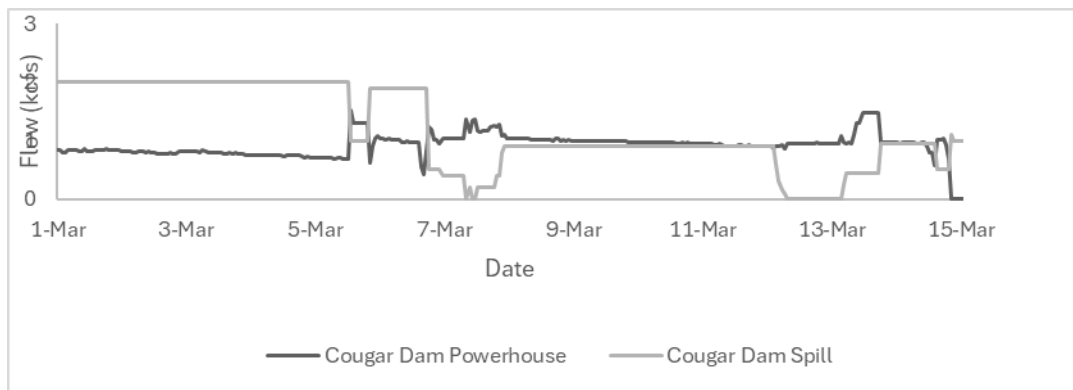


Figure 54. Hourly Flows PH vs. RO (Cougar Dam).

Fall Creek Head of Reservoir

The Fall Creek Head of Reservoir RST was installed on December 31, 2024. The Fall Creek Head of Reservoir RST began sampling on January 6th, 2025 due to high flow.

Target Species

For the reporting period, there were 0 Chinook Salmon (CHS) captured (Figure 55). Sampling duration was 93.3% of the reporting period for the 8ft RST. The RST was raised to the non-sampling position on March 10th due to low flow causing damage to the cone. It was lowered into the sampling position on March 11th. Table 54 provides life stage, length, and weight data for all Chinook salmon that have been caught at the site to-date and for the reporting period. Figure 56 shows length frequency data to-date for Chinook salmon.

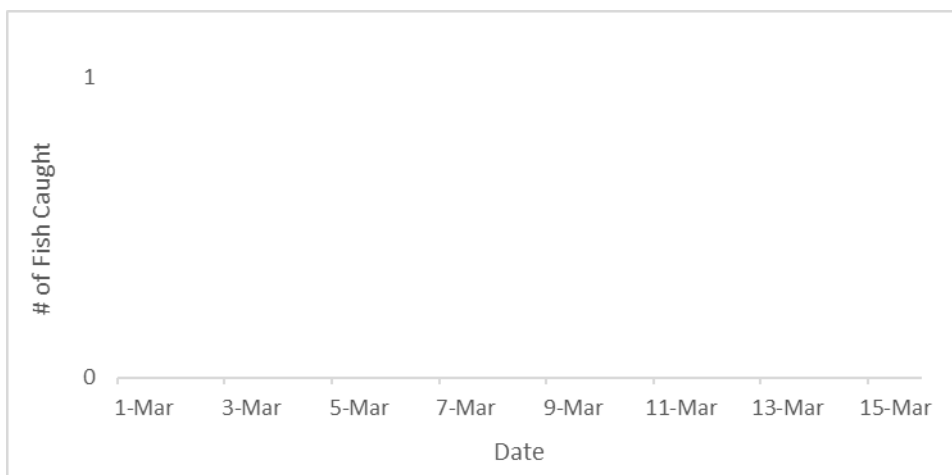


Figure 55. Chinook Captured Per Day for the Reporting Period (Fall Creek Head of Reservoir).

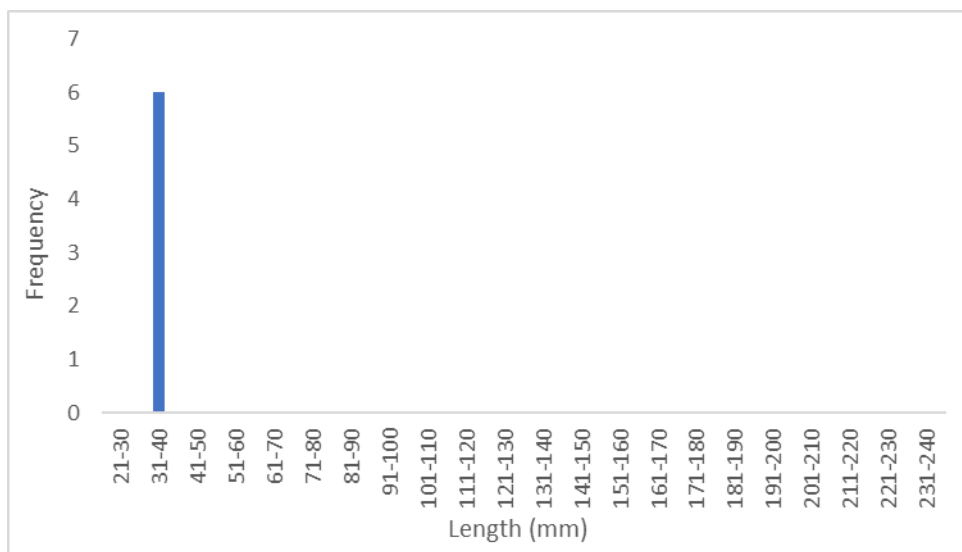


Figure 56. Length Frequency of Juvenile Chinook Sampled in 2025 (Fall Creek Head of Reservoir).

Table 54. Descriptive Statistics of Target Species Captured at Fall Creek Head of Reservoir 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 Head of Reservoir | 8 ft | CHS | Fry | 6 | 31 | 35 | 33.5 | 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 |

| Reporting Period | | | | | | | | | | |
|------------------------------|-------|---------|------------|-----------|--------------------------|-----|------|-------------------------|-----|------|
| Site | Route | Species | Life stage | Collected | Length (mm) [*] | | | Weight (g) [*] | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Fall Creek Head of Reservoir | 8 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 |

Trapping Efficiency

No hatchery Chinook are available for trapping efficiency trials at the Fall Creek Head of Reservoir RST site for 2025. Please refer to appendix C for a summary of trapping efficiency trials performed at this site prior to 2025.

Run of River Trapping Efficiency

Run of river trapping efficiency trials have been discontinued until daily catch rates increase.

Collected DNA and Scale Samples

Scales were collected from 0 Spring Chinook and DNA was collected from 0 Spring Chinook during this reporting period. The other targets captured did not meet length criteria for DNA sampling or were too damaged to remove scales.

PIT Tags

No Spring Chinook have been PIT tagged this reporting period. Refer to Appendix D for further information regarding PIT tags.

VIE Marking

1 Spring Chinook was VIE marked with fluorescent elastomer in 2025. VIE marking ceased on February 27, 2025. All captured fish are assessed for the presence of VIE marks. VIE tag color and locations were changed every month to distinctly mark groups of fish by capture date. Fish still showing an egg sac were not VIE marked. A summary of VIE marked fish is shown in Table 55. More information regarding VIE marked fish can be found in Appendix D.

Table 55. Summary of VIE marked fish at the Fall Creek Head of Reservoir site in 2025.

| Month Tagged | Tag Location | VIE Color | # Tagged | # Recaptured to Date |
|---------------|--------------|-----------|----------|----------------------|
| February 2025 | Left Dorsal | Yellow | 1 | 0 |

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon during the reporting period is provided in Table 56 and target species injuries for the duration of the season are provided in Appendix A.

Table 56. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon for Sampling Period. (Fall Creek Head of Reservoir).

| # CHS Collected | # DSC <20% | # DSC >20% | # with Body Injuries | # with Eye Injuries | # with COP In B.C. | # with COP on Fins | Mortalities | GBD |
|-----------------|------------|------------|----------------------|---------------------|--------------------|--------------------|-------------|-----|
| 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Non-Target Species

111 non-target fish were captured at Fall Creek Head of Reservoir this reporting period. Non-target data is summarized below in Table 57.

Table 57. Summary of Non-target Species (Fall Creek Head of Reservoir).

| Species | Capture | Mortality | Season Total | Season Total Mortality |
|----------------------------|------------|-----------|--------------|------------------------|
| Brook Lamprey | 5 | 0 | 6 | 0 |
| Brown Bullhead | 0 | 0 | 0 | 0 |
| Cutthroat Trout | 26 | 0 | 81 | 2 |
| Dace | 34 | 1 | 40 | 3 |
| Chinook (clipped) | 0 | 0 | 1 | 0 |
| Largescale Sucker | 1 | 0 | 7 | 0 |
| Northern Pikeminnow | 1 | 0 | 2 | 0 |
| <i>O. mykiss</i> | 41 | 0 | 151 | 2 |
| <i>O. mykiss</i> (clipped) | 0 | 0 | 0 | 0 |
| Pacific Lamprey | 0 | 0 | 0 | 0 |
| Redside Shiner | 0 | 0 | 0 | 0 |
| Sculpin | 3 | 1 | 3 | 1 |
| Unknown Lamprey | 0 | 0 | 0 | 0 |
| Totals | 111 | 2 | 291 | 8 |

Stream Statistics

Basic stream statistics at the Fall Creek Head of Reservoir site were calculated from data downloaded from the U.S. Geological Survey stream gage number 14150290 (Figure 57). Stream temperatures were recorded every 2 hours for the Fall Creek Head of Reservoir RST (Figure 58). Catch per unit of effort (CPUE) data are summarized in Table 58. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 58. Summary of Chinook CPUE, Fall Creek Head of Reservoir.

| Descriptions | Chinook |
|----------------|---------|
| Catch | 0 |
| Effort (hrs) | 328.3 |
| CPUE (fish/hr) | 0.0 |

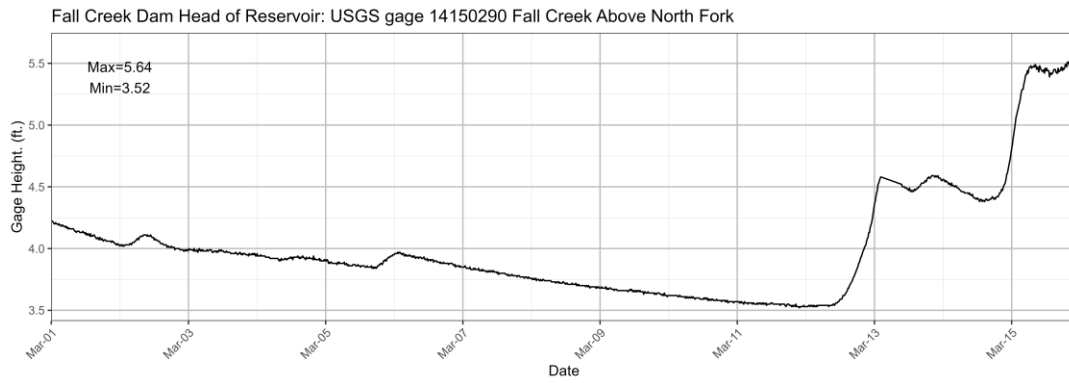


Figure 57. Gage Height (feet); Fall Creek Above North Fork, Near Lowell OR.

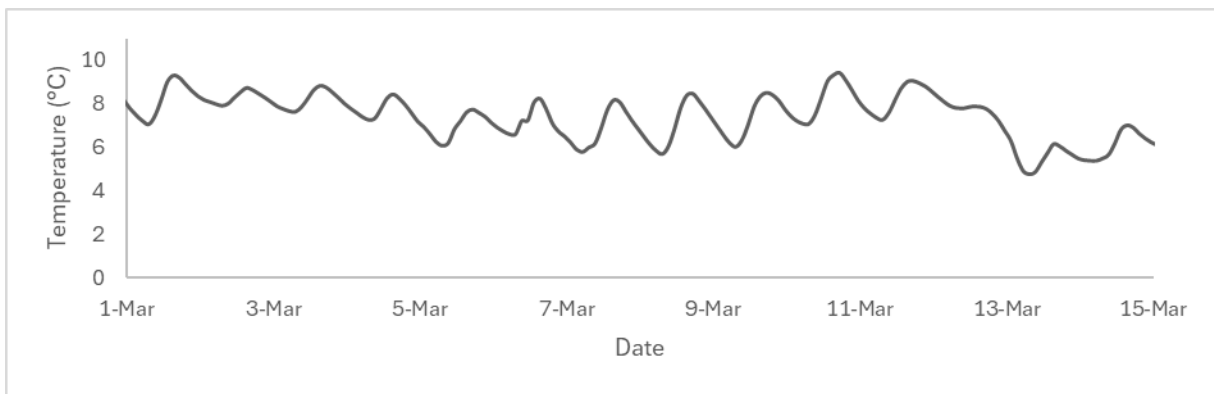


Figure 58. Temperature at RST (Fall Creek Head of Reservoir).

Fall Creek Dam Tailrace

The RST in the Fall Creek Dam Tailrace began sampling under contract W9127N19D0009 on September 30, 2023. Sampling at Fall Creek Dam Tailrace prior to September 30, 2023, was conducted by EAS for the USACE under contract W9127N19D0007.

Target Species

There were 0 Chinook Salmon (CHS) captured for the reporting period (Figure 59). Sampling duration was 100.0% of the reporting period for the RST. Figure 60 shows length frequency data to-date and Table 59 displays life stage, length, and weight data for all Chinook salmon that have been caught at the Fall Creek Dam Tailrace site to-date.

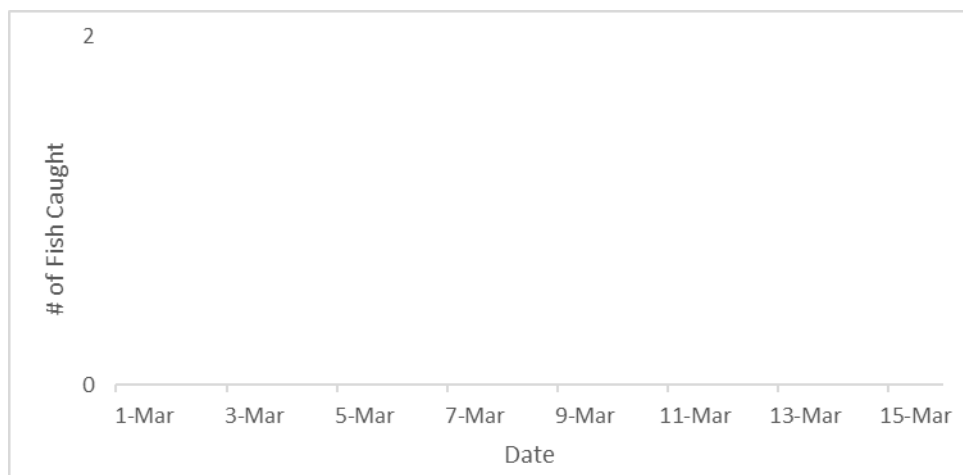


Figure 59. Chinook captured Per Day for the Reporting Period (Fall Creek Dam Tailrace).

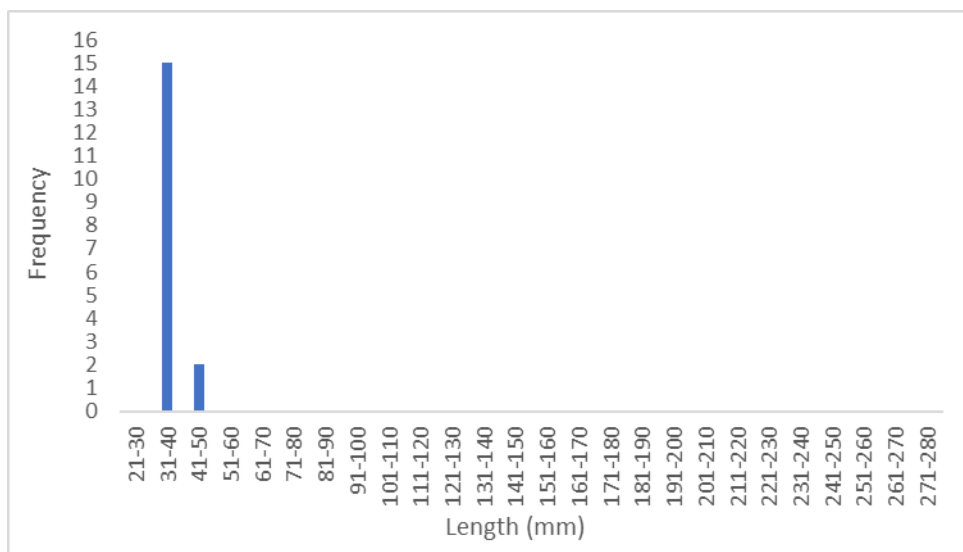


Figure 60. Length Frequency of Juvenile Chinook Sampled Season To-Date (Fall Creek Dam Tailrace).

Table 59. Descriptive Statistics of Target Species Captured at Fall Creek Dam Tailrace To-Date and for the Reporting Period.

| To-Date (since Jan 1, 2025) | | | | | | | | | | |
|-----------------------------|-------|---------|------------|-----------|--------------|-----|------|-------------|-----|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Fall Creek Dam | RO | CHS | Fry | 17 | 31 | 43 | 35.8 | 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 |

| Reporting Period | | | | | | | | | | |
|------------------|-------|---------|------------|-----------|--------------|-----|------|-------------|-----|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Fall Creek Dam | RO | 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 |

Trapping Efficiency

No hatchery Chinook are available for trapping efficiency trials at the Fall Creek Dam RST site for 2025. Please refer to appendix C for a summary of trapping efficiency trials performed at this site prior to 2025.

24-Hour Post Collection Holding Trial

0 Spring Chinook were captured during the current reporting period and held for 24 hours. 0 Chinook (0.0%) died in holding.

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon during the reporting period is provided in Table 60, and target species injuries for the duration of the season are provided in Appendix A.

Table 60. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon for Sampling Period (Fall Creek Dam).

| # CHS Collected | # DSC <20% | # DSC >20% | # with Body Injuries | # with Eye Injuries | # with COP In B.C. | # with COP on Fins | Mortalities | GBD |
|-----------------|------------|------------|----------------------|---------------------|--------------------|--------------------|-------------|-----|
| 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Collected DNA and Scale Samples

Scales were collected from 0 Spring Chinook and DNA was collected from 0 Spring Chinook during this reporting period. The other targets captured did not meet length criteria for DNA sampling or were too damaged to remove scales.

PIT Tags

No Spring Chinook were PIT tagged during this reporting period. The first 60 target fish per week are prioritized for the 24-Hour Post Collection Holding Study. These fish are not tagged to not bias the results of the holding study. More information regarding PIT tagged fish can be found in Appendix D.

VIE Marking

No VIE marked Spring Chinook have been detected at this site to date. VIE marking upstream of the Fall Creek Dam RST ceased on February 27, 2025. All captured fish are assessed for the presence of VIE marks.

Non-Target Species

138 non-target fish were captured at the Fall Creek Dam Tailrace site during the reporting period; the data is summarized below in Table 61.

Table 61. Summary of Non-target Species (Fall Creek Dam Tailrace).

| Species | Capture | Mortality | Season Total | Season Total Mortality |
|----------------------------|------------|-----------|--------------|------------------------|
| Bluegill | 0 | 0 | 0 | 0 |
| Brook Lamprey | 4 | 0 | 13 | 0 |
| Brown Bullhead | 11 | 1 | 69 | 9 |
| Chinook (clipped) | 0 | 0 | 0 | 0 |
| Cutthroat Trout | 2 | 0 | 65 | 3 |
| Dace | 105 | 8 | 188 | 12 |
| Largescale Sucker | 8 | 0 | 21 | 1 |
| Mosquitofish | 0 | 0 | 0 | 0 |
| Mountain Whitefish | 0 | 0 | 6 | 2 |
| Northern Pikeminnow | 0 | 0 | 0 | 0 |
| <i>O. mykiss</i> | 2 | 0 | 53 | 0 |
| <i>O. mykiss</i> (clipped) | 1 | 0 | 7 | 0 |
| Pacific Lamprey | 1 | 0 | 3 | 0 |
| Peamouth | 0 | 0 | 0 | 0 |
| Redside Shiner | 0 | 0 | 0 | 0 |
| Sculpin | 4 | 0 | 9 | 1 |
| Unknown Salmonid | 0 | 0 | 0 | 0 |
| Unknown | 0 | 0 | 1 | 1 |
| Totals | 138 | 9 | 435 | 29 |

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 (Figure 61). Dissolved oxygen (mg/L) concentration data was received from gage 1415000, 1.2 rkms downstream of the trap (Figure 62). Stream temperatures were recorded every 2 hours using a temperature probe at the Fall Creek Dam RST site during this reporting period. Flows In and Out of reservoir during the reporting period are displayed in Figure 64. Catch per unit of effort (CPUE) data are summarized in Table 62. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 62. Summary of Chinook CPUE, Fall Creek Dam Tailrace.

| Description | Chinook |
|----------------|---------|
| Catch | 0 |
| Effort (hrs) | 358.8 |
| CPUE (fish/hr) | 0.0 |

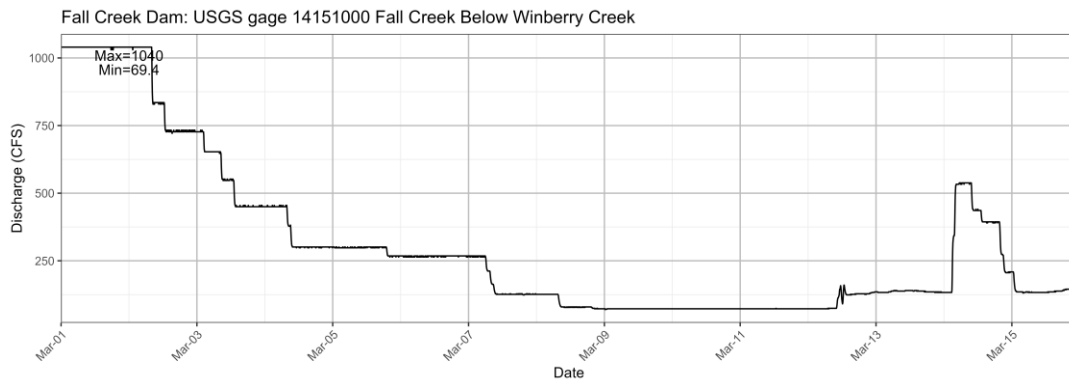


Figure 61. Discharge (cfs); Fall Creek Below Winberry Creek, Near Fall Creek, OR

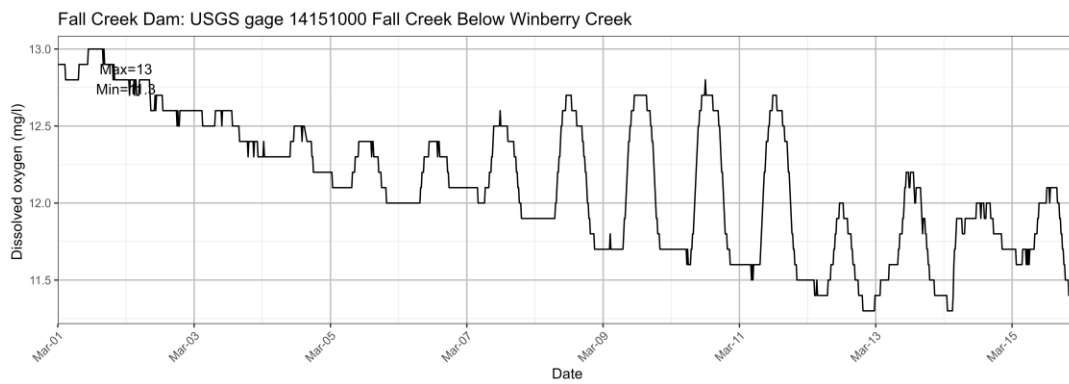


Figure 62. Dissolved Oxygen (mg/L), Fall Creek below Winberry Creek, Near fall Creek, OR



Figure 63. Temperature at RST (Fall Creek Dam Tailrace).

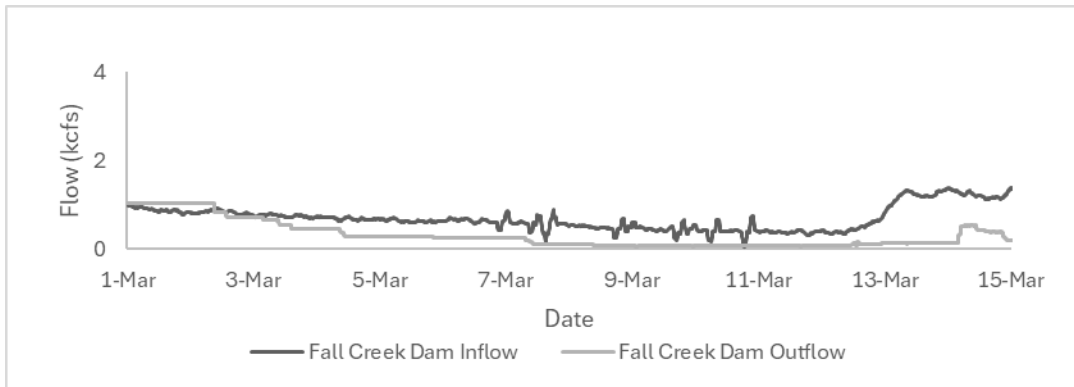


Figure 64. Hourly Flows Inflow vs. Outflow (RO) (Fall Creek Tailrace).

Middle Fork Willamette River – Hills Creek Head of Reservoir

The Hills Creek Head of Reservoir RST was installed January 21st, 2025 and began February 1st, 2025.

Target Species

There were 0 Chinook Salmon (CHS) captured for the reporting period (Figure 65). Sampling duration was 100.0% of the reporting period for the 5ft RST. Figure 66 shows length frequency data to-date. Table 63 provides life stage, length, and weight data for all Chinook Salmon that have been caught at the Hills Creek Head of Reservoir site to-date and for the reporting period.

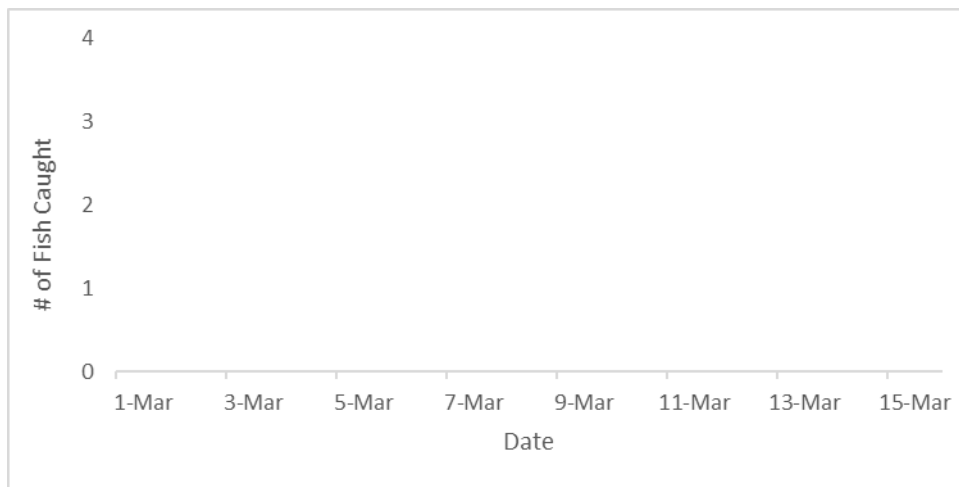


Figure 65. Chinook Captured Per Day for the Reporting Period (Hills Creek Head of Reservoir).

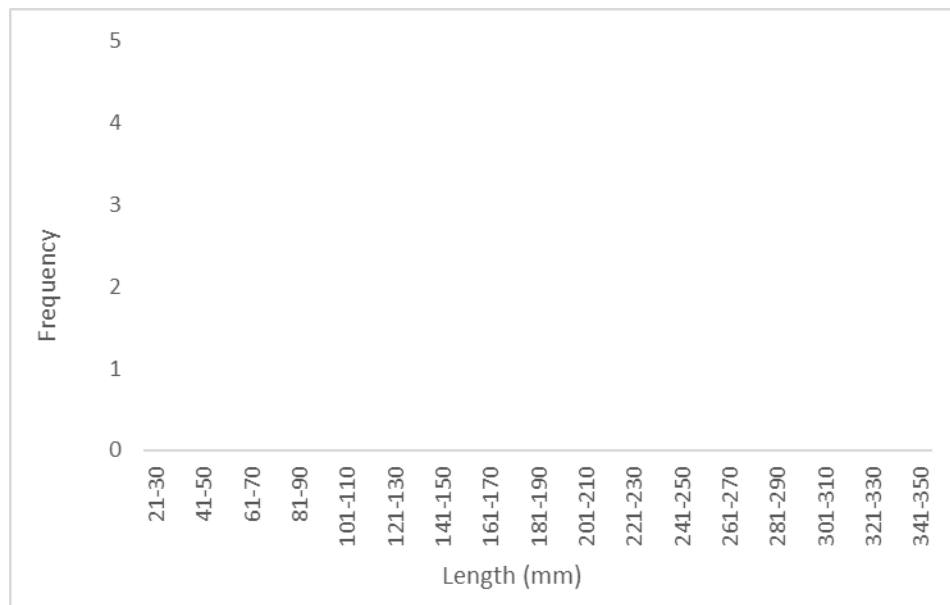


Figure 66. Length Frequency of Juvenile Chinook Sampled Season To-Date (Hills Creek Head of Reservoir).

Table 63. Descriptive Statistics of Target Species Captured at Hills Creek Head of Reservoir To-Date

| To-Date (Since February 1, 2025) | | | | | | | | | | |
|----------------------------------|-------|---------|------------|-----------|--------------|-----|------|-------------|-----|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Hills Creek Head of Reservoir | 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 or caudal fins are not included in length and weight calculations.

| Reporting Period | | | | | | | | | | |
|-------------------------------|-------|---------|------------|-----------|--------------|-----|------|-------------|-----|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Hills Creek Head of Reservoir | 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 or caudal fins are not included in length and weight calculations.

Trapping Efficiency

No hatchery Chinook are available for trapping efficiency trials at the Hills Creek Dam RST site for 2025. Please refer to appendix C for a summary of trapping efficiency trials performed at this site prior to 2025.

Run of River Trapping Efficiency

Run of river fish captured in the RST have been differentially marked and released upstream to perform run of river trapping efficiency trials. This year, 0 Spring Chinook have been marked and released upstream for the purpose of conducting run of river trapping efficiency trials. Release numbers and recaptures for this reporting period are summarized below (Table 64).

Run of river trapping efficiency has been discontinued until daily catch rates increase.

Table 64. Run of River Trapping Efficiency (Hills Creek Head of Reservoir).

| Hills Creek Head of Reservoir | Release (Current Reporting Period) # | Recapture (Current Reporting Period) # |
|-------------------------------|--------------------------------------|--|
| Chinook | 0 | 0 |

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon during the reporting period is provided in Table 65, and target species injuries for the duration of the season are provided in Appendix A.

Table 65. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon for Sampling Period (Hills Creek Head of Reservoir).

| # CHS Collected | # DSC <20% | # DSC >20% | # with Body Injuries | # with Eye Injuries | # with COP In B.C. | # with COP on Fins | Mortalities | GBD |
|-----------------|------------|------------|----------------------|---------------------|--------------------|--------------------|-------------|-----|
| 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Collected DNA and Scale Samples

For the reporting period, DNA was collected from 0 Spring Chinook. Scales were collected from 0 Spring Chinook. The other targets captured did not meet length criteria for DNA sampling or were too damaged.

PIT Tags

No Spring Chinook were PIT tagged during this reporting period. More information regarding PIT tagged fish can be found in Appendix D.

VIE Marking

A total of 0 Spring Chinook were VIE marked with fluorescent elastomer in 2025. VIE marking ceased on February 27, 2025. All captured fish are assessed for the presence of VIE marks. VIE tag color was changed every month to distinctly mark groups of fish by capture date. No fish with VIE marks have been detected at downstream RST sites to date. Fish still showing an egg sac were not VIE marked. A summary of VIE marked fish is shown below (Table 66).

Table 66. Summary of VIE Marked Fish (Hills Creek Head of Reservoir).

| Month Tagged | Species | Tag Location | VIE Color | # Tagged | # Recaptured to Date |
|--------------|---------|--------------|-----------|----------|----------------------|
| N/A | Chinook | Left Dorsal | N/A | 0 | 0 |

Non-Target Species

18 non-target species were captured during this reporting period. A summary of non-target fish capture is provided in Table 67.

Table 67. Summary of Non-target Species (Hills Creek Head of Reservoir).

| Species | 5 ft Capture | 5 ft Mortality | Season Total | Season Total Mortality |
|----------------------------|--------------|----------------|--------------|------------------------|
| Bull Trout | 0 | 0 | 0 | 0 |
| Chinook (clipped) | 0 | 0 | 0 | 0 |
| Cutthroat | 6 | 0 | 9 | 0 |
| Dace | 1 | 0 | 2 | 0 |
| Lamprey | 1 | 0 | 1 | 0 |
| Largescale Sucker | 0 | 0 | 0 | 0 |
| <i>O. mykiss</i> (clipped) | 0 | 0 | 0 | 0 |
| <i>O. mykiss</i> | 5 | 0 | 7 | 0 |
| Redside Shiner | 1 | 0 | 0 | 0 |
| Sculpin | 4 | 0 | 5 | 0 |
| Totals | 18 | 0 | 26 | 0 |

Stream Statistics

Basic stream statistics at the Hills Creek Head of Reservoir site were calculated from data downloaded from the U.S. Geological Survey stream gage number 14144800 (Figure 67). Stream temperatures were recorded every 2 hours for the length of the report period for the RST (Figure 68). Catch per unit of effort (CPUE) data is summarized in Table 68. Gage height and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 68. Summary of CPUE, Hills Creek Head of Reservoir.

| Description | Chinook 5 ft |
|----------------|--------------|
| Catch | 0 |
| Effort (hrs) | 360.9 |
| CPUE (fish/hr) | 0.0 |

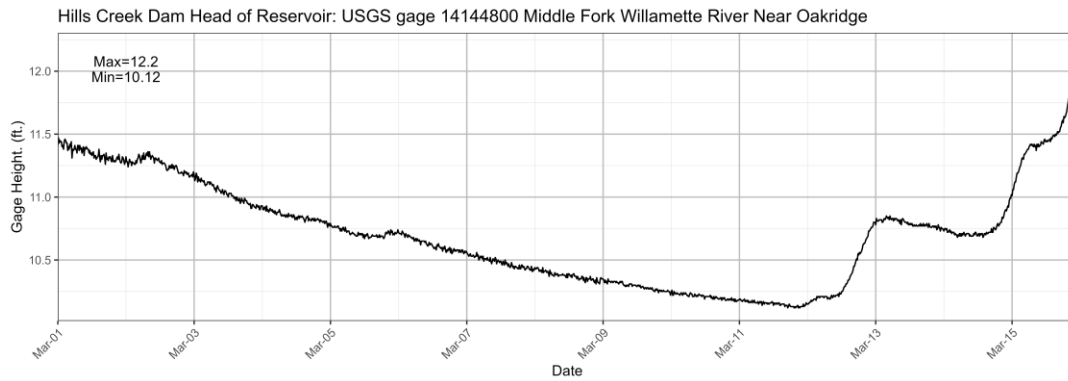


Figure 67. Gage Height (feet); Hills Creek Head of Reservoir, Near Oakridge, OR.

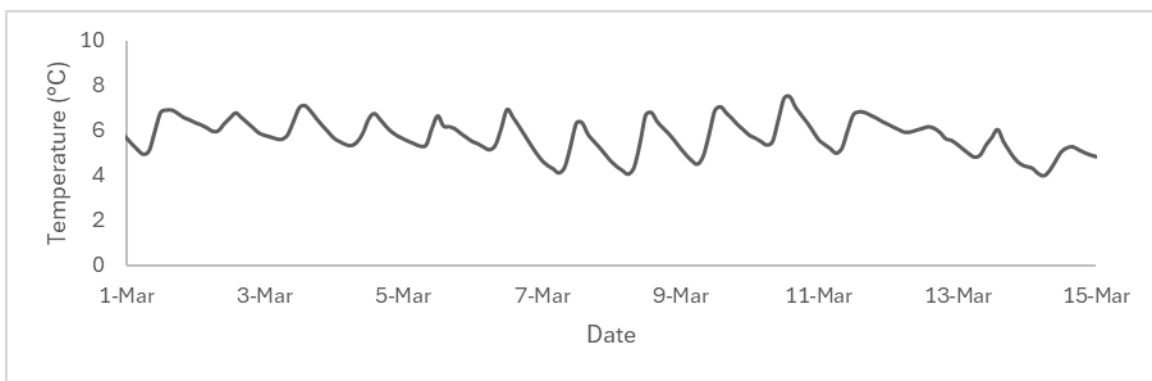


Figure 68. Temperature at RST (Hills Creek Head of Reservoir)

Middle Fork Willamette River – Hills Creek Dam Tailrace

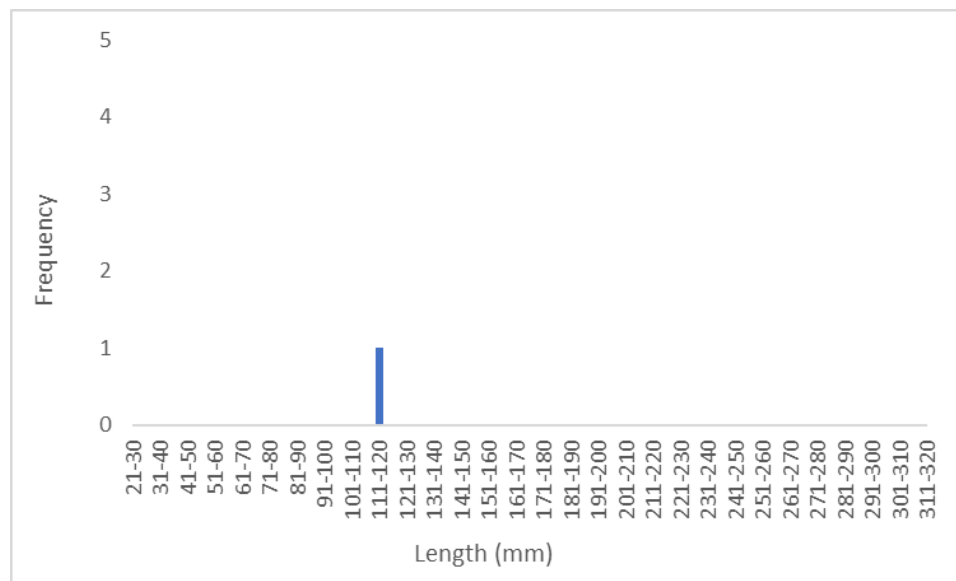
The RSTs in the Hills Creek Dam Tailrace began sampling under contract W9127N19D0009 on September 15th, 2023. Sampling at Hills Creek Dam Tailrace prior to September 15th, 2023 was conducted by EAS for the USACE under contract W9127N19D0007.

Target Species

For the reporting period, there were 0 Chinook Salmon (CHS) captured (Figure 69). Sampling duration was 100.0% of the reporting period for the RST. Table 69 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 70 shows length frequency data to-date.



Figure 69. Chinook Captured Per Day for the Reporting Period (Hills Creek Dam Tailrace).



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

Figure 70. Length Frequency of Juvenile Chinook Sampled in 2025 (Hills Creek Dam Tailrace).

Table 69. Descriptive Statistics of Target Species Captured at Hills Creek Dam To-Date and for the Reporting Period.

| To-Date (Since Jan. 1, 2025) | | | | | | | | | | |
|------------------------------|-------|---------|------------|-----------|--------------|-----|-------|-------------|------|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Hills Creek | RO | 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 | 1 | 119 | 119 | 119.0 | 20.6 | 20.6 | 20.6 |
| Hills Creek | PH | 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 |

| Reporting Period | | | | | | | | | | |
|------------------|-------|---------|------------|-----------|--------------|-----|------|-------------|-----|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Hills Creek | RO | 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 |
| Hills Creek | PH | 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

No hatchery Chinook are available for trapping efficiency trials at the Hills Creek Dam RST site for 2025. Please refer to appendix C for a summary of trapping efficiency trials performed at this site prior to 2025.

Run of River Trapping Efficiency

No run of river trapping efficiency trials were performed this reporting period. Run of river trapping efficiency trials have been discontinued until daily catch rates increase. Release numbers and recaptures by trap for this reporting period are summarized below (Table 70).

Table 70. Run of River Trapping Efficiency (Hills Creek Dam).

| Release (Current Reporting Period) # | Recapture Location | Recapture (Current Reporting Period) # |
|--------------------------------------|--------------------|--|
| 0 | PH Trap | 0 |
| | RO Trap | 0 |

24-Hour Post Collection Holding Trial

0 Spring Chinook were held from the PH RST and 0 were held from the RO RST. 0 hold fish died from the PH RST (0.0%). 0 of the fish from RO RST died during holding (0.0%).

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon during the reporting period is provided in Table 71, and target species injuries for the duration of the season are provided in Appendix A.

Table 71. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon for Sampling Period. (Hills Creek Dam).

| Route | # CHS Collected | # DSC <20% | # DSC >20% | # with Body Injuries | # with Eye Injuries | # with COP In B.C. | # with COP on Fins | Mortalities | GBD |
|-------|-----------------|------------|------------|----------------------|---------------------|--------------------|--------------------|-------------|-----|
| RO | 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| PH | 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Collected DNA and Scale Samples

For the reporting period, DNA was collected from 0 Spring Chinook. Scales were collected from 0 Spring Chinook. The other targets captured did not meet length criteria for DNA sampling or were too damaged.

PIT Tags

0 Spring Chinook were PIT tagged during this reporting period. The first 60 target fish per week are prioritized for the 24-Hour Post Collection Holding Study. These fish are not tagged to not bias the results of the holding study. More information regarding PIT tagged fish can be found in Appendix D.

VIE Marking

No Spring Chinook had been VIE marked with fluorescent elastomer in 2025. VIE marking at the Hills Creek Dam RST sites and sites upstream of Hills Creek Dam ceased on February 27, 2025. All captured fish are assessed for the presence of VIE marks. VIE tag color and locations were changed every month to distinctly mark groups of fish by capture date. The first 60 target fish per week are prioritized for the 24-Hour Post Collection Holding Study. These fish are not tagged to not bias the results of the holding study. Fish still showing an egg sac were not VIE marked. A summary of VIE marked fish at the Hills Creek Dam site is available in Table 72. More information regarding VIE marked fish can be found in Appendix D.

Table 72. Summary of VIE Marked Fish (Hills Creek Dam).

| Month Tagged | Tag Location | VIE Color | # Tagged | # Recaptured to Date |
|--------------|--------------|-----------|----------|----------------------|
| N/A | Head | N/A | 0 | 0 |

Non-Target Species

40 non-target fish were captured at Hills Creek during the reporting period; the data is summarized below in Table 73.

Table 73. Summary of Non-target Species (Hills Creek Dam).

| Species | RO Capture | RO Mortality | PH Capture | PH Mortality | Season Total | Season Total Mortality |
|----------------------------|------------|--------------|------------|--------------|--------------|------------------------|
| Bluegill | 0 | 0 | 7 | 3 | 112 | 63 |
| Brook Lamprey | 0 | 0 | 0 | 0 | 0 | 0 |
| Brown Bullhead | 0 | 0 | 0 | 0 | 2 | 1 |
| Chinook (clipped) | 0 | 0 | 0 | 0 | 2 | 2 |
| Crappie | 2 | 0 | 6 | 5 | 318 | 252 |
| Cutthroat | 0 | 0 | 0 | 0 | 2 | 0 |
| Dace | 1 | 0 | 3 | 0 | 7 | 0 |
| Largemouth Bass | 0 | 0 | 0 | 0 | 3 | 1 |
| Largescale Sucker | 1 | 0 | 1 | 1 | 36 | 15 |
| Mountain Whitefish | 0 | 0 | 0 | 0 | 0 | 0 |
| Northern Pikeminnow | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>O. mykiss</i> (clipped) | 0 | 0 | 2 | 0 | 34 | 18 |
| <i>O. mykiss</i> | 0 | 0 | 4 | 1 | 20 | 4 |

| Species | RO Capture | RO Mortality | PH Capture | PH Mortality | Season Total | Season Total Mortality |
|-----------------|------------|--------------|------------|--------------|--------------|------------------------|
| Pumpkinseed | 0 | 0 | 0 | 0 | 0 | 0 |
| Redside Shiner | 0 | 0 | 3 | 0 | 5 | 0 |
| Sculpin | 1 | 0 | 7 | 0 | 12 | 1 |
| Smallmouth Bass | 0 | 0 | 0 | 0 | 2 | 2 |
| Spotted Bass | 0 | 0 | 1 | 0 | 9 | 2 |
| Unknown Bass | 0 | 0 | 1 | 1 | 3 | 3 |
| Unknown | 0 | 0 | 0 | 0 | 1 | 0 |
| Walleye | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals | 5 | 0 | 35 | 12 | 568 | 365 |

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 gage (Figure 71). Total dissolved gas saturation data was received from gauge 14145500, 1.4 rkms downstream of the trap (Figure 72). Stream temperatures were recorded every two hours using temperature probes at the Hills Creek Dam RST's during this reporting period (Figure 73 and Figure 74). Flows through the PH and RO during the reporting period are displayed in Figure 75. Catch per unit of effort (CPUE) data are summarized in Table 74. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 74. Summary of Chinook CPUE, Hills Creek Dam.

| Descriptions | Chinook | |
|----------------|-----------|-----------|
| | RO (5 ft) | PH (8 ft) |
| Catch | 0 | 0 |
| Effort (hrs) | 360.7 | 361.0 |
| CPUE (fish/hr) | 0.0 | 0.0 |

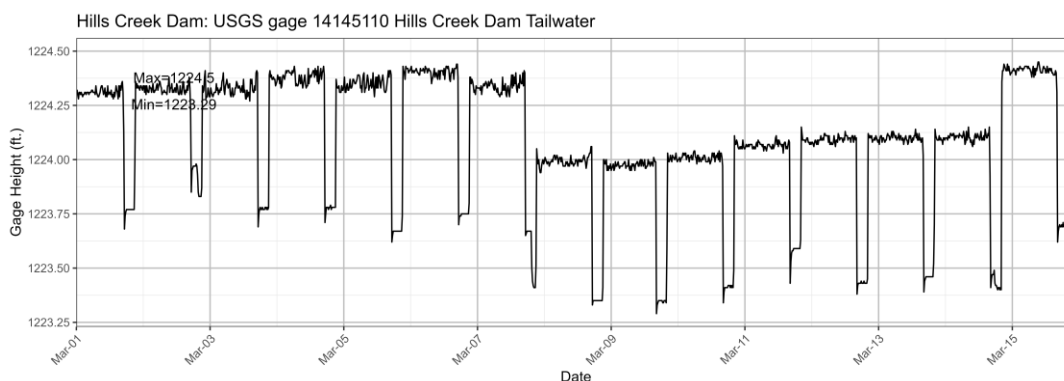


Figure 71. Gauge Height (feet); below Hills Creek Dam - Middle Fork Willamette River.

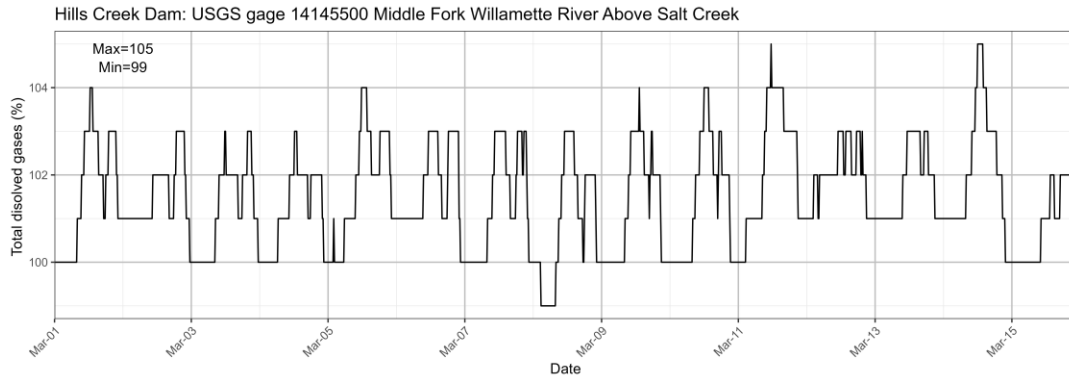


Figure 72. Total Dissolved Gas Saturation (%); below Hills Creek Dam – Middle Fork Willamette River.

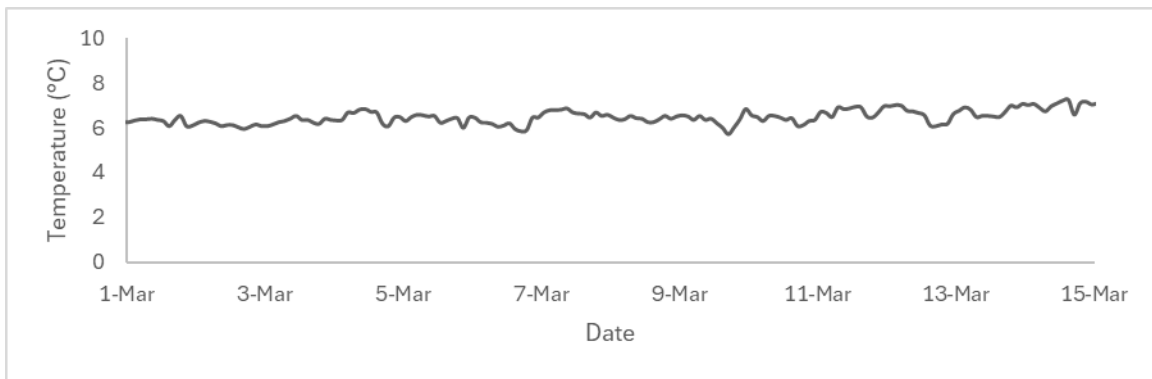


Figure 73. Temperature at Hills Creek RST PH (Hills Creek Dam).

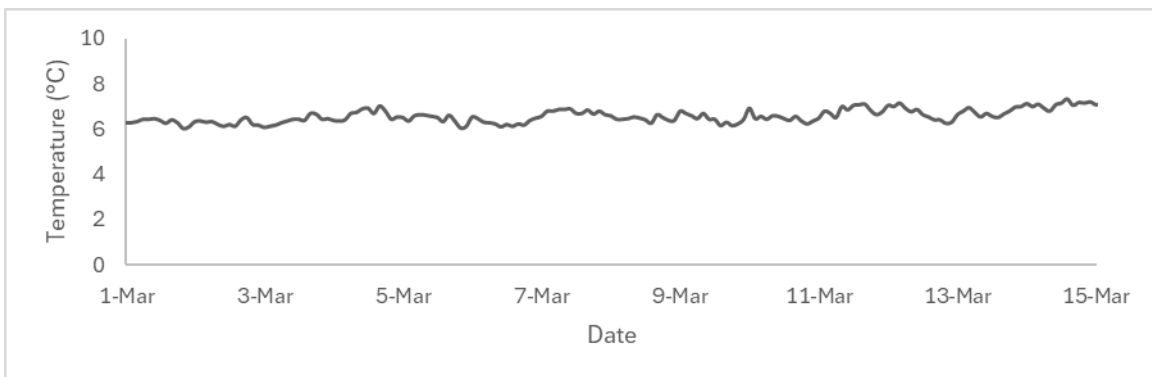


Figure 74. Temperature at Hills Creek RO RST (Hills Creek Dam).

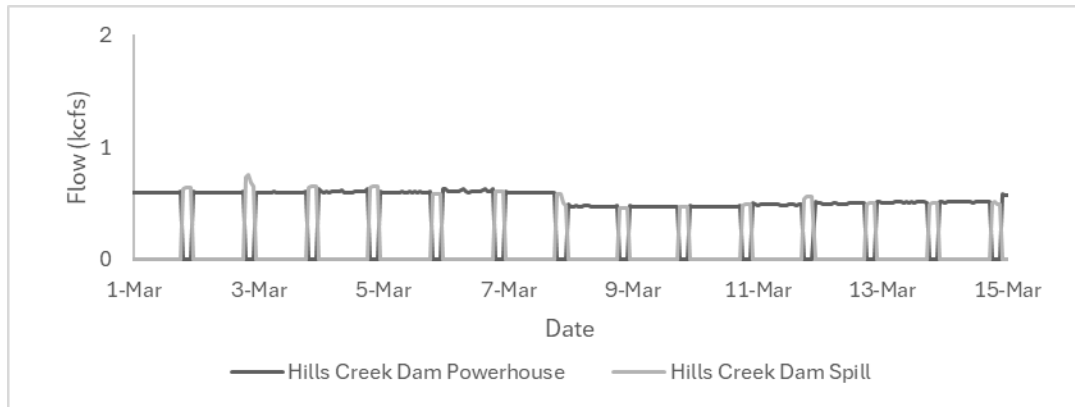


Figure 75. Hourly Flows PH vs. RO (Hills Creek Dam).

Middle Fork Willamette River – Lookout Point Head of Reservoir

The RST at Lookout Point Head of Reservoir began sampling under contract W9127N19D0009 on December 16, 2023. Sampling at Lookout Point Head of Reservoir prior to December 16, 2023 was conducted by EAS for the USACE under contract W9127N19D0007.

Target Species

For the reporting period, there was 1 Chinook Salmon (CHS) captured (Figure 76). Sampling duration was 100.0% of the reporting period for the RST. Table 75 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 77 shows length frequency data to-date.

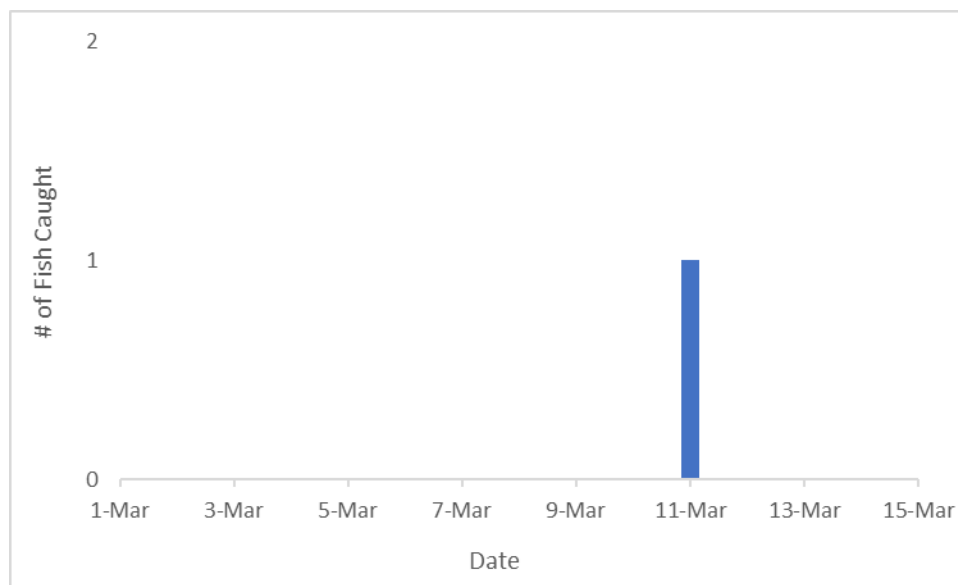


Figure 76. Chinook Captured Per Day for the Reporting Period (Lookout Point Head of Reservoir).

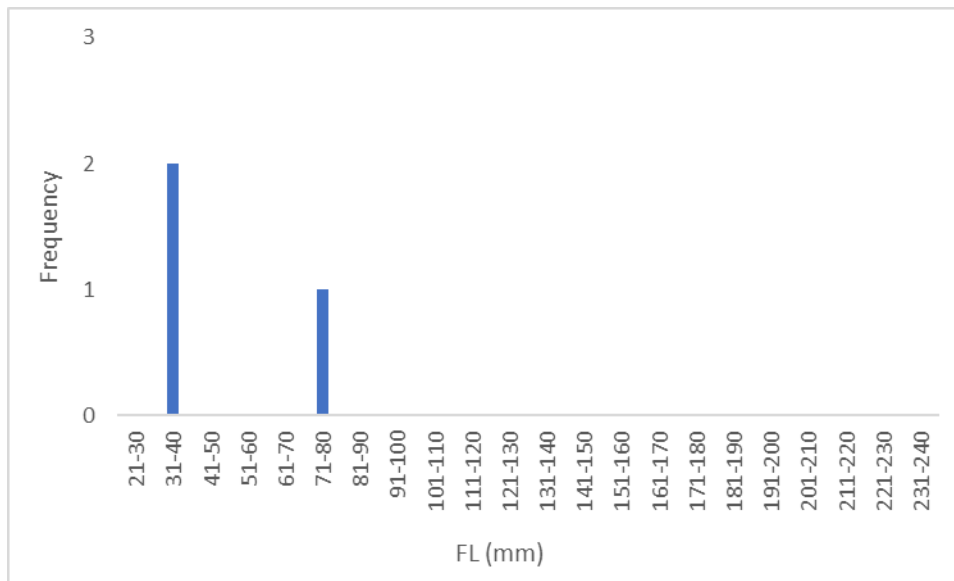


Figure 77. Length Frequency of Juvenile Chinook Sampled in 2025 (Lookout Point Head of Reservoir).

Table 75. Descriptive Statistics of Target Species Captured at Lookout Point Head of Reservoir To-Date and for the Reporting Period.

| To-Date (Since Jan. 1, 2025) | | | | | | | | | | |
|---------------------------------|-------|---------|------------|-----------|--------------|-----|------|-------------|-----|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Lookout Point Head of Reservoir | 5 ft | CHS | Fry | 2 | 36 | 39 | 37.5 | N/A | N/A | N/A |
| | | CHS | Parr | 1 | 72 | 72 | 72.0 | 4.4 | 4.4 | 4.4 |
| | | CHS | Smolt | 0 | N/A | N/A | N/A | N/A | N/A | N/A |

| Reporting Period | | | | | | | | | | |
|---------------------------------|-------|---------|------------|-----------|--------------|-----|------|-------------|-----|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Lookout Point Head of Reservoir | 5 ft | CHS | Fry | 0 | N/A | N/A | N/A | N/A | N/A | N/A |
| | | CHS | Parr | 1 | 72 | 72 | 72.0 | 4.4 | 4.4 | 4.4 |
| | | CHS | Smolt | 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

No hatchery Chinook are available for trapping efficiency trials at the Lookout Point Head of Reservoir RST site for 2025. Please refer to appendix C for a summary of trapping efficiency trials performed at this site prior to 2025.

Run of River Trapping Efficiency

Run of river trapping efficiency trials have been discontinued until daily catch rates increase.

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon during the reporting period is provided in Table 76, and target species injuries for the duration of the season are provided in Appendix A.

Table 76. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon for Sampling Period (Lookout Point Head of Reservoir).

| # CHS Collected | # DSC <20% | # DSC >20% | # with Body Injuries | # with Eye Injuries | # with COP In B.C. | # with COP on Fins | Mortalities | GBD |
|-----------------|------------|------------|----------------------|---------------------|--------------------|--------------------|-------------|-----|
| 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |

Collected DNA and Scale Samples

Genetics were collected from 1 Chinook captured for the reporting period. Scales were collected from 1 Chinook captured for the reporting period. The other targets captured did not meet length criteria for DNA sampling or were too damaged to remove scales.

PIT Tags

0 Spring Chinook were PIT tagged during this reporting period. The single NOR Chinook encountered this reporting period had major tears in the body and our crew were unable to PIT tag it. Refer to Appendix D for further information regarding PIT tags during this reporting period.

VIE Marking

A total of 1 Spring Chinook was VIE marked with fluorescent elastomer in 2025. VIE marking at the Lookout Point Head of Reservoir and upstream RST sites ceased on February 27, 2025. All captured fish are assessed for VIE marks. VIE tag color was changed every month to distinctly mark groups of fish by capture date. No fish with VIE marks have been detected at downstream RST sites to date. Fish still showing an egg sac were not VIE marked. A summary of VIE marked fish is shown in Table 77.

Table 77. Summary of VIE Marked Chinook at the Lookout Point Head of Reservoir site.

| Month Tagged | Tag Location | VIE Color | # Tagged | # Recaptured to Date |
|--------------|--------------|-----------|----------|----------------------|
| January 2025 | Left Dorsal | Green | 1 | 0 |

Non-Target Species

26 non-target species were captured during the reporting period; the data is summarized below in Table 78.

Table 78. Summary of Non-target Species (Lookout Point Head of Reservoir).

| Species | 5ft Capture | 5ft Mortality | Season Total | Season Total Mortality |
|----------------------------|-------------|---------------|--------------|------------------------|
| Bluegill | 0 | 0 | 3 | 2 |
| Chinook (clipped) | 1 | 0 | 1 | 0 |
| Crappie | 0 | 0 | 0 | 0 |
| Cutthroat Trout | 9 | 0 | 11 | 0 |
| Dace | 4 | 0 | 4 | 0 |
| Lamprey | 0 | 0 | 0 | 0 |
| Largescale Sucker | 0 | 0 | 0 | 0 |
| Largemouth Bass | 0 | 0 | 0 | 0 |
| Mountain Whitefish | 0 | 0 | 0 | 0 |
| Northern Pikeminnow | 2 | 0 | 2 | 0 |
| <i>O. mykiss</i> | 9 | 0 | 21 | 0 |
| <i>O. mykiss</i> (clipped) | 0 | 0 | 0 | 0 |
| Redside Shiner | 0 | 0 | 0 | 0 |
| Sculpin | 1 | 0 | 2 | 0 |
| Smallmouth Bass | 0 | 0 | 0 | 0 |

| Species | 5ft Capture | 5ft Mortality | Season Total | Season Total Mortality |
|---------------|-------------|---------------|--------------|------------------------|
| Walleye | 0 | 0 | 0 | 0 |
| Unknown | 0 | 0 | 0 | 0 |
| Totals | 26 | 0 | 44 | 2 |

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 (Figure 78). Stream temperatures were recorded every 2 hours using a temperature probe at the Lookout Point Head of Reservoir RST site during this reporting period. The temperature probe at the RST operated normally throughout the reporting period (Figure 79). Flows into Lookout Point Reservoir are displayed in Figure 80. Catch per unit of effort (CPUE) data are summarized in Table 79. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 79. Summary of Chinook CPUE at Lookout Point Head of Reservoir.

| Description | Chinook |
|----------------|---------|
| Catch | 1 |
| Effort (hrs) | 356.0 |
| CPUE (fish/hr) | 0.003 |

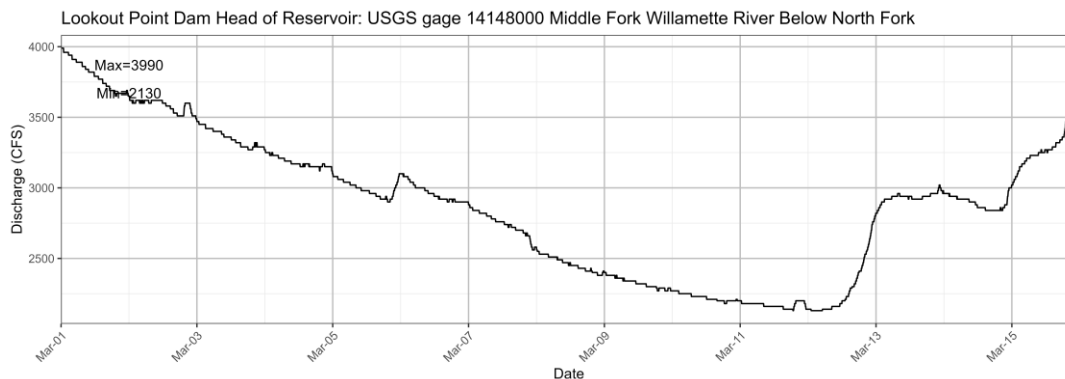


Figure 78. Discharge (cfs); above Lookout Point Reservoir, Below Oakridge, OR.

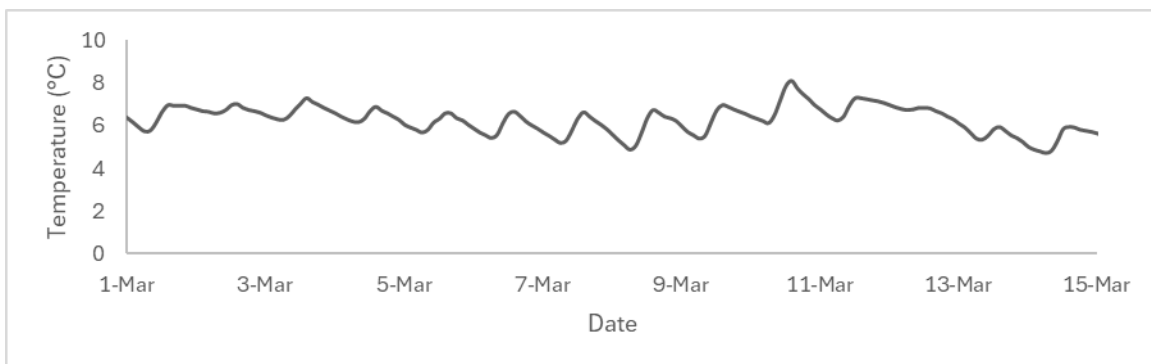


Figure 79. Temperature at RST (Lookout Point Head of Reservoir).

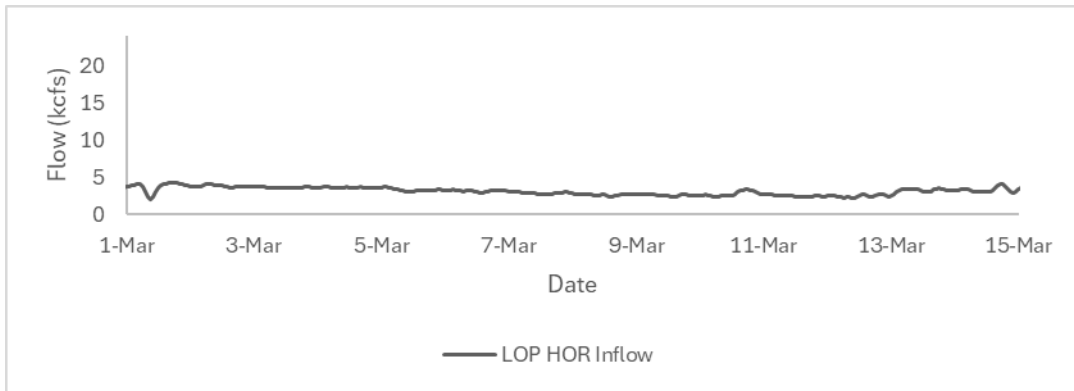


Figure 80. Hourly Flows (Lookout Point Head of Reservoir site).

Middle Fork Willamette River – Lookout Dam Tailrace

The RSTs in the Lookout Dam Tailrace began sampling under contract W9127N19D0009 on August 1, 2023. Sampling at Lookout Dam Tailrace prior to August 1, 2023 was conducted by EAS for the USACE under contract W9127N19D0007.

Target Species

For the reporting period, there were a total of 0 Chinook Salmon (CHS) captured (Figure 81). The RSTs were raised to the non-sampling position on February 28th through March 3rd due to a debris flush for the initiation of surface spill. Sampling duration was 93.3% of the reporting period for the RST. Table 80 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 82 shows length frequency data to-date.

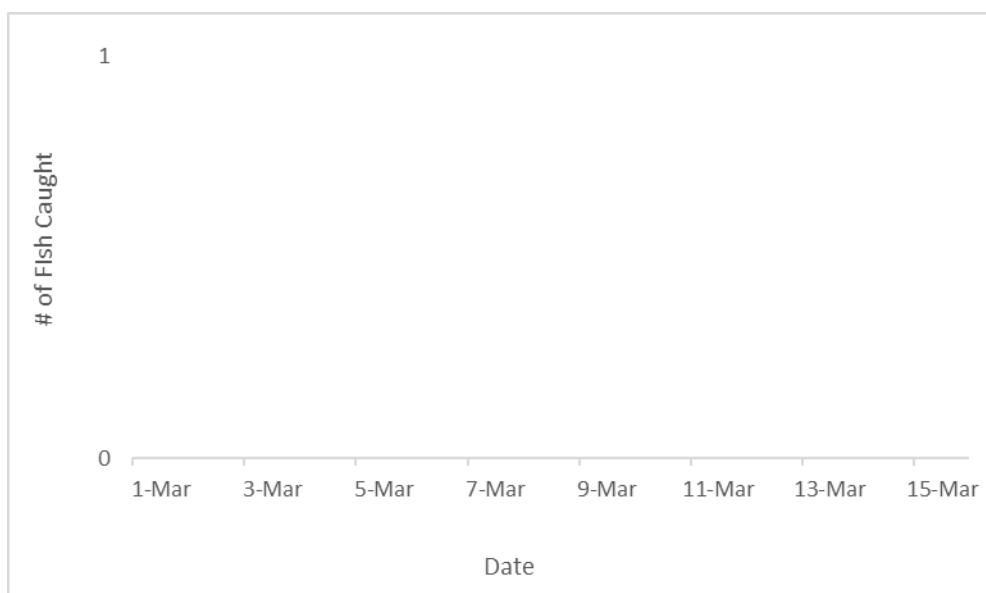


Figure 81. Chinook Captured Per Day for the Reporting Period (Lookout Point Dam Tailrace).

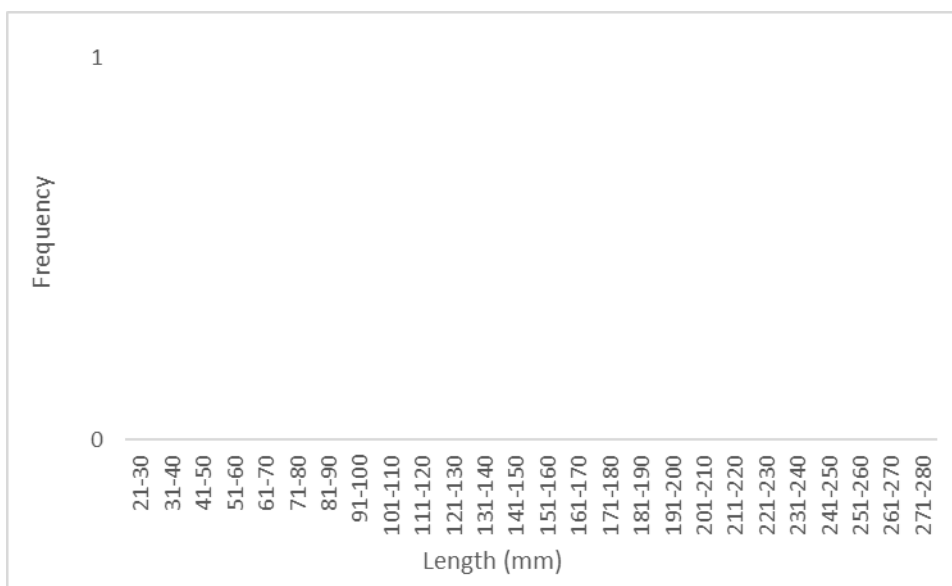


Figure 82. Length Frequency of Juvenile Chinook Sampled in 2025 (Lookout Point Dam Tailrace).

Table 80. Descriptive Statistics of Target Species Captured at Lookout Point Dam Tailrace To-Date and for the Reporting Period.

| To-Date (Since Jan. 1, 2025) | | | | | | | | | | |
|------------------------------|-------|---------|------------|-----------|--------------|-----|------|-------------|-----|------|
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Lookout Point Dam | PH 1 | 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 |
| | PH 2 | 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 |
| | Spill | 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 |
| Reporting Period | | | | | | | | | | |
| Site | Route | Species | Life stage | Collected | Length (mm)* | | | Weight (g)* | | |
| | | | | | Min | Max | Mean | Min | Max | Mean |
| Lookout Point Dam | PH 1 | 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 |
| | PH 2 | 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 |
| | Spill | 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 |

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

Trapping Efficiency

No hatchery Chinook are available for trapping efficiency trials at the Lookout Dam Tailrace RST site for 2025. Please refer to appendix C for a summary of trapping efficiency trials performed at this site prior to 2025.

24-Hour Post Collection Holding Trial

0 Spring Chinook were held from the PH RSTs and 0 were held from the Spill RST. 0 hold fish died from the PH RSTs (0.0%), and 0 hold fish were unable to be located after the 24 hour trial. 0 hold fish died from the Spill RST (0.0%).

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon during the reporting period is provided in Table 81 and target species injuries for the duration of the season are provided in Appendix A.

Table 81. Number of Descaled, Bodily/Eye Injured, Copepod Infected and Dead Chinook Salmon for Sampling Period (Lookout Point Dam Tailrace).

| Route | # CHS Collected | # DSC <20% | # DSC >20% | # with Body Injuries | # with Eye Injuries | # with COP In B.C. | # with COP on Fins | Mortalities | GBD |
|-------|-----------------|------------|------------|----------------------|---------------------|--------------------|--------------------|-------------|-----|
| Spill | 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| PH 1 | 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| PH 2 | 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Collected DNA and Scale Samples

DNA was collected from 0 Spring Chinook for the reporting period. Scales were collected from 0 Spring Chinook. The other targets captured did not meet length criteria for DNA sampling or were too damaged to remove scales.

PIT Tags

0 Spring Chinook were PIT tagged during this reporting period. The first 60 target fish per week are prioritized for the 24-Hour Post Collection Holding Study. These fish are not tagged to not bias the results of the holding study. More information regarding PIT tagged fish can be found in Appendix D.

VIE Marking

No VIE marked Spring Chinook have been marked or detected at this site to date. VIE marking at the Lookout Dam Tailrace RSTs and RST sites upstream of Lookout Point ceased on February 27, 2025. All captured fish are assessed for the presence of VIE marks.

Non-Target Species

22 non-target species were captured during the reporting period. The data is summarized below in Table 82.

Table 82. Summary of Non-target Species (Lookout Point Dam Tailrace).

| Species | PH Capture | PH Mortality | Spill Capture | Spill Mortality | Season Total | Season Total Mortality |
|-------------------|------------|--------------|---------------|-----------------|--------------|------------------------|
| Bluegill | 0 | 0 | 0 | 0 | 2 | 1 |
| Brown Bullhead | 0 | 0 | 0 | 0 | 2 | 0 |
| Chinook (clipped) | 0 | 0 | 0 | 0 | 1 | 0 |
| Crappie | 4 | 4 | 5 | 3 | 599 | 132 |
| Cutthroat | 0 | 0 | 2 | 0 | 3 | 0 |
| Dace | 0 | 0 | 0 | 0 | 0 | 0 |
| Largemouth Bass | 0 | 0 | 0 | 0 | 1 | 1 |

| Species | PH Capture | PH Mortality | Spill Capture | Spill Mortality | Season Total | Season Total Mortality |
|----------------------------|------------|--------------|---------------|-----------------|--------------|------------------------|
| Mountain Whitefish | 0 | 0 | 0 | 0 | 0 | 0 |
| Largescale Sucker | 0 | 0 | 0 | 0 | 2 | 0 |
| Northern Pikeminnow | 0 | 0 | 0 | 0 | 0 | 0 |
| <i>O. mykiss</i> | 0 | 0 | 0 | 0 | 2 | 0 |
| <i>O. mykiss</i> (clipped) | 0 | 0 | 0 | 0 | 0 | 0 |
| Pumpkinseed | 0 | 0 | 0 | 0 | 0 | 0 |
| Redside Shiner | 0 | 0 | 0 | 0 | 0 | 0 |
| Sculpin | 2 | 1 | 1 | 0 | 47 | 1 |
| Smallmouth Bass | 4 | 0 | 4 | 1 | 103 | 13 |
| Spotted Bass | 0 | 0 | 0 | 0 | 0 | 0 |
| Unknown Bass | 0 | 0 | 0 | 0 | 1 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 |
| Walleye | 0 | 0 | 0 | 0 | 1 | 0 |
| Totals | 10 | 5 | 12 | 4 | 764 | 148 |

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 (Figure 83). Stream temperatures were recorded every 2 hours using temperature probes at the PH and Spill Lookout Dam RST's during this reporting period. Temperature probes operated normally, and the data is shown below in (Figure 84 and Figure 85). Flows through the Powerhouse and Spill during the reporting period are displayed in Figure 86. Catch per unit of effort (CPUE) data are summarized in Table 83. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 83. Summary of Chinook CPUE at Lookout Point Dam Tailrace.

| Description | Chinook | | |
|----------------|---------|-------|-------|
| | PH 1 | PH 2 | Spill |
| Catch | 0 | 0 | 0 |
| Effort (hrs) | 292.9 | 292.9 | 293.1 |
| CPUE (fish/hr) | 0.0 | 0.0 | 0.0 |

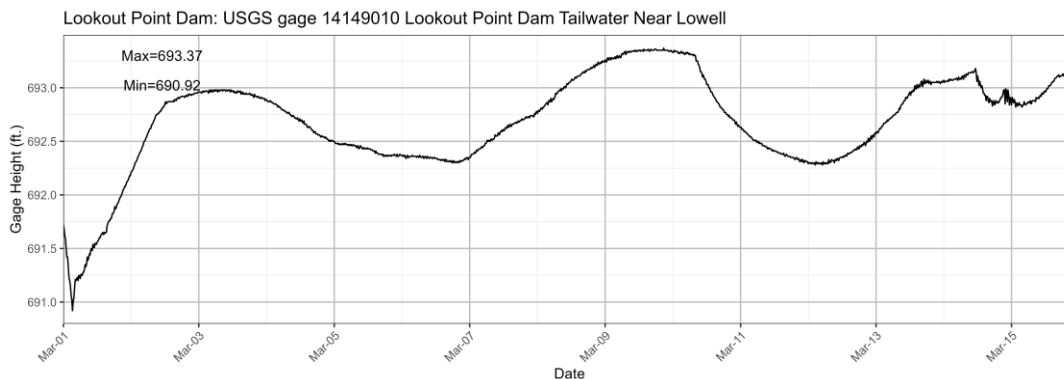


Figure 83. Gauge Height (feet); below Lookout Dam.

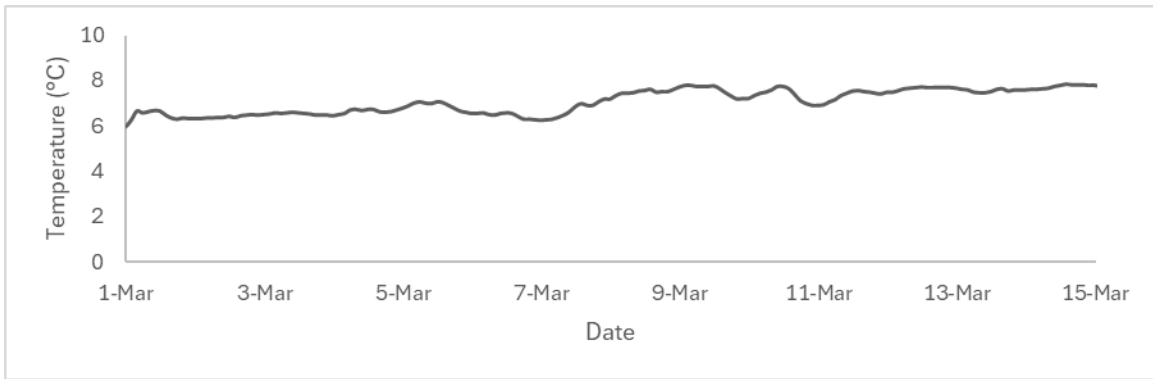


Figure 84. Temperature at RST (Lookout Dam PH).



Figure 85. Temperature at RST (Lookout Dam Spill).

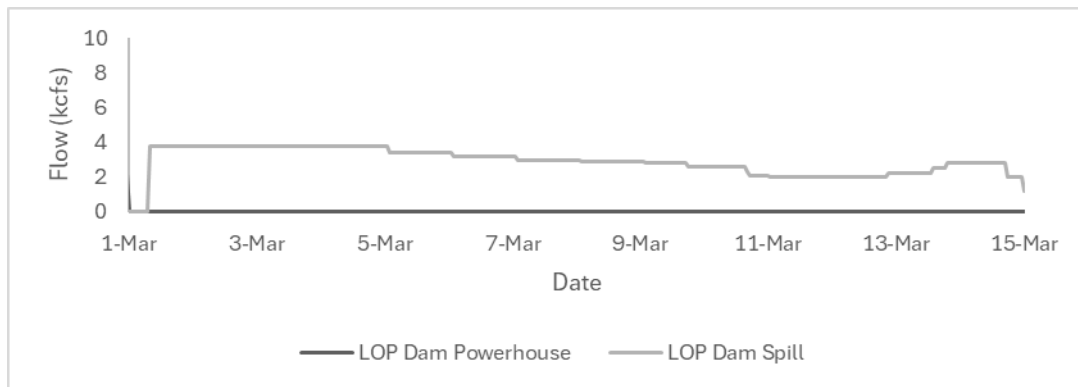


Figure 86. Hourly Flows PH vs. Spill (Lookout Dam Tailrace).

Middle Fork Willamette River– Dexter Dam Tailrace

The RST in the Dexter Dam Tailrace began sampling under contract W9127N19D0009 on December 16, 2023. Sampling at Dexter Dam Tailrace prior to December 16, 2023, was conducted by EAS for the USACE under contract W9127N19D0007.

On November 7, 2023, the Dexter Dam Tailrace RST was moved to a new sampling site further downstream to allow construction crews to perform work at the Dexter Fish Facility. The trap will be sampled at this location until construction activities at the facility are completed.

Target Species

For the reporting period, there were 0 Chinook Salmon (CHS) captured (Figure 87). Sampling duration was 100.0% of the reporting period for the RST. Table 84 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 88 shows length frequency data to-date for Chinook Salmon.

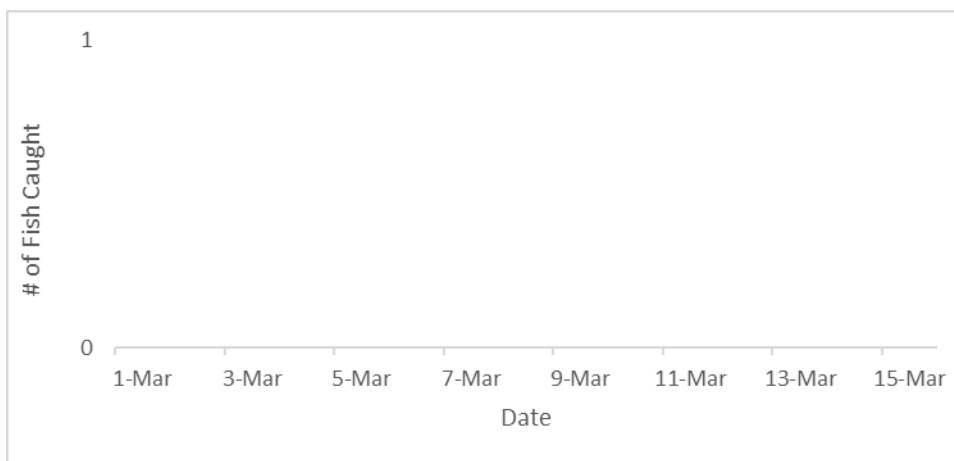


Figure 87. Chinook Captured Per Day for the Reporting Period (Dexter Dam).

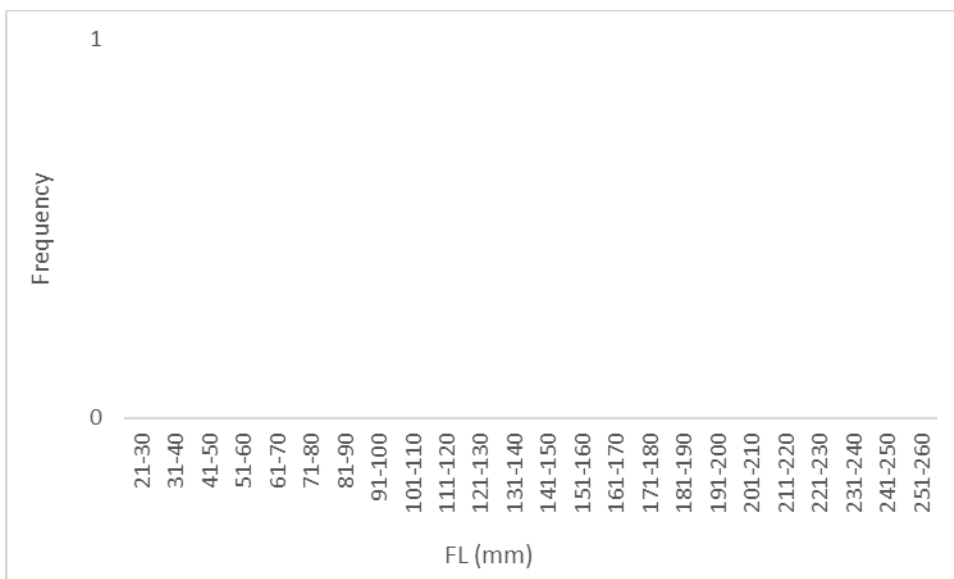


Figure 88. Length Frequency of Juvenile Chinook Sampled in 2025 (Dexter Dam).

Table 84. Descriptive Statistics of Target Species Captured at the Dexter Dam RST To-Date.

| To-Date (Since Jan. 1, 2025) | | | | | | | | | | |
|------------------------------|------|---------|------------|-----------|--------------|-----|------|-------------|-----|------|
| 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 |

| Reporting Period | | | | | | | | | | |
|------------------|------|---------|------------|-----------|--------------|-----|------|-------------|-----|------|
| 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

No hatchery Chinook are available for trapping efficiency trials at the Dexter Dam Tailrace RST site for 2025. Please refer to appendix C for a summary of trapping efficiency trials performed at this site prior to 2025.

24-Hour Post Collection Holding Trial

0 Spring Chinook were captured during the current reporting period and held for 24 hours. 0 Chinook (0.0%) died in holding.

Injuries and Copepod Infection

A summary of injuries observed on Chinook Salmon during the reporting period is provided in Table 85, and target species injuries for the duration of the season are provided in Appendix A.

Table 85. Number of Descaled, Bodily/Eye Injured. Copepod Infected and Dead Chinook Salmon for Sampling Period (Dexter Dam).

| # CHS Collected | # DSC <20% | # DSC >20% | # with Body Injuries | # with Eye Injuries | # with COP In B.C. | # with COP on Fins | Mortalities | GBD |
|-----------------|------------|------------|----------------------|---------------------|--------------------|--------------------|-------------|-----|
| 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

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 or were too damaged to remove scales.

PIT Tags

0 Spring Chinook were PIT tagged during this reporting period. The first 60 target fish per week are prioritized for the 24-Hour Post Collection Holding Study. These fish are not tagged to not bias the results of the holding study. More information regarding PIT tagged fish can be found in Appendix D.

VIE Marking

No VIE marked Spring Chinook have been detected at this site to date. VIE marking at sites upstream of Dexter Dam ceased on February 27, 2025. All captured fish are assessed for the presence of VIE marks.

Non-Target Species

186 non-target fish were captured during the reporting period. The data is summarized below in Table 86.

Table 86. Summary of Non-target Species (Dexter Dam).

| Species | Capture | Mortality | Season Total* | Season Total Mortality |
|----------------------------|------------|-----------|---------------|------------------------|
| Bass Unknown | 0 | 0 | 0 | 0 |
| Bluegill | 0 | 0 | 94 | 16 |
| Chinook (adult) | 0 | 0 | 0 | 0 |
| Chinook (clipped) | 0 | 0 | 5 | 0 |
| Crappie | 75 | 39 | 860 | 141 |
| Cutthroat Trout | 0 | 0 | 1 | 0 |
| Dace | 0 | 0 | 3 | 0 |
| Brown Bullhead Catfish | 0 | 0 | 0 | 0 |
| Lamprey | 0 | 0 | 0 | 0 |
| Pacific Lamprey | 0 | 0 | 0 | 0 |
| Largescale Sucker | 0 | 0 | 0 | 0 |
| Largemouth Bass | 0 | 0 | 0 | 0 |
| Mountain Whitefish | 0 | 0 | 0 | 0 |
| Northern Pikeminnow | 0 | 0 | 0 | 0 |
| <i>O. mykiss</i> (clipped) | 0 | 0 | 3 | 0 |
| <i>O. mykiss</i> | 0 | 0 | 1 | 0 |
| Redside Shiner | 0 | 0 | 0 | 0 |
| Sculpin | 110 | 7 | 247 | 9 |
| Smallmouth Bass | 1 | 0 | 1 | 0 |
| Unknown | 0 | 0 | 0 | 0 |
| Unknown Salmonid | 0 | 0 | 0 | 0 |
| Walleye | 0 | 0 | 0 | 0 |
| Totals | 186 | 46 | 1,215 | 166 |

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 gage 14149510 (Figure 89). Total dissolved gas saturation data was received from gauge 14150000, 4.75 rkms downstream of the trap (Figure 90). Stream temperatures were recorded every 2 hours using a temperature probe at the Dexter Dam RST site during this reporting period. The temperature logger operated normally throughout the reporting period. Temperature data from the reporting period can be seen in Figure 91. Flows through the Powerhouse and Spill during the reporting period are displayed in Figure 92. Catch per unit of effort (CPUE) data are summarized in Table 87. Discharge and capture data for the duration of monitoring efforts at this location are provided in Appendix B.

Table 87. Summary of salmonid CPUE, Dexter Dam.

| Description | Chinook |
|----------------|---------|
| Catch | 0 |
| Effort (hrs) | 360.5 |
| CPUE (fish/hr) | 0.0 |

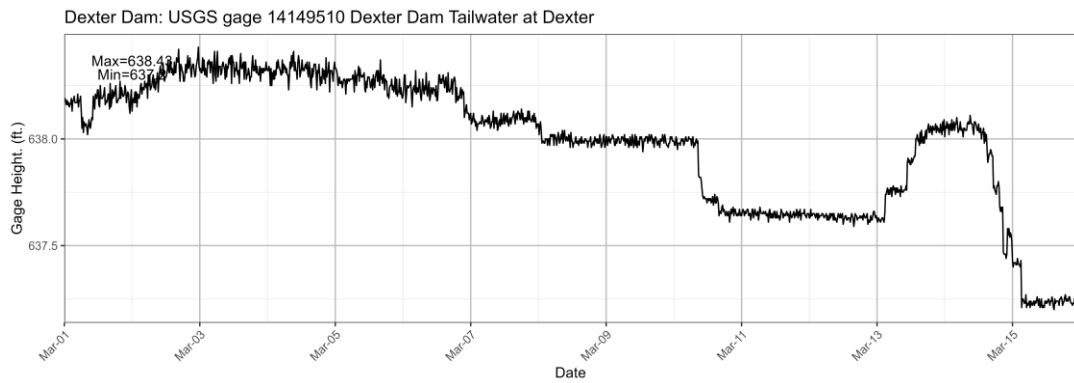


Figure 89. Gauge Height (feet); below Dexter Dam, Middle Fork Willamette.

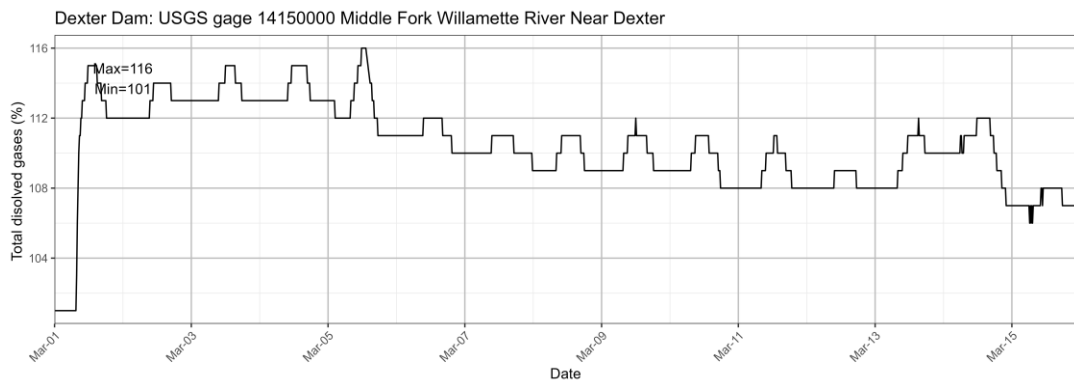


Figure 90. Total Dissolved Gas Saturation (%); Middle Fork Willamette River, Near Dexter, OR.

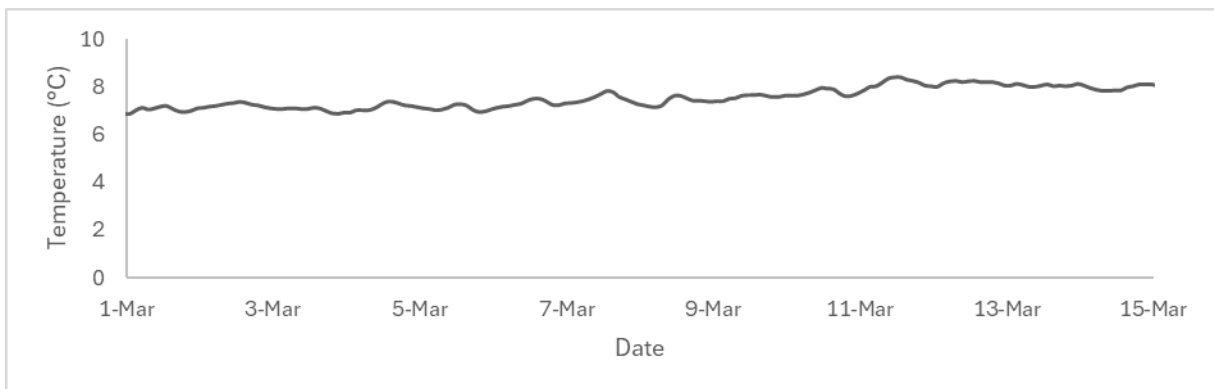


Figure 91. Temperature at RST (Dexter Dam).

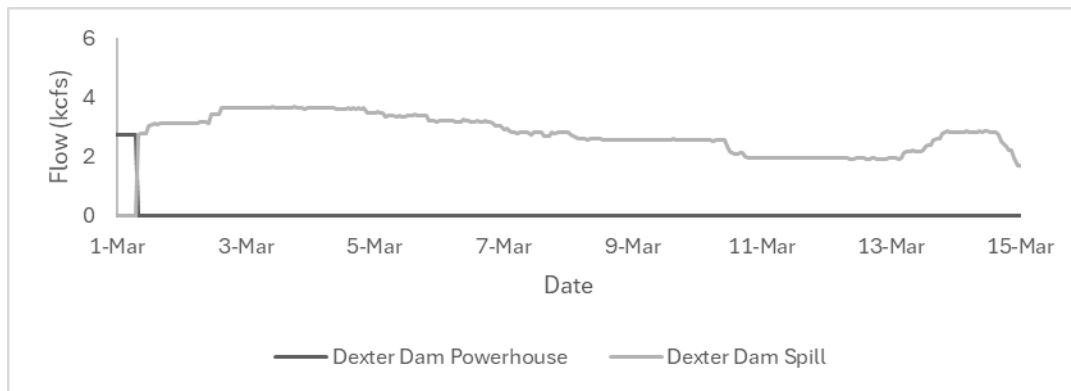


Figure 92. Hourly Flows PH vs. Spill (Dexter Dam).

Issues Encountered

| Site | Date(s) of Trap Outage | Reason for Outage |
|------------------------------|------------------------|---|
| Lookout Dam Tailrace | 2/28/2025-3/3/2025 | The RSTs were raised to the non-sampling position due to a debris flush. |
| Fall Creek Head of Reservoir | 3/10/2025-3/11/2025 | The RST was raised to the non-sampling position due to low flow causing damage to the cone. |

Upcoming USACE Support Services

USACE crane support services are requested in March to install a new RST cone at Big Cliff Dam.

Appendix A

Chinook (CHS) To-Date

| Chinook Injuries Year to Date (01-01-2025 to 03-15-2025) | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|-----|------|------|
| Site/Trap/Lifestage | #NXI | #MUNK | #DS<2 | #DS>2 | #COP | #EYB | #OPD | #BLO | #FID | #BVT | #TEA | #FVB | #GBD | #POP | #HIN | #BRU | #HBP | #BO | #HBO | #PRD | #HO | #BKD | #FUN |
| Big Cliff Dam | 3 | | 49 | 9 | 40 | 11 | 6 | 2 | 43 | 3 | 1 | 3 | 5 | | 1 | 4 | 2 | 1 | | | | | 2 |
| 8 ft | 3 | | 49 | 9 | 40 | 11 | 6 | 2 | 43 | 3 | 1 | 3 | 5 | | 1 | 4 | 2 | 1 | | | | | 2 |
| Fry | 2 | | | | | 2 | | | | | | | | | 1 | | | | | | | | |
| Parr | 1 | | 10 | 2 | 4 | 1 | | | 8 | | | | 1 | | | | 1 | | | | | | |
| Smolt | | | 39 | 7 | 36 | 8 | 6 | 2 | 35 | 3 | 1 | 3 | 4 | | | | 4 | 1 | 1 | | | | 2 |
| Breitenbush River | 1298 | 1 | 44 | 275 | 3 | 46 | 44 | | 274 | 4 | 173 | 17 | | 192 | 89 | 178 | 1 | 2 | | 6 | | | 2 |
| 5 ft | 1298 | 1 | 44 | 275 | 3 | 46 | 44 | | 274 | 4 | 173 | 17 | | 192 | 89 | 178 | 1 | 2 | | 6 | | | 2 |
| Fry | 1298 | 1 | 14 | 269 | | 44 | 44 | | 244 | 4 | 172 | 17 | | 192 | 89 | 173 | 1 | 2 | | 5 | | | 1 |
| Parr | | | 12 | 3 | 2 | 2 | | | 12 | | | | | | 3 | | | | | | | | |
| Smolt | | | 18 | 3 | 1 | | | | 18 | | 1 | | | | 2 | | | | | 1 | | | 1 |
| Cougar Dam | 25 | | 26 | 7 | 21 | 7 | 5 | | 22 | | 2 | 5 | 10 | 1 | 5 | 7 | 2 | | | | | | 3 |
| PH 1 | 14 | | 9 | 1 | 7 | | | | 4 | | 1 | | | | 2 | 3 | 1 | | | | | | 2 |
| Fry | 14 | | 1 | | | | | | | | | | | | 1 | | | | | | | | |
| Smolt | | | 8 | 1 | 7 | | | | 4 | | 1 | | | | 1 | 3 | 1 | | | | | | 2 |
| PH 2 | 6 | | 4 | 3 | 3 | 2 | 2 | | 5 | | 1 | 1 | | | 1 | 3 | | | | | | | 1 |
| Fry | 6 | | | | | 1 | 1 | | 2 | | 1 | 1 | | | | 1 | | | | | | | |
| Parr | | | 1 | | | | | | 1 | | | | | | | | | | | | | | 1 |
| Smolt | | | 3 | 3 | 3 | 1 | 1 | | 2 | | | | | | 1 | 2 | | | | | | | |
| RO | 5 | | 13 | 3 | 11 | 5 | 3 | | 13 | | | 4 | 10 | 1 | 2 | 1 | 1 | | | | | | |
| Fry | 5 | | | | | | | | | | | | | | | | | | | | | | |
| Smolt | | | 13 | 3 | 11 | 5 | 3 | | 13 | | | 4 | 10 | 1 | 2 | 1 | 1 | | | | | | |
| Cougar Dam HOR | 11 | | | | | | | | | | | | | | | 1 | | | | | | | |
| 5 ft | 11 | | | | | | | | | | | | | | | 1 | | | | | | | |
| Fry | 11 | | | | | | | | | | | | | | | 1 | | | | | | | |
| Detroit HOR- North Santiam River | 2345 | 1 | 53 | 183 | 2 | 17 | 36 | | 157 | 8 | 56 | 25 | 6 | 130 | 76 | 99 | | | 2 | 1 | | | 1 |
| 5 ft | 2345 | 1 | 53 | 183 | 2 | 17 | 36 | | 157 | 8 | 56 | 25 | 6 | 130 | 76 | 99 | | | 2 | 1 | | | 1 |
| Fry | 2341 | 1 | 31 | 182 | | 17 | 36 | | 146 | 7 | 55 | 24 | 6 | 129 | 75 | 97 | | | 1 | | | | |
| Parr | 3 | | 17 | 1 | 2 | | | | 9 | 1 | 1 | 1 | | 1 | 1 | 2 | | | 1 | 1 | | | |
| Smolt | 1 | | 5 | | | | | | 2 | | | | | | | | | | | | | | |
| Fall Creek Dam Tailrace | 15 | | | | | | | | | | | 1 | | | | 1 | | | | | | | |
| 8 ft | 15 | | | | | | | | | | | 1 | | | | 1 | | | | | | | |
| Fry | 15 | | | | | | | | | | | 1 | | | | 1 | | | | | | | |
| Fall Creek HOR | 4 | | | 1 | | | | | 1 | | | 1 | | | | 1 | | | | | | | |
| 8 ft | 4 | | | 1 | | | | | 1 | | | 1 | | | | 1 | | | | | | | |
| Fry | 4 | | | 1 | | | | | 1 | | | 1 | | | | 1 | | | | | | | |
| Foster Dam HOR- South Santiam River | 117 | | | 7 | | 1 | 4 | | 6 | 1 | 6 | 1 | | 4 | 3 | 1 | | 2 | | | | | |
| 5 ft | 117 | | | 7 | | 1 | 4 | | 6 | 1 | 6 | 1 | | 4 | 3 | 1 | | 2 | | | | | |
| Fry | 116 | | | 7 | | 1 | 4 | | 6 | 1 | 6 | 1 | | 4 | 3 | 1 | | 2 | | | | | |
| Parr | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Green Peter HOR- Middle Santiam River | 1283 | 2 | 13 | 72 | | 4 | 17 | 2 | 75 | 2 | 32 | 14 | | 38 | 23 | 36 | | | 2 | 4 | | | 6 |
| 5 ft | 1283 | 2 | 13 | 72 | | 4 | 17 | 2 | 75 | 2 | 32 | 14 | | 38 | 23 | 36 | | | 2 | 4 | | | 6 |
| Fry | 1282 | 2 | 11 | 72 | | 4 | 17 | 2 | 75 | 2 | 32 | 14 | | 38 | 23 | 36 | | | 2 | 4 | | | 6 |
| Parr | 1 | | | 2 | | | | | | | | | | | | | | | | | | | |
| Green Peter Tailrace - Middle Santiam River | 18 | | 4 | 7 | | 1 | 4 | | 11 | 2 | 3 | 1 | 1 | 5 | 8 | 2 | 1 | | | | | | 1 |
| 8 ft | 18 | | 4 | 7 | | 1 | 4 | | 11 | 2 | 3 | 1 | 1 | 5 | 8 | 2 | 1 | | | | | | 1 |
| Fry | 18 | | 1 | 7 | | 1 | 3 | | 9 | 2 | 3 | 1 | 1 | 5 | 8 | 1 | 1 | | | | | | 1 |
| Parr | | | | | | | 1 | | 1 | | | | | | | 1 | | | | | | | |
| Smolt | | | 3 | | | | | | 1 | | | | | | | | | | | | | | |
| Hills Creek Dam | | | 1 | | 1 | | 1 | | 1 | 1 | | | | | | 1 | | | | | | | |
| RO | | | 1 | | 1 | | 1 | | 1 | 1 | | | | | | 1 | | | | | | | |
| Smolt | | | 1 | | 1 | | 1 | | 1 | 1 | | | | | | 1 | | | | | | | |
| Lookout Point HOR | 1 | | | 2 | | | | | 2 | | 1 | | | | | 1 | | | | 1 | | | |
| 5 ft | 1 | | | 2 | | | | | 2 | | 1 | | | | | 1 | | | | 1 | | | |
| Fry | 1 | | | 1 | | | | | 1 | | | | | | | | | | | 1 | | | |
| Parr | | | | 1 | | | | | 1 | | 1 | | | | | | | | | 1 | | | |
| Grand Total | 5120 | 4 | 190 | 563 | 67 | 87 | 117 | 4 | 592 | 21 | 274 | 68 | 22 | 370 | 206 | 331 | 6 | 5 | 4 | 12 | | | 15 |

Chinook (CHS) During Reporting Period

| Chinook Injuries During this Reporting Period (03-01-2025 to 03-15-2025) | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|------|-------|-------|------|------|------|-----|------|------|------|------|------|------|------|------|------|-----|------|------|-----|------|------|
| Site/Trap/Lifestage | | #NXI | #MUNK | #DS<2 | #COP | #EYB | #OPD | #FD | #BLO | #SVT | #TEA | #FVB | #GBD | #POP | #HIN | #BRU | #HBP | #BO | #HBO | #PRD | #HO | #BKD | #FUN |
| Big Cliff Dam | | | | 10 | | 6 | 1 | 8 | | | | 1 | | | | | 1 | | | | | | |
| | 8 ft | | | 10 | | 6 | 1 | 8 | | | | 1 | | | | | 1 | | | | | | |
| | | | | 2 | | 1 | | 2 | | | | | | | | | | | | | | | |
| Breitenbush River | Parr | 477 | 1 | 24 | 53 | 2 | 9 | 16 | 65 | 3 | 29 | 7 | | 38 | 27 | 21 | 1 | 1 | | 3 | | | 1 |
| 5 ft | | 477 | 1 | 24 | 53 | 2 | 9 | 16 | 65 | 3 | 29 | 7 | | 38 | 27 | 21 | 1 | 1 | | 3 | | | 1 |
| | Fry | 477 | 1 | 8 | 49 | | 8 | 16 | 49 | 3 | 28 | 7 | | 38 | 27 | 19 | 1 | 1 | | 3 | | | 1 |
| | Parr | | | 9 | 1 | 2 | 1 | 8 | | | | | | | | 1 | | | | | | | |
| | Smolt | | | 7 | 3 | | | 8 | | | 1 | | | | | 1 | | | | | | | |
| Cougar Dam | | 10 | | 2 | 1 | 3 | 1 | 1 | 2 | | | | 1 | | | | | | | | | | |
| | PH 1 | 3 | | 2 | | 2 | | 1 | | | | | | | | | | | | | | | |
| | Fry | 3 | | | | | | | | | | | | | | | | | | | | | |
| | Smolt | | | 2 | | 2 | | 1 | | | | | | | | | | | | | | | |
| PH 2 | | 4 | | | | | | 1 | | | | | | | | | | | | | | | |
| | Fry | 4 | | | | | | 1 | | | | | | | | | | | | | | | |
| RO | | 3 | | | 1 | 1 | 1 | 1 | | | | | 1 | | | | | | | | | | |
| | Fry | 3 | | | | | | | | | | | | | | | | | | | | | |
| | Smolt | | | | 1 | 1 | 1 | 1 | | | | | 1 | | | | | | | | | | |
| Cougar Dam Head of Reservoir | | 3 | | | | | | | | | | | | | | | | | | | | | |
| 5 ft | | 3 | | | | | | | | | | | | | | | | | | | | | |
| | | 3 | | | | | | | | | | | | | | | | | | | | | |
| | Fry | 3 | | | | | | | | | | | | | | | | | | | | | |
| Detroit Head of Reservoir- North Santiam River | | 314 | | 11 | 141 | 2 | 4 | 6 | 97 | 4 | 34 | 4 | | 108 | 56 | 47 | | | 1 | | | | 1 |
| 5 ft | | 314 | | 11 | 141 | 2 | 4 | 6 | 97 | 4 | 34 | 4 | | 108 | 56 | 47 | | | 1 | | | | 1 |
| | Fry | 311 | | 3 | 141 | | 4 | 6 | 94 | 4 | 34 | 4 | | 108 | 56 | 47 | | | 1 | | | | 1 |
| | Parr | 2 | | 8 | | 2 | | 2 | | | | | | | | | | | | | | | |
| | Smolt | 1 | | | | | | 1 | | | | | | | | | | | | | | | |
| Fall Creek Head of Reservoir | | | | | | | | | | | | | 1 | | | | | | | | | | |
| 8 ft | | | | | | | | | | | | | 1 | | | | | | | | | | |
| | | | | | | | | | | | | | 1 | | | | | | | | | | |
| | Fry | | | | | | | | | | | | 1 | | | | | | | | | | |
| Foster Dam Head of Reservoir- South Santiam River | | 105 | | 7 | | 1 | 4 | 6 | | 1 | 6 | 1 | | 4 | 3 | 1 | | 2 | | | | | |
| | 5 ft | 105 | | 7 | | 1 | 4 | 6 | | 1 | 6 | 1 | | 4 | 3 | 1 | | 2 | | | | | |
| | Fry | 104 | | 7 | | 1 | 4 | 6 | | 1 | 6 | 1 | | 4 | 3 | 1 | | 2 | | | | | |
| | Parr | 1 | | | | | | | | | | | | | | | | | | | | | |
| Green Peter Head of Reservoir- Middle Santiam River | | 846 | 2 | 10 | 66 | | 4 | 13 | 65 | 2 | 30 | 10 | | 35 | 22 | 19 | | | 2 | 2 | | | 6 |
| | 5 ft | 846 | 2 | 10 | 66 | | 4 | 13 | 65 | 2 | 30 | 10 | | 35 | 22 | 19 | | | 2 | 2 | | | 6 |
| | Fry | 845 | 2 | 9 | 66 | | 4 | 13 | 65 | 2 | 30 | 10 | | 35 | 22 | 19 | | | 2 | 2 | | | 6 |
| | Parr | 1 | | 1 | | | | | | | | | | | | | | | | | | | |
| Grand Total | | 1755 | 3 | 57 | 268 | 13 | 20 | 40 | 243 | 10 | 99 | 25 | | 185 | 108 | 88 | 2 | 3 | 3 | 5 | | | 8 |

Steelhead (*O. mykiss*) To Date

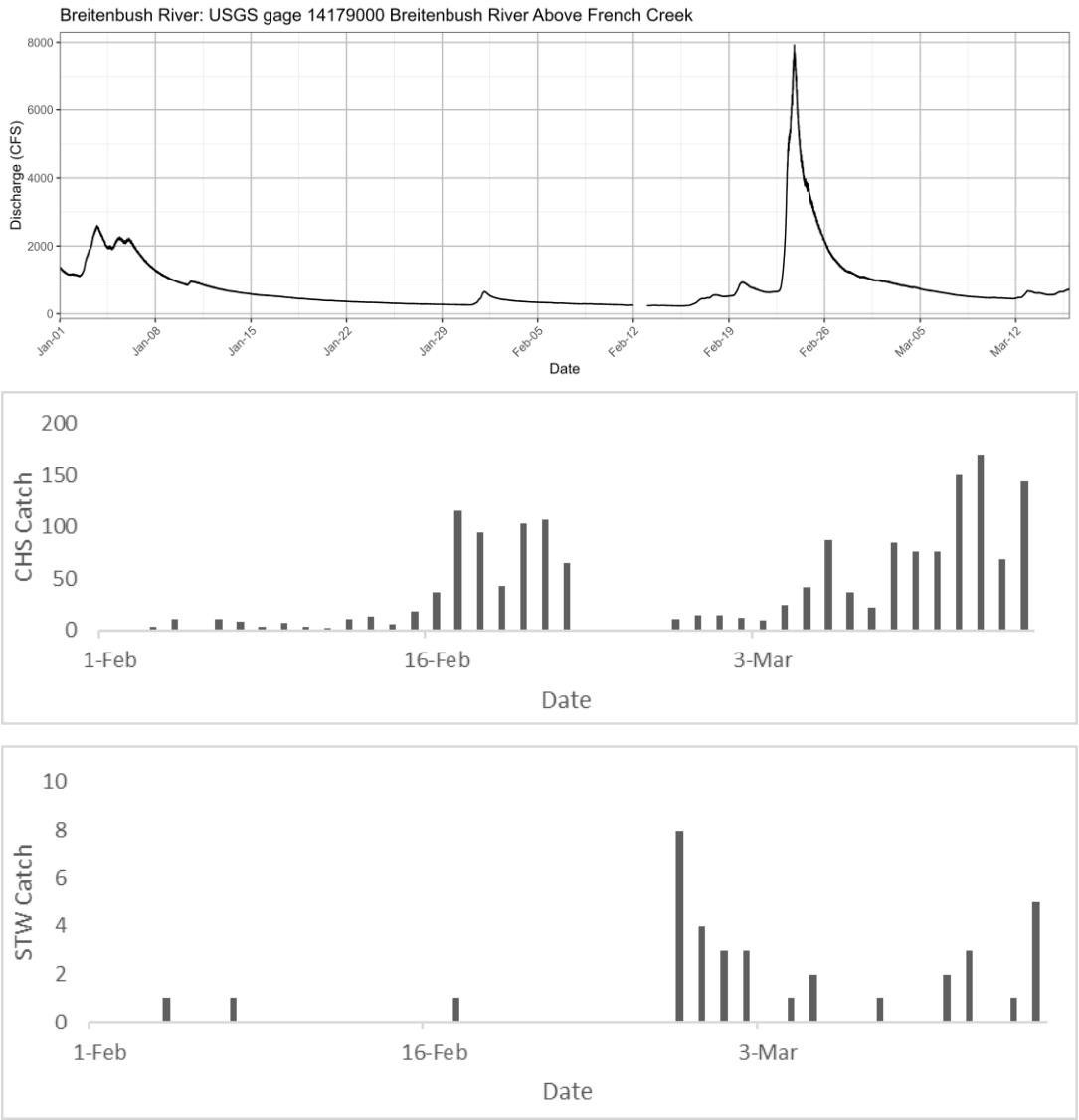
| O. mykiss Injuries Year to Date (01-01-2025 to 03-15-2025) | | | | | | | | | | | | | | | | |
|--|------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| RowLabels | #NXI | #MUNK | #DS<2 | #DS>2 | #COP | #EYB | #OPD | #FID | #BLO | #BVT | #TEA | #FVB | #GBD | #POP | #HIN | #FUN |
| Big Cliff Dam | | | 2 | 1 | 3 | 1 | 1 | 3 | | | | | | 1 | 1 | 2 |
| 8 ft | | | 2 | 1 | 3 | 1 | 1 | 3 | | | | | | 1 | 1 | 2 |
| Parr | | | 1 | 1 | | | | 3 | | | | | | | | |
| Smolt | | | 2 | | 2 | 1 | 1 | | | | | | | 1 | 1 | |
| Breitenbush River | 13 | | 10 | 3 | | | 1 | 17 | | | 1 | | | 3 | 2 | 3 |
| 5 ft | 13 | | 10 | 3 | | | 1 | 17 | | | 1 | | | 3 | 2 | 3 |
| Fry | 1 | | | 1 | | | | 1 | | | | | | 1 | 1 | |
| Parr | 9 | | 3 | 2 | | | | 6 | | | 1 | | | 2 | 1 | 2 |
| Smolt | 3 | | 7 | | | | | 10 | | | | | | | | 1 |
| Detroit Head of Reservoir- North Santiam River | 3 | | 2 | 1 | 1 | 1 | | 6 | 2 | | | 1 | | | | 1 |
| 5 ft | 3 | | 2 | 1 | 1 | 1 | | 6 | 2 | | | 1 | | | | 1 |
| Parr | 2 | | | 1 | 1 | 1 | | 3 | | | | 1 | | | | 1 |
| Smolt | 1 | | 2 | | | | | 3 | 2 | | | | | | | |
| Foster Dam Head of Reservoir- South Santiam River | 12 | | 9 | | | | | 14 | | | | | | | | |
| 5 ft | 12 | | 9 | | | | | 14 | | | | | | | | |
| Parr | 12 | | 7 | | | | | 12 | | | | | | | | |
| Smolt | | | 2 | | | | | 2 | | | | | | | | |
| Green Peter Head of Reservoir- Middle Santiam River | 2 | | 2 | | | | | 2 | | | | | | | | |
| 5 ft | 2 | | 2 | | | | | 2 | | | | | | | | |
| Parr | 2 | | | | | | | 2 | | | | | | | | |
| Grand Total | 30 | | 25 | 5 | 4 | 2 | 2 | 42 | 2 | | 1 | 1 | | 4 | 2 | 5 |

Steelhead (*O. mykiss*) During Reporting Period

| O. mykiss Injuries During this Reporting Period (03-01-2025 to 03-15-2025) | | | | | | | | | | | | | | | | |
|--|------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| Site/Trap/Lifestage | #NXI | #MUNK | #DS<2 | #DS>2 | #COP | #EYB | #OPD | #FID | #BLO | #BVT | #TEA | #FVB | #GBD | #POP | #HIN | #FUN |
| Big Cliff Dam | | | 1 | | | | | 1 | | | | | | | | 1 |
| 8 ft | | | 1 | | | | | 1 | | | | | | | | 1 |
| Parr | | | 1 | | | | | | | | | | | | | 1 |
| Breitenbush River | 4 | | 3 | 2 | | | | 8 | | | 1 | | | 2 | 2 | 2 |
| 5 ft | 4 | | 3 | 2 | | | | 8 | | | 1 | | | 2 | 2 | 2 |
| Fry | 1 | | | 1 | | | | 1 | | | | | | 1 | 1 | |
| Parr | 3 | | | 1 | | | | 2 | | | 1 | | | 1 | 1 | 1 |
| Smolt | | | 3 | | | | | 5 | | | | | | | | 1 |
| Detroit Head of Reservoir- North Santiam River | | | 1 | | 1 | | | 1 | 1 | | | | | | | |
| 5 ft | | | 1 | | 1 | | | 1 | 1 | | | | | | | |
| Parr | | | | | 1 | | | | | | | | | | | |
| Smolt | | | 1 | | | | | 1 | 1 | | | | | | | |
| Foster Dam Head of Reservoir- South Santiam River | 6 | | 3 | | | | | 5 | | | | | | | | |
| 5 ft | 6 | | 3 | | | | | 5 | | | | | | | | |
| Parr | 6 | | 3 | | | | | 5 | | | | | | | | |
| Green Peter Head of Reservoir- Middle Santiam River | 1 | | | | | | | | | | | | | | | |
| 5 ft | 1 | | | | | | | | | | | | | | | |
| Parr | 1 | | | | | | | | | | | | | | | |
| Grand Total | 11 | | 7 | 3 | 1 | | | 15 | 1 | | 1 | | | 2 | 2 | 2 |

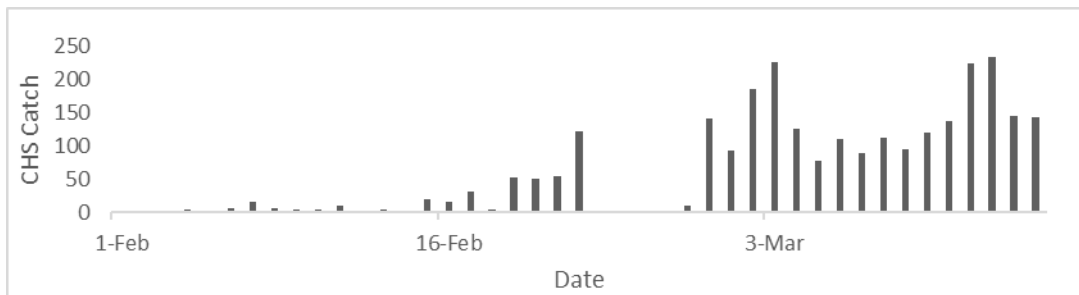
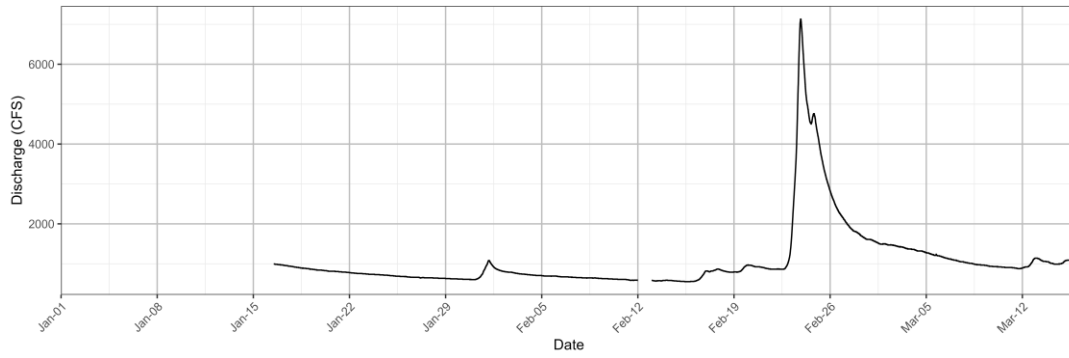
Appendix B

Breitenbush River Flow and Capture Data in 2025

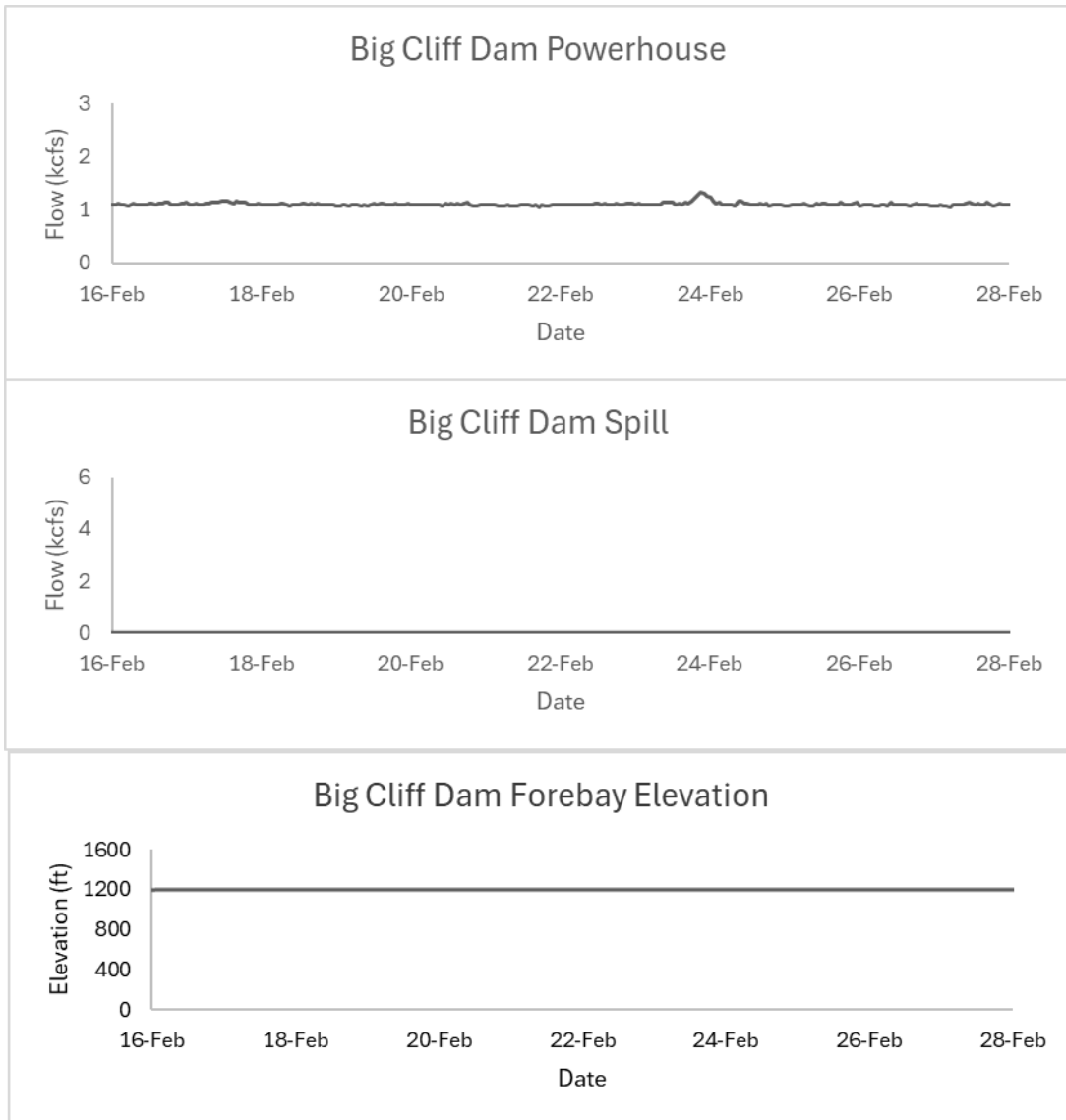


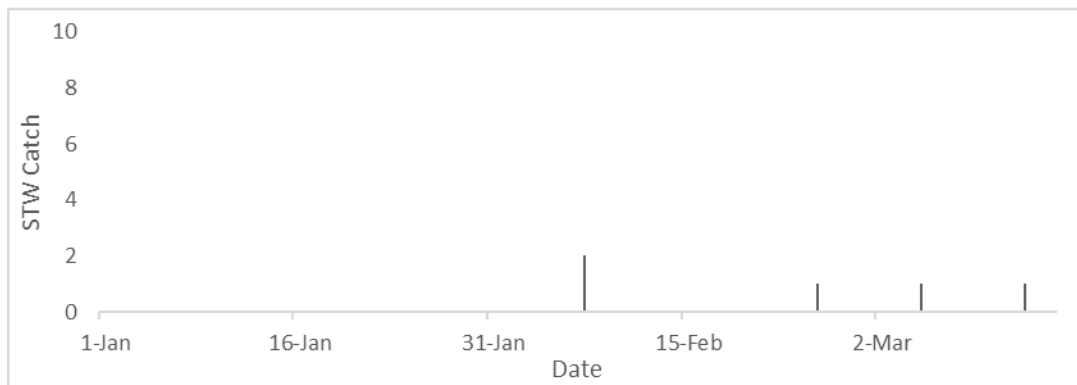
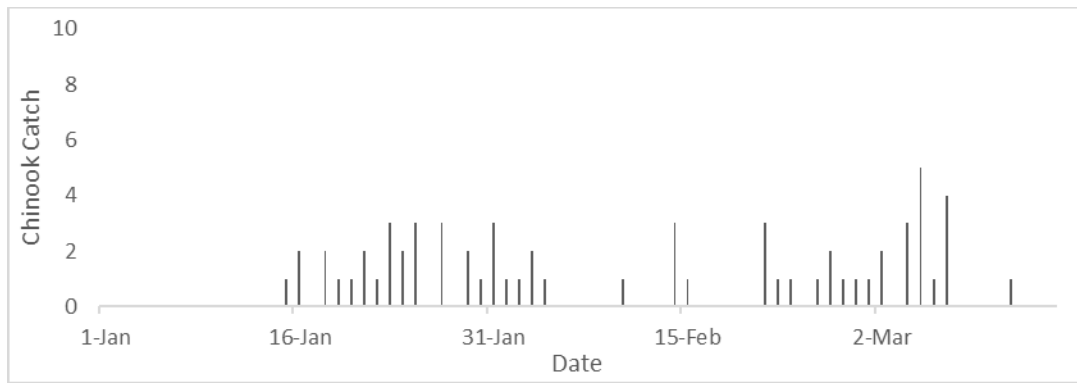
Detroit Head of Reservoir- North Santiam Flow and Capture Data in 2025

Detroit Dam Head of Reservoir: USGS gage 14178000 North Santiam River Below Boulder Creek



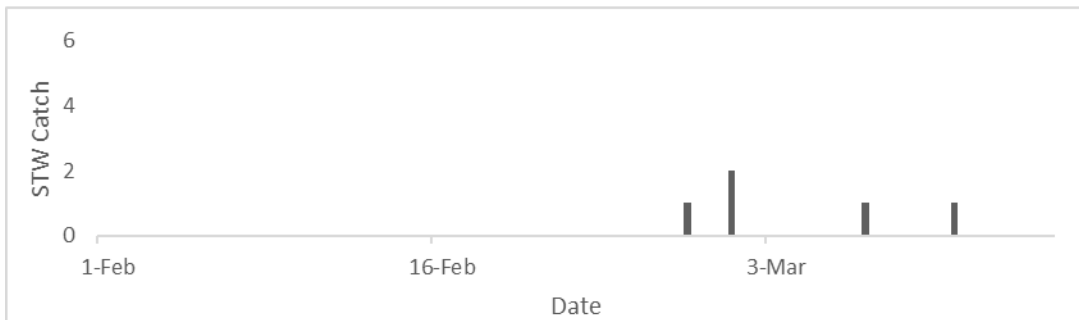
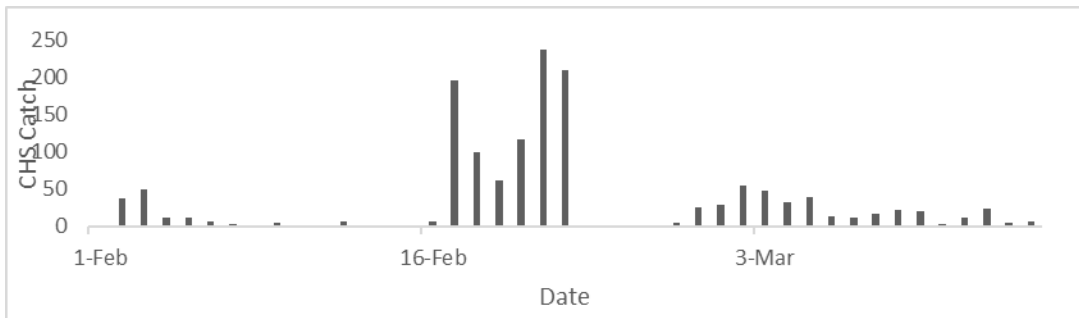
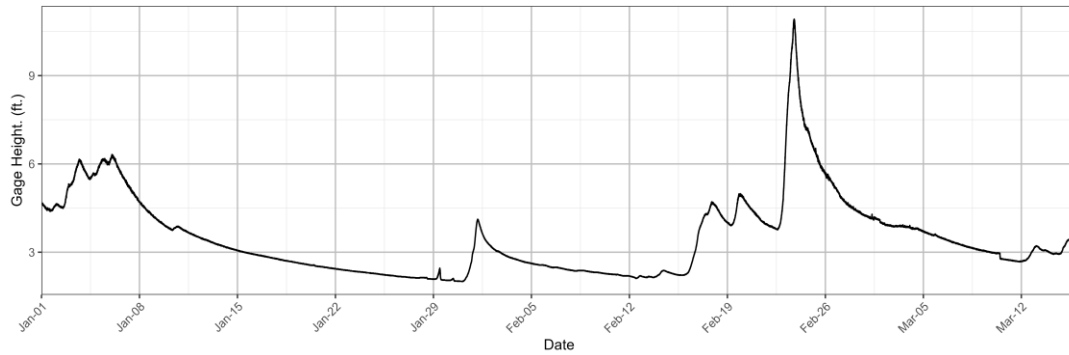
Big Cliff Dam Tailrace Operational and Capture Data in 2025



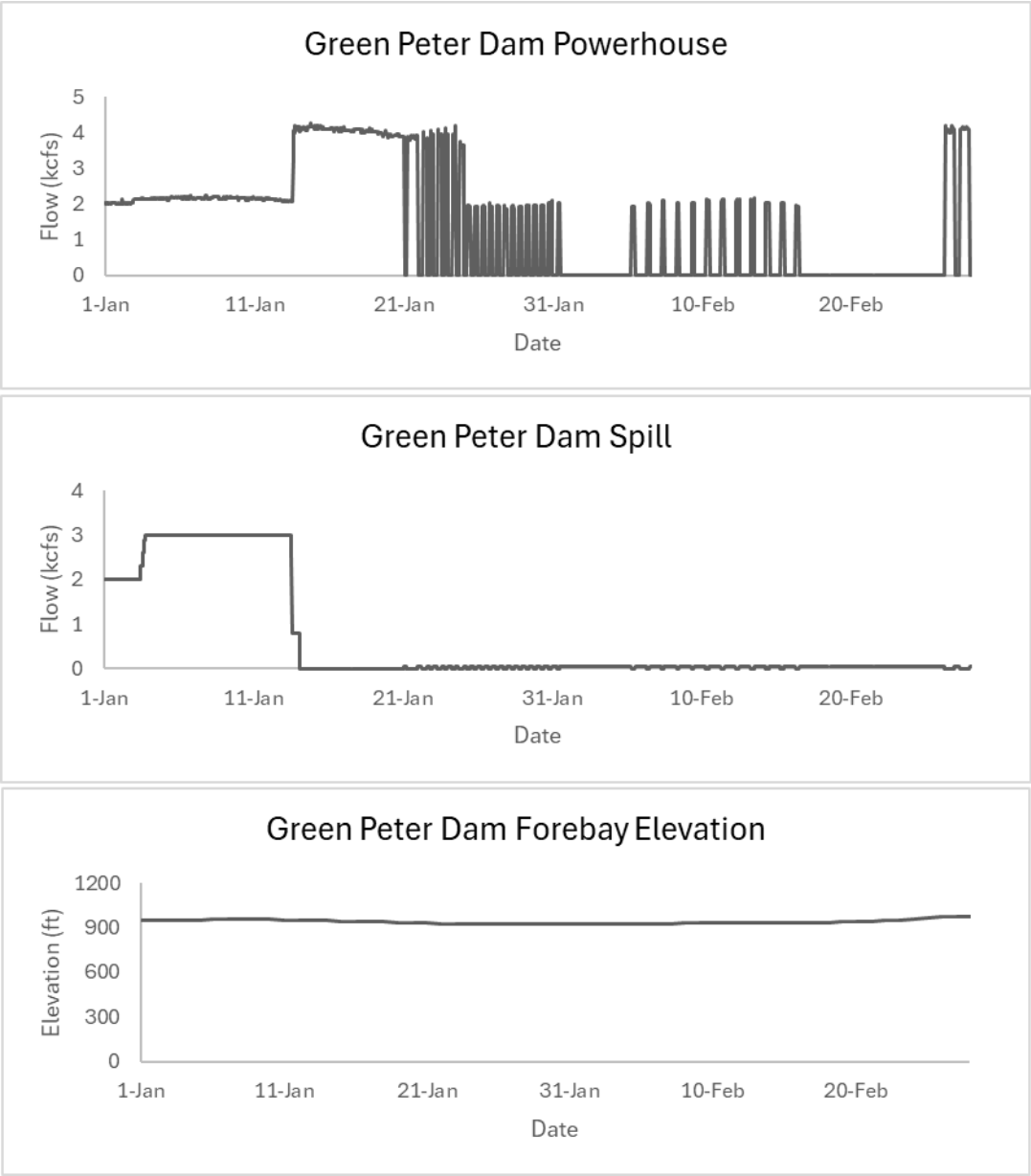


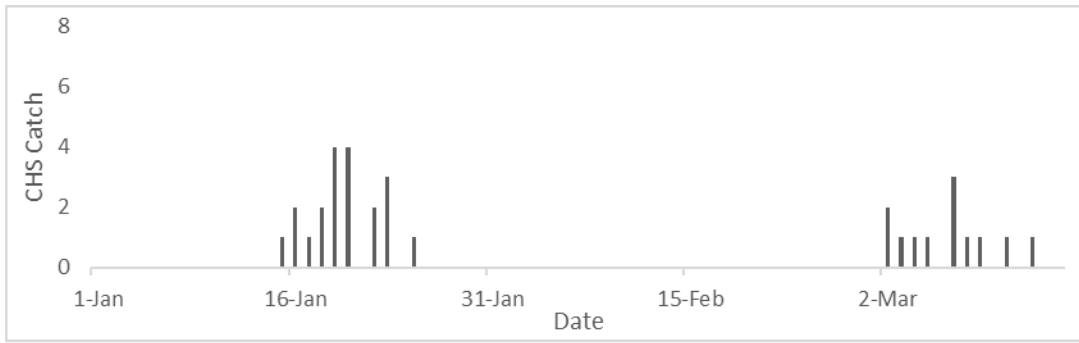
Green Peter Head of Reservoir-Middle Santiam Flow and Capture Data in 2025

Green Peter Dam Head of Reservoir: USGS gage 14185800 Middle Santiam river Near Cascadia

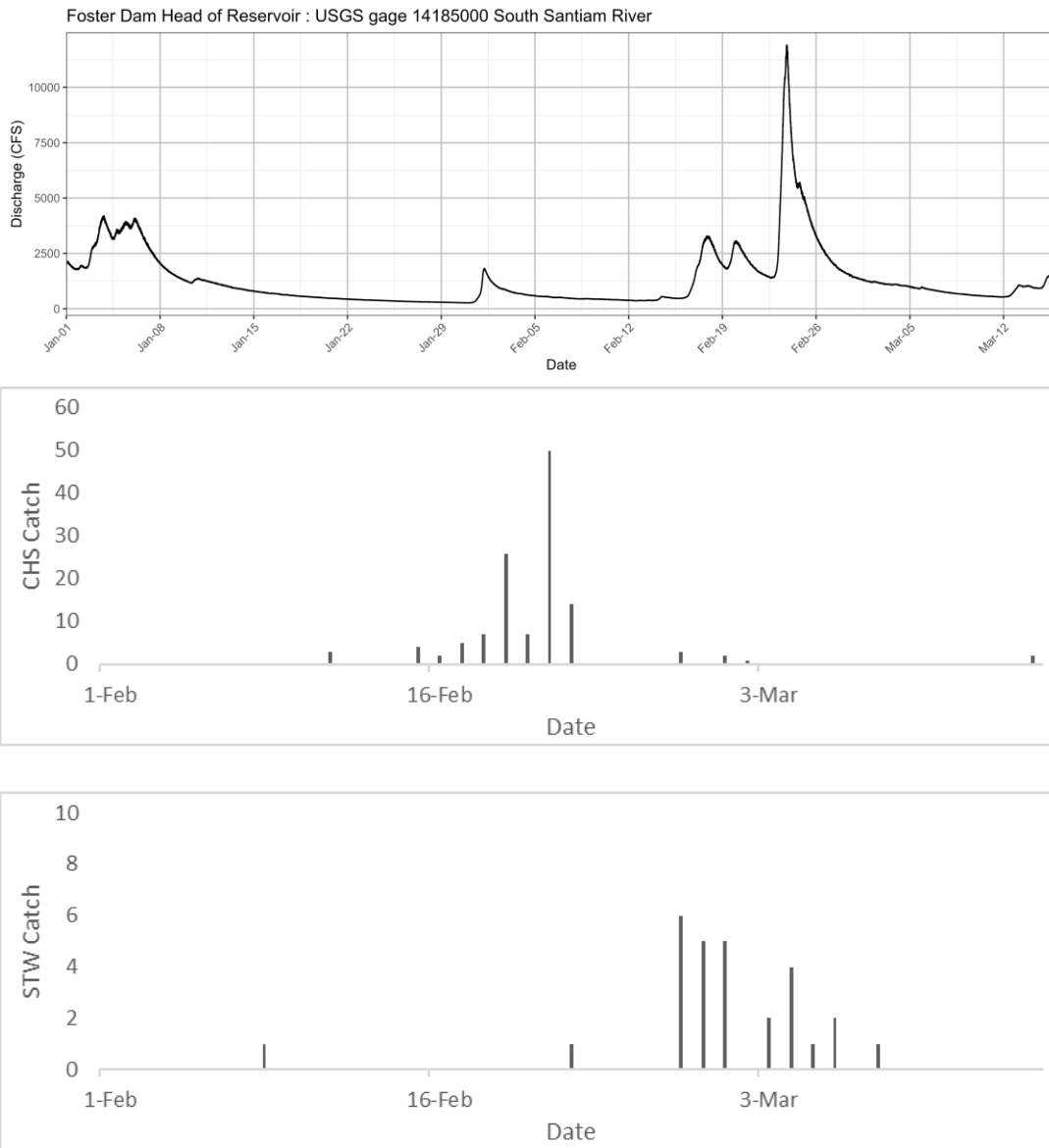


Green Peter Dam Tailrace Operational and Capture Data in 2025

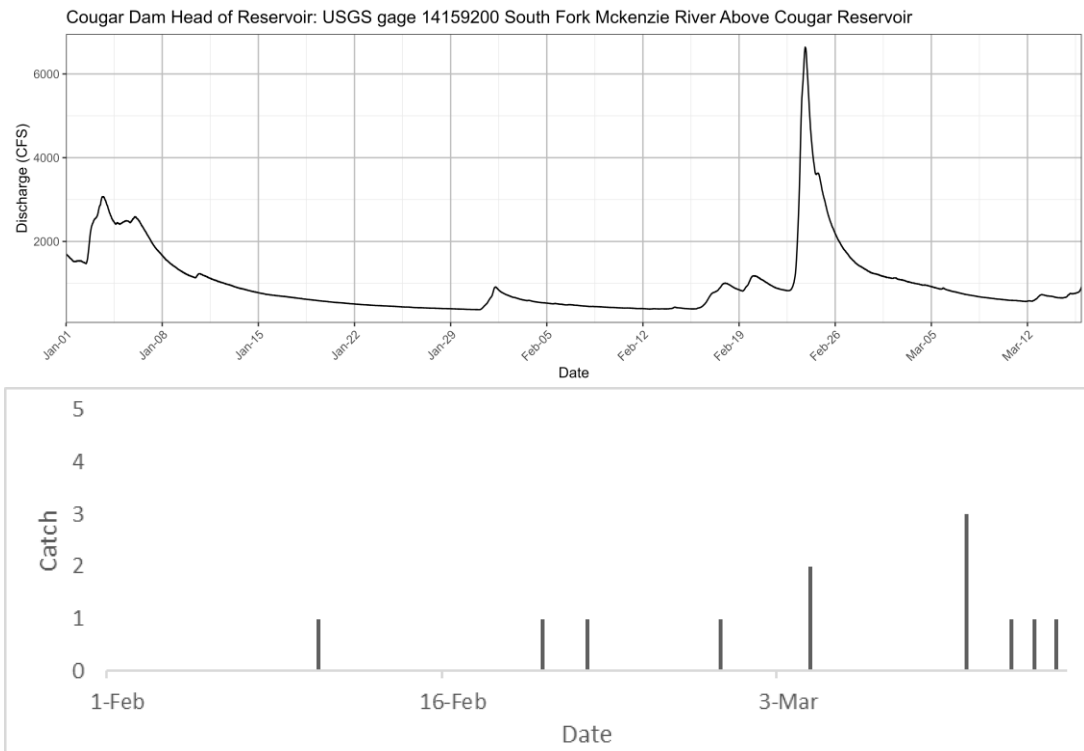




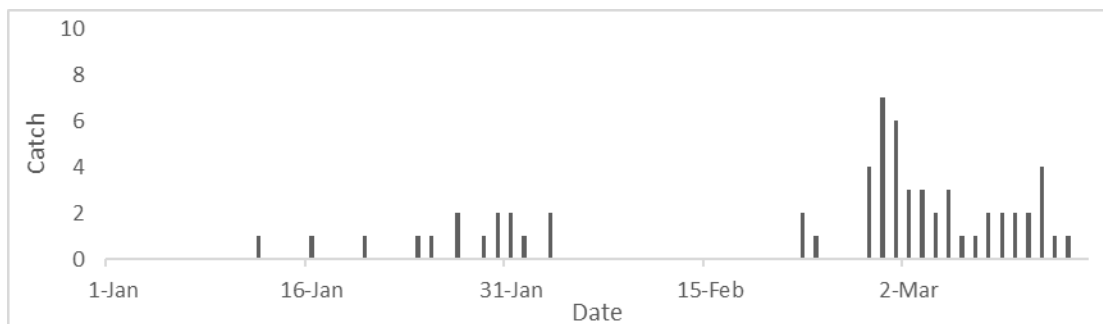
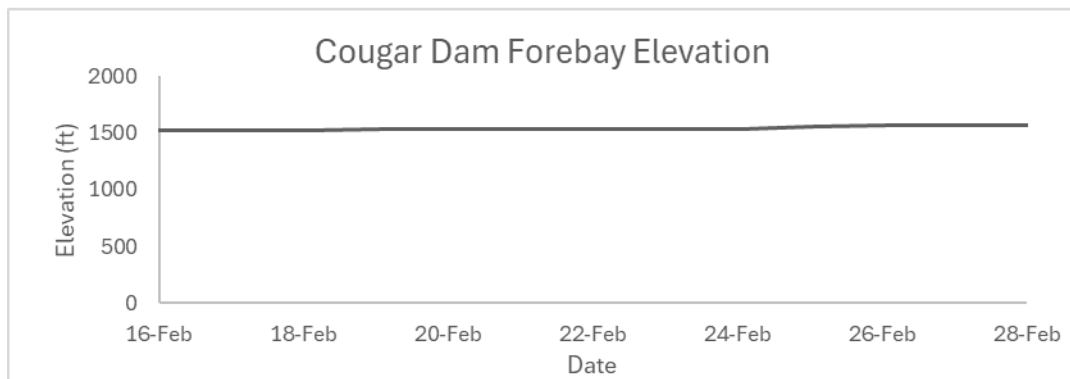
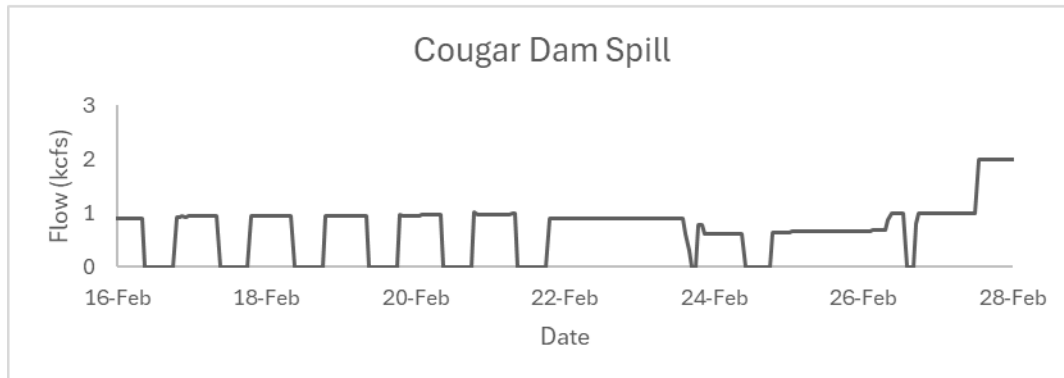
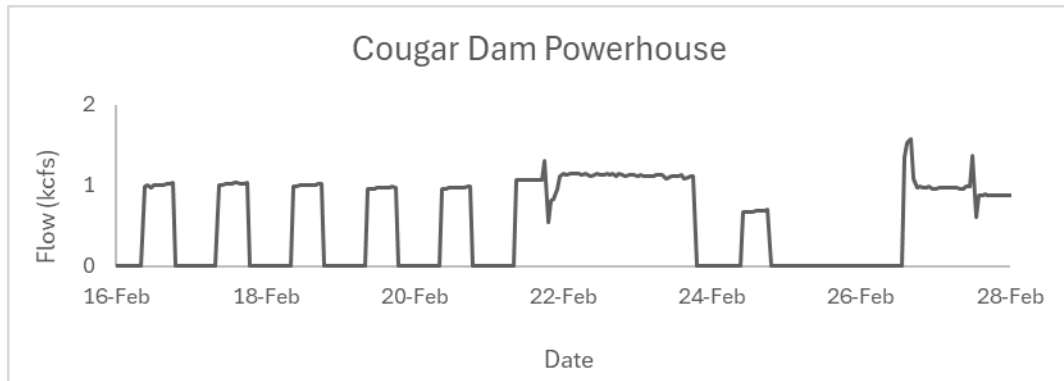
Foster Dam Head of Reservoir- South Santiam Flow and Capture Data in 2025



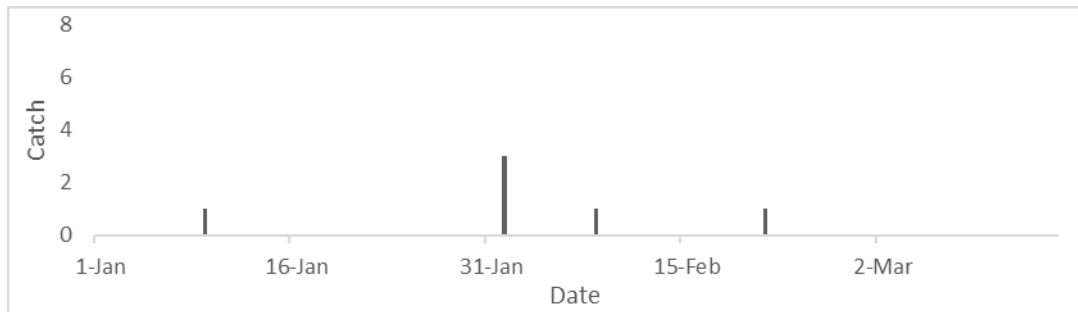
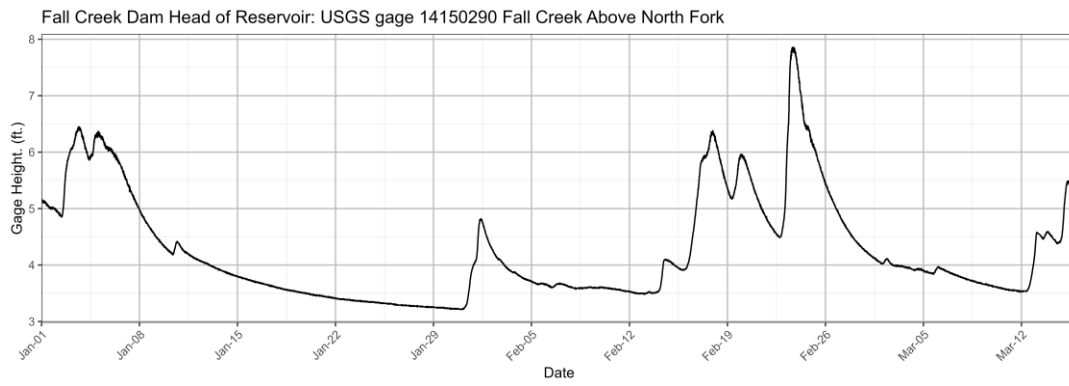
Cougar Head of Reservoir Flow and Capture Data in 2025



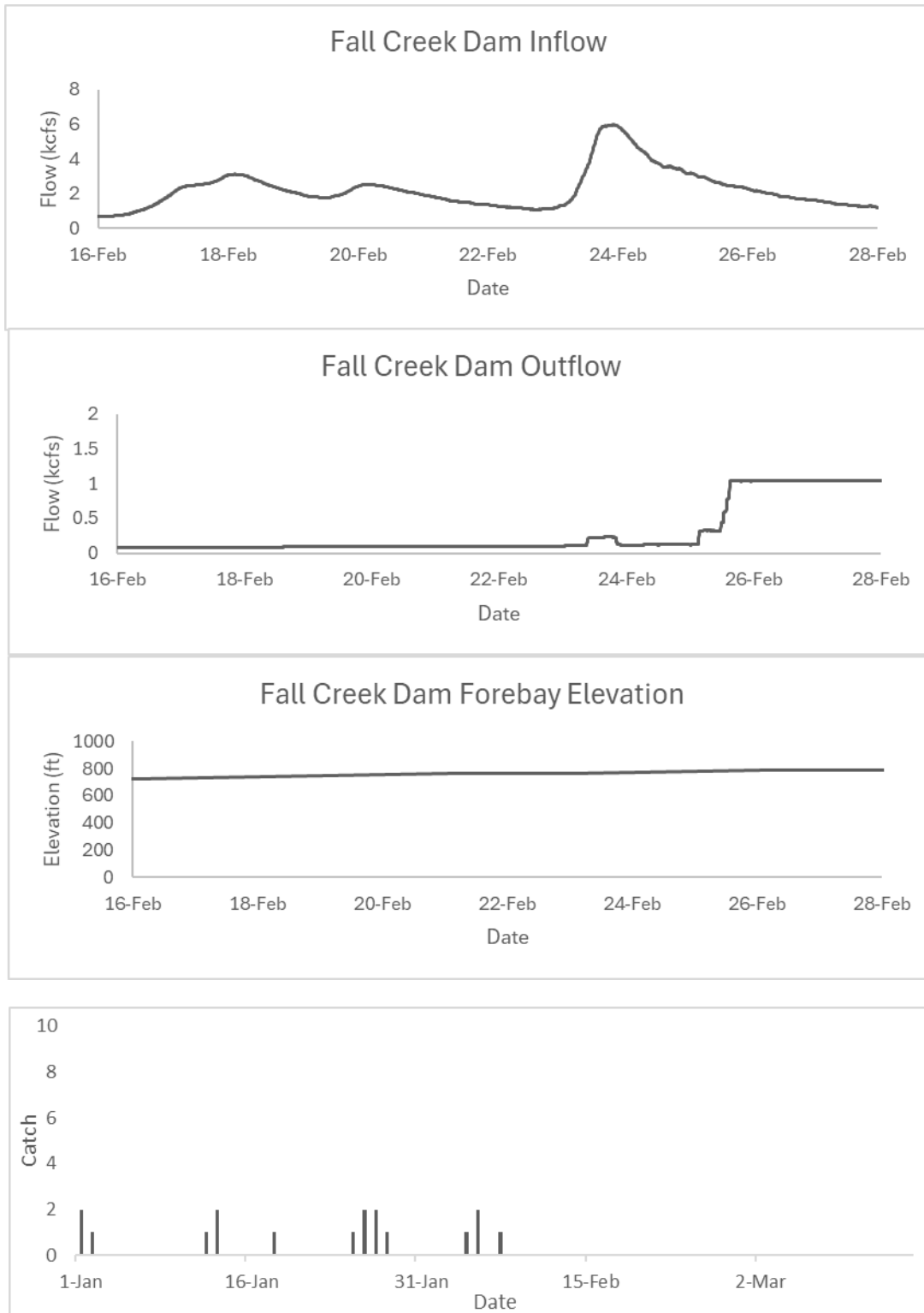
Cougar Dam Tailrace Operational and Capture Data in 2025



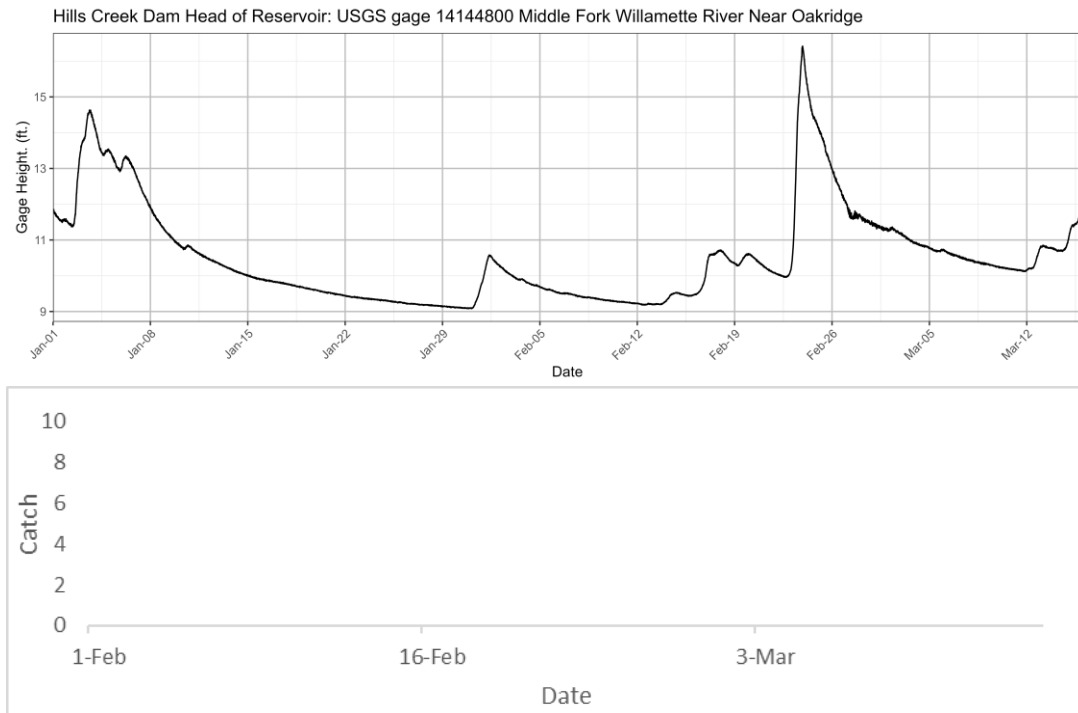
Fall Creek Head of Reservoir Flow and Capture Data in 2025



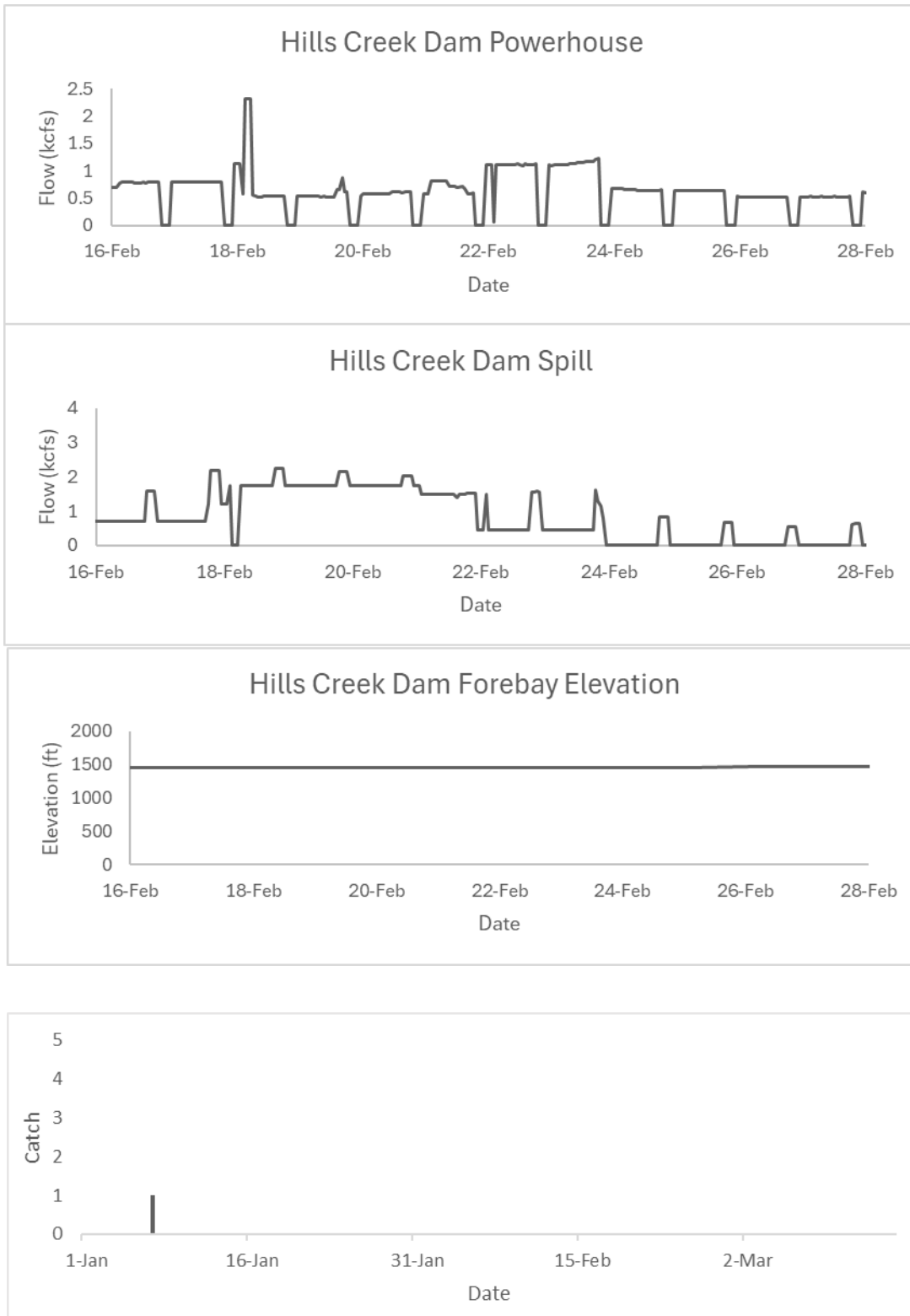
Fall Creek Dam Tailrace Operational and Capture Data in 2025



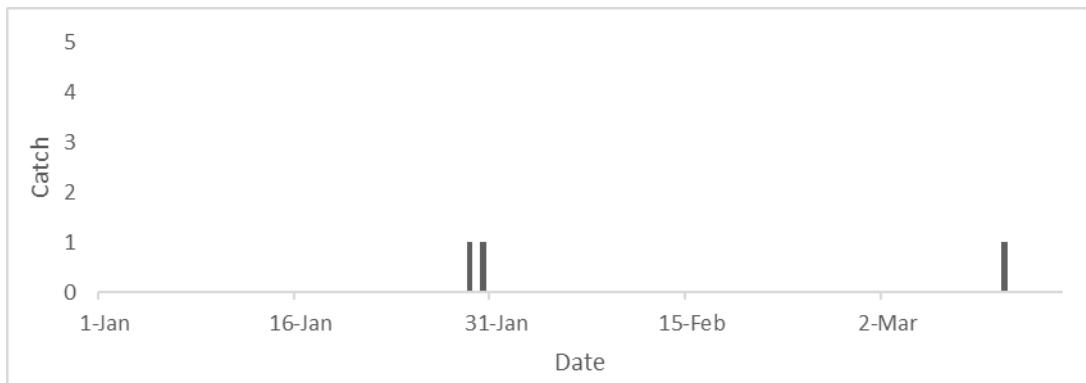
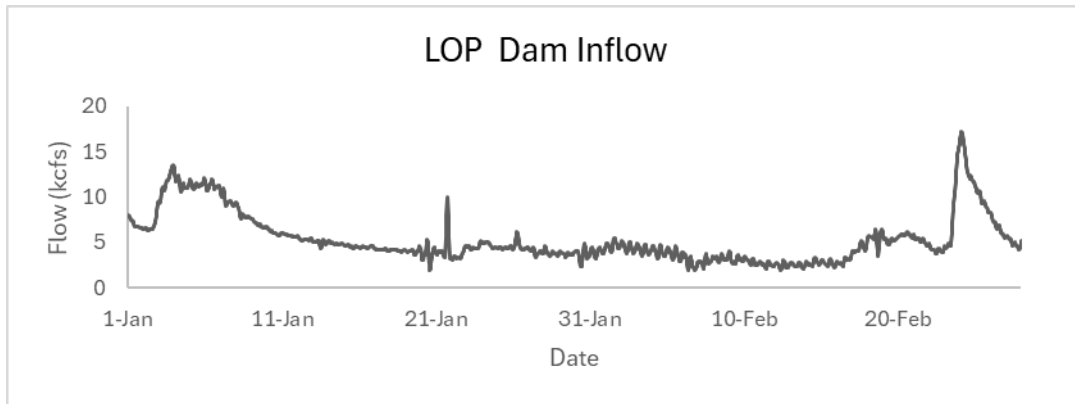
Hills Creek Head of Reservoir-Middle Fork Willamette River Flow and Capture in 2025



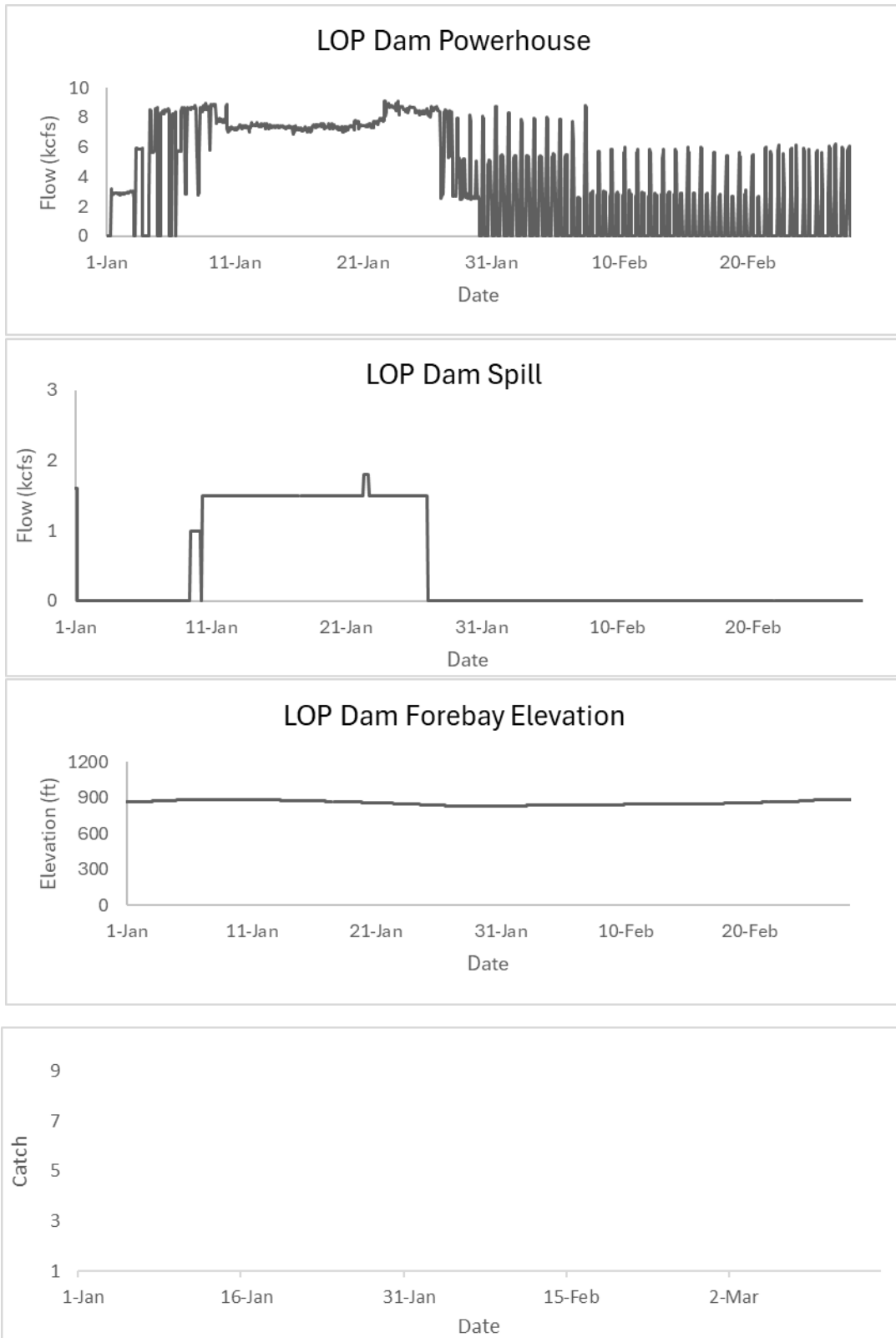
Hills Creek Dam Operational and Capture Data in 2025



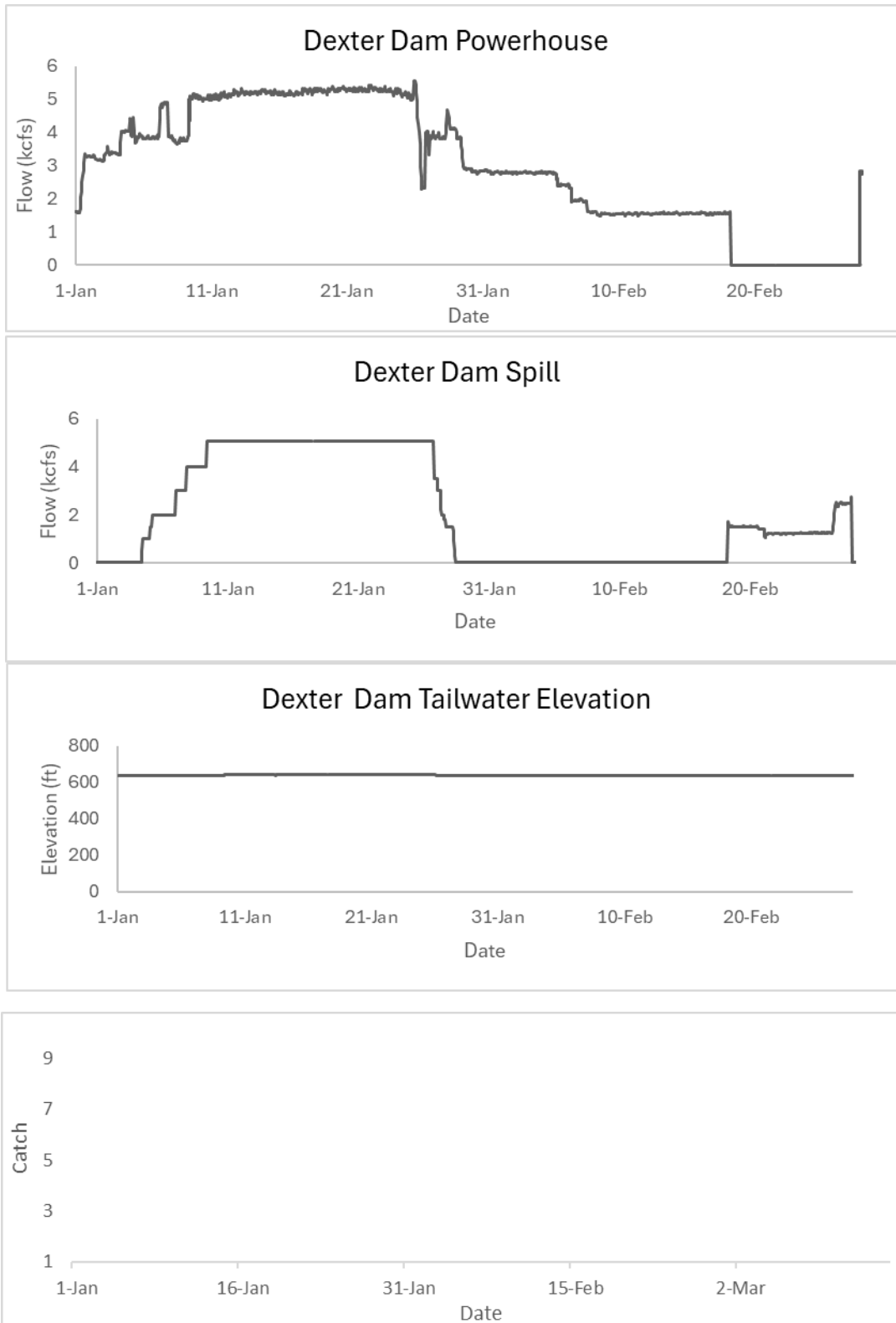
Lookout Point Head of Reservoir Operational and Capture Data in 2025



Lookout Dam Operational and Capture Data in 2025



Dexter Dam Operational and Capture Data in 2025



Appendix C

| Release Location | Date of Release | Flow at Release | # of Fish Released | # of Fish Recaptured | % Efficiency |
|---|-----------------|-----------------|--------------------|----------------------|--------------|
| Breitenbush River | 6/21/2023 | 231.0 | 749 | 53 | 7.1% |
| Breitenbush River | 7/6/2023 | 525.0 | 763 | 25 | 3.3% |
| Breitenbush River | 8/2/2023 | 2230.0 | 791 | 12 | 1.5% |
| Breitenbush River | 9/20/2023 | 776.0 | 756 | 7 | 0.9% |
| Breitenbush River | 10/5/2023 | 370.0 | 789 | 18 | 2.3% |
| Breitenbush River | 10/25/2023 | 539.0 | 750 | 51 | 6.8% |
| Breitenbush River | 11/10/2023 | 820.0 | 750 | 152 | 20.3% |
| Breitenbush River | 11/21/2023 | 405.0 | 900 | 55 | 6.1% |
| Breitenbush River | 2/7/2024 | 730.0 | 750 | 15 | 2.0% |
| Breitenbush River | 2/21/2024 | 715.0 | 750 | 135 | 18.0% |
| Breitenbush River | 3/6/2024 | 540.0 | 748 | 78 | 10.4% |
| Breitenbush River | 3/25/2024 | 822.0 | 243 | 11 | 4.5% |
| Breitenbush River | 5/15/2024 | 819.0 | 692 | 9 | 1.3% |
| Breitenbush River | 6/25/2024 | 297.0 | 752 | 45 | 6.0% |
| Breitenbush River | 7/16/2024 | 188.0 | 764 | 18 | 2.3% |
| Breitenbush River | 8/2/2024 | 151.0 | 684 | 16 | 2.3% |
| Breitenbush River | 9/10/2024 | 122.0 | 774 | 11 | 1.4% |
| Breitenbush River | 10/30/2024 | 193.0 | 786 | 29 | 3.7% |
| Breitenbush River | 11/26/2024 | 750.0 | 718 | 120 | 16.7% |
| Breitenbush River | 2/26/2025 | 1790.0 | 1,466 | 55 | 3.8% |
| Breitenbush River | 3/4/2025 | 791.0 | 750 | 11 | 1.5% |
| Breitenbush River | 3/12/2025 | 492.0 | 762 | 123 | 16.1% |
| Detroit Head of Reservoir- North Santiam | 6/6/2023 | 833.0 | 540 | 28 | 5.2% |
| Detroit Head of Reservoir- North Santiam | 6/20/2023 | 653.0 | 750 | 61 | 8.1% |
| Detroit Head of Reservoir- North Santiam | 7/6/2023 | 171.0 | 750 | 13 | 1.7% |
| Detroit Head of Reservoir- North Santiam | 8/2/2023 | 431.0 | 750 | 19 | 2.5% |
| Detroit Head of Reservoir- North Santiam | 9/6/2023 | 1800.0 | 700 | 19 | 2.7% |
| Detroit Head of Reservoir- North Santiam | 10/5/2023 | 135.0 | 750 | 24 | 3.2% |
| Detroit Head of Reservoir- North Santiam | 10/25/2023 | 289.0 | 757 | 72 | 9.5% |
| Detroit Head of Reservoir- North Santiam | 11/10/2023 | 578.0 | 813 | 91 | 11.2% |
| Detroit Head of Reservoir- North Santiam | 11/21/2023 | 601.0 | 1,014 | 111 | 10.9% |
| Detroit Head of Reservoir- North Santiam | 2/7/2024 | 1290.0 | 749 | 8 | 1.1% |
| Detroit Head of Reservoir- North Santiam | 2/21/2024 | 1030.0 | 749 | 117 | 15.6% |
| Detroit Head of Reservoir- North Santiam | 3/6/2024 | 968.0 | 751 | 83 | 11.0% |
| Detroit Head of Reservoir- North Santiam | 5/15/2024 | 1400.0 | 749 | 30 | 4.0% |
| Detroit Head of Reservoir- North Santiam+ | 6/6/2024 | 1200.0 | 450 | 13 | 2.9% |
| Detroit Head of Reservoir- North Santiam | 6/18/2024 | 786.0 | 836 | 32 | 3.8% |
| Detroit Head of Reservoir- North Santiam | 7/19/2024 | 492.0 | 843 | 39 | 4.6% |
| Detroit Head of Reservoir- North Santiam | 8/2/2024 | 470.0 | 749 | 30 | 4.0% |
| Detroit Head of Reservoir- North Santiam | 9/5/2024 | 401.0 | 733 | 21 | 2.9% |
| Detroit Head of Reservoir- North Santiam | 10/30/2024 | 492.0 | 750 | 90 | 12.0% |
| Detroit Head of Reservoir- North Santiam | 11/15/2024 | 998.0 | 686 | 110 | 16.0% |
| Detroit Head of Reservoir- North Santiam | 2/12/2025 | 610.0 | 827 | 90 | 10.9% |
| Detroit Head of Reservoir- North Santiam | 3/4/2025 | 1320.0 | 750 | 66 | 8.8% |
| Detroit Head of Reservoir- North Santiam | 3/12/2025 | 936.0 | 750 | 135 | 18.0% |
| Big Cliff Dam Tailrace* | 12/22/2021 | 3080.0 | 997 | 39 | 3.9% |
| Big Cliff Dam Tailrace* | 5/25/2022 | 3050.0 | 995 | 21 | 2.1% |
| Big Cliff Dam Tailrace* | 8/9/2022 | 1060.0 | 1000 | 92 | 9.2% |

| Release Location | Date of Release | Flow at Release | # of Fish Released | # of Fish Recaptured | % Efficiency |
|---|-----------------|-----------------|--------------------|----------------------|--------------|
| Big Cliff Dam Tailrace* | 9/30/2022 | 1590.0 | 995 | 48 | 4.8% |
| Big Cliff Dam Tailrace* | 10/13/2022 | 2820.0 | 500 | 15 | 3.0% |
| Big Cliff Dam Tailrace* | 10/24/2022 | 5520.0 | 535 | 25 | 4.7% |
| Big Cliff Dam Tailrace* | 11/2/2022 | 5450.0 | 949 | 40 | 4.2% |
| Big Cliff Dam Tailrace* | 11/16/2022 | 2790.0 | 509 | 15 | 2.9% |
| Big Cliff Dam Tailrace* | 12/14/2022 | 1380.0 | 502 | 60 | 12.0% |
| Big Cliff Dam Tailrace* | 12/19/2022 | 1330.0 | 1010 | 92 | 9.1% |
| Big Cliff Dam Tailrace* | 12/21/2022 | 1350.0 | 1014 | 33 | 3.3% |
| Big Cliff Dam Tailrace* | 12/27/2022 | 1520.0 | 704 | 47 | 6.7% |
| Big Cliff Dam Tailrace* | 12/29/2022 | 1480.0 | 452 | 22 | 4.9% |
| Big Cliff Dam Tailrace* | 1/25/2023 | 1330.0 | 500 | 56 | 11.2% |
| Big Cliff Dam Tailrace* | 2/17/2023 | 1470.0 | 499 | 38 | 7.6% |
| Big Cliff Dam Tailrace** | 3/7/2023 | 1080.0 | 2,968 | 61 | 2.1% |
| Big Cliff Dam Tailrace* | 3/10/2023 | 1180.0 | 541 | 112 | 20.7% |
| Big Cliff Dam Tailrace* | 4/28/2023 | 1310.0 | 498 | 34 | 6.8% |
| Big Cliff Dam Tailrace* | 5/23/2023 | 2440.0 | 500 | 6 | 1.2% |
| Big Cliff Dam Tailrace* | 6/21/2023 | 2740.0 | 500 | 8 | 1.6% |
| Big Cliff Dam Tailrace* | 7/5/2023 | 1580.0 | 500 | 33 | 6.6% |
| Big Cliff Dam Tailrace* | 8/3/2023 | 1080.0 | 474 | 42 | 8.9% |
| Big Cliff Dam Tailrace* | 9/19/2023 | 1580.0 | 424 | 64 | 15.1% |
| Big Cliff Dam Tailrace* | 10/6/2023 | 1590.0 | 500 | 56 | 11.2% |
| Big Cliff Dam Tailrace | 10/25/2023 | 1730.0 | 633 | 99 | 15.6% |
| Big Cliff Dam Tailrace | 11/16/2023 | 4050.0 | 527 | 0 | 0.0% |
| Big Cliff Dam Tailrace | 11/21/2023 | 3450.0 | 500 | 30 | 6.0% |
| Big Cliff Dam Tailrace | 12/28/2023 | 1990.0 | 550 | 56 | 10.2% |
| Big Cliff Dam Tailrace | 2/14/2024 | 1550.0 | 500 | 16 | 3.2% |
| Big Cliff Dam Tailrace | 2/21/2024 | 1060.0 | 464 | 52 | 11.2% |
| Big Cliff Dam Tailrace | 3/6/2024 | 1810.0 | 556 | 18 | 3.2% |
| Big Cliff Dam Tailrace** | 3/7/2024 | 1820.0 | 1,959 | 1 | 0.05% |
| Big Cliff Dam Tailrace | 3/12/2024 | 1780.0 | 550 | 18 | 3.3% |
| Big Cliff Dam Tailrace | 5/7/2024 | 3310.0 | 493 | 1 | 0.2% |
| Big Cliff Dam Tailrace | 6/18/2024 | 1440.0 | 499 | 18 | 3.6% |
| Big Cliff Dam Tailrace | 7/26/2024 | 1300.0 | 497 | 23 | 4.6% |
| Big Cliff Dam Tailrace | 8/16/2024 | 1080.0 | 500 | 48 | 9.6% |
| Big Cliff Dam Tailrace | 9/5/2024 | 1640.0 | 500 | 31 | 6.2% |
| Big Cliff Dam Tailrace | 9/11/2024 | 1610.0 | 1,054 | 80 | 7.6% |
| Big Cliff Dam Tailrace | 10/30/2024 | 2230.0 | 500 | 24 | 4.8% |
| Big Cliff Dam Tailrace | 11/15/2024 | 4600.0 | 500 | 17 | 3.4% |
| Big Cliff Dam Tailrace | 12/03/2024 | 1300.0 | 500 | 89 | 17.8% |
| Big Cliff Dam Tailrace | 1/21/2025 | 2850.0 | 500 | 10 | 2.0% |
| Big Cliff Dam Tailrace | 2/12/2025 | 1050.0 | 500 | 84 | 16.8% |
| Big Cliff Dam Tailrace | 2/26/2024 | 1100.0 | 2,543 | 472 | 18.6% |
| Big Cliff Dam Tailrace | 3/4/2025 | 2000.0 | 486 | 8 | 1.7% |
| Big Cliff Dam Tailrace | 3/12/2025 | 1050.0 | 772 | 51 | 6.6% |
| Green Peter Head of Reservoir- Middle Santiam (dead fish) | 6/7/2023 | 2.0 | 1,000 | 0 | 0.0% |
| Green Peter Head of Reservoir- Middle Santiam | 6/7/2023 | 2.0 | 750 | 1 | 0.1% |
| Green Peter Head of Reservoir- Middle Santiam | 7/28/2023 | 1.0 | 750 | 0 | 0.0% |
| Green Peter Head of Reservoir- Middle Santiam | 8/30/2023 | 0.9 | 749 | 0 | 0.0% |
| Green Peter Head of Reservoir- Middle Santiam | 9/27/2023 | 1.3 | 741 | 0 | 0.0% |

| Release Location | Date of Release | Flow at Release | # of Fish Released | # of Fish Recaptured | % Efficiency |
|---|-----------------|-----------------|--------------------|----------------------|--------------|
| Green Peter Head of Reservoir- Middle Santiam | 10/11/2023 | 2.9 | 750 | 0 | 0.0% |
| Green Peter Head of Reservoir- Middle Santiam | 10/31/2023 | 1.5 | 750 | 0 | 0.0% |
| Green Peter Head of Reservoir- Middle Santiam (dead fish) | 10/31/2023 | 1.5 | 1,000 | 0 | 0.0% |
| Green Peter Head of Reservoir- Middle Santiam | 11/15/2023 | 2.5 | 749 | 1 | 0.1% |
| Green Peter Head of Reservoir- Middle Santiam | 2/8/2024 | 3.2 | 753 | 4 | 0.5% |
| Green Peter Head of Reservoir- Middle Santiam+ | 3/6/2024 | 3.1 | 2500 | 26 | 1.0% |
| Green Peter Head of Reservoir- Middle Santiam | 3/14/2024 | 3.4 | 800 | 4 | 0.5% |
| Green Peter Head of Reservoir- Middle Santiam | 4/2/2024 | 3.4 | 754 | 2 | 0.3% |
| Green Peter Head of Reservoir- Middle Santiam (dead fish) | 4/2/2024 | 3.4 | 1,002 | 1 | 0.1% |
| Green Peter Head of Reservoir- Middle Santiam+ | 4/12/2024 | 3.0 | 2,500 | 23 | 0.9% |
| Green Peter Head of Reservoir- Middle Santiam (dead fish) | 4/19/2024 | 2.6 | 1,000 | 0 | 0.0% |
| Green Peter Head of Reservoir- Middle Santiam | 5/15/2024 | 3.2 | 998 | 35 | 3.5% |
| Green Peter Head of Reservoir- Middle Santiam | 6/5/2024 | 3.5 | 1083 | 10 | 0.9% |
| Green Peter Head of Reservoir- Middle Santiam | 7/9/2024 | 1.4 | 1,001 | 0 | 0.0% |
| Green Peter Head of Reservoir- Middle Santiam | 8/14/2024 | 1.0 | 1,001 | 0 | 0.0% |
| Green Peter Head of Reservoir- Middle Santiam | 9/10/2024 | 0.9 | 999 | 0 | 0.0% |
| Green Peter Head of Reservoir- Middle Santiam | 10/9/2024 | 0.8 | 998 | 0 | 0.0% |
| Green Peter Head of Reservoir- Middle Santiam | 11/5/2024 | 2.7 | 996 | 3 | 0.3% |
| Green Peter Head of Reservoir- Middle Santiam (dead fish) | 11/12/2024 | 2.8 | 1,000 | 1 | 0.1% |
| Green Peter Head of Reservoir- Middle Santiam | 2/10/2025 | 2.3 | 2,001 | 7 | 0.003% |
| Green Peter Head of Reservoir- Middle Santiam | 3/2/2025 | 3.9 | 2002 | 6 | 0.3% |
| Green Peter Head of Reservoir- Middle Santiam | 3/9/2025 | 3.0 | 2001 | 23 | 1.2% |
| Green Peter Head of Reservoir- Middle Santiam+ | 3/12/2025 | 2.8 | 2500 | 80 | 3.2% |
| Green Peter Head of Reservoir- Middle Santiam (dead fish) | 3/12/2025 | 2.8 | 2900 | 0 | 0.0% |
| Green Peter Dam Tailrace- Spill* | 3/29/2022 | 970.0 | 643 | 4 | 0.6% |
| Green Peter Dam Tailrace- Spill* | 4/30/2022 | 1310.0 | 518 | 9 | 1.7% |
| Green Peter Dam Tailrace- Spill* | 5/11/2023 | 1910.0 | 999 | 9 | 0.9% |
| Green Peter Dam Tailrace- Spill (dead fish) * | 5/11/2023 | 1910.0 | 1,001 | 0 | 0.0% |
| Green Peter Dam Tailrace- PH* | 5/25/2023 | 1980.0 | 1,000 | 10 | 1.0% |
| Green Peter Dam Tailrace- PH* | 6/30/2023 | 2000.0 | 1,000 | 9 | 0.9% |
| Green Peter Dam Tailrace- PH (dead fish)* | 6/30/2023 | 50.0 | 1,000 | 10 | 1.0% |
| Green Peter Dam Tailrace- PH* | 7/27/2023 | 49.4 | 1,009 | 13 | 1.3% |
| Green Peter Dam Tailrace- PH* | 8/16/2023 | 3905.0 | 1,008 | 7 | 0.7% |
| Green Peter Dam Tailrace- PH* | 8/31/2023 | 34.6 | 1,000 | 8 | 0.8% |
| Green Peter Dam Tailrace- PH* | 10/4/2023 | 3060.0 | 1,005 | 0 | 0.0% |
| Green Peter Dam Tailrace* | 11/1/2023 | 1430.0 | 1,000 | 22 | 2.2% |
| Green Peter Dam Tailrace* | 11/14/2023 | 1300.0 | 1,000 | 7 | 0.7% |
| Green Peter Dam Tailrace- Spill* | 11/29/2023 | 630.0 | 1,000 | 28 | 2.8% |
| Green Peter Dam Tailrace- Spill (dead fish) * | 11/29/2023 | 630.0 | 3,999 | 11 | 0.3% |
| Green Peter Dam Tailrace* | 12/8/2023 | 3700.0 | 1,000 | 25 | 2.5% |
| Green Peter Dam Tailrace- Spill* | 12/19/2023 | 50.0 | 1,000 | 3 | 0.3% |
| Green Peter Dam Tailrace- PH | 1/9/2024 | 3590.0 | 1,003 | 9 | 0.9% |
| Green Peter Dam Tailrace- Spill | 2/16/2024 | 500.0 | 1,000 | 1 | 0.1% |
| Green Peter Dam Tailrace- PH | 3/26/2024 | 2120.0 | 1,014 | 1 | 0.1% |
| Green Peter Dam Tailrace- Spill | 3/26/2024 | 1100.0 | 1,004 | 2 | 0.2% |
| Green Peter Dam Tailrace- Spill (dead fish) | 3/26/2024 | 1100.0 | 3,000 | 0 | 0.0% |

| Release Location | Date of Release | Flow at Release | # of Fish Released | # of Fish Recaptured | % Efficiency |
|--|-----------------|-----------------|--------------------|----------------------|--------------|
| Green Peter Dam Tailrace- Spill | 4/18/2024 | 1270.0 | 1,011 | 3 | 0.3% |
| Green Peter Dam Tailrace- Spill (dead fish) | 4/24/2024 | 1270.0 | 3,000 | 2 | 0.1% |
| Green Peter Dam Tailrace- Spill | 4/24/2024 | 1270.0 | 1,000 | 2 | 0.2% |
| Green Peter Dam Tailrace- PH | 6/11/2024 | 1890.0 | 1,000 | 3 | 0.3% |
| Green Peter Dam Tailrace- PH | 6/18/2024 | 2010.0 | 1,001 | 1 | 0.1% |
| Green Peter Dam Tailrace- PH | 8/7/2024 | 2009.0 | 1,000 | 12 | 1.2% |
| Green Peter Dam Tailrace- PH | 8/21/2024 | 1097.0 | 1,000 | 2 | 0.2% |
| Green Peter Dam Tailrace- PH | 9/4/2024 | 2070.0 | 999 | 0 | 0.0% |
| Green Peter Dam Tailrace- PH | 10/1/2024 | 2000.0 | 1,000 | 14 | 1.4% |
| Green Peter Dam Tailrace- Spill | 10/30/2024 | 2400.0 | 1,003 | 28 | 2.8% |
| Green Peter Dam Tailrace- Spill | 11/1/2024 | 2500.0 | 1,000 | 21 | 2.1% |
| Green Peter Dam Tailrace- Spill | 12/11/2024 | 800.0 | 1,000 | 6 | 0.6% |
| Green Peter Dam Tailrace- PH | 1/21/2025 | 4200.0 | 1,000 | 8 | 0.8% |
| Green Peter Dam Tailrace- PH | 2/27/2025 | 4400.0 | 1,997 | 0 | 0.0% |
| Green Peter Dam Tailrace- Spill | 3/5/2025 | 2100.0 | 1,998 | 5 | 0.25% |
| Green Peter Dam Tailrace- Spill (dead fish) | 3/12/2025 | 1800.0 | 5,858 | 2 | 0.03% |
| Foster Dam Head of Reservoir- South Santiam* | 9/29/2022 | 51.0 | 1,063 | 0 | 0.0% |
| Foster Dam Head of Reservoir- South Santiam* | 10/25/2022 | 211.0 | 821 | 116 | 14.1% |
| Foster Dam Head of Reservoir- South Santiam* | 11/1/2022 | 261.0 | 1006 | 263 | 26.1% |
| Foster Dam Head of Reservoir- South Santiam* | 11/9/2022 | 560.0 | 1007 | 68 | 6.8% |
| Foster Dam Head of Reservoir- South Santiam* | 11/15/2022 | 240.0 | 1009 | 55 | 5.5% |
| Foster Dam Head of Reservoir- South Santiam* | 11/22/2022 | 165.0 | 933 | 163 | 17.5% |
| Foster Dam Head of Reservoir- South Santiam* | 2/27/2023 | 376.0 | 1,002 | 21 | 2.1% |
| Foster Dam Head of Reservoir- South Santiam* | 3/9/2023 | 313.0 | 995 | 62 | 6.2% |
| Foster Dam Head of Reservoir- South Santiam* | 3/15/2023 | 966.0 | 1,025 | 0 | 0.0% |
| Foster Dam Head of Reservoir- South Santiam* | 5/11/2023 | 1130.0 | 985 | 20 | 2.0% |
| Foster Dam Head of Reservoir- South Santiam* | 6/2/2023 | 317.0 | 1,003 | 79 | 7.9% |
| Foster Dam Head of Reservoir- South Santiam* | 6/29/2023 | 89.0 | 1,000 | 22 | 2.2% |
| Foster Dam Head of Reservoir- South Santiam* | 7/27/2023 | 1980.0 | 989 | 0 | 0.0% |
| Foster Dam Head of Reservoir- South Santiam* | 8/31/2023 | 1630.0 | 1,000 | 0 | 0.0% |
| Foster Dam Head of Reservoir- South Santiam* | 9/27/2023 | 48.1 | 1,000 | 6 | 0.6% |
| Foster Dam Head of Reservoir- South Santiam* | 10/10/2023 | 50.6 | 1,016 | 55 | 5.4% |
| Foster Dam Head of Reservoir- South Santiam* | 11/14/2023 | 446.0 | 1,000 | 102 | 10.2% |
| Foster Dam Head of Reservoir- South Santiam* | 11/22/2023 | 321.0 | 1,001 | 79 | 7.9% |
| Foster Dam Head of Reservoir- South Santiam | 2/2/2024 | 1290.0 | 1,005 | 46 | 4.6% |
| Foster Dam Head of Reservoir- South Santiam | 3/19/2024 | 1310.0 | 1,000 | 12 | 1.2% |
| Foster Dam Head of Reservoir- South Santiam | 4/3/2024 | 923.0 | 1,003 | 16 | 1.6% |
| Foster Dam Head of Reservoir- South Santiam+ | 4/4/2024 | 774.0 | 1,909 | 28 | 1.5% |
| Foster Dam Head of Reservoir- South Santiam | 5/15/2024 | 753.0 | 999 | 30 | 3.0% |
| Foster Dam Head of Reservoir- South Santiam | 6/5/2024 | 1160.0 | 1,000 | 5 | 0.5% |
| Foster Dam Head of Reservoir- South Santiam | 8/13/2024 | 53.2 | 998 | 0 | 0.0% |
| Foster Dam Head of Reservoir- South Santiam | 8/22/2024 | 50.6 | 999 | 0 | 0.0% |
| Foster Dam Head of Reservoir- South Santiam | 9/18/2024 | 44.5 | 1,005 | 0 | 0.0% |
| Foster Dam Head of Reservoir- South Santiam | 10/2/2024 | 36.6 | 1,000 | 0 | 0.0% |
| Foster Dam Head of Reservoir- South Santiam | 11/8/2024 | 285.0 | 1,000 | 16 | 1.6% |
| Foster Dam Head of Reservoir- South Santiam | 2/3/2025 | 713.0 | 1,000 | 15 | 1.5% |
| Foster Dam Head of Reservoir- South Santiam | 2/17/2025 | 2910.0 | 2,000 | 50 | 2.5% |
| Foster Dam Head of Reservoir- South Santiam | 3/3/2025 | 1,100.0 | 2,000 | 17 | 0.85% |
| Foster Dam Head of Reservoir- South Santiam | 3/10/2025 | 575.0 | 2,000 | 27 | 1.4% |
| Cougar Head of Reservoir* | 3/8/2022 | 774.0 | 806 | 40 | 5.0% |

| Release Location | Date of Release | Flow at Release | # of Fish Released | # of Fish Recaptured | % Efficiency |
|----------------------------|-----------------|-----------------|--------------------|----------------------|--------------|
| Cougar Head of Reservoir* | 5/19/2022 | 1385.0 | 498 | 23 | 4.6% |
| Cougar Head of Reservoir* | 6/23/2022 | 711.0 | 486 | 7 | 1.4% |
| Cougar Head of Reservoir* | 9/22/2022 | 225.0 | 551 | 56 | 10.2% |
| Cougar Head of Reservoir* | 10/5/2022 | 207.0 | 608 | 47 | 7.7% |
| Cougar Head of Reservoir* | 11/10/2022 | 340.0 | 704 | 33 | 4.7% |
| Cougar Head of Reservoir* | 11/16/2022 | 259.0 | 719 | 28 | 3.9% |
| Cougar Head of Reservoir* | 11/23/2022 | 292.0 | 752 | 48 | 6.4% |
| Cougar Head of Reservoir* | 11/29/2022 | 295.0 | 620 | 48 | 7.7% |
| Cougar Head of Reservoir* | 4/14/2023 | 482.0 | 506 | 10 | 2.0% |
| Cougar Head of Reservoir* | 5/10/2023 | 950.0 | 508 | 7 | 1.4% |
| Cougar Head of Reservoir* | 5/16/2023 | 1140.0 | 497 | 23 | 4.6% |
| Cougar Head of Reservoir* | 6/8/2023 | 1670.0 | 510 | 23 | 4.5% |
| Cougar Head of Reservoir* | 7/27/2023 | 486.0 | 758 | 27 | 3.6% |
| Cougar Head of Reservoir** | 8/30/2023 | 211.0 | 5,151 | 127 | 2.5% |
| Cougar Head of Reservoir* | 9/21/2023 | 194.0 | 745 | 41 | 5.5% |
| Cougar Head of Reservoir* | 10/19/2023 | 211.0 | 750 | 42 | 5.6% |
| Cougar Head of Reservoir* | 11/14/2023 | 343.0 | 756 | 21 | 2.8% |
| Cougar Head of Reservoir* | 11/28/2023 | 266.0 | 760 | 67 | 8.8% |
| Cougar Head of Reservoir | 2/6/2024 | 894.0 | 768 | 53 | 6.9% |
| Cougar Head of Reservoir | 3/12/2024 | 720.0 | 756 | 26 | 3.4% |
| Cougar Head of Reservoir | 4/1/2024 | 760.0 | 754 | 24 | 3.2% |
| Cougar Head of Reservoir | 5/22/2024 | 859.0 | 760 | 41 | 5.4% |
| Cougar Head of Reservoir | 6/12/2024 | 445.0 | 750 | 17 | 2.3% |
| Cougar Head of Reservoir | 7/10/2024 | 256.0 | 749 | 20 | 2.5% |
| Cougar Head of Reservoir | 10/8/2024 | 194.0 | 751 | 27 | 3.6% |
| Cougar Head of Reservoir | 11/25/2024 | 807.0 | 749 | 33 | 4.4% |
| Cougar Dam Tailrace- PH* | 1/19/2022 | 925.0 | 405 | 37 | 9.1% |
| Cougar Dam Tailrace- PH* | 4/20/2022 | 860.0 | 357 | 67 | 18.8% |
| Cougar Dam Tailrace- PH* | 7/19/2022 | 310.0 | 495 | 148 | 29.9% |
| Cougar Dam Tailrace- PH* | 8/11/2022 | 700.0 | 501 | 29 | 5.8% |
| Cougar Dam Tailrace- PH* | 1/12/2023 | 500.0 | 843 | 159 | 18.9% |
| Cougar Dam Tailrace- PH* | 3/23/2023 | 500.0 | 500 | 49 | 9.8% |
| Cougar Dam Tailrace- PH* | 3/30/2023 | 490.0 | 497 | 95 | 19.1% |
| Cougar Dam Tailrace- PH* | 4/18/2023 | 585.0 | 297 | 14 | 4.7% |
| Cougar Dam Tailrace- PH* | 5/10/2023 | 750.0 | 499 | 5 | 1.0% |
| Cougar Dam Tailrace- PH* | 6/6/2023 | 370.0 | 507 | 65 | 12.8% |
| Cougar Dam Tailrace- PH* | 7/26/2023 | 370.0 | 510 | 63 | 12.4% |
| Cougar Dam Tailrace- PH* | 9/21/2023 | 350.0 | 500 | 53 | 10.6% |
| Cougar Dam Tailrace- PH* | 10/11/2023 | 2.7 | 500 | 83 | 16.6% |
| Cougar Dam Tailrace- PH | 1/30/2024 | 1000.0 | 502 | 70 | 13.9% |
| Cougar Dam Tailrace- PH | 2/7/2024 | 1000.0 | 493 | 43 | 8.7% |
| Cougar Dam Tailrace- PH | 3/11/2024 | 650.0 | 499 | 33 | 6.6% |
| Cougar Dam Tailrace- PH | 4/4/2024 | 1010.0 | 501 | 33 | 6.6% |
| Cougar Dam Tailrace- PH | 5/22/2024 | 330.0 | 500 | 38 | 7.6% |
| Cougar Dam Tailrace- PH | 6/12/2024 | 500.0 | 501 | 102 | 20.4% |
| Cougar Dam Tailrace- PH | 7/10/2024 | 300.0 | 503 | 94 | 18.7% |
| Cougar Dam Tailrace- RO* | 1/19/2022 | 1000.0 | 410 | 26 | 6.3% |
| Cougar Dam Tailrace- RO* | 4/20/2022 | 400.0 | 378 | 16 | 4.2% |
| Cougar Dam Tailrace- RO* | 5/15/2022 | 2570.0 | 987 | 64 | 6.5% |
| Cougar Dam Tailrace- RO* | 10/14/2022 | 890.0 | 442 | 49 | 11.1% |

| Release Location | Date of Release | Flow at Release | # of Fish Released | # of Fish Recaptured | % Efficiency |
|---|-----------------|-----------------|--------------------|----------------------|--------------|
| Cougar Dam Tailrace- RO* | 11/22/2022 | 350.0 | 504 | 24 | 4.8% |
| Cougar Dam Tailrace- RO* | 12/13/2022 | 430.0 | 506 | 42 | 8.3% |
| Cougar Dam Tailrace- RO* | 12/15/2022 | 360.0 | 1015 | 56 | 5.5% |
| Cougar Dam Tailrace- RO* | 12/20/2022 | 360.0 | 500 | 61 | 12.2% |
| Cougar Dam Tailrace- RO* | 12/28/2022 | 900.0 | 443 | 14 | 3.2% |
| Cougar Dam Tailrace- RO* | 1/30/2023 | 500.0 | 509 | 6 | 1.2% |
| Cougar Dam Tailrace- RO* | 3/23/2023 | 810.0 | 511 | 3 | 0.6% |
| Cougar Dam Tailrace- RO* | 3/30/2023 | 800.0 | 491 | 31 | 6.3% |
| Cougar Dam Tailrace- RO* | 4/18/2023 | 800.0 | 501 | 2 | 0.4% |
| Cougar Dam Tailrace- RO* | 5/10/2023 | 600.0 | 499 | 0 | 0.0% |
| Cougar Dam Tailrace- RO* | 10/11/2023 | 290.0 | 518 | 14 | 2.7% |
| Cougar Dam Tailrace- RO* | 11/8/2023 | 1100.0 | 508 | 43 | 8.5% |
| Cougar Dam Tailrace- RO* | 11/30/2023 | 310.0 | 505 | 26 | 5.1% |
| Cougar Dam Tailrace- RO | 12/18/2023 | 1200.0 | 505 | 2 | 0.4% |
| Cougar Dam Tailrace- RO | 1/11/2024 | 890.0 | 505 | 65 | 12.9% |
| Cougar Dam Tailrace- RO | 2/7/2024 | 2000.0 | 505 | 9 | 1.8% |
| Cougar Dam Tailrace- RO | 3/12/2024 | 720.0 | 499 | 16 | 3.2% |
| Cougar Dam Tailrace- RO | 4/1/2024 | 950.0 | 502 | 52 | 10.4% |
| Cougar Dam Tailrace- RO | 10/8/2024 | 480.0 | 501 | 19 | 3.8% |
| Cougar Dam Tailrace- RO | 11/15/2024 | 700.0 | 500 | 12 | 2.4% |
| Fall Creek Head of Reservoir* | 5/5/2023 | 3.8 | 756 | 15 | 2.0% |
| Fall Creek Head of Reservoir* | 5/10/2023 | 3.8 | 750 | 23 | 3.1% |
| Fall Creek Head of Reservoir* | 5/18/2023 | 3.5 | 511 | 7 | 1.4% |
| Fall Creek Head of Reservoir* | 5/24/2023 | 3.3 | 760 | 4 | 0.5% |
| Fall Creek Head of Reservoir | 1/2/2024 | 3.8 | 755 | 137 | 18.1% |
| Fall Creek Head of Reservoir | 2/2/2024 | 4.1 | 751 | 51 | 6.8% |
| Fall Creek Head of Reservoir | 3/5/2024 | 4.2 | 750 | 74 | 9.9% |
| Fall Creek Head of Reservoir | 3/26/2024 | 3.9 | 998 | 99 | 9.9% |
| Fall Creek Head of Reservoir | 4/15/2024 | 4.1 | 2,000 | 241 | 12.1% |
| Fall Creek Head of Reservoir | 5/21/2024 | 3.5 | 749 | 24 | 3.2% |
| Fall Creek Head of Reservoir | 5/29/2024 | 3.4 | 749 | 111 | 14.8% |
| Fall Creek Head of Reservoir | 6/13/2024 | 3.4 | 750 | 120 | 16.0% |
| Fall Creek Dam Tailrace- RO* | 6/8/2022 | 957.0 | 517 | 11 | 2.1% |
| Fall Creek Dam Tailrace- RO* | 6/30/2022 | 231.0 | 513 | 0 | 0.0% |
| Fall Creek Dam Tailrace- RO* | 7/13/2022 | 228.0 | 498 | 0 | 0.0% |
| Fall Creek Dam Tailrace- RO* | 5/11/2023 | 83.0 | 998 | 0 | 0.0% |
| Fall Creek Dam Tailrace- RO* | 6/28/2023 | 3240.0 | 992 | 0 | 0.0% |
| Fall Creek Dam Tailrace- RO | 10/3/2023 | 103.0 | 1,006 | 0 | 0.0% |
| Fall Creek Dam Tailrace- RO | 10/17/2023 | 2630.0 | 1,020 | 14 | 1.4% |
| Fall Creek Dam Tailrace- RO | 7/11/2023 | 460.0 | 1,011 | 0 | 0.0% |
| Fall Creek Dam Tailrace- RO | 1/22/2024 | 1028.0 | 999 | 12 | 1.2% |
| Fall Creek Dam Tailrace- RO | 2/13/2024 | 1700.0 | 1,004 | 48 | 4.8% |
| Fall Creek Dam Tailrace- RO | 3/5/2024 | 1000.0 | 1,001 | 14 | 1.4% |
| Fall Creek Dam Tailrace- RO | 3/26/2024 | 55.0 | 1,600 | 0 | 0.0% |
| Fall Creek Dam Tailrace- RO | 4/8/2024 | 124.0 | 2,000 | 0 | 0.0% |
| Hills Creek Head of Reservoir- Middle Fork Willamette | 5/18/2023 | 11.1 | 519 | 44 | 8.5% |
| Hills Creek Head of Reservoir- Middle Fork Willamette | 6/19/2023 | 9.0 | 760 | 6 | 0.8% |

| Release Location | Date of Release | Flow at Release | # of Fish Released | # of Fish Recaptured | % Efficiency |
|---|-----------------|-----------------|--------------------|----------------------|--------------|
| Hills Creek Head of Reservoir- Middle Fork Willamette | 2/15/2024 | 10.0 | 761 | 0 | 0.0% |
| Hills Creek Head of Reservoir- Middle Fork Willamette | 2/20/2024 | 10.1 | 749 | 18 | 2.4% |
| Hills Creek Head of Reservoir- Middle Fork Willamette | 3/20/2024 | 10.8 | 752 | 16 | 2.1% |
| Hills Creek Head of Reservoir- Middle Fork Willamette | 4/9/2024 | 9.5 | 2,001 | 9 | 0.4% |
| Hills Creek Head of Reservoir- Middle Fork Willamette | 5/1/2024 | 9.8 | 750 | 32 | 4.3% |
| Hills Creek Head of Reservoir- Middle Fork Willamette | 5/23/2024 | 9.6 | 749 | 11 | 1.5% |
| Hills Creek Head of Reservoir- Middle Fork Willamette | 6/20/2024 | 8.9 | 750 | 7 | 0.9% |
| Hills Creek Dam Tailrace- PH* | 1/6/2022 | 810.0 | 596 | 20 | 3.4% |
| Hills Creek Dam Tailrace- PH* | 2/16/2022 | 410.0 | 600 | 12 | 2.0% |
| Hills Creek Dam Tailrace- PH* | 2/25/2022 | 410.0 | 604 | 6 | 1.0% |
| Hills Creek Dam Tailrace- PH* | 12/7/2022 | 890.0 | 514 | 29 | 5.6% |
| Hills Creek Dam Tailrace- PH* | 2/25/2023 | 910.0 | 519 | 15 | 2.9% |
| Hills Creek Dam Tailrace- PH* | 4/26/2023 | 540.0 | 506 | 62 | 12.3% |
| Hills Creek Dam Tailrace- PH* | 5/17/2023 | 440.0 | 505 | 57 | 11.3% |
| Hills Creek Dam Tailrace- PH* | 6/3/2023 | 710.0 | 508 | 36 | 7.1% |
| Hills Creek Dam Tailrace- PH* | 6/27/2023 | 720.0 | 507 | 22 | 4.3% |
| Hills Creek Dam Tailrace- PH | 9/27/2023 | 400.0 | 510 | 9 | 1.8% |
| Hills Creek Dam Tailrace- PH | 10/17/2023 | 460.0 | 509 | 8 | 1.6% |
| Hills Creek Dam Tailrace- PH | 10/31/2023 | 470.0 | 503 | 8 | 1.6% |
| Hills Creek Dam Tailrace- PH | 11/15/2023 | 660.0 | 500 | 46 | 9.2% |
| Hills Creek Dam Tailrace- PH | 1/23/2024 | 910.0 | 505 | 8 | 1.6% |
| Hills Creek Dam Tailrace- PH | 2/22/2024 | 410.0 | 1,473 | 31 | 2.1% |
| Hills Creek Dam Tailrace- PH | 3/13/2024 | 430.0 | 1,494 | 11 | 0.7% |
| Hills Creek Dam Tailrace- PH | 4/11/2024 | 830.0 | 3,996 | 68 | 1.7% |
| Hills Creek Dam Tailrace- PH | 6/4/2024 | 200.0 | 1,250 | 45 | 3.6% |
| Hills Creek Dam Tailrace PH- RO Trial* | 1/6/2022 | 810.0 | 596 | 5 | 0.8% |
| Hills Creek Dam Tailrace PH- RO Trial* | 2/16/2022 | 410.0 | 600 | 0 | 0.0% |
| Hills Creek Dam Tailrace PH- RO Trial* | 2/25/2022 | 410.0 | 604 | 1 | 0.2% |
| Hills Creek Dam Tailrace PH- RO Trial* | 12/7/2022 | 890.0 | 514 | 3 | 0.6% |
| Hills Creek Dam Tailrace PH- RO Trial* | 2/25/2023 | 910.0 | 519 | 0 | 0.0% |
| Hills Creek Dam Tailrace PH- RO Trial* | 4/26/2023 | 530.0 | 506 | 12 | 2.4% |
| Hills Creek Dam Tailrace PH- RO Trial* | 5/17/2023 | 450.0 | 505 | 2 | 0.4% |
| Hills Creek Dam Tailrace PH- RO Trial* | 6/3/2023 | 710.0 | 508 | 2 | 0.4% |
| Hills Creek Dam Tailrace PH- RO Trial* | 6/27/2023 | 720.0 | 507 | 0 | 0.0% |
| Hills Creek Dam Tailrace PH- RO Trial | 9/27/2023 | 400.0 | 510 | 1 | 0.2% |
| Hills Creek Dam Tailrace PH- RO Trial | 10/17/2023 | 2630.0 | 509 | 0 | 0.0% |
| Hills Creek Dam Tailrace PH- RO Trial | 10/31/2023 | 461.0 | 503 | 2 | 0.4% |
| Hills Creek Dam Tailrace PH- RO Trial | 11/15/2023 | 660.0 | 500 | 1 | 0.2% |
| Hills Creek Dam Tailrace PH- RO Trial | 2/22/2024 | 420.0 | 1,473 | 0 | 0.0% |
| Hills Creek Dam Tailrace PH- RO Trial | 3/13/2024 | 450.0 | 1,494 | 0 | 0.0% |
| Hills Creek Dam Tailrace PH- RO Trial | 4/11/2024 | 830.0 | 3,996 | 6 | 0.2% |
| Hills Creek Dam Tailrace PH- RO Trial | 6/4/2024 | 200.0 | 1,250 | 6 | 0.5% |
| Hills Creek Dam Tailrace- RO* | 1/6/2022 | 820.0 | 605 | 13 | 2.1% |
| Hills Creek Dam Tailrace- RO* | 2/16/2022 | 410.0 | 593 | 19 | 3.2% |

| Release Location | Date of Release | Flow at Release | # of Fish Released | # of Fish Recaptured | % Efficiency |
|--|-----------------|-----------------|--------------------|----------------------|--------------|
| Hills Creek Dam Tailrace- RO* | 2/25/2022 | 420.0 | 625 | 6 | 1.0% |
| Hills Creek Dam Tailrace- RO* | 12/13/2022 | 610.0 | 516 | 1 | 0.2% |
| Hills Creek Dam Tailrace- RO* | 2/25/2023 | 870.0 | 478 | 0 | 0.0% |
| Hills Creek Dam Tailrace- RO* | 6/13/2023 | 500.0 | 760 | 0 | 0.0% |
| Hills Creek Dam Tailrace- RO | 11/21/2023 | 1800.0 | 503 | 3 | 0.6% |
| Hills Creek Dam Tailrace- RO | 11/29/2023 | 1800.0 | 504 | 2 | 0.4% |
| Hills Creek Dam Tailrace- RO | 12/26/2023 | 110.0 | 505 | 10 | 2.0% |
| Hills Creek Dam Tailrace- RO | 1/4/2024 | 100.0 | 503 | 5 | 1.0% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 4/5/2022 | 3620.0 | 993 | 53 | 5.3% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 4/14/2022 | 3821.0 | 987 | 19 | 1.9% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 5/18/2022 | 4100.0 | 1004 | 125 | 12.5% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 7/20/2022 | 1110.0 | 1005 | 9 | 0.9% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 10/27/2022 | 1680.0 | 506 | 9 | 1.8% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 11/17/2022 | 1520.0 | 510 | 0 | 0.0% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 12/12/2022 | 1510.0 | 510 | 0 | 0.0% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 1/13/2023 | 3040.0 | 516 | 10 | 1.9% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 6/2/2023 | 2690.0 | 760 | 15 | 2.0% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 6/15/2023 | 1550.0 | 765 | 6 | 0.8% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 6/29/2023 | 92.9 | 769 | 2 | 0.3% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 7/19/2023 | 932.0 | 765 | 0 | 0.0% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 8/22/2023 | 1350.0 | 677 | 13 | 1.9% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 8/31/2023 | 3950.0 | 751 | 0 | 0.0% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 9/20/2023 | 103.0 | 787 | 1 | 0.1% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 10/26/2023 | 1220.0 | 755 | 0 | 0.0% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 11/15/2023 | 1600.0 | 755 | 3 | 0.4% |
| Lookout Point Head of Reservoir- Middle Fork Willamette* | 11/29/2023 | 3020.0 | 760 | 2 | 0.3% |
| Lookout Point Head of Reservoir- Middle Fork Willamette | 12/19/2023 | 5720.0 | 1,504 | 9 | 0.6% |
| Lookout Point Head of Reservoir- Middle Fork Willamette | 1/3/2024 | 2010.0 | 1,505 | 2 | 0.1% |
| Lookout Point Head of Reservoir- Middle Fork Willamette | 2/14/2024 | 2120.0 | 761 | 2 | 0.3% |
| Lookout Point Head of Reservoir- Middle Fork Willamette | 3/13/2024 | 3170.0 | 1,498 | 15 | 1.0% |
| Lookout Point Head of Reservoir- Middle Fork Willamette | 4/8/2024 | 2670.0 | 1,997 | 7 | 0.4% |

| Release Location | Date of Release | Flow at Release | # of Fish Released | # of Fish Recaptured | % Efficiency |
|---|-----------------|-----------------|--------------------|----------------------|--------------|
| Lookout Point Head of Reservoir- Middle Fork Willamette | 4/15/204 | 4130.0 | 2,002 | 20 | 1.0% |
| Lookout Point Head of Reservoir- Middle Fork Willamette | 5/1/2024 | 4620.0 | 751 | 35 | 4.7% |
| Lookout Point Head of Reservoir- Middle Fork Willamette | 5/23/2024 | 2440.0 | 751 | 14 | 1.9% |
| Lookout Point Head of Reservoir- Middle Fork Willamette | 6/19/2024 | 1300.0 | 756 | 0 | 0.0% |
| Lookout Point Head of Reservoir- Middle Fork Willamette | 9/5/2024 | 1885.0 | 750 | 6 | 0.8% |
| Lookout Dam Tailrace- PH* | 4/13/2022 | 2925.0 | 1000 | 0 | 0.0% |
| Lookout Dam Tailrace- PH* | 5/23/2023 | 2900.0 | 3,999 | 32 | 0.8% |
| Lookout Dam Tailrace- PH* | 6/1/2023 | 2950.0 | 4,011 | 6 | 0.1% |
| Lookout Dam Tailrace- PH* | 6/14/2023 | 3130.0 | 4,010 | 4 | 0.1% |
| Lookout Dam Tailrace- PH* | 6/28/2023 | 1340.0 | 4,010 | 3 | 0.1% |
| Lookout Dam Tailrace- PH* | 7/18/2023 | 2700.0 | 4,012 | 9 | 0.2% |
| Lookout Dam Tailrace- PH | 12/20/2023 | 4962.5 | 16,007 | 29 | 0.2% |
| Lookout Dam Tailrace- PH | 1/10/2024 | 6986.0 | 17,553 | 3 | 0.0% |
| Lookout Dam Tailrace- Spill | 9/13/2023 | 1850.0 | 3,636 | 0 | 0.0% |
| Lookout Dam Tailrace- Spill | 9/14/2023 | 1850.0 | 3,998 | 0 | 0.0% |
| Lookout Dam Tailrace- Spill | 10/25/2023 | 1630.0 | 4,042 | 0 | 0.0% |
| Lookout Dam Tailrace- Spill | 11/16/2023 | 1600.0 | 4,005 | 12 | 0.3% |
| Lookout Dam Tailrace- Spill | 12/6/2023 | 2450.0 | 8,007 | 18 | 0.2% |
| Lookout Dam Tailrace- Spill | 12/13/2023 | 6900.0 | 8,011 | 148 | 1.8% |
| Lookout Dam Tailrace- Spill | 3/27/2024 | 3600.0 | 7,800 | 11 | 0.1% |
| Lookout Dam Tailrace- Spill | 4/3/2024 | 3100.0 | 6,599 | 7 | 0.1% |
| Dexter Dam Tailrace- PH* | 7/21/2022 | 1560.0 | 976 | 2 | 0.2% |
| Dexter Dam Tailrace- PH* | 10/26/2022 | 2950.0 | 1007 | 1 | 0.1% |
| Dexter Dam Tailrace- PH* | 11/1/2022 | 3670.0 | 755 | 1 | 0.1% |
| Dexter Dam Tailrace- PH* | 11/17/2022 | 3450.0 | 991 | 4 | 0.4% |
| Dexter Dam Tailrace- PH* | 12/6/2022 | 1610.0 | 1010 | 10 | 1.0% |
| Dexter Dam Tailrace- PH* | 12/15/2022 | 1540.0 | 1025 | 1 | 0.1% |
| Dexter Dam Tailrace- PH* | 3/16/2023 | 1520.0 | 1,200 | 2 | 0.2% |
| Dexter Dam Tailrace- PH* | 5/25/2023 | 3040.0 | 4,003 | 14 | 0.3% |
| Dexter Dam Tailrace- PH* | 6/7/2023 | 3200.0 | 4,010 | 4 | 0.1% |
| Dexter Dam Tailrace- PH* | 6/21/2023 | 1270.0 | 4,028 | 15 | 0.4% |
| Dexter Dam Tailrace- PH* | 7/6/2023 | 2640.0 | 4,000 | 5 | 0.1% |
| Dexter Dam Tailrace- PH* | 8/23/2023 | 1710.0 | 4,012 | 14 | 0.3% |
| Dexter Dam Tailrace- PH* | 9/6/2023 | 398.0 | 4,037 | 13 | 0.3% |
| Dexter Dam Tailrace- PH* | 10/4/2023 | 1680.0 | 4,001 | 5 | 0.1% |
| Dexter Dam Tailrace- PH | 12/28/2023 | 1755.0 | 8,032 | 46 | 0.6% |
| Dexter Dam Tailrace- PH | 1/9/2024 | 3360.0 | 4,004 | 6 | 0.1% |
| Dexter Dam Tailrace- Spill* | 3/23/2022 | 1240.0 | 988 | 2 | 0.2% |
| Dexter Dam Tailrace- Spill* | 5/4/2022 | 5040.0 | 995 | 43 | 4.3% |
| Dexter Dam Tailrace- Spill* | 5/24/2022 | 2620.0 | 1018 | 67 | 6.6% |
| Dexter Dam Tailrace- Spill* | 3/29/2023 | 1590.0 | 1,199 | 5 | 0.4% |
| Dexter Dam Tailrace- Spill* | 8/2/2023 | 128.0 | 1,505 | 3 | 0.2% |
| Dexter Dam Tailrace- Spill* | 10/24/2023 | 1590.0 | 1,514 | 18 | 1.2% |
| Dexter Dam Tailrace- Spill* | 11/1/2023 | 1800.0 | 1,506 | 9 | 0.6% |
| Dexter Dam Tailrace- Spill* | 11/22/2023 | 3500.0 | 1,516 | 0 | 0.0% |
| Dexter Dam Tailrace- Spill* | 12/5/2023 | 2060.0 | 4,006 | 10 | 0.2% |

| Release Location | Date of Release | Flow at Release | # of Fish Released | # of Fish Recaptured | % Efficiency |
|--------------------------------|-----------------|-----------------|--------------------|----------------------|--------------|
| Dexter Dam Tailrace- Spill* | 12/12/2023 | 3850.0 | 4,001 | 13 | 0.3% |
| Dexter Dam Tailrace- Spill | 2/8/2024 | 8500.0 | 2,067 | 0 | 0.0% |
| Dexter Dam Tailrace- Spill | 2/28/2024 | 1200.0 | 1,959 | 17 | 0.9% |
| Dexter Dam Tailrace- Spill | 3/6/2024 | 1250.0 | 2000 | 4 | 0.2% |
| Dexter Dam Tailrace- Spill | 4/2/2024 | 3370.0 | 1,962 | 0 | 0.0% |
| Dexter Dam Tailrace- Spill | 4/10/2024 | 2800.0 | 6,000 | 10 | 0.2% |
| Dexter Dam Tailrace PH - Spill | 12/21/2023 | 2400.0 | 4,005 | 3 | 0.1% |

**Release performed by EAS for the USACE under contract W9127N19D0007. **Release performed by ODFW. +Release performed by Cramer Fish Sciences.*

Appendix D

Summary of PIT Tagged Fish by EAS in 2025

| Site | Trap | Species | # of PIT Tagged Fish (Reporting Period) | # of PIT Tagged Fish (To-Date) |
|---|-------|------------------|---|--------------------------------|
| Breitenbush River | 5 ft | Chinook | 6 | 33 |
| Breitenbush River | 5 ft | <i>O. mykiss</i> | 16 | 27 |
| Detroit Head of Reservoir – North Santiam | 5 ft | Chinook | 5 | 28 |
| Detroit Head of Reservoir – North Santiam | 5 ft | <i>O. mykiss</i> | 6 | 8 |
| Big Cliff Dam Tailrace | 8 ft | Chinook | 0 | 0 |
| Big Cliff Dam Tailrace | 8 ft | <i>O. mykiss</i> | 0 | 0 |
| Green Peter Head of Reservoir – Middle Santiam | 5 ft | Chinook | 1 | 2 |
| Green Peter Head of Reservoir – Middle Santiam | 5 ft | <i>O. mykiss</i> | 3 | 4 |
| Green Peter Dam Tailrace | 8 ft | Chinook | 0 | 0 |
| Green Peter Dam Tailrace | 8 ft | <i>O. mykiss</i> | 0 | 0 |
| Foster Dam Head of Reservoir – South Santiam | 5 ft | Chinook | 0 | 1 |
| Foster Dam Head of Reservoir – South Santiam | 5 ft | <i>O. mykiss</i> | 15 | 28 |
| Cougar Head of Reservoir | 5 ft | Chinook | 0 | 0 |
| Cougar Dam Tailrace | PH | Chinook | 0 | 0 |
| Cougar Dam Tailrace | RO | Chinook | 0 | 0 |
| Fall Creek Head of Reservoir | 8 ft | Chinook | 0 | 0 |
| Fall Creek Dam Tailrace | 8 ft | Chinook | 0 | 0 |
| Hills Creek Head of Reservoir- Middle Fork Willamette | 5 ft | Chinook | 0 | 0 |
| Hills Creek Dam Tailrace | RO | Chinook | 0 | 0 |
| Hills Creek Dam Tailrace | PH | Chinook | 0 | 0 |
| Lookout Point Head of Reservoir- Middle Fork Willamette | 5 ft | Chinook | 0 | 0 |
| Lookout Dam Tailrace | Spill | Chinook | 0 | 0 |
| Lookout Dam Tailrace | PH | Chinook | 0 | 0 |
| Dexter Dam Tailrace | 5 ft | Chinook | 0 | 0 |

Summary of EAS VIE Marked Fish by EAS in 2025*

| Site | Trap | Species | # VIE Marked Fish (Reporting Period) | # VIE Marked Fish (To-Date) |
|---|-------|------------------|--------------------------------------|-----------------------------|
| Breitenbush River | 5 ft | Chinook | 0 | 445 |
| Breitenbush River | 5 ft | <i>O. mykiss</i> | 0 | 1 |
| Detroit Head of Reservoir- North Santiam | 5 ft | Chinook | 0 | 252 |
| Detroit Head of Reservoir- North Santiam | 5 ft | <i>O. mykiss</i> | 0 | 0 |
| Green Peter Head of Reservoir- Middle Santiam | 5 ft | Chinook | 0 | 781 |
| Green Peter Head of Reservoir- Middle Santiam | 5 ft | <i>O. mykiss</i> | 0 | 0 |
| Foster Dam Head of Reservoir- South Santiam* | 5 ft | Chinook | 0 | 47 |
| Cougar Dam Head of Reservoir | 5 ft | Chinook | 0 | 1 |
| Fall Creek Head of Reservoir | 8 ft | Chinook | 0 | 1 |
| Hills Creek Head of Reservoir- Middle Fork Willamette | 5 ft | Chinook | 0 | 0 |
| Hills Creek Dam Tailrace | RO | Chinook | 0 | 0 |
| Hills Creek Dam Tailrace | PH | Chinook | 0 | 0 |
| Lookout Point Head of Reservoir- Middle Fork Willamette | 5 ft | Chinook | 0 | 1 |
| Lookout Dam Tailrace | Spill | Chinook | 0 | 0 |
| Lookout Dam Tailrace | PH | Chinook | 0 | 0 |

*Protocol error, reported to ODFW +Change in contract, as of 3/1/2025, no more VIE marking.

List of downstream redetections for fish PIT tagged at RST sites in 2025.

| PIT Tag # | Mark Date | Mark Site | Recap Date | Travel Time (# of days) | Encountered Site |
|-----------|-----------|-----------|------------|----------------------------|------------------|
| N/A | N/A | N/A | N/A | N/A | N/A |

Summary of fish containing PIT tags encountered by EAS in 2025.

| Site | Trap | Species | # Encountered Fish (Reporting Period) | # Encountered Fish (To-Date) |
|---|-------|------------------|--|---------------------------------|
| Breitenbush River | 5 ft | Chinook | 0 | 0 |
| Breitenbush River | 5 ft | <i>O. mykiss</i> | 0 | 0 |
| Detroit Head of Reservoir – North Santiam | 5 ft | Chinook | 0 | 0 |
| Detroit Head of Reservoir – North Santiam | 5 ft | <i>O. mykiss</i> | 0 | 0 |
| Big Cliff Dam Tailrace | 8 ft | Chinook | 2 | 3 |
| Big Cliff Dam Tailrace | 8 ft | <i>O. mykiss</i> | 0 | 0 |
| Green Peter Head of Reservoir – Middle Santiam | 5 ft | Chinook | 79 | 79 |
| Green Peter Head of Reservoir – Middle Santiam | 5 ft | <i>O. mykiss</i> | 0 | 0 |
| Green Peter Tailrace | 8 ft | Chinook | 7 | 7 |
| Green Peter Tailrace | 8 ft | <i>O. mykiss</i> | 0 | 0 |
| Foster Dam Head of Reservoir – South Santiam | 5 ft | Chinook | 0 | 0 |
| Foster Dam Head of Reservoir – South Santiam | 5 ft | <i>O. mykiss</i> | 0 | 0 |
| Cougar Head of Reservoir | 5 ft | Chinook | 0 | 0 |
| Cougar Dam Tailrace | PH | Chinook | 0 | 0 |
| Cougar Dam Tailrace | RO | Chinook | 0 | 0 |
| Fall Creek Head of Reservoir | 8 ft | Chinook | 0 | 0 |
| Fall Creek Dam Tailrace | 8 ft | Chinook | 0 | 0 |
| Hills Creek Head of Reservoir- Middle Fork Willamette | 5 ft | Chinook | 0 | 0 |
| Hills Creek Dam Tailrace | RO | Chinook | 0 | 0 |
| Hills Creek Dam Tailrace | PH | Chinook | 0 | 0 |
| Lookout Point Head of Reservoir- Middle Fork Willamette | 5 ft | Chinook | 0 | 0 |
| Lookout Dam Tailrace | Spill | Chinook | 0 | 0 |
| Lookout Dam Tailrace | PH | Chinook | 0 | 0 |
| Dexter Dam Tailrace | 5 ft | Chinook | 0 | 0 |

**Radio Tagged fish and Bull Trout excluded*

List of Bull Trout captured at RST sites and collected data in 2025.

| Site | Date | Length (est. mm) | Tag(s) | Condition |
|------|------|---------------------|--------|-----------|
| N/A | N/A | N/A | None | N/A |

List of radio or acoustic tagged Chinook captured at RST sites in 2025.

| Site | Trap | PIT Tag Number | Date | Species |
|----------------------|------|----------------|-----------|---------|
| Dexter Dam Tailrace | 5 ft | 3DD.003BD61E0D | 1/6/2025 | CHS |
| Dexter Dam Tailrace | 5 ft | 3DD.003BD61DB8 | 1/10/2025 | CHS |
| Green Peter Tailrace | 8 ft | 3DD.003BD2B97E | 1/1/2025 | CHS |
| Green Peter Tailrace | 8 ft | 3DD.003BD2C59C | 1/21/2025 | CHS |