

# Willamette Valley Fish Passage Monitoring – Reservoir Distribution & Riverine Sampling

Bi-Weekly Report: May 16 – May 31, 2025



*Prepared for: United States Army Corps of Engineers*

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June 6, 2025

## RESERVOIR DISTRIBUTION SUMMARY

Reservoir sampling during the reporting period was conducted in the nearshore areas of Green Peter and Lookout Point Reservoir using Oneida lake traps and box minnow traps (Table 1). Each reservoir was sampled every other week.

On Green Peter Reservoir, traps were deployed on 05/19/25 and pulled for the week on 05/22/25. During the sampling week, the average surface temperature was 15 °C (Table 2; Figure 2). Traps were set at the surface in each reservoir zone (Lower, Middle, Upper, and Quartzville). One Oneida trap and three box minnow traps were set in each reservoir longitudinal zone per sampling day with the exception of the Quartzville zone, which only had one Oneida and one box minnow trap. Over the course of the sampling week (Week of 5/19: n=12 Oneida sets, n=30 box minnow sets), three hatchery subyearling Chinook salmon, seventeen subyearling natural origin Chinook salmon, one yearling natural origin Chinook salmon, one dace, 27 northern pikeminnow, one cutthroat, one smallmouth bass, and ten bluegill were captured (Tables 1, 3-5). The hatchery Chinook salmon (recaptures from the bulk marking project) had an average fork length of 90.3 mm and were captured in the Lower reservoir zone. The natural origin subyearling Chinook salmon had an average fork length of 87.8 mm and were primarily caught in the Quartzville and Lower reservoir zones. The natural origin yearling Chinook salmon had a fork length of 235 mm and was caught in the Upper reservoir zone. Sixteen of the captured salmonids of natural origin were implanted with PIT tags. One of the natural origin subyearling Chinook salmon was identified as a recapture, however the tag code corresponded to an *O. mykiss* tagged by the seining crew in Quartzville creek. We are working to identify where the error has occurred.

On Lookout Point Reservoir, traps were deployed on 05/27/2025 and pulled for the week on 05/30/2025. During the sampling week, average surface temperatures were 16.7 °C (Table 2; Figure 1). Traps were set at the surface in each reservoir zone (Lower, Middle, and Upper). One Oneida trap and three box minnow traps were set in each reservoir longitudinal zone per sampling day. Over the course of the sampling week (n=9 Oneida sets, n=27 box minnow sets), one juvenile natural origin *O. mykiss*, two northern pikeminnow, 104 sculpin, one dace, one black crappie, and thirteen white crappie were captured (Tables 1, 3-5). The *O. mykiss* had a fork length of 61 mm and was captured in the Upper reservoir zone. It was not tagged because surface temperatures exceeded our permit tagging temperature threshold. The majority of the sculpin caught were <25 mm and appeared to be young of the year. There were 16 sculpin mortalities, which exceeded our permitted take allowance for that species. A permit modification was submitted to increase our incidental mortality rate for sculpin, which was approved on 6/3/2025.

**Table 1.** Start and end date by statistical week for 2025 reservoir sampling.

| Week | Start     | End       | Reservoir     | Net Type   | Effort<br>(# sets) | Effort<br>(hrs) |
|------|-----------|-----------|---------------|------------|--------------------|-----------------|
| 6    | 2/3/2025  | 2/4/2025  | Lookout Point | box minnow | 5                  | 118             |
| 6    | 2/3/2025  | 2/4/2025  | Lookout Point | oneida     | 2                  | 47              |
| 7    | 2/10/2025 | 2/12/2025 | Green Peter   | box minnow | 18                 | 414             |
| 7    | 2/10/2025 | 2/12/2025 | Green Peter   | oneida     | 8                  | 187             |
| 8    | 2/17/2025 | 2/20/2025 | Lookout Point | box minnow | 21                 | 485             |
| 8    | 2/17/2025 | 2/20/2025 | Lookout Point | oneida     | 9                  | 208             |
| 9    | 2/24/2025 | 2/27/2025 | Green Peter   | box minnow | 26                 | 615             |
| 9    | 2/24/2025 | 2/27/2025 | Green Peter   | oneida     | 11                 | 261             |
| 10   | 3/3/2025  | 3/6/2025  | Lookout Point | box minnow | 27                 | 646             |
| 10   | 3/3/2025  | 3/6/2025  | Lookout Point | oneida     | 9                  | 214             |
| 11   | 3/10/2025 | 3/14/2025 | Green Peter   | box minnow | 30                 | 841             |
| 11   | 3/10/2025 | 3/14/2025 | Green Peter   | oneida     | 12                 | 301             |
| 12   | 3/17/2025 | 3/20/2025 | Lookout Point | box minnow | 18                 | 655             |

| <b>Week</b> | <b>Start</b> | <b>End</b> | <b>Reservoir</b> | <b>Net Type</b> | <b>Effort<br/>(# sets)</b> | <b>Effort<br/>(hrs)</b> |
|-------------|--------------|------------|------------------|-----------------|----------------------------|-------------------------|
| 12          | 3/17/2025    | 3/20/2025  | Lookout Point    | oneida          | 6                          | 218                     |
| 13          | 3/24/2025    | 3/27/2025  | Green Peter      | box minnow      | 20                         | 591                     |
| 13          | 3/24/2025    | 3/27/2025  | Green Peter      | oneida          | 8                          | 252                     |
| 14          | 4/1/2025     | 4/4/2025   | Lookout Point    | box minnow      | 31                         | 734                     |
| 14          | 4/1/2025     | 4/4/2025   | Lookout Point    | oneida          | 9                          | 234                     |
| 15          | 4/7/2025     | 4/10/2025  | Green Peter      | box minnow      | 24                         | 792                     |
| 15          | 4/7/2025     | 4/10/2025  | Green Peter      | oneida          | 9                          | 262                     |
| 16          | 4/14/2025    | 4/17/2025  | Lookout Point    | box minnow      | 31                         | 734                     |
| 16          | 4/14/2025    | 4/17/2025  | Lookout Point    | oneida          | 9                          | 210                     |
| 17          | 4/21/2025    | 4/24/2025  | Lookout Point    | box minnow      | 27                         | 627                     |
| 17          | 4/21/2025    | 4/24/2025  | Lookout Point    | oneida          | 9                          | 208                     |
| 18          | 4/28/2025    | 5/1/2025   | Lookout Point    | box minnow      | 27                         | 631                     |
| 18          | 4/28/2025    | 5/1/2025   | Lookout Point    | oneida          | 9                          | 209                     |
| 19          | 5/5/2025     | 5/8/2025   | Green Peter      | box minnow      | 30                         | 717                     |
| 19          | 5/5/2025     | 5/8/2025   | Green Peter      | oneida          | 12                         | 285                     |
| 20          | 5/12/2025    | 5/15/2025  | Lookout Point    | box minnow      | 27                         | 628                     |
| 20          | 5/12/2025    | 5/15/2025  | Lookout Point    | oneida          | 9                          | 210                     |
| 21          | 5/19/2025    | 5/22/2025  | Green Peter      | box minnow      | 30                         | 711                     |
| 21          | 5/19/2025    | 5/22/2025  | Green Peter      | oneida          | 12                         | 285                     |
| 22          | 5/27/2025    | 5/30/2025  | Lookout Point    | box minnow      | 27                         | 650                     |
| 22          | 5/27/2025    | 5/30/2025  | Lookout Point    | oneida          | 9                          | 222                     |

**Table 2.** Mean surface water temperature measured during each trap net deployment.

| <b>Week</b> | <b>Reservoir</b> | <b>Mean Water Surface Temperature °C</b> |
|-------------|------------------|--|
| 6           | Lookout Point    | 4.3                                      |
| 7           | Green Peter      | 4.8                                      |
| 8           | Lookout Point    | 4.8                                      |
| 9           | Green Peter      | 6.2                                      |
| 10          | Lookout Point    | 6.8                                      |
| 11          | Green Peter      | 7.8                                      |
| 12          | Lookout Point    | 7.4                                      |
| 13          | Green Peter      | 11.4                                     |
| 14          | Lookout Point    | 8.5                                      |
| 15          | Green Peter      | 10.4                                     |
| 16          | Lookout Point    | 10.8                                     |
| 17          | Lookout Point    | 12.6                                     |
| 18          | Lookout Point    | 12.9                                     |
| 19          | Green Peter      | 15.6                                     |
| 20          | Lookout Point    | 14.3                                     |
| 21          | Green Peter      | 15                                       |
| 22          | Lookout Point    | 16.7                                     |

**Table 3.** Summary of total catch by reservoir. CHS – Chinook salmon, RBT – *O. mykiss*, CUT - Cutthroat trout, KOK – Kokanee, DAC – Speckled Dace, NPM - Northern Pikeminnow, RSS – Redside Shiner, SCU – Sculpin, BLG - Bluegill, LWB – Western Brook Lamprey, BBH- Brown bullhead, YBH – Yellow bullhead, LSS - Largemouth bass, SMB - Smallmouth Bass, LMB – largemouth bass, BLC – black crappie, WHC – white crappie, WAL – walleye, UNID – unidentified.

| Week | Reservoir     | CHS | RBT | CUT | KOK | DAC | NPM | RSS | SCU | BLG | LWB | BBH | YBH | LSS | SMB | LMB | BLC | WHC | WAL | UNID |
|------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 6    | Lookout Point | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    |
| 7    | Green Peter   | 11  | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    |
| 8    | Lookout Point | 1   | 2   | 2   | 0   | 1   | 1   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 2   | 0   | 0   | 0   | 0   | 0    |
| 9    | Green Peter   | 28  | 1   | 4   | 0   | 0   | 3   | 0   | 0   | 15  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    |
| 10   | Lookout Point | 0   | 3   | 7   | 0   | 1   | 3   | 2   | 0   | 4   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 1   | 0   | 0    |
| 11   | Green Peter   | 38  | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 7   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    |
| 12   | Lookout Point | 1   | 0   | 3   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0    |
| 13   | Green Peter   | 13  | 0   | 3   | 0   | 0   | 1   | 0   | 0   | 6   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0    |
| 14   | Lookout Point | 2   | 4   | 6   | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 7   | 0   | 0    |
| 15   | Green Peter   | 82  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    |
| 16   | Lookout Point | 1   | 7   | 4   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 15  | 0   | 0    |
| 17   | Lookout Point | 0   | 1   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 2   | 0   | 0   | 3   | 0   | 0    |
| 18   | Lookout Point | 0   | 1   | 1   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 3   | 0   | 0    |
| 19   | Green Peter   | 24  | 0   | 0   | 0   | 2   | 34  | 0   | 0   | 4   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    |
| 20   | Lookout Point | 1   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 1   | 0   | 0   | 0   | 1   | 0   | 0   | 1   | 1   | 0   | 0    |
| 21   | Green Peter   | 21  | 0   | 1   | 0   | 1   | 27  | 0   | 0   | 10  | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0    |
| 22   | Lookout Point | 0   | 1   | 0   | 0   | 1   | 2   | 0   | 104 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 13  | 0   | 0    |

**Table 4.** Catch summary of Chinook salmon and *O. mykiss* by reservoir zone. CHS-AD = ad clipped Chinook salmon, CHS-natural = natural origin Chinook salmon, RBT-AD = ad clipped *O. mykiss*, RBT-natural = natural origin *O. mykiss*.

| Week | Reservoir     | Species     | Lifestage | LOWER | MIDDLE | UPPER | QUARTZVILLE |
|------|---------------|-------------|-----------|-------|--------|-------|-------------|
| 6    | Lookout Point | RBT-natural | Adult     | 0     | 0      | 1     | 0           |
| 7    | Green Peter   | CHS-natural | Fry       | 0     | 0      | 10    | 0           |
| 7    | Green Peter   | RBT-AD      | Adult     | 0     | 1      | 0     | 0           |
| 7    | Green Peter   | RBT-natural | Juvenile  | 0     | 1      | 0     | 0           |
| 8    | Lookout Point | CHS-AD      | Yearling  | 1     | 0      | 0     | 0           |
| 8    | Lookout Point | RBT-natural | Adult     | 0     | 1      | 0     | 0           |

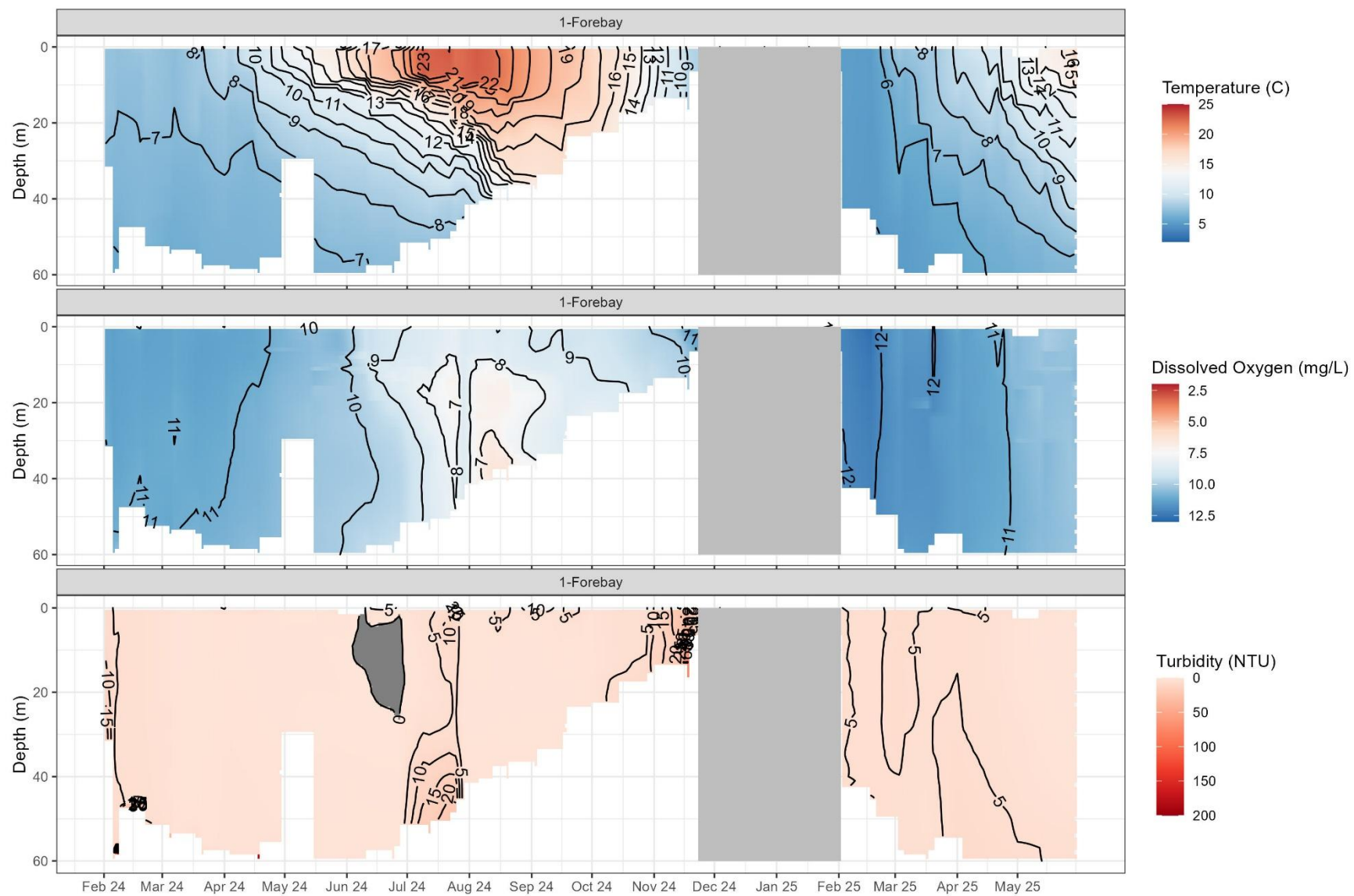


| Week | Reservoir     | Species     | Lifestage    | LOWER | MIDDLE | UPPER | QUARTZVILLE |
|------|---------------|-------------|--------------|-------|--------|-------|-------------|
| 8    | Lookout Point | RBT-natural | Juvenile     | 0     | 1      | 0     | 0           |
| 9    | Green Peter   | CHS-natural | Fry          | 0     | 8      | 11    | 1           |
| 9    | Green Peter   | CHS-natural | Sub-Yearling | 0     | 4      | 4     | 0           |
| 9    | Green Peter   | RBT-natural | Juvenile     | 0     | 0      | 0     | 1           |
| 10   | Lookout Point | RBT-natural | Juvenile     | 0     | 0      | 3     | 0           |
| 11   | Green Peter   | CHS-natural | Fry          | 1     | 2      | 21    | 2           |
| 11   | Green Peter   | CHS-natural | Sub-Yearling | 0     | 3      | 7     | 2           |
| 12   | Lookout Point | CHS-natural | Sub-Yearling | 1     | 0      | 0     | 0           |
| 13   | Green Peter   | CHS-AD      | Sub-Yearling | 0     | 1      | 0     | 0           |
| 13   | Green Peter   | CHS-natural | Fry          | 0     | 5      | 4     | 1           |
| 13   | Green Peter   | CHS-natural | Sub-Yearling | 0     | 0      | 2     | 0           |
| 14   | Lookout Point | CHS-natural | Sub-Yearling | 1     | 1      | 0     | 0           |
| 14   | Lookout Point | RBT-natural | Juvenile     | 0     | 2      | 2     | 0           |
| 15   | Green Peter   | CHS-AD      | Sub-Yearling | 0     | 0      | 0     | 43          |
| 15   | Green Peter   | CHS-natural | Fry          | 0     | 0      | 1     | 19          |
| 15   | Green Peter   | CHS-natural | Sub-Yearling | 0     | 0      | 1     | 18          |
| 16   | Lookout Point | CHS-natural | Sub-Yearling | 0     | 1      | 0     | 0           |
| 16   | Lookout Point | RBT-natural | Adult        | 0     | 1      | 0     | 0           |
| 16   | Lookout Point | RBT-natural | Juvenile     | 0     | 0      | 6     | 0           |
| 17   | Lookout Point | RBT-natural | Juvenile     | 0     | 0      | 1     | 0           |
| 18   | Lookout Point | RBT-natural | Adult        | 0     | 0      | 1     | 0           |
| 19   | Green Peter   | CHS-AD      | Sub-Yearling | 0     | 0      | 0     | 2           |
| 19   | Green Peter   | CHS-natural | Sub-Yearling | 2     | 0      | 11    | 9           |
| 20   | Lookout Point | CHS-natural | Sub-Yearling | 0     | 1      | 0     | 0           |
| 21   | Green Peter   | CHS-AD      | Sub-Yearling | 3     | 0      | 0     | 0           |
| 21   | Green Peter   | CHS-natural | Sub-Yearling | 10    | 1      | 0     | 6           |
| 21   | Green Peter   | CHS-natural | Yearling     | 0     | 0      | 1     | 0           |
| 22   | Lookout Point | RBT-natural | Juvenile     | 0     | 0      | 1     | 0           |

**Table 5.** Summary of Chinook salmon and *O. mykiss* lengths, tags implanted, recaptures and sampling mortalities. LOP – Lookout Point Reservoir, GPR – Green Peter Reservoir. FL = fork length. \*One fish was captured that had no PIT tag, but had a PIT tag scar and evidence of prior fin clip (likely tag shed).

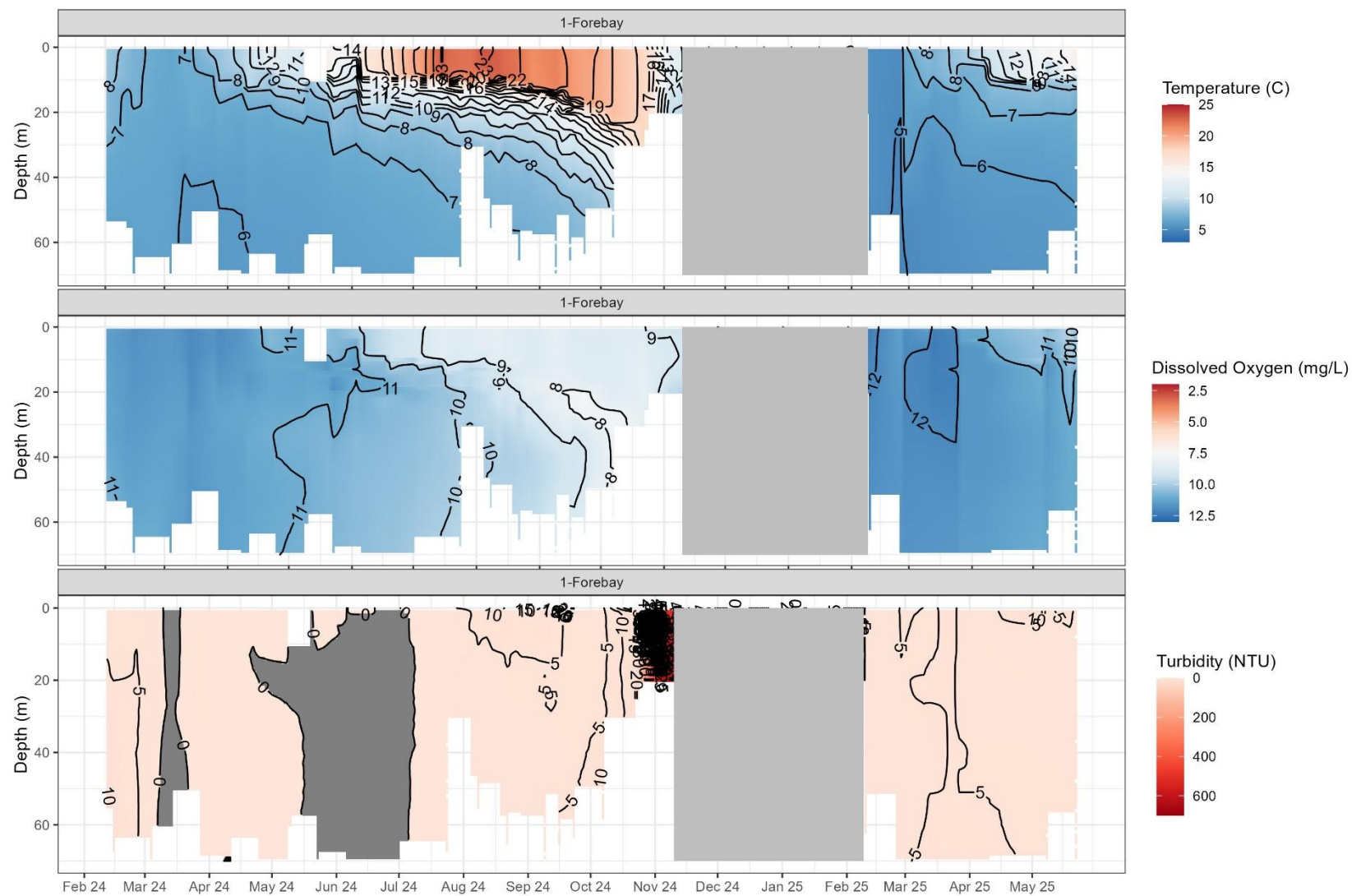
| Week | Reservoir     | Species     | Lifestage    | Catch | Min FL<br>(mm) | Mean FL<br>(mm) | Max FL<br>(mm) | # VIE<br>tagged | # PIT<br>tagged | # Recap | Mortalities |
|------|---------------|-------------|--------------|-------|----------------|-----------------|----------------|-----------------|-----------------|---------|-------------|
| 6    | Lookout Point | RBT-natural | Adult        | 1     | 235            | 235             | 235            | 0               | 0               | 0       | 0           |
| 7    | Green Peter   | CHS-natural | Fry          | 10    | 39             | 42.4            | 45             | 0               | 0               | 0       | 1           |
| 7    | Green Peter   | RBT-AD      | Adult        | 1     | 334            | 334             | 334            | 0               | 0               | 0       | 0           |
| 7    | Green Peter   | RBT-natural | Juvenile     | 1     | 95             | 95              | 95             | 0               | 0               | 0       | 1           |
| 8    | Lookout Point | CHS-AD      | Yearling     | 1     | 120            | 120             | 120            | 0               | 1               | 0       | 0           |
| 8    | Lookout Point | RBT-natural | Adult        | 1     | 359            | 359             | 359            | 0               | 0               | 0       | 0           |
| 8    | Lookout Point | RBT-natural | Juvenile     | 1     | 80             | 80              | 80             | 0               | 1               | 0       | 0           |
| 9    | Green Peter   | CHS-natural | Fry          | 20    | 34             | 39              | 44             | 0               | 0               | 0       | 2           |
| 9    | Green Peter   | CHS-natural | Sub-Yearling | 8     | 46             | 49.9            | 53             | 0               | 6               | 0       | 3           |
| 9    | Green Peter   | RBT-natural | Juvenile     | 1     | 182            | 182             | 182            | 0               | 1               | 0       | 0           |
| 10   | Lookout Point | RBT-natural | Juvenile     | 3     | 116            | 117             | 118            | 0               | 3               | 0       | 0           |
| 11   | Green Peter   | CHS-natural | Fry          | 26    | 34             | 39.8            | 44             | 0               | 0               | 0       | 0           |
| 11   | Green Peter   | CHS-natural | Sub-Yearling | 12    | 46             | 52              | 58             | 0               | 12              | 1*      | 0           |
| 12   | Lookout Point | CHS-natural | Sub-Yearling | 1     | 54             | 54              | 54             | 0               | 1               | 0       | 0           |
| 13   | Green Peter   | CHS-AD      | Sub-Yearling | 1     | 52             | 52              | 52             | 0               | 0               | 1       | 0           |
| 13   | Green Peter   | CHS-natural | Fry          | 10    | 38             | 41.7            | 44             | 0               | 0               | 0       | 0           |
| 13   | Green Peter   | CHS-natural | Sub-Yearling | 2     | 45             | 45.5            | 46             | 0               | 2               | 0       | 0           |
| 14   | Lookout Point | CHS-natural | Sub-Yearling | 2     | 57             | 67.5            | 78             | 0               | 2               | 0       | 0           |
| 14   | Lookout Point | RBT-natural | Juvenile     | 4     | 66             | 104.5           | 126            | 0               | 4               | 0       | 0           |
| 15   | Green Peter   | CHS-AD      | Sub-Yearling | 43    | 48             | 56.5            | 64             | 0               | 0               | 42      | 9           |
| 15   | Green Peter   | CHS-natural | Fry          | 20    | 36             | 39.9            | 44             | 0               | 0               | 0       | 6           |
| 15   | Green Peter   | CHS-natural | Sub-Yearling | 19    | 45             | 55.8            | 78             | 0               | 16              | 0       | 3           |
| 16   | Lookout Point | CHS-natural | Sub-Yearling | 1     | 87             | 87              | 87             | 0               | 1               | 0       | 0           |
| 16   | Lookout Point | RBT-natural | Adult        | 1     | 215            | 215             | 215            | 0               | 1               | 0       | 0           |
| 16   | Lookout Point | RBT-natural | Juvenile     | 6     | 91             | 107.7           | 116            | 0               | 6               | 0       | 0           |
| 17   | Lookout Point | RBT-natural | Juvenile     | 1     | 118            | 118             | 118            | 0               | 1               | 0       | 0           |
| 18   | Lookout Point | RBT-natural | Adult        | 1     | 203            | 203             | 203            | 0               | 1               | 0       | 0           |
| 19   | Green Peter   | CHS-AD      | Sub-Yearling | 2     | 74             | 81              | 88             | 0               | 0               | 1       | 0           |
| 19   | Green Peter   | CHS-natural | Sub-Yearling | 22    | 49             | 70              | 99             | 0               | 14              | 0       | 2           |

| <b>Week</b> | <b>Reservoir</b> | <b>Species</b> | <b>Lifestage</b> | <b>Catch</b> | <b>Min FL<br/>(mm)</b> | <b>Mean FL<br/>(mm)</b> | <b>Max FL<br/>(mm)</b> | <b># VIE<br/>tagged</b> | <b># PIT<br/>tagged</b> | <b># Recap</b> | <b>Mortalities</b> |
|-------------|------------------|----------------|------------------|--------------|------------------------|-------------------------|------------------------|-------------------------|-------------------------|----------------|--------------------|
| 20          | Lookout Point    | CHS-natural    | Sub-Yearling     | 1            | 103                    | 103                     | 103                    | 0                       | 1                       | 0              | 0                  |
| 21          | Green Peter      | CHS-AD         | Sub-Yearling     | 3            | 82                     | 90.3                    | 95                     | 0                       | 0                       | 3              | 0                  |
| 21          | Green Peter      | CHS-natural    | Sub-Yearling     | 17           | 68                     | 87.8                    | 101                    | 0                       | 16                      | 1              | 0                  |
| 21          | Green Peter      | CHS-natural    | Yearling         | 1            | 235                    | 235                     | 235                    | 0                       | 0                       | 0              | 0                  |
| 22          | Lookout Point    | RBT-natural    | Juvenile         | 1            | 61                     | 61                      | 61                     | 0                       | 0                       | 0              | 0                  |



**Figure 1.** Lookout Point limnology data. Light gray indicates no sampling. Turbidity data in dark gray have been removed due to a sensor malfunction/calibration issue.





**Figure 2.** Green Peter limnology data. Light gray indicates no sampling. Turbidity data in dark gray have been removed due to a sensor malfunction/calibration issue.

## RIVERINE SAMPLING SUMMARY

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Riverine sampling was conducted on a weekly basis during the reporting period for both the Middle Santiam River and Quartzville Creek using a 20 m river seine and 9.1 m pole seine.

### Quartzville Creek

Quartzville Creek was sampled during this reporting period from 5/19 to 5/22/2025 (Week 21) and from 5/27 to 5/29/2025 (Week 22). Over this period the average water temperature was 9.79 C and 13.49 C for weeks 21 and 22, respectively (Table 7). Week 21 consisted of three days (5/19 to 5/21/2025) and one night (5/22/2025) of sampling effort. During the three days of sampling (n = 12 pole seine hauls, n = 12 river seine hauls), 16 dace were captured (Tables 6, 8-10). On 5/22/2025, one juvenile dace was killed whilst hauling a river seine. Night sampling was only conducted on one of the two allotted days because of staffing issues. During the one-night effort (n = 4 pole seine hauls, n = 4 river seine hauls), two natural-origin Chinook salmon, four natural-origin *O. mykiss*, one cutthroat trout, fifty dace, seven sculpin, and one northern pikeminnow were captured (Tables 6, 8-10). Both Chinook salmon captured were parr (mean FL = 63). Only one of the two natural-origin Chinook salmon was PIT tagged. Of the four natural-origin *O. mykiss* captured, two were smolts (mean FL = 168.5), one was a parr (FL = 134mm), and one was a juvenile (FL = 149mm) that did not show signs of smoltification. All *O. mykiss* were implanted with PIT tags. Week 22 consisted of three days (5/27 to 5/29/2025) of sampling effort. During the three days of sampling (n = 8 pole seine hauls, n = 8 river seine hauls), one natural-origin Chinook salmon, twenty-six dace and one sculpin were captured (Tables 6, 8-10). The natural-origin Chinook salmon was a parr (FL = 51mm) and was implanted with a PIT tag. It is important to mention we have amended table 10 from the last reporting period to accurately reflect the number of *O. mykiss* and Chinook salmon captured and tagged on Week 19 on Quartzville Creek.

### Middle Santiam River

The Middle Santiam River was sampled for this reporting period from 5/15 to 5/17/2025 (Week 20), 5/19 to 5/20/2025, and 5/22 to 5/24/2025 (Week 21), as well as from 5/29 to 5/31/2025 (Week 22). Over this period the average water temperature was 9.69 C and 13.23 C for weeks 21 and 22, respectively (Table 7). Week 20 catch and effort data was covered in the last biweekly reporting period. Week 21 consisted of two nights (5/19 to 5/20/2025) of sampling effort (n = 12 pole seine hauls, n = 4 river seine hauls) and three days (5/22 to 5/24/2025) of sampling effort (n = 18 pole seine hauls, n = 6 river seine hauls) (Table 6). During the two nights of sampling, five Chinook salmon, five *O. mykiss*, thirteen dace, and four sculpin were caught (Tables 6, 8-10). Of the five Chinook salmon caught, three were natural-origin fry (mean FL = 51.67mm) and two were natural-origin parr (mean FL = 56.5mm). Of the five *O. mykiss* caught, four were natural-origin smolts (mean FL = 131.33mm) and one was a natural-origin parr, which escaped before a length and weight could be taken. Tables 6, 8-10). All salmonids caught during night efforts received a PIT tag. During the three days of sampling (n = 18 pole seine hauls, n = 6 river seine hauls), six natural-origin Chinook salmon parr (mean FL = 51.5mm) were captured. Of the natural-origin Chinook salmon, four were PIT tagged and two were recaptures from previous seining events. Week 22 consisted of three days (5/29 to 5/31/2025) of sampling effort. During the three days of sampling (n = 22 pole seine hauls, n = 2 river seine hauls), one dace was captured (Tables 6, 8-10).

**Table 6.** Start and end date by statistical week for riverine sampling.

| Week | Start     | End       | River             | Day/ Night | Seine Type | Effort (# Hauls) |
|------|-----------|-----------|-------------------|------------|------------|------------------|
| 4    | 1/23/2025 | 1/24/2025 | Middle Santiam    | Day        | Pole       | 17               |
| 4    | 1/23/2025 | 1/24/2025 | Middle Santiam    | Day        | River      | 0                |
| 5    | 1/29/2025 | 1/31/2025 | Middle Santiam    | Day        | Pole       | 18               |
| 5    | 1/29/2025 | 1/31/2025 | Middle Santiam    | Day        | River      | 0                |
| 6    | 2/3/2025  | 2/4/2025  | Quartzville Creek | Day        | Pole       | 11               |
| 6    | 2/3/2025  | 2/4/2025  | Quartzville Creek | Day        | River      | 7                |
| 6    | 2/5/2025  | 2/7/2025  | Middle Santiam    | Day        | Pole       | 17               |
| 6    | 2/5/2025  | 2/7/2025  | Middle Santiam    | Day        | River      | 4                |
| 7    | 2/11/2025 | 2/14/2025 | Middle Santiam    | Day        | Pole       | 17               |
| 7    | 2/11/2025 | 2/14/2025 | Middle Santiam    | Day        | River      | 1                |
| 8    | 2/19/2025 | 2/20/2025 | Quartzville Creek | Day        | Pole       | 11               |
| 8    | 2/19/2025 | 2/20/2025 | Quartzville Creek | Day        | River      | 1                |
| 8    | 2/17/2025 | 2/21/2025 | Middle Santiam    | Day        | Pole       | 15               |
| 8    | 2/17/2025 | 2/21/2025 | Middle Santiam    | Day        | River      | 0                |
| 9    | 2/27/2025 | 3/1/2025  | Quartzville Creek | Day        | Pole       | 18               |
| 9    | 2/27/2025 | 3/1/2025  | Quartzville Creek | Day        | River      | 6                |
| 9    | 2/28/2025 | 3/1/2025  | Middle Santiam    | Day        | Pole       | 9                |
| 9    | 2/28/2025 | 3/1/2025  | Middle Santiam    | Day        | River      | 0                |
| 10   | 3/4/2025  | 3/6/2025  | Quartzville Creek | Day        | Pole       | 14               |
| 10   | 3/4/2025  | 3/6/2025  | Quartzville Creek | Day        | River      | 10               |
| 10   | 3/6/2025  | 3/8/2025  | Middle Santiam    | Day        | Pole       | 23               |
| 10   | 3/6/2025  | 3/8/2025  | Middle Santiam    | Day        | River      | 2                |
| 11   | 3/10/2025 | 3/12/2025 | Quartzville Creek | Day        | Pole       | 16               |
| 11   | 3/10/2025 | 3/12/2025 | Quartzville Creek | Day        | River      | 9                |
| 11   | 3/13/2025 | 3/14/2025 | Quartzville Creek | Night      | Pole       | 4                |
| 11   | 3/13/2025 | 3/14/2025 | Quartzville Creek | Night      | River      | 8                |
| 11   | 3/10/2025 | 3/11/2025 | Middle Santiam    | Night      | Pole       | 9                |
| 11   | 3/10/2025 | 3/11/2025 | Middle Santiam    | Night      | River      | 2                |
| 11   | 3/13/2025 | 3/15/2025 | Middle Santiam    | Day        | Pole       | 18               |
| 11   | 3/13/2025 | 3/15/2025 | Middle Santiam    | Day        | River      | 6                |
| 12   | 3/18/2025 | 3/21/2025 | Quartzville Creek | Day        | Pole       | 14               |
| 12   | 3/18/2025 | 3/21/2025 | Quartzville Creek | Day        | River      | 9                |
| 12   | 3/20/2025 | 3/22/2025 | Middle Santiam    | Day        | Pole       | 8                |
| 12   | 3/20/2025 | 3/22/2025 | Middle Santiam    | Day        | River      | 2                |
| 13   | 3/24/2025 | 3/26/2025 | Quartzville Creek | Day        | Pole       | 15               |
| 13   | 3/24/2025 | 3/26/2025 | Quartzville Creek | Day        | River      | 6                |
| 13   | 3/27/2025 | 3/28/2025 | Quartzville Creek | Night      | Pole       | 7                |
| 13   | 3/27/2025 | 3/28/2025 | Quartzville Creek | Night      | River      | 4                |
| 13   | 3/24/2025 | 3/25/2025 | Middle Santiam    | Night      | Pole       | 0                |
| 13   | 3/24/2025 | 3/25/2025 | Middle Santiam    | Night      | River      | 4                |
| 13   | 3/27/2025 | 3/29/2025 | Middle Santiam    | Day        | Pole       | 7                |

| Week | Start     | End       | River             | Day/ Night | Seine Type | Effort (# Hauls) |
|------|-----------|-----------|-------------------|------------|------------|------------------|
| 13   | 3/27/2025 | 3/29/2025 | Middle Santiam    | Day        | River      | 0                |
| 14   | 4/1/2025  | 4/3/2025  | Quartzville Creek | Day        | Pole       | 12               |
| 14   | 4/1/2025  | 4/3/2025  | Quartzville Creek | Day        | River      | 11               |
| 14   | 4/3/2025  | 4/5/2025  | Middle Santiam    | Day        | Pole       | 14               |
| 14   | 4/3/2025  | 4/5/2025  | Middle Santiam    | Day        | River      | 6                |
| 15   | 4/7/2025  | 4/8/2025  | Middle Santiam    | Night      | Pole       | 8                |
| 15   | 4/7/2025  | 4/8/2025  | Middle Santiam    | Night      | River      | 4                |
| 15   | 4/7/2025  | 4/9/2025  | Quartzville Creek | Day        | Pole       | 13               |
| 15   | 4/7/2025  | 4/9/2025  | Quartzville Creek | Day        | River      | 10               |
| 15   | 4/10/2025 | 4/11/2025 | Quartzville Creek | Night      | Pole       | 8                |
| 15   | 4/10/2025 | 4/11/2025 | Quartzville Creek | Night      | River      | 7                |
| 15   | 4/10/2025 | 4/12/2025 | Middle Santiam    | Day        | Pole       | 14               |
| 15   | 4/10/2025 | 4/12/2025 | Middle Santiam    | Day        | River      | 6                |
| 16   | 4/14/2025 | 4/16/2025 | Quartzville Creek | Day        | Pole       | 12               |
| 16   | 4/14/2025 | 4/16/2025 | Quartzville Creek | Day        | River      | 12               |
| 16   | 4/17/2025 | 4/19/2025 | Middle Santiam    | Day        | Pole       | 20               |
| 16   | 4/18/2025 | 4/19/2025 | Middle Santiam    | Day        | River      | 4                |
| 17   | 4/21/2025 | 4/22/2025 | Middle Santiam    | Night      | River      | 4                |
| 17   | 4/21/2025 | 4/23/2025 | Middle Santiam    | Night      | Pole       | 12               |
| 17   | 4/21/2025 | 4/23/2025 | Quartzville Creek | Day        | Pole       | 12               |
| 17   | 4/21/2025 | 4/23/2025 | Quartzville Creek | Day        | River      | 12               |
| 17   | 4/24/2025 | 4/25/2025 | Quartzville Creek | Night      | Pole       | 7                |
| 17   | 4/24/2025 | 4/25/2025 | Quartzville Creek | Night      | River      | 8                |
| 17   | 4/24/2025 | 4/26/2025 | Middle Santiam    | Day        | Pole       | 18               |
| 17   | 4/24/2025 | 4/26/2025 | Middle Santiam    | Day        | River      | 6                |
| 18   | 4/28/2025 | 4/30/2025 | Quartzville Creek | Day        | Pole       | 12               |
| 18   | 4/28/2025 | 4/30/2025 | Quartzville Creek | Day        | River      | 12               |
| 18   | 5/1/2025  | 5/3/2025  | Middle Santiam    | Day        | Pole       | 18               |
| 18   | 5/1/2025  | 5/3/2025  | Middle Santiam    | Day        | River      | 6                |
| 19   | 5/5/2025  | 5/6/2025  | Middle Santiam    | Night      | Pole       | 13               |
| 19   | 5/5/2025  | 5/7/2025  | Quartzville Creek | Day        | Pole       | 12               |
| 19   | 5/5/2025  | 5/7/2025  | Quartzville Creek | Day        | River      | 12               |
| 19   | 5/8/2025  | 5/9/2025  | Quartzville Creek | Night      | Pole       | 7                |
| 19   | 5/8/2025  | 5/9/2025  | Quartzville Creek | Night      | River      | 8                |
| 19   | 5/8/2025  | 5/10/2025 | Middle Santiam    | Day        | Pole       | 20               |
| 19   | 5/9/2025  | 5/10/2025 | Middle Santiam    | Day        | River      | 4                |
| 20   | 5/13/2025 | 5/15/2025 | Quartzville Creek | Day        | Pole       | 12               |
| 20   | 5/13/2025 | 5/15/2025 | Quartzville Creek | Day        | River      | 12               |
| 20   | 5/15/2025 | 5/17/2025 | Middle Santiam    | Day        | Pole       | 22               |
| 20   | 5/17/2025 | 5/17/2025 | Middle Santiam    | Day        | River      | 2                |
| 21   | 5/19/2025 | 5/20/2025 | Middle Santiam    | Night      | Pole       | 12               |
| 21   | 5/19/2025 | 5/20/2025 | Middle Santiam    | Night      | River      | 4                |

| Week | Start     | End       | River             | Day/ Night | Seine Type | Effort (# Hauls) |
|------|-----------|-----------|-------------------|------------|------------|------------------|
| 21   | 5/22/2025 | 5/24/2025 | Middle Santiam    | Day        | Pole       | 18               |
| 21   | 5/22/2025 | 5/24/2025 | Middle Santiam    | Day        | River      | 6                |
| 21   | 5/19/2025 | 5/21/2025 | Quartzville Creek | Day        | Pole       | 12               |
| 21   | 5/19/2025 | 5/21/2025 | Quartzville Creek | Day        | River      | 12               |
| 21   | 5/22/2025 | 5/22/2025 | Quartzville Creek | Night      | Pole       | 4                |
| 21   | 5/22/2025 | 5/22/2025 | Quartzville Creek | Night      | River      | 4                |
| 22   | 5/27/2025 | 5/29/2025 | Quartzville Creek | Day        | Pole       | 8                |
| 22   | 5/27/2025 | 5/29/2025 | Quartzville Creek | Day        | River      | 8                |
| 22   | 5/29/2025 | 5/31/2025 | Middle Santiam    | Day        | Pole       | 22               |
| 22   | 5/31/2025 | 5/31/2025 | Middle Santiam    | Day        | River      | 2                |

**Table 7.** Mean water temperature per sample week for riverine sampling.

| Week | River             | Mean Water Temperature °C |
|------|-------------------|---------------------------|
| 4    | Middle Santiam    | 4.45                      |
| 5    | Middle Santiam    | 3.01                      |
| 5    | Quartzville Creek | 2.68                      |
| 6    | Middle Santiam    | 3.75                      |
| 6    | Quartzville Creek | 3.65                      |
| 7    | Middle Santiam    | 2.76                      |
| 7    | Quartzville Creek | 2.60                      |
| 8    | Middle Santiam    | 5.14                      |
| 8    | Quartzville Creek | 5.46                      |
| 9    | Middle Santiam    | 5.88                      |
| 9    | Quartzville Creek | 6.32                      |
| 10   | Middle Santiam    | 5.77                      |
| 10   | Quartzville Creek | 6.06                      |
| 11   | Middle Santiam    | 5.94                      |
| 11   | Quartzville Creek | 5.74                      |
| 12   | Middle Santiam    | 5.38                      |
| 12   | Quartzville Creek | 6.16                      |
| 13   | Middle Santiam    | 6.27                      |
| 13   | Quartzville Creek | 6.50                      |
| 14   | Middle Santiam    | 6.10                      |
| 14   | Quartzville Creek | 6.30                      |
| 15   | Middle Santiam    | 6.96                      |
| 15   | Quartzville Creek | 7.13                      |
| 16   | Middle Santiam    | 7.76                      |
| 16   | Quartzville Creek | 7.94                      |
| 17   | Middle Santiam    | 8.31                      |
| 17   | Quartzville Creek | 8.53                      |
| 18   | Middle Santiam    | 9.35                      |
| 18   | Quartzville Creek | 9.72                      |
| 19   | Middle Santiam    | 10.60                     |

| Week | River             | Mean Water Temperature °C |
|------|-------------------|---------------------------|
| 19   | Quartzville Creek | 10.99                     |
| 20   | Middle Santiam    | 9.82                      |
| 20   | Quartzville Creek | 10.30                     |
| 21   | Middle Santiam    | 9.69                      |
| 21   | Quartzville Creek | 9.79                      |
| 22   | Middle Santiam    | 13.23                     |
| 22   | Quartzville Creek | 13.49                     |

**Table 8.** Summary of total catch by river. CHS – Chinook salmon, RBT – *O. mykiss*, CUT – Cutthroat trout, DACE – Unidentified Dace, SCU – Unidentified Sculpin, NPM — *P. oregonensis*, Sucker - *Sucker spp*, Lamprey - *Lamprey spp*.

| Week | River             | Day/ Night | CHS | RBT | CUT | DACE | SCU | NPM | Sucker | Lamprey |
|------|-------------------|------------|-----|-----|-----|------|-----|-----|--------|---------|
| 4    | Middle Santiam    | Day        | 4   | 0   | 0   | 1    | 0   | 0   | 0      | 0       |
| 5    | Middle Santiam    | Day        | 1   | 0   | 0   | 1    | 0   | 0   | 0      | 0       |
| 6    | Quartzville Creek | Day        | 0   | 0   | 0   | 3    | 1   | 0   | 0      | 0       |
| 6    | Middle Santiam    | Day        | 6   | 0   | 0   | 1    | 0   | 0   | 0      | 0       |
| 7    | Middle Santiam    | Day        | 2   | 0   | 0   | 0    | 0   | 0   | 0      | 0       |
| 8    | Quartzville Creek | Day        | 3   | 0   | 0   | 11   | 1   | 0   | 0      | 0       |
| 8    | Middle Santiam    | Day        | 6   | 0   | 0   | 0    | 0   | 0   | 0      | 0       |
| 9    | Quartzville Creek | Day        | 1   | 0   | 0   | 26   | 4   | 0   | 0      | 0       |
| 9    | Middle Santiam    | Day        | 0   | 0   | 0   | 1    | 0   | 0   | 0      | 0       |
| 10   | Quartzville Creek | Day        | 0   | 0   | 0   | 27   | 0   | 0   | 0      | 0       |
| 10   | Middle Santiam    | Day        | 0   | 0   | 0   | 2    | 0   | 0   | 0      | 0       |
| 11   | Quartzville Creek | Day        | 0   | 0   | 0   | 55   | 0   | 0   | 0      | 0       |
| 11   | Quartzville Creek | Night      | 10  | 5   | 0   | 29   | 41  | 0   | 1      | 1       |
| 11   | Middle Santiam    | Night      | 2   | 4   | 0   | 4    | 1   | 0   | 1      | 2       |
| 11   | Middle Santiam    | Day        | 3   | 0   | 0   | 1    | 0   | 0   | 0      | 0       |
| 12   | Quartzville Creek | Day        | 3   | 0   | 0   | 21   | 0   | 0   | 0      | 0       |
| 12   | Middle Santiam    | Day        | 0   | 0   | 0   | 0    | 0   | 0   | 0      | 0       |
| 13   | Quartzville Creek | Day        | 0   | 0   | 0   | 3    | 0   | 0   | 0      | 0       |
| 13   | Quartzville Creek | Night      | 0   | 4   | 0   | 7    | 2   | 0   | 0      | 0       |
| 13   | Middle Santiam    | Night      | 1   | 4   | 0   | 1    | 5   | 0   | 0      | 0       |
| 13   | Middle Santiam    | Day        | 0   | 0   | 0   | 1    | 0   | 0   | 0      | 0       |
| 14   | Middle Santiam    | Day        | 13  | 0   | 0   | 9    | 0   | 0   | 0      | 0       |
| 14   | Quartzville Creek | Day        | 0   | 0   | 0   | 31   | 1   | 0   | 0      | 0       |
| 15   | Middle Santiam    | Day        | 19  | 0   | 0   | 0    | 2   | 0   | 0      | 0       |
| 15   | Middle Santiam    | Night      | 9   | 1   | 0   | 4    | 3   | 0   | 0      | 0       |
| 15   | Quartzville Creek | Day        | 1   | 0   | 0   | 6    | 0   | 0   | 0      | 0       |
| 15   | Quartzville Creek | Night      | 1   | 0   | 0   | 44   | 5   | 0   | 0      | 0       |
| 16   | Middle Santiam    | Day        | 3   | 0   | 0   | 0    | 0   | 0   | 0      | 0       |
| 16   | Quartzville Creek | Day        | 0   | 0   | 0   | 24   | 0   | 0   | 0      | 0       |
| 17   | Middle Santiam    | Day        | 0   | 0   | 0   | 0    | 0   | 0   | 0      | 0       |
| 17   | Middle Santiam    | Night      | 4   | 1   | 0   | 18   | 0   | 0   | 0      | 0       |
| 17   | Quartzville Creek | Day        | 1   | 0   | 0   | 21   | 2   | 3   | 0      | 0       |
| 17   | Quartzville Creek | Night      | 4   | 3   | 2   | 123  | 16  | 0   | 0      | 0       |
| 18   | Quartzville Creek | Day        | 2   | 0   | 0   | 20   | 0   | 0   | 0      | 0       |



| Week | River             | Day/ Night | CHS | RBT | CUT | DACE | SCU | NPM | Sucker | Lamprey |
|------|-------------------|------------|-----|-----|-----|------|-----|-----|--------|---------|
| 18   | Middle Santiam    | Day        | 0   | 0   | 0   | 0    | 0   | 0   | 0      | 0       |
| 19   | Middle Santiam    | Day        | 0   | 0   | 0   | 0    | 1   | 0   | 0      | 0       |
| 19   | Middle Santiam    | Night      | 2   | 2   | 0   | 13   | 1   | 0   | 0      | 0       |
| 19   | Quartzville Creek | Day        | 0   | 0   | 0   | 15   | 0   | 0   | 0      | 0       |
| 19   | Quartzville Creek | Night      | 12  | 18  | 1   | 134  | 26  | 14  | 0      | 0       |
| 20   | Middle Santiam    | Day        | 1   | 0   | 0   | 0    | 0   | 0   | 0      | 0       |
| 20   | Quartzville Creek | Day        | 0   | 0   | 0   | 22   | 0   | 1   | 0      | 0       |
| 21   | Middle Santiam    | Day        | 6   | 0   | 0   | 0    | 0   | 0   | 0      | 0       |
| 21   | Middle Santiam    | Night      | 5   | 5   | 0   | 13   | 4   | 0   | 0      | 0       |
| 21   | Quartzville Creek | Day        | 0   | 0   | 0   | 16   | 0   | 0   | 0      | 0       |
| 21   | Quartzville Creek | Night      | 2   | 4   | 1   | 50   | 7   | 1   | 0      | 0       |
| 22   | Middle Santiam    | Day        | 0   | 0   | 0   | 1    | 0   | 0   | 0      | 0       |
| 22   | Quartzville Creek | Day        | 1   | 0   | 0   | 26   | 1   | 0   | 0      | 0       |

**Table 9.** Catch summary of target species by habitat unit type for riverine sampling. CHS-AD = ad clipped Chinook salmon, CHS-natural = natural origin Chinook salmon, RBT-AD = ad clipped *O. mykiss*, RBT-natural = natural origin *O. mykiss*.

| Week | River             | Species     | Lifestage | Riffle | Run | Pool | Pooltail | Total |
|------|-------------------|-------------|-----------|--------|-----|------|----------|-------|
| 4    | Middle Santiam    | CHS-natural | fry       | 0      | 0   | 4    | 0        | 4     |
| 5    | Middle Santiam    | CHS-natural | fry       | 0      | 0   | 1    | 0        | 1     |
| 6    | Quartzville Creek | No Catch    | -         | 0      | 0   | 0    | 0        | 0     |
| 6    | Middle Santiam    | CHS-natural | fry       | 0      | 0   | 6    | 0        | 6     |
| 7    | Middle Santiam    | CHS-natural | fry       | 0      | 0   | 2    | 0        | 2     |
| 8    | Quartzville Creek | CHS-natural | fry       | 0      | 0   | 3    | 0        | 3     |
| 8    | Middle Santiam    | CHS-natural | fry       | 0      | 0   | 7    | 0        | 7     |
| 9    | Quartzville Creek | CHS-natural | fry       | 0      | 0   | 1    | 0        | 1     |
| 9    | Middle Santiam    | No Catch    | -         | 0      | 0   | 0    | 0        | 0     |
| 10   | Quartzville Creek | No Catch    | -         | 0      | 0   | 0    | 0        | 0     |
| 10   | Middle Santiam    | No Catch    | -         | 0      | 0   | 0    | 0        | 0     |
| 11   | Quartzville Creek | CHS-natural | fry       | 0      | 0   | 5    | 0        | 5     |
| 11   | Quartzville Creek | CHS-natural | smolt     | 0      | 0   | 2    | 0        | 2     |
| 11   | Quartzville Creek | CHS-AD      | fry       | 0      | 0   | 3    | 0        | 3     |
| 11   | Quartzville Creek | RBT-natural | juvenile  | 0      | 0   | 4    | 0        | 4     |
| 11   | Quartzville Creek | RBT-natural | adult     | 0      | 0   | 1    | 0        | 1     |
| 11   | Middle Santiam    | CHS-natural | fry       | 0      | 1   | 2    | 0        | 3     |
| 11   | Middle Santiam    | CHS-AD      | fry       | 0      | 0   | 1    | 0        | 1     |
| 11   | Middle Santiam    | CHS-AD      | smolt     | 0      | 0   | 1    | 0        | 1     |
| 11   | Middle Santiam    | RBT-natural | juvenile  | 0      | 0   | 4    | 0        | 4     |
| 12   | Quartzville Creek | CHS-natural | fry       | 0      | 0   | 2    | 0        | 2     |
| 12   | Quartzville Creek | CHS-AD      | fry       | 1      | 0   | 0    | 0        | 1     |
| 12   | Middle Santiam    | No Catch    | -         | 0      | 0   | 0    | 0        | 0     |
| 13   | Quartzville Creek | RBT-natural | juvenile  | 2      | 0   | 2    | 0        | 4     |
| 13   | Middle Santiam    | CHS-natural | fry       | 0      | 1   | 0    | 0        | 1     |
| 13   | Middle Santiam    | RBT-natural | juvenile  | 0      | 1   | 2    | 0        | 3     |
| 14   | Middle Santiam    | CHS-AD      | Fry       | 0      | 2   | 0    | 0        | 2     |
| 14   | Middle Santiam    | CHS-AD      | Parr      | 0      | 2   | 0    | 0        | 2     |

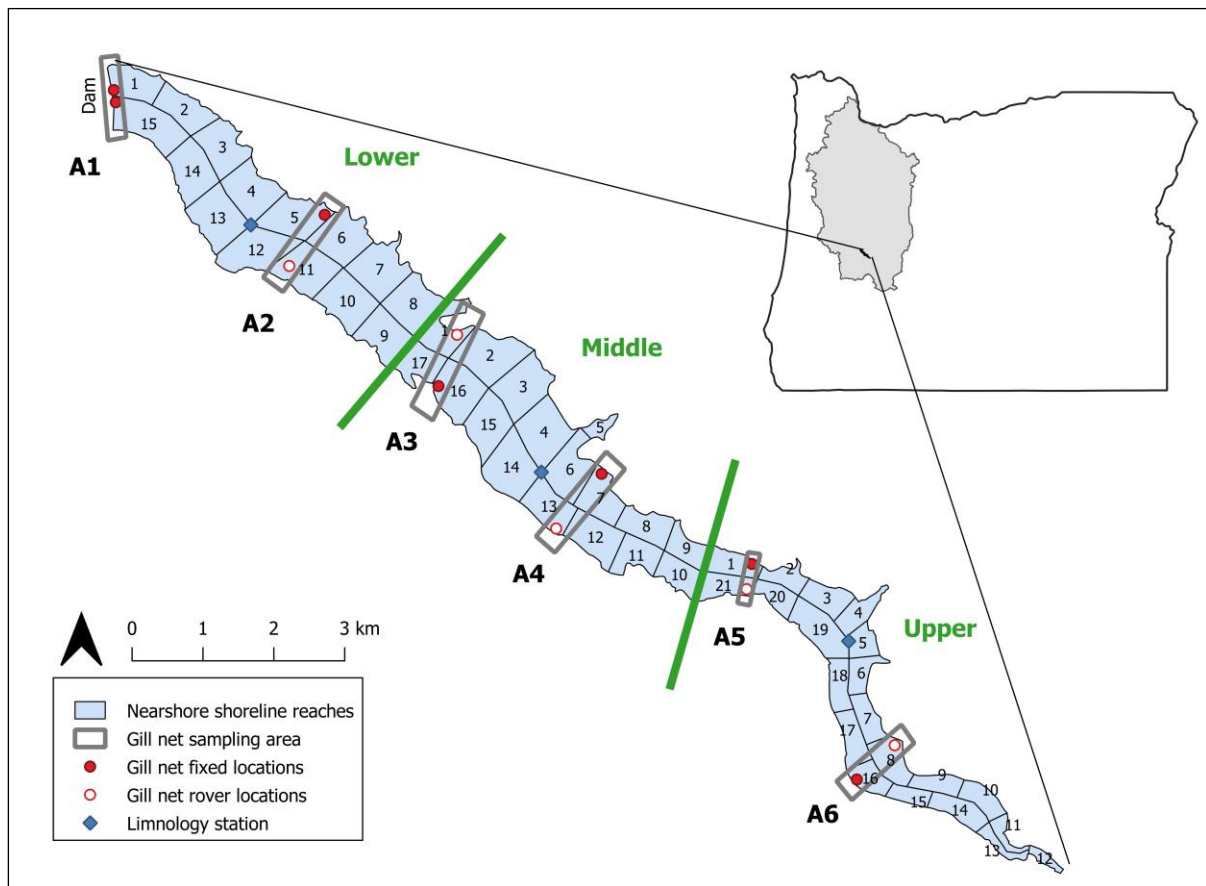
| Week | River             | Species       | Lifestage | Riffle | Run | Pool | Pooltail | Total |
|------|-------------------|---------------|-----------|--------|-----|------|----------|-------|
| 14   | Middle Santiam    | CHS-natural   | Fry       | 0      | 5   | 1    | 0        | 6     |
| 14   | Middle Santiam    | CHS-natural   | Parr      | 0      | 3   | 0    | 0        | 3     |
| 15   | Middle Santiam    | CHS-AD        | Parr      | 0      | 3   | 0    | 0        | 3     |
| 15   | Middle Santiam    | CHS-AD        | Smolt     | 0      | 1   | 2    | 0        | 3     |
| 15   | Middle Santiam    | CHS-natural   | Fry       | 0      | 10  | 4    | 0        | 14    |
| 15   | Middle Santiam    | CHS-natural   | Parr      | 0      | 5   | 3    | 0        | 8     |
| 15   | Middle Santiam    | RBT-natural   | Smolt     | 0      | 1   | 0    | 0        | 1     |
| 15   | Quartzville Creek | CHS-AD        | Parr      | 0      | 0   | 1    | 0        | 1     |
| 15   | Quartzville Creek | CHS-natural   | Juvenile  | 0      | 0   | 1    | 0        | 1     |
| 16   | Middle Santiam    | CHS-natural   | Fry       | 0      | 0   | 2    | 0        | 2     |
| 16   | Middle Santiam    | CHS-natural   | Parr      | 0      | 1   | 0    | 0        | 1     |
| 16   | Quartzville Creek | No Catch      | -         | 0      | 0   | 0    | 0        | 0     |
| 17   | Middle Santiam    | CHS-natural   | Fry       | 0      | 0   | 4    | 0        | 4     |
| 17   | Middle Santiam    | RBT-natural   | Smolt     | 0      | 0   | 1    | 0        | 1     |
| 17   | Quartzville Creek | CHS-natural   | Fry       | 0      | 0   | 3    | 0        | 3     |
| 17   | Quartzville Creek | CHS-natural   | Parr      | 0      | 0   | 2    | 0        | 2     |
| 17   | Quartzville Creek | RBT-natural   | Smolt     | 0      | 2   | 1    | 0        | 3     |
| 18   | Quartzville Creek | CHS-natural   | Fry       | 0      | 1   | 1    | 0        | 2     |
| 19   | Middle Santiam    | No Catch      | -         | 0      | 0   | 0    | 0        | 0     |
| 19   | Middle Santiam    | CHS-natural   | Fry       | 0      | 0   | 2    | 0        | 2     |
| 19   | Middle Santiam    | RBT-natural   | Smolt     | 0      | 1   | 1    | 0        | 2     |
| 19   | Quartzville Creek | CHS-natural   | Fry       | 0      | 0   | 1    | 0        | 1     |
| 19   | Quartzville Creek | CHS-natural   | Juvenile  | 0      | 1   | 0    | 0        | 1     |
| 19   | Quartzville Creek | CHS-natural   | Parr      | 0      | 0   | 8    | 0        | 8     |
| 19   | Quartzville Creek | CHS-natural   | Smolt     | 0      | 0   | 2    | 0        | 2     |
| 19   | Quartzville Creek | RBT-natural   | Juvenile  | 0      | 3   | 0    | 0        | 3     |
| 19   | Quartzville Creek | RBT-natural   | Smolt     | 0      | 6   | 9    | 0        | 15    |
| 20   | Middle Santiam    | CHS-natural   | Parr      | 0      | 0   | 1    | 0        | 1     |
| 21   | Middle Santiam    | CHS - natural | Fry       | 0      | 1   | 2    | 0        | 3     |
| 21   | Middle Santiam    | CHS - natural | Parr      | 0      | 0   | 8    | 0        | 8     |
| 21   | Middle Santiam    | RBT - natural | Parr      | 0      | 0   | 1    | 0        | 1     |
| 21   | Middle Santiam    | RBT - natural | Smolt     | 0      | 0   | 3    | 1        | 4     |
| 21   | Quartzville Creek | CCT - natural | Juvenile  | 0      | 0   | 1    | 0        | 1     |
| 21   | Quartzville Creek | CHS - natural | Parr      | 0      | 0   | 2    | 0        | 2     |
| 21   | Quartzville Creek | RBT - natural | Parr      | 0      | 0   | 1    | 0        | 1     |
| 21   | Quartzville Creek | RBT - natural | Smolt     | 0      | 0   | 2    | 0        | 2     |
| 21   | Quartzville Creek | RBT - natural | Juvenile  | 0      | 0   | 1    | 0        | 1     |
| 22   | Quartzville Creek | CHS - natural | Parr      | 0      | 0   | 1    | 0        | 1     |
| 22   | Middle Santiam    | No Catch      | -         | 0      | 0   | 0    | 0        | 0     |

**Table 10.** Summary of target species lengths, tags implanted and recaptures from riverine sampling. MS = Middle Santiam, QTZ = Quartzville Creek.

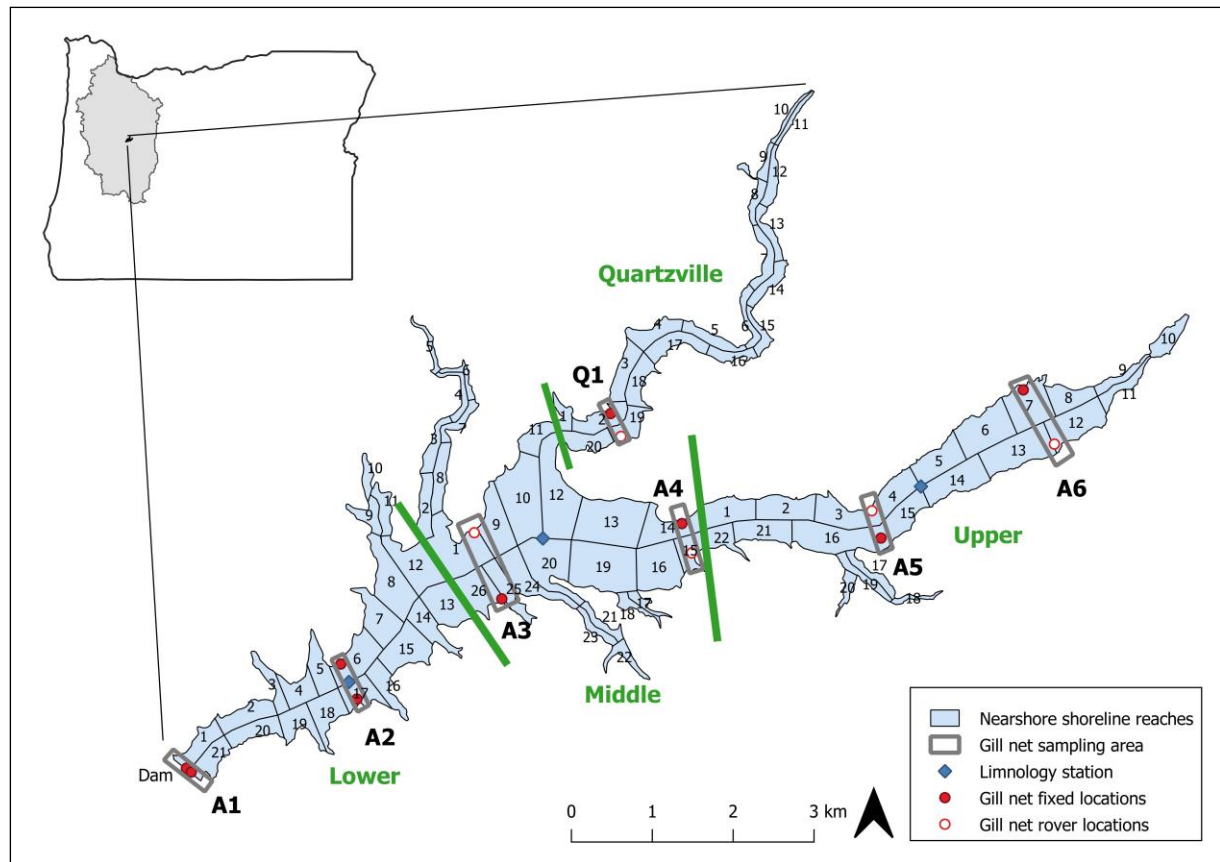
| Week | River | Species     | Life Stage | catch | Min FL | Mean FL | Max FL | # Recaps | #PIT tagged |
|------|-------|-------------|------------|-------|--------|---------|--------|----------|-------------|
| 4    | MS    | CHS-natural | Fry        | 3     | 32     | 35.33   | 40     | 0        | 0           |
| 5    | MS    | CHS-natural | Fry        | 1     | 39     | 39.00   | 39     | 1        | 0           |
| 6    | QTZ   | No Catch    | -          | 0     | -      | -       | -      | 0        | 0           |
| 6    | MS    | CHS-natural | Fry        | 6     | 37     | 40.33   | 45     | 0        | 2           |
| 7    | MS    | CHS-natural | Fry        | 2     | 35     | 35.50   | 36     | 0        | 0           |
| 8    | MS    | CHS-natural | Fry        | 7     | 34     | 37.29   | 42     | 0        | 0           |
| 8    | QTZ   | CHS-natural | Fry        | 3     | 31     | 34.00   | 37     | 0        | 0           |
| 9    | QTZ   | CHS-natural | Fry        | 1     | 29     | 29.00   | 29     | 0        | 0           |
| 9    | MS    | No Catch    | -          | 0     | -      | -       | -      | 0        | 0           |
| 10   | QTZ   | No Catch    | -          | 0     | -      | -       | -      | 0        | 0           |
| 10   | MS    | No Catch    | -          | 0     | -      | -       | -      | 0        | 0           |
| 11   | MS    | CHS-AD      | Fry        | 1     | 47     | 47.00   | 47     | 1        | 0           |
| 11   | MS    | CHS-AD      | Smolt      | 1     | 135    | 135.00  | 135    | 0        | 1           |
| 11   | MS    | CHS-natural | Fry        | 3     | 33     | 36.67   | 39     | 0        | 0           |
| 11   | MS    | RBT-natural | Juvenile   | 4     | 121    | 157.75  | 187    | 0        | 0           |
| 11   | QTZ   | CHS-AD      | Fry        | 3     | 44     | 46.00   | 47     | 3        | 3           |
| 11   | QTZ   | CHS-natural | Fry        | 5     | 33     | 40.20   | 46     | 0        | 1           |
| 11   | QTZ   | CHS-natural | Smolt      | 2     | 109    | 116.50  | 124    | 0        | 2           |
| 11   | QTZ   | RBT-natural | Adult      | 1     | 205    | 205.00  | 205    | 0        | 0           |
| 11   | QTZ   | RBT-natural | Juvenile   | 4     | 92     | 94.75   | 99     | 0        | 0           |
| 12   | QTZ   | CHS-AD      | Fry        | 1     | 35     | 35.00   | 35     | 0        | 0           |
| 12   | QTZ   | CHS-natural | Fry        | 2     | 38     | 41.00   | 44     | 0        | 0           |
| 12   | MS    | No Catch    | -          | 0     | -      | -       | -      | 0        | 0           |
| 13   | MS    | CHS-natural | Fry        | 1     | 43     | 43.00   | 43     | 0        | 0           |
| 13   | MS    | RBT-natural | Juvenile   | 4     | 115    | 129.50  | 150    | 1        | 3           |
| 13   | QTZ   | RBT-natural | Juvenile   | 4     | 125    | 140.50  | 160    | 0        | 4           |
| 14   | MS    | CHS-AD      | Fry        | 2     | 43     | 45.00   | 47     | 0        | 0           |
| 14   | MS    | CHS-natural | Fry        | 1     | 37     | 37.00   | 37     | 0        | 0           |
| 14   | MS    | CHS-AD      | Parr       | 2     | 53     | 54.00   | 55     | 1        | 0           |
| 14   | MS    | CHS-natural | Fry        | 5     | 39     | 40.60   | 42     | 1        | 0           |
| 14   | MS    | CHS-natural | Parr       | 3     | 41     | 46.00   | 54     | 1        | 1           |
| 15   | MS    | CHS-AD      | Parr       | 3     | 52     | 55.00   | 58     | 3        | 0           |
| 15   | MS    | CHS-AD      | Smolt      | 3     | 173    | 184.67  | 197    | 3        | 0           |
| 15   | MS    | CHS-natural | Fry        | 14    | 36     | 40.86   | 45     | 0        | 1           |
| 15   | MS    | CHS-natural | Parr       | 8     | 44     | 47.12   | 55     | 2        | 5           |
| 15   | MS    | RBT-natural | Smolt      | 1     | 183    | 183.00  | 183    | 0        | 1           |
| 15   | QTZ   | CHS-AD      | Parr       | 1     | 49     | 49.00   | 49     | 1        | 0           |
| 15   | QTZ   | CHS-natural | Juvenile   | 1     | 30     | 30.00   | 30     | 0        | 0           |
| 16   | MS    | CHS-natural | Fry        | 2     | 39     | 40.00   | 41     | 0        | 0           |
| 16   | MS    | CHS-natural | Parr       | 1     | 42     | 42.00   | 42     | 0        | 0           |
| 16   | QTZ   | No Catch    | -          | 0     | -      | -       | -      | -        | -           |
| 17   | MS    | RBT-natural | Smolt      | 1     | 131    | 131     | 131    | 1        | 0           |
| 17   | MS    | CHS-natural | Fry        | 4     | 39     | 44.50   | 51     | 0        | 2           |
| 17   | QTZ   | CHS-natural | Fry        | 3     | 38     | 45.33   | 60     | 1        | 0           |
| 17   | QTZ   | CHS-natural | Parr       | 2     | 45     | 45.50   | 46     | 0        | 0           |
| 17   | QTZ   | RBT-natural | Smolt      | 3     | 106    | 109.67  | 113    | 0        | 0           |

| Week | River | Species       | Life Stage | catch | Min FL | Mean FL | Max FL | # Recaps | #PIT tagged |
|------|-------|---------------|------------|-------|--------|---------|--------|----------|-------------|
| 18   | QTZ   | CHS-natural   | Fry        | 2     | 39     | 39.00   | 39     | 0        | 0           |
| 19   | MS    | No Catch      | -          | 0     | -      | -       | -      | -        | -           |
| 19   | MS    | CHS-natural   | Fry        | 2     | 42     | 42.5    | 43     | 0        | 0           |
| 19   | MS    | RBT-natural   | Smolt      | 2     | 128    | 128     | 128    | 0        | 2           |
| 19   | QTZ   | CCT - Natural | Adult      | 1     | 195    | 195     | 195    | 0        | 0           |
| 19   | QTZ   | CHS - Natural | Fry        | 1     | 41     | 41      | 41     | 0        | 0           |
| 19   | QTZ   | CHS - Natural | Juvenile   | 1     | 43     | 43      | 43     | 0        | 0           |
| 19   | QTZ   | CHS - Natural | Parr       | 8     | 49     | 53.5    | 58     | 1        | 5           |
| 19   | QTZ   | CHS - Natural | Smolt      | 2     | 68     | 70      | 72     | 2        | 0           |
| 19   | QTZ   | RBT - Natural | Juvenile   | 3     | 115    | 116.33  | 119    | 0        | 3           |
| 19   | QTZ   | RBT - Natural | Smolt      | 15    | 111    | 131.67  | 173    | 0        | 14          |
| 20   | MS    | CHS - Natural | Parr       | 1     | 49     | 49      | 49     | 0        | 1           |
| 21   | MS    | CHS - Natural | Fry        | 3     | 45     | 51.67   | 57     | 0        | 3           |
| 21   | MS    | CHS - Natural | Parr       | 8     | 50     | 52.75   | 63     | 2        | 6           |
| 21   | MS    | RBT - Natural | Parr       | 1     | -      | -       | -      | 0        | 1           |
| 21   | MS    | RBT - Natural | Smolt      | 4     | 107    | 131.33  | 155    | 0        | 4           |
| 21   | QTZ   | CCT - Natural | Juvenile   | 1     | 135    | 135     | 135    | 0        | 0           |
| 21   | QTZ   | CHS - Natural | Parr       | 2     | 59     | 63      | 67     | 0        | 1           |
| 21   | QTZ   | RBT - Natural | Juvenile   | 1     | 149    | 149     | 149    | 0        | 1           |
| 21   | QTZ   | RBT - Natural | Parr       | 1     | 134    | 134     | 134    | 0        | 1           |
| 21   | QTZ   | RBT - Natural | Smolt      | 2     | 142    | 168.5   | 195    | 0        | 2           |
| 22   | QTZ   | CHS - Natural | Parr       | 1     | 51     | 51      | 51     | 0        | 1           |
| 22   | MS    | No Catch      | -          | 0     | -      | -       | -      | -        | -           |

## APPENDIX A. RESERVOIR SAMPLING ZONES



**Figure A1.** Map of LOP Reservoir nearshore shoreline reaches, reservoir zones (lower, middle and upper), gill netting sampling areas and limnological stations.



**Figure A2.** Map of Green Peter Reservoir nearshore shoreline reaches, reservoir zones (lower, middle and upper), gill netting sampling areas and limnological stations.