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# WILLAMETTE VALLEY FISH PASSAGE MONITORING – RESERVOIR DISTRIBUTION & RIVERINE SAMPLING

Bi-Weekly Report: April 16 – April 30, 2025



Prepared for: United States Army Corps of Engineers Prepared by: Cramer Fish Sciences May 7, 2025

## **RESERVOIR DISTRIBUTION SUMMARY**

Reservoir sampling during the reporting period was conducted in the nearshore areas of Lookout Point Reservoir using Oneida lake traps and box minnow traps (Table 1). Lookout Point was sampled for three consecutive weeks as we worked on permit modifications for sampling on Green Peter Reservoir.

On Lookout Point Reservoir, traps were deployed on three consecutive weeks; 4/14/2025 through 4/17/2025, 4/21/2025 through 4/24/2025, and 4/28/2025 through 05/01/2025. During the sampling weeks, average surface temperatures were 10.8, 12.6, and 12.9 °C respectively (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 weeks (Week of 4/14: n=9 Oneida sets, n=31 box minnow sets; weeks of 4/21 and 4/28: n= 9 Oneida sets, n= 27 box minnow sets), one subyearling natural origin Chinook salmon, nine natural origin *O. mykiss*, five cutthroat trout, one northern pikeminnow, one speckled dace, one bluegill, one yellow bullhead catfish, three smallmouth bass, and twenty-one white crappie were captured (Tables 1, 3-5). The Chinook salmon had a fork length of 87 mm and was captured in the Middle reservoir zone. The *O. mykiss* were 160.92 mm on average; one was captured in the Middle reservoir zone and eight were captured in the Upper reservoir zone. All the captured salmonids were of natural origin and were implanted with PIT tags by our crew.

Green Peter Reservoir was not sampled during this reporting period. This was due to exceeding our permitted incidental mortality take during the previous reporting period. A permit modification was issued on 5/1/2025, and sampling on Green Peter has resumed as of 5/05/2025 (week 19). Week 19 data will be included in the next biweekly reporting period.

| 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             |
| 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             |
|      |           |           |               |            |                    |                 |

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) |
|------|-----------|-----------|---------------|------------|--------------------|-----------------|
| 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             |

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

| Week | Reservoir     | Mean Water Surface Temperature °C |
|------|---------------|-----------------------------------|
| 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                              |

**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 - Largescale sucker, 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    |

**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 | <b>RBT-natural</b> | 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   | <b>RBT-natural</b> | Juvenile     | 0     | 1      | 0     | 0           |
| 8    | Lookout Point | CHS-AD             | Yearling     | 1     | 0      | 0     | 0           |
| 8    | Lookout Point | <b>RBT-natural</b> | Adult        | 0     | 1      | 0     | 0           |
| 8    | Lookout Point | <b>RBT-natural</b> | 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   | <b>RBT-natural</b> | Juvenile     | 0     | 0      | 0     | 1           |

| Week | Reservoir     | Species            | Lifestage    | LOWER | MIDDLE | UPPER | QUARTZVILLE |
|------|---------------|--------------------|--------------|-------|--------|-------|-------------|
| 10   | Lookout Point | <b>RBT-natural</b> | 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 | <b>RBT-natural</b> | 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 | <b>RBT-natural</b> | Adult        | 0     | 1      | 0     | 0           |
| 16   | Lookout Point | <b>RBT-natural</b> | Juvenile     | 0     | 0      | 6     | 0           |
| 17   | Lookout Point | <b>RBT-natural</b> | Juvenile     | 0     | 0      | 1     | 0           |
| 18   | Lookout Point | <b>RBT-natural</b> | Adult        | 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).

| West | D             | <b>C</b>           | I : C        | Catal | Min FL | Mean FL | Max FL | # VIE  | # PIT  | # D     | M           |
|------|---------------|--------------------|--------------|-------|--------|---------|--------|--------|--------|---------|-------------|
| Week | Reservoir     | Species            | Lifestage    | Catch | (mm)   | (mm)    | (mm)   | tagged | tagged | # Recap | Mortalities |
| 6    | Lookout Point | <b>RBT-natural</b> | 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   | <b>RBT-natural</b> | 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 | <b>RBT-natural</b> | Adult        | 1     | 359    | 359     | 359    | 0      | 0      | 0       | 0           |
| 8    | Lookout Point | <b>RBT-natural</b> | 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           |

|      |               |                    |              |       | Min FL | Mean FL | Max FL | # VIE  | # PIT  |         |             |
|------|---------------|--------------------|--------------|-------|--------|---------|--------|--------|--------|---------|-------------|
| Week | Reservoir     | Species            | Lifestage    | Catch | (mm)   | (mm)    | (mm)   | tagged | tagged | # Recap | Mortalities |
| 9    | Green Peter   | RBT-natural        | Juvenile     | 1     | 182    | 182     | 182    | 0      | 1      | 0       | 0           |
| 10   | Lookout Point | <b>RBT-natural</b> | 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 | <b>RBT-natural</b> | Adult        | 1     | 215    | 215     | 215    | 0      | 1      | 0       | 0           |
| 16   | Lookout Point | <b>RBT-natural</b> | Juvenile     | 6     | 91     | 107.7   | 116    | 0      | 6      | 0       | 0           |
| 17   | Lookout Point | <b>RBT-natural</b> | Juvenile     | 1     | 118    | 118     | 118    | 0      | 1      | 0       | 0           |
| 18   | Lookout Point | RBT-natural        | Adult        | 1     | 203    | 203     | 203    | 0      | 1      | 0       | 0           |

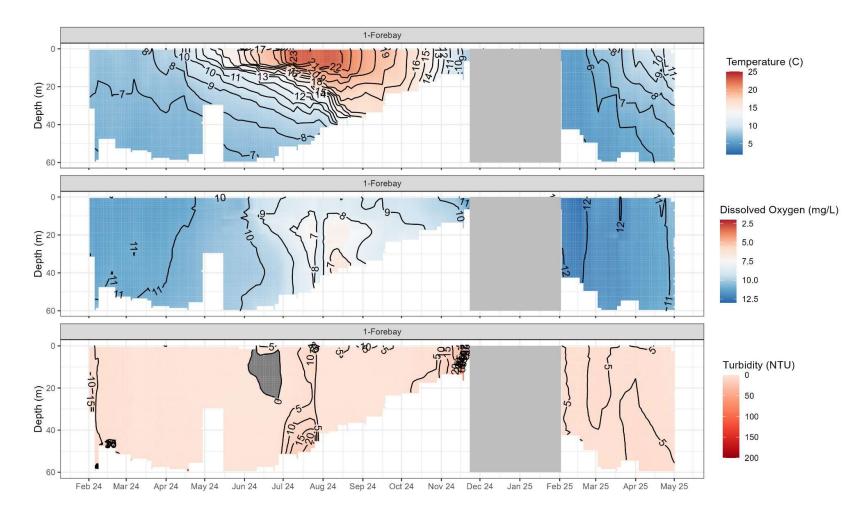


Figure 1. Lookout Point limnology data. Light gray indicates no sampling. Turbidity data in dark gray have been removed due to a sensor malfunction/calibration issue.

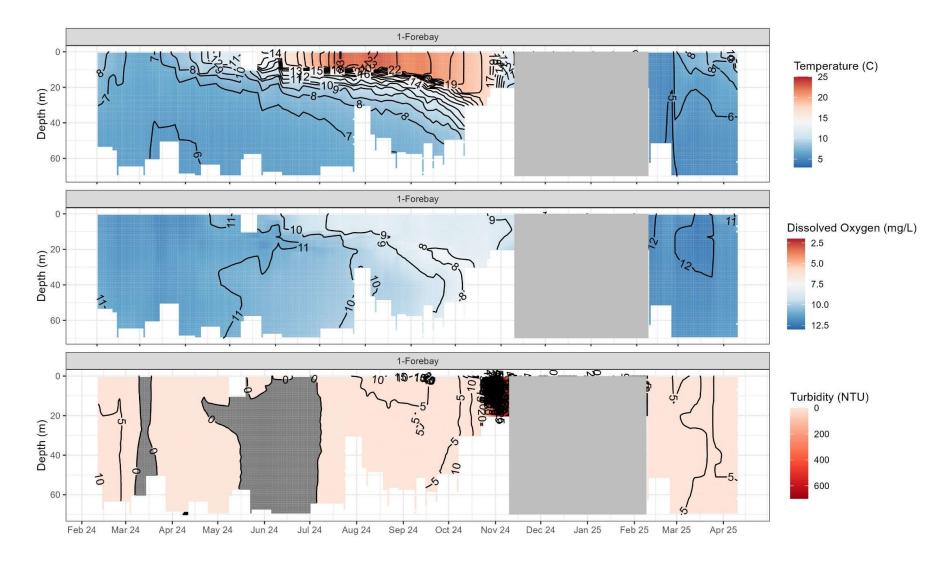


Figure 2. Green Peter limnology data. Light gray indicates no sampling. Turbidity data in dark gray have been removed due to a sensor malfunction/calibration issue.

### **RIVERINE SAMPLING SUMMARY**

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. During this reporting period, the Middle Santiam and Quartzville Creek average water temperatures increased 1.59 C and 1.78 C respectively (Table 7). In both systems, sculpins were the dominant species captured in seine hauls.

#### Quartzville Creek

Quartzville Creek was sampled during this reporting period on 4/14 - 4/16 (Week 16), from 4/21/2025 - 4/25/2025 (Week 17), and from 4/28/2025 - 4/30/2025 (Week 18) (Table 6).

#### Week 16

Week 16 consisted of three days (4/14-16) of sampling effort on Quartzville Creek. The water temperature averaged 7.94 C for the week (Table 7). Over three days of sampling (n = 12 pole seine hauls, n = 12 river seine hauls), 24 dace were captured (Tables 6, 8-10).

#### Week 17

Week 17 consisted of three days of seining effort from 4/21/2025 - 4/23/2025 and two nights from 4/24/2025 - 4/25/2025. Week 17 daytime effort consisted of 24 seine hauls (Table 6). The water temperature averaged 8.53 C for Week 17 (Table 7). Over three days of daytime sampling (n= 12 pole seine hauls, n = 12 river seine hauls), one natural-origin juvenile Chinook salmon, 21 dace, and two sculpin were captured (Table 8-10). The one natural-origin Chinook salmon captured during daytime effort was too small to PIT tag.

Week 17 nighttime effort consisted of two nights of sampling (n = 8 pole seine hauls, n = 7 river seine hauls) (Table 6). Captured species included: two natural-origin fry, two natural-origin parr Chinook salmon, three natural-origin *O. mykiss*, two cutthroat trout hybrids, 123 dace and 16 sculpin (Tables 8-10). One of the fry natural-origin Chinook salmon was a recapture and one was too small to PIT tag. Neither parr natural-origin Chinook salmon were tagged due to size and condition concerns.

#### Week 18

Week 18 included three days of effort 4/28/2025 - 4/30/2025, for a total of 24 seine hauls (n = 12 pole seine hauls, n = 12 river seine hauls). Two natural-origin fry Chinook salmon and 20 dace were captured (Tables 8-10). Mean water temperature was 9.72 degrees during week 18 (Table 7). The natural-origin Chinook salmon were below the minimum size threshold to PIT tag.

#### Middle Santiam River

The Middle Santiam River was sampled this reporting period from 4/17/2025 - 4/19/2025 (Week 16), from 4/21/2025 - 4/22/2025, and 4/24/2025 - 4/26/2025 (Week 17). No Sampling efforts were conducted through Week 18 (4/28/2025 - 4/30/2025) (Table 6).

#### Week 16

Sampling effort during week 16 consisted of 24 hauls over three days (Table 6). Mean water temperature during week 16 was 7.76 C (Table 7). Over the sampling week (n = 20 pole seine hauls, n = 4 river seine hauls), two natural-origin fry and one parr Chinook salmon were

captured (Tables 8-10). All Chinook captured were under 45mm and therefore, too small to PIT tag.

#### Week 17

Week 17 on the Middle Santiam consisted of two nights and three days of seining effort. The water temperature for the week averaged 8.31 C (Table 7). Week 17 nighttime effort consisted of four river seine hauls and 12 pole seine hauls (Table 6) that captured four natural-origin fry Chinook salmon, one smolt natural origin *O. mykiss*, and 18 dace (Tables 8-10). Two of the natural-origin Chinook fry were greater than 45mm and received a PIT tag. The natural-origin *O. mykiss* was a recapture.

Week 17 daytime effort consisted of 18 pole seine and six river seine hauls over three days. No fish were captured during week 17 daytime sampling.

#### Week 18

The Middle Santiam was sampled from 5/1/2025 - 5/3/2025 during week 18. Results for week 18 on the Middle Santiam will be included in the next biweekly report.

| 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                |

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

| 11         3/13/2025         3/14/2025         Quartzville Creek         Night         River         8           11         3/10/2025         3/11/2025         Middle Santiam         Night         River         2           11         3/10/2025         3/11/2025         Middle Santiam         Day         Pole         18           11         3/13/2025         3/15/2025         Middle Santiam         Day         River         6           12         3/18/2025         3/15/2025         Quartzville Creek         Day         Pole         14           12         3/18/2025         3/21/2025         Quartzville Creek         Day         Pole         8           12         3/20/2025         3/22/2025         Middle Santiam         Day         River         2           13         3/24/2025         3/28/2025         Quartzville Creek         Day         River         4           13         3/24/2025         3/28/2025         Quartzville Creek         Night         River         4           13         3/24/2025         3/29/2025         Middle Santiam         Night         River         4           13         3/27/2025         3/29/2025         Middle Santiam         Day   | Week | Start      | End         | River             | Day/ Night | Seine Type | Effort (# Hauls) |
|---|------|------------|-------------|-------------------|------------|------------|------------------|
| 11       3/10/2025       3/11/2025       Middle Santiam       Night       River       2         11       3/13/2025       3/15/2025       Middle Santiam       Day       River       6         12       3/18/2025       3/21/2025       Quartzville Creek       Day       River       9         12       3/18/2025       3/21/2025       Quartzville Creek       Day       Pole       8         12       3/20/2025       3/22/2025       Middle Santiam       Day       Pole       8         13       3/24/2025       3/26/2025       Quartzville Creek       Day       River       6         13       3/24/2025       3/26/2025       Quartzville Creek       Night       Pole       7         13       3/24/2025       3/25/2025       Quartzville Creek       Night       Pole       7         13       3/24/2025       3/25/2025       Middle Santiam       Night       Pole       7         13       3/24/2025       3/25/2025       Middle Santiam       Day       Pole       7         13       3/27/2025       3/29/2025       Middle Santiam       Day       River       0         14       2025/04/01       2025/04/03       Quartzville Cr  | 11   | 3/13/2025  | 3/14/2025   | Quartzville Creek | Night      | River      | 8                |
| 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       Pole       8         12       3/18/2025       3/22/2025       Middle Santiam       Day       Pole       8         12       3/20/2025       3/22/2025       Middle Santiam       Day       Pole       8         13       3/24/2025       3/26/2025       Quartzville Creek       Day       River       6         13       3/24/2025       3/26/2025       Quartzville Creek       Night       River       4         13       3/24/2025       3/25/2025       Middle Santiam       Night       River       4         13       3/24/2025       3/25/2025       Middle Santiam       Day       Pole       7         13       3/27/2025       3/25/2025       Middle Santiam       Day       Pole       12         14       2025/04/01       2025/04/03       Quartzville Creek       Day       Pole       12         14       2025/04/03       Quartzville Creek       Day <td>11</td> <td>3/10/2025</td> <td>3/11/2025</td> <td>Middle Santiam</td> <td>Night</td> <td>Pole</td> <td>9</td>  | 11   | 3/10/2025  | 3/11/2025   | Middle Santiam    | Night      | Pole       | 9                |
| 11         3/13/2025         3/15/2025         Middle Santiam         Day         River         6           12         3/18/2025         3/21/2025         Quartzville Creek         Day         River         9           12         3/21/2025         3/21/2025         Quartzville Creek         Day         River         9           12         3/20/2025         3/22/2025         Middle Santiam         Day         Pole         8           13         3/24/2025         3/26/2025         Quartzville Creek         Day         River         6           13         3/24/2025         3/28/2025         Quartzville Creek         Night         Pole         7           13         3/24/2025         3/28/2025         Quartzville Creek         Night         River         4           13         3/24/2025         3/28/2025         Middle Santiam         Night         River         4           13         3/24/2025         3/28/2025         Middle Santiam         Day         Pole         7           13         3/27/2025         3/29/2025         Middle Santiam         Day         River         1           14         2025/04/01         2025/04/03         Quartzville Creek         Day  | 11   | 3/10/2025  | 3/11/2025   | Middle Santiam    | Night      | River      | 2                |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$   | 11   | 3/13/2025  | 3/15/2025   | Middle Santiam    | Day        | Pole       | 18               |
| 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         River         6           13         3/24/2025         3/28/2025         Quartzville Creek         Night         River         4           13         3/24/2025         3/28/2025         Quartzville Creek         Night         River         4           13         3/24/2025         3/25/2025         Middle Santiam         Day         River         4           13         3/24/2025         3/25/2025         Middle Santiam         Day         Pole         7           13         3/27/2025         3/29/2025         Middle Santiam         Day         Pole         12           14         2025/04/01         2025/04/03         Quartzville Creek         Day         River         11           14         2025/04/03         2025/04/05         Middle Santiam         Day   | 11   | 3/13/2025  | 3/15/2025   | Middle Santiam    | Day        | River      | 6                |
| 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         0           13         3/27/2025         3/28/2025         Middle Santiam         Night         River         4           13         3/27/2025         3/25/2025         Middle Santiam         Day         Pole         7           13         3/27/2025         3/29/2025         Middle Santiam         Day         Pole         7           13         3/27/2025         3/29/2025         Middle Santiam         Day         Pole         1           14         2025/04/01         2025/04/03         Quartzville Creek         Day         River         1           14         2025/04/07         2025/04/08         Middle Santiam         Day         R  | 12   | 3/18/2025  | 3/21/2025   | Quartzville Creek | Day        | Pole       | 14               |
| 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         3/24/2025         3/25/2025         Middle Santiam         Night         Pole         0           13         3/24/2025         3/25/2025         Middle Santiam         Day         Pole         7           13         3/27/2025         3/29/2025         Middle Santiam         Day         Pole         7           13         3/27/2025         3/29/2025         Middle Santiam         Day         Pole         12           14         2025/04/01         2025/04/03         Quartzville Creek         Day         River         10           14         2025/04/03         2025/04/05         Middle Santiam         Day         River         4           15         2025/04/07         2025/04/08         Middle Santiam         Day         <  | 12   | 3/18/2025  | 3/21/2025   | Quartzville Creek | Day        | River      | 9                |
| 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         3/21/2025         3/28/2025         Quartzville Creek         Night         Pole         7           13         3/21/2025         3/28/2025         Quartzville Creek         Night         Pole         0           13         3/24/2025         3/25/2025         Middle Santiam         Night         Pole         0           13         3/24/2025         3/25/2025         Middle Santiam         Day         Pole         7           13         3/21/2025         3/29/2025         Middle Santiam         Day         Pole         7           13         3/27/2025         3/29/2025         Middle Santiam         Day         River         0           14         2025/04/01         2025/04/03         Quartzville Creek         Day         River         11           14         2025/04/07         2025/04/07         Middle Santiam         Day         River         4           15         2025/04/07         2025/04/09         Quartzville Creek         Day   | 12   | 3/20/2025  | 3/22/2025   | Middle Santiam    | Day        | Pole       | 8                |
| 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         Pole         0           13         3/24/2025         3/25/2025         Middle Santiam         Night         Pole         0           13         3/24/2025         3/25/2025         Middle Santiam         Day         Pole         7           13         3/24/2025         3/29/2025         Middle Santiam         Day         Pole         7           13         3/27/2025         3/29/2025         Middle Santiam         Day         Pole         12           14         2025/04/01         2025/04/03         Quartzville Creek         Day         River         11           14         2025/04/03         2025/04/05         Middle Santiam         Day         River         6           15         2025/04/07         2025/04/08         Middle Santiam         Night         Pole         8           15         2025/04/07         2025/04/09         Quartzville Creek         Day   | 12   | 3/20/2025  | 3/22/2025   | Middle Santiam    | Day        | River      | 2                |
| 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         Day         Pole         7           13         3/27/2025         3/29/2025         Middle Santiam         Day         Pole         7           13         3/27/2025         3/29/2025         Middle Santiam         Day         Pole         12           14         2025/04/01         2025/04/03         Quartzville Creek         Day         Pole         12           14         2025/04/03         2025/04/05         Middle Santiam         Day         River         6           15         2025/04/07         2025/04/05         Middle Santiam         Night         River         4           15         2025/04/07         2025/04/08         Middle Santiam         Night         Pole         13           15         2025/04/10         2025/04/10         Quartzville Creek         Day   | 13   | 3/24/2025  | 3/26/2025   | Quartzville Creek | Day        | Pole       | 15               |
| 13         3/27/2025         3/28/2025         Quartzville Creek         Night         River         4           13         3/24/2025         3/25/2025         Middle Santiam         Night         River         4           13         3/24/2025         3/25/2025         Middle Santiam         Night         River         4           13         3/27/2025         3/29/2025         Middle Santiam         Day         Pole         7           13         3/27/2025         3/29/2025         Middle Santiam         Day         Pole         7           14         2025/04/01         2025/04/03         Quartzville Creek         Day         Pole         14           14         2025/04/03         2025/04/05         Middle Santiam         Day         Pole         14           14         2025/04/07         2025/04/05         Middle Santiam         Day         River         6           15         2025/04/07         2025/04/07         2025/04/07         2025/04/07         2025/04/07         2025/04/07           15         2025/04/07         2025/04/09         Quartzville Creek         Day         Pole         13           15         2025/04/10         2025/04/10         2025/04/10 <td< td=""><td>13</td><td>3/24/2025</td><td>3/26/2025</td><td>Quartzville Creek</td><td>Day</td><td>River</td><td>6</td></td<>  | 13   | 3/24/2025  | 3/26/2025   | Quartzville Creek | Day        | River      | 6                |
| 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           13         3/27/2025         3/29/2025         Middle Santiam         Day         River         0           14         2025/04/01         2025/04/03         Quartzville Creek         Day         River         11           14         2025/04/03         2025/04/05         Middle Santiam         Day         Pole         14           14         2025/04/03         2025/04/05         Middle Santiam         Day         River         6           15         2025/04/07         2025/04/07         Middle Santiam         Night         River         4           15         2025/04/07         2025/04/07         Quartzville Creek         Day         River         10           15         2025/04/07         2025/04/07         2025/04/10         2025/04/10         2025/04/10         2025/04/10           15         2025/04/10         2025/04/10         Quartzville Creek   | 13   | 3/27/2025  | 3/28/2025   | Quartzville Creek | Night      | Pole       | 7                |
| 13       3/24/2025       3/25/2025       Middle Santiam       Night       River       4         13       3/27/2025       3/29/2025       Middle Santiam       Day       Pole       7         13       3/27/2025       3/29/2025       Middle Santiam       Day       River       0         14       2025/04/01       2025/04/03       Quartzville Creek       Day       Pole       12         14       2025/04/03       2025/04/03       Quartzville Creek       Day       River       11         14       2025/04/03       2025/04/05       Middle Santiam       Day       Pole       14         14       2025/04/03       2025/04/05       Middle Santiam       Day       River       6         15       2025/04/07       2025/04/08       Middle Santiam       Night       Pole       8         15       2025/04/07       2025/04/08       Middle Santiam       Night       River       10         15       2025/04/07       2025/04/09       Quartzville Creek       Day       River       10         15       2025/04/10       2025/04/11       Quartzville Creek       Night       River       7         15       2025/04/10       2025/04/12   | 13   | 3/27/2025  | 3/28/2025   | Quartzville Creek | Night      | River      | 4                |
| 13         3/27/2025         3/29/2025         Middle Santiam         Day         Pole         7           13         3/27/2025         3/29/2025         Middle Santiam         Day         River         0           14         2025/04/01         2025/04/03         Quartzville Creek         Day         Pole         12           14         2025/04/01         2025/04/03         Quartzville Creek         Day         Pole         14           14         2025/04/03         2025/04/05         Middle Santiam         Day         Pole         14           14         2025/04/03         2025/04/05         Middle Santiam         Day         River         6           15         2025/04/07         2025/04/08         Middle Santiam         Night         Pole         8           15         2025/04/07         2025/04/08         Middle Santiam         Night         River         4           15         2025/04/07         2025/04/09         Quartzville Creek         Day         River         10           15         2025/04/10         2025/04/11         Quartzville Creek         Night         Pole         14           15         2025/04/10         2025/04/12         Middle Santiam         Da   | 13   | 3/24/2025  | 3/25/2025   | Middle Santiam    | Night      | Pole       | 0                |
| 13         3/27/2025         3/29/2025         Middle Santiam         Day         River         0           14         2025/04/01         2025/04/03         Quartzville Creek         Day         Pole         12           14         2025/04/01         2025/04/03         Quartzville Creek         Day         River         11           14         2025/04/03         2025/04/05         Middle Santiam         Day         River         6           15         2025/04/07         2025/04/05         Middle Santiam         Day         River         6           15         2025/04/07         2025/04/08         Middle Santiam         Night         Pole         8           15         2025/04/07         2025/04/08         Middle Santiam         Night         River         4           15         2025/04/07         2025/04/09         Quartzville Creek         Day         Pole         13           15         2025/04/10         2025/04/11         Quartzville Creek         Night         Pole         8           15         2025/04/10         2025/04/12         Middle Santiam         Day         River         6           16         2025/04/10         2025/04/12         Middle Santiam  | 13   | 3/24/2025  | 3/25/2025   | Middle Santiam    | Night      | River      | 4                |
| 14       2025/04/01       2025/04/03       Quartzville Creek       Day       Pole       12         14       2025/04/01       2025/04/03       Quartzville Creek       Day       River       11         14       2025/04/03       2025/04/05       Middle Santiam       Day       Pole       14         14       2025/04/03       2025/04/05       Middle Santiam       Day       River       6         15       2025/04/07       2025/04/05       Middle Santiam       Night       Pole       8         15       2025/04/07       2025/04/08       Middle Santiam       Night       River       4         15       2025/04/07       2025/04/09       Quartzville Creek       Day       Pole       13         15       2025/04/07       2025/04/09       Quartzville Creek       Night       Pole       8         15       2025/04/10       2025/04/11       Quartzville Creek       Night       River       7         15       2025/04/10       2025/04/12       Middle Santiam       Day       Pole       14         15       2025/04/10       2025/04/12       Middle Santiam       Day       River       6         16       2025/04/14       2025/04/16 <td>13</td> <td>3/27/2025</td> <td>3/29/2025</td> <td>Middle Santiam</td> <td>Day</td> <td>Pole</td> <td>7</td>  | 13   | 3/27/2025  | 3/29/2025   | Middle Santiam    | Day        | Pole       | 7                |
| 14       2025/04/01       2025/04/03       Quartzville Creek       Day       River       11         14       2025/04/03       2025/04/05       Middle Santiam       Day       Pole       14         14       2025/04/03       2025/04/05       Middle Santiam       Day       River       6         15       2025/04/07       2025/04/05       Middle Santiam       Night       Pole       8         15       2025/04/07       2025/04/08       Middle Santiam       Night       River       4         15       2025/04/07       2025/04/09       Quartzville Creek       Day       Pole       13         15       2025/04/07       2025/04/10       Quartzville Creek       Night       Pole       8         15       2025/04/10       2025/04/11       Quartzville Creek       Night       Pole       8         15       2025/04/10       2025/04/11       Quartzville Creek       Night       River       7         15       2025/04/10       2025/04/12       Middle Santiam       Day       Pole       14         15       2025/04/10       2025/04/12       Middle Santiam       Day       River       6         16       2025/04/14       2025/04/16 </td <td>13</td> <td>3/27/2025</td> <td>3/29/2025</td> <td>Middle Santiam</td> <td>Day</td> <td>River</td> <td>0</td>   | 13   | 3/27/2025  | 3/29/2025   | Middle Santiam    | Day        | River      | 0                |
| 14       2025/04/03       2025/04/05       Middle Santiam       Day       Pole       14         14       2025/04/03       2025/04/05       Middle Santiam       Day       River       6         15       2025/04/07       2025/04/08       Middle Santiam       Night       Pole       8         15       2025/04/07       2025/04/08       Middle Santiam       Night       River       4         15       2025/04/07       2025/04/09       Quartzville Creek       Day       Pole       13         15       2025/04/07       2025/04/09       Quartzville Creek       Day       Pole       8         15       2025/04/10       2025/04/11       Quartzville Creek       Night       Pole       8         15       2025/04/10       2025/04/11       Quartzville Creek       Night       River       7         15       2025/04/10       2025/04/12       Middle Santiam       Day       Pole       14         15       2025/04/10       2025/04/12       Middle Santiam       Day       River       6         16       2025/04/14       2025/04/12       Middle Santiam       Day       Pole       12         16       2025/04/17       2025/04/19   | 14   | 2025/04/01 | 2025/04/03  | Quartzville Creek | Day        | Pole       | 12               |
| 14       2025/04/03       2025/04/05       Middle Santiam       Day       River       6         15       2025/04/07       2025/04/08       Middle Santiam       Night       Pole       8         15       2025/04/07       2025/04/08       Middle Santiam       Night       River       4         15       2025/04/07       2025/04/09       Quartzville Creek       Day       Pole       13         15       2025/04/07       2025/04/09       Quartzville Creek       Day       River       10         15       2025/04/07       2025/04/11       Quartzville Creek       Day       River       10         15       2025/04/10       2025/04/11       Quartzville Creek       Night       River       7         15       2025/04/10       2025/04/12       Middle Santiam       Day       Pole       14         15       2025/04/10       2025/04/12       Middle Santiam       Day       River       6         16       2025/04/14       2025/04/16       Quartzville Creek       Day       Pole       12         16       2025/04/17       2025/04/19       Middle Santiam       Day       River       4         17       2025/04/21       2025/04/23 <td>14</td> <td>2025/04/01</td> <td>2025/04/03</td> <td>Quartzville Creek</td> <td>Day</td> <td>River</td> <td>11</td>   | 14   | 2025/04/01 | 2025/04/03  | Quartzville Creek | Day        | River      | 11               |
| 15       2025/04/07       2025/04/08       Middle Santiam       Night       Pole       8         15       2025/04/07       2025/04/08       Middle Santiam       Night       River       4         15       2025/04/07       2025/04/09       Quartzville Creek       Day       Pole       13         15       2025/04/07       2025/04/09       Quartzville Creek       Day       River       10         15       2025/04/10       2025/04/11       Quartzville Creek       Day       River       10         15       2025/04/10       2025/04/11       Quartzville Creek       Night       Pole       8         15       2025/04/10       2025/04/12       Middle Santiam       Day       Pole       14         15       2025/04/10       2025/04/12       Middle Santiam       Day       Pole       14         15       2025/04/10       2025/04/12       Middle Santiam       Day       River       6         16       2025/04/14       2025/04/16       Quartzville Creek       Day       River       12         16       2025/04/17       2025/04/19       Middle Santiam       Day       River       4         17       2025/04/21       2025/04/23 <td>14</td> <td>2025/04/03</td> <td>2025/04/05</td> <td>Middle Santiam</td> <td>Day</td> <td>Pole</td> <td>14</td>   | 14   | 2025/04/03 | 2025/04/05  | Middle Santiam    | Day        | Pole       | 14               |
| 15       2025/04/07       2025/04/08       Middle Santiam       Night       River       4         15       2025/04/07       2025/04/09       Quartzville Creek       Day       Pole       13         15       2025/04/07       2025/04/09       Quartzville Creek       Day       River       10         15       2025/04/07       2025/04/10       Quartzville Creek       Day       River       10         15       2025/04/10       2025/04/11       Quartzville Creek       Night       Pole       8         15       2025/04/10       2025/04/12       Middle Santiam       Day       Pole       14         15       2025/04/10       2025/04/12       Middle Santiam       Day       River       6         16       2025/04/14       2025/04/16       Quartzville Creek       Day       Pole       12         16       2025/04/14       2025/04/16       Quartzville Creek       Day       Pole       12         16       2025/04/17       2025/04/19       Middle Santiam       Day       River       4         17       2025/04/21       2025/04/23       Quartzville Creek       Day       Pole       12         17       2025/04/21       2025/04/2   | 14   | 2025/04/03 | 2025/04/05  | Middle Santiam    | Day        | River      | 6                |
| 15       2025/04/07       2025/04/09       Quartzville Creek       Day       Pole       13         15       2025/04/07       2025/04/09       Quartzville Creek       Day       River       10         15       2025/04/10       2025/04/11       Quartzville Creek       Day       River       10         15       2025/04/10       2025/04/11       Quartzville Creek       Night       Pole       8         15       2025/04/10       2025/04/11       Quartzville Creek       Night       River       7         15       2025/04/10       2025/04/12       Middle Santiam       Day       Pole       14         15       2025/04/10       2025/04/12       Middle Santiam       Day       Pole       12         16       2025/04/14       2025/04/16       Quartzville Creek       Day       Pole       20         16       2025/04/17       2025/04/19       Middle Santiam       Day       Pole       20         16       2025/04/18       2025/04/19       Middle Santiam       Day       Pole       12         17       2025/04/21       2025/04/23       Quartzville Creek       Day       Pole       12         17       2025/04/21       2025/04/2   | 15   | 2025/04/07 | 2025/04/08  | Middle Santiam    | Night      | Pole       | 8                |
| 15       2025/04/07       2025/04/09       Quartzville Creek       Day       River       10         15       2025/04/10       2025/04/11       Quartzville Creek       Night       Pole       8         15       2025/04/10       2025/04/11       Quartzville Creek       Night       River       7         15       2025/04/10       2025/04/12       Middle Santiam       Day       Pole       14         15       2025/04/10       2025/04/12       Middle Santiam       Day       River       6         16       2025/04/14       2025/04/16       Quartzville Creek       Day       River       12         16       2025/04/14       2025/04/16       Quartzville Creek       Day       River       12         16       2025/04/17       2025/04/19       Middle Santiam       Day       River       4         17       2025/04/18       2025/04/19       Middle Santiam       Day       River       4         17       2025/04/21       2025/04/23       Quartzville Creek       Day       River       12         17       2025/04/21       2025/04/23       Quartzville Creek       Day       River       12         17       2025/04/24       2025/0   | 15   | 2025/04/07 | 2025/04/08  | Middle Santiam    | Night      | River      | 4                |
| 15       2025/04/10       2025/04/11       Quartzville Creek       Night       Pole       8         15       2025/04/10       2025/04/11       Quartzville Creek       Night       River       7         15       2025/04/10       2025/04/12       Middle Santiam       Day       Pole       14         15       2025/04/10       2025/04/12       Middle Santiam       Day       River       6         16       2025/04/14       2025/04/16       Quartzville Creek       Day       Pole       12         16       2025/04/14       2025/04/16       Quartzville Creek       Day       River       12         16       2025/04/17       2025/04/19       Middle Santiam       Day       Pole       20         16       2025/04/17       2025/04/19       Middle Santiam       Day       River       4         17       2025/04/21       2025/04/23       Quartzville Creek       Day       Pole       12         17       2025/04/21       2025/04/23       Quartzville Creek       Day       River       12         17       2025/04/24       2025/04/25       Quartzville Creek       Night       Pole       7         17       2025/04/24       2025/04/   | 15   | 2025/04/07 | 2025/04/09  | Quartzville Creek | Day        | Pole       | 13               |
| 15       2025/04/10       2025/04/11       Quartzville Creek       Night       River       7         15       2025/04/10       2025/04/12       Middle Santiam       Day       Pole       14         15       2025/04/10       2025/04/12       Middle Santiam       Day       River       6         16       2025/04/14       2025/04/16       Quartzville Creek       Day       Pole       12         16       2025/04/14       2025/04/16       Quartzville Creek       Day       Pole       20         16       2025/04/17       2025/04/19       Middle Santiam       Day       Pole       20         16       2025/04/17       2025/04/19       Middle Santiam       Day       Pole       20         16       2025/04/18       2025/04/19       Middle Santiam       Day       River       4         17       2025/04/21       2025/04/23       Quartzville Creek       Day       River       12         17       2025/04/21       2025/04/25       Quartzville Creek       Day       River       12         17       2025/04/24       2025/04/25       Quartzville Creek       Night       Pole       7         17       2025/04/24       2025/04/25 </td <td>15</td> <td>2025/04/07</td> <td>2025/04/09</td> <td>Quartzville Creek</td> <td>Day</td> <td>River</td> <td>10</td>   | 15   | 2025/04/07 | 2025/04/09  | Quartzville Creek | Day        | River      | 10               |
| 15       2025/04/10       2025/04/12       Middle Santiam       Day       Pole       14         15       2025/04/10       2025/04/12       Middle Santiam       Day       River       6         16       2025/04/14       2025/04/16       Quartzville Creek       Day       Pole       12         16       2025/04/14       2025/04/16       Quartzville Creek       Day       River       12         16       2025/04/17       2025/04/19       Middle Santiam       Day       Pole       20         16       2025/04/17       2025/04/19       Middle Santiam       Day       Pole       20         16       2025/04/17       2025/04/19       Middle Santiam       Day       Pole       20         16       2025/04/18       2025/04/23       Quartzville Creek       Day       Pole       12         17       2025/04/21       2025/04/23       Quartzville Creek       Day       River       12         17       2025/04/24       2025/04/25       Quartzville Creek       Night       Pole       7         17       2025/04/24       2025/04/25       Quartzville Creek       Night       River       4         17       2025/04/24       2025/04/25 </td <td>15</td> <td>2025/04/10</td> <td>2025/04/11</td> <td>Quartzville Creek</td> <td>Night</td> <td>Pole</td> <td>8</td>   | 15   | 2025/04/10 | 2025/04/11  | Quartzville Creek | Night      | Pole       | 8                |
| 15       2025/04/10       2025/04/12       Middle Santiam       Day       River       6         16       2025/04/14       2025/04/16       Quartzville Creek       Day       Pole       12         16       2025/04/14       2025/04/16       Quartzville Creek       Day       River       12         16       2025/04/17       2025/04/16       Quartzville Creek       Day       Pole       20         16       2025/04/17       2025/04/19       Middle Santiam       Day       Pole       20         16       2025/04/18       2025/04/19       Middle Santiam       Day       Pole       20         16       2025/04/21       2025/04/23       Quartzville Creek       Day       Pole       12         17       2025/04/21       2025/04/23       Quartzville Creek       Day       River       12         17       2025/04/24       2025/04/25       Quartzville Creek       Night       Pole       7         17       2025/04/24       2025/04/25       Quartzville Creek       Night       River       4         17       2025/04/24       2025/04/22       Middle Santiam       Night       River       4         17       2025/04/21       2025/04   | 15   | 2025/04/10 | 2025/04/11  | Quartzville Creek | Night      | River      | 7                |
| 16         2025/04/14         2025/04/16         Quartzville Creek         Day         Pole         12           16         2025/04/14         2025/04/16         Quartzville Creek         Day         River         12           16         2025/04/17         2025/04/19         Middle Santiam         Day         Pole         20           16         2025/04/17         2025/04/19         Middle Santiam         Day         River         12           16         2025/04/18         2025/04/19         Middle Santiam         Day         Pole         20           16         2025/04/21         2025/04/23         Quartzville Creek         Day         Pole         12           17         2025/04/21         2025/04/23         Quartzville Creek         Day         River         12           17         2025/04/24         2025/04/25         Quartzville Creek         Night         Pole         7           17         2025/04/24         2025/04/25         Quartzville Creek         Night         River         8           17         2025/04/24         2025/04/25         Quartzville Creek         Night         River         4           17         2025/04/21         2025/04/22         Middle Santiam <td>15</td> <td>2025/04/10</td> <td>2025/04/12</td> <td>Middle Santiam</td> <td>Day</td> <td>Pole</td> <td>14</td> | 15   | 2025/04/10 | 2025/04/12  | Middle Santiam    | Day        | Pole       | 14               |
| 16       2025/04/14       2025/04/16       Quartzville Creek       Day       River       12         16       2025/04/17       2025/04/19       Middle Santiam       Day       Pole       20         16       2025/04/18       2025/04/19       Middle Santiam       Day       River       4         17       2025/04/21       2025/04/23       Quartzville Creek       Day       Pole       12         17       2025/04/21       2025/04/23       Quartzville Creek       Day       Pole       12         17       2025/04/21       2025/04/23       Quartzville Creek       Day       River       12         17       2025/04/24       2025/04/25       Quartzville Creek       Night       Pole       7         17       2025/04/24       2025/04/25       Quartzville Creek       Night       River       8         17       2025/04/24       2025/04/22       Middle Santiam       Night       River       4         17       2025/04/21       2025/04/22       Middle Santiam       Night       Pole       12         17       2025/04/24       2025/04/26       Middle Santiam       Night       Pole       12         17       2025/04/24       2025/0   | 15   | 2025/04/10 | 2025/04/12  | Middle Santiam    | Day        | River      | 6                |
| 16       2025/04/17       2025/04/19       Middle Santiam       Day       Pole       20         16       2025/04/18       2025/04/19       Middle Santiam       Day       River       4         17       2025/04/21       2025/04/23       Quartzville Creek       Day       Pole       12         17       2025/04/21       2025/04/23       Quartzville Creek       Day       River       12         17       2025/04/24       2025/04/25       Quartzville Creek       Day       River       12         17       2025/04/24       2025/04/25       Quartzville Creek       Night       Pole       7         17       2025/04/24       2025/04/25       Quartzville Creek       Night       River       8         17       2025/04/24       2025/04/25       Quartzville Creek       Night       River       4         17       2025/04/21       2025/04/22       Middle Santiam       Night       River       4         17       2025/04/21       2025/04/22       Middle Santiam       Night       Pole       12         17       2025/04/24       2025/04/26       Middle Santiam       Day       Pole       18         17       2025/04/24       2025/0   | 16   | 2025/04/14 | 2025/04/16  | Quartzville Creek | Day        | Pole       | 12               |
| 16       2025/04/18       2025/04/19       Middle Santiam       Day       River       4         17       2025/04/21       2025/04/23       Quartzville Creek       Day       Pole       12         17       2025/04/21       2025/04/23       Quartzville Creek       Day       River       12         17       2025/04/21       2025/04/25       Quartzville Creek       Day       River       12         17       2025/04/24       2025/04/25       Quartzville Creek       Night       Pole       7         17       2025/04/24       2025/04/25       Quartzville Creek       Night       River       8         17       2025/04/24       2025/04/22       Middle Santiam       Night       River       4         17       2025/04/21       2025/04/22       Middle Santiam       Night       Pole       12         17       2025/04/21       2025/04/22       Middle Santiam       Night       Pole       12         17       2025/04/24       2025/04/26       Middle Santiam       Day       Pole       18         17       2025/04/24       2025/04/26       Middle Santiam       Day       River       6   | 16   | 2025/04/14 | 2025/04/16  | Quartzville Creek | Day        | River      | 12               |
| 17       2025/04/21       2025/04/23       Quartzville Creek       Day       Pole       12         17       2025/04/21       2025/04/23       Quartzville Creek       Day       River       12         17       2025/04/24       2025/04/25       Quartzville Creek       Day       River       12         17       2025/04/24       2025/04/25       Quartzville Creek       Night       Pole       7         17       2025/04/24       2025/04/25       Quartzville Creek       Night       River       8         17       2025/04/21       2025/04/22       Middle Santiam       Night       River       4         17       2025/04/21       2025/04/22       Middle Santiam       Night       Pole       12         17       2025/04/21       2025/04/22       Middle Santiam       Night       Pole       12         17       2025/04/24       2025/04/26       Middle Santiam       Day       Pole       18         17       2025/04/24       2025/04/26       Middle Santiam       Day       River       6   | 16   | 2025/04/17 | 2025/04/19  | Middle Santiam    | Day        | Pole       | 20               |
| 17       2025/04/21       2025/04/23       Quartzville Creek       Day       River       12         17       2025/04/24       2025/04/25       Quartzville Creek       Night       Pole       7         17       2025/04/24       2025/04/25       Quartzville Creek       Night       River       8         17       2025/04/21       2025/04/22       Middle Santiam       Night       River       4         17       2025/04/21       2025/04/22       Middle Santiam       Night       Pole       12         17       2025/04/21       2025/04/22       Middle Santiam       Night       Pole       12         17       2025/04/21       2025/04/22       Middle Santiam       Night       Pole       12         17       2025/04/24       2025/04/26       Middle Santiam       Day       Pole       18         17       2025/04/24       2025/04/26       Middle Santiam       Day       River       6  | 16   | 2025/04/18 | 2025/04/19  | Middle Santiam    | Day        | River      | 4                |
| 17       2025/04/24       2025/04/25       Quartzville Creek       Night       Pole       7         17       2025/04/24       2025/04/25       Quartzville Creek       Night       River       8         17       2025/04/21       2025/04/22       Middle Santiam       Night       River       4         17       2025/04/21       2025/04/22       Middle Santiam       Night       Pole       12         17       2025/04/24       2025/04/26       Middle Santiam       Day       Pole       18         17       2025/04/24       2025/04/26       Middle Santiam       Day       River       6  | 17   | 2025/04/21 | 2025/04/23  | Quartzville Creek | Day        | Pole       | 12               |
| 17       2025/04/24       2025/04/25       Quartzville Creek       Night       River       8         17       2025/04/21       2025/04/22       Middle Santiam       Night       River       4         17       2025/04/21       2025/04/22       Middle Santiam       Night       Pole       12         17       2025/04/24       2025/04/26       Middle Santiam       Day       Pole       18         17       2025/04/24       2025/04/26       Middle Santiam       Day       River       6  | 17   | 2025/04/21 | 2025/04/23  | Quartzville Creek | Day        | River      | 12               |
| 17       2025/04/21       2025/04/22       Middle Santiam       Night       River       4         17       2025/04/21       2025/04/22       Middle Santiam       Night       Pole       12         17       2025/04/24       2025/04/26       Middle Santiam       Day       Pole       18         17       2025/04/24       2025/04/26       Middle Santiam       Day       River       6   | 17   | 2025/04/24 | 2025/04/25  | Quartzville Creek | Night      | Pole       | 7                |
| 17       2025/04/21       2025/04/22       Middle Santiam       Night       Pole       12         17       2025/04/24       2025/04/26       Middle Santiam       Day       Pole       18         17       2025/04/24       2025/04/26       Middle Santiam       Day       River       6   | 17   | 2025/04/24 | 2025/04/25  | Quartzville Creek | Night      | River      | 8                |
| 17       2025/04/24       2025/04/26       Middle Santiam       Day       Pole       18         17       2025/04/24       2025/04/26       Middle Santiam       Day       River       6   | 17   | 2025/04/21 | 2025/04/22  | Middle Santiam    | Night      | River      | 4                |
| 17 2025/04/24 2025/04/26 Middle Santiam Day River 6   | 17   | 2025/04/21 | 2025/04/22  | Middle Santiam    | Night      | Pole       | 12               |
|   | 17   | 2025/04/24 | 2025/04/26  | Middle Santiam    | Day        | Pole       | 18               |
| 18 2025/04/28 2025/04/300 Ouartzville Creek Dav Pole 12   | 17   | 2025/04/24 | 2025/04/26  | Middle Santiam    | Day        | River      | 6                |
|   | 18   | 2025/04/28 | 2025/04/300 | Quartzville Creek | Day        | Pole       | 12               |

| Week | Start      | End        | River             | Day/ Night | Seine Type | Effort (# Hauls) |
|------|------------|------------|-------------------|------------|------------|------------------|
| 18   | 2025/04/28 | 2025/04/30 | Quartzville Creek | Day        | River      | 12               |

| 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                      |

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

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

| Week | River             | Day/ Night | CHS | RBT | CUT | DACE | SCU | Sucker | Lamprey |
|------|-------------------|------------|-----|-----|-----|------|-----|--------|---------|
| 4    | Middle Santiam    | Day        | 4   | 0   | 0   | 1    | 0   | 0      | 0       |
| 5    | Middle Santiam    | Day        | 1   | 0   | 0   | 1    | 0   | 0      | 0       |
| 6    | Quartzville Creek | Day        | 0   | 0   | 0   | 3    | 1   | 0      | 0       |
| 6    | Middle Santiam    | Day        | 6   | 0   | 0   | 1    | 0   | 0      | 0       |
| 7    | Middle Santiam    | Day        | 2   | 0   | 0   | 0    | 0   | 0      | 0       |

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

**Table 9.** Catch summary of target species by habitat unit type for riverine sampling. CHS-AD = adclipped 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     |

| Week | River             | Species             | Lifestage | Riffle | Run | Pool | Pooltail | Total |
|------|-------------------|---------------------|-----------|--------|-----|------|----------|-------|
| 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- hatchery       | fry       | 0      | 0   | 3    | 0        | 3     |
| 11   | Quartzville Creek | RBT- natural        | juvenile  | 0      | 0   | 4    | 0        | 4     |
| 11   | Quartzville Creek | <b>RBT-natural</b>  | adult     | 0      | 0   | 1    | 0        | 1     |
| 11   | Middle Santiam    | CHS-natural         | fry       | 0      | 1   | 2    | 0        | 3     |
| 11   | Middle Santiam    | CHS-hatchery        | fry       | 0      | 0   | 1    | 0        | 1     |
| 11   | Middle Santiam    | CHS- hatchery       | smolt     | 0      | 0   | 1    | 0        | 1     |
| 11   | Middle Santiam    | <b>RBT-</b> natural | juvenile  | 0      | 0   | 4    | 0        | 4     |
| 12   | Quartzville Creek | CHS-natural         | fry       | 0      | 0   | 2    | 0        | 2     |
| 12   | Quartzville Creek | CHS-hatchery        | fry       | 1      | 0   | 0    | 0        | 1     |
| 12   | Middle Santiam    | No Catch            | -         | 0      | 0   | 0    | 0        | 0     |
| 13   | Quartzville Creek | <b>RBT-natural</b>  | juvenile  | 2      | 0   | 2    | 0        | 4     |
| 13   | Middle Santiam    | CHS-natural         | fry       | 0      | 1   | 0    | 0        | 1     |
| 13   | Middle Santiam    | <b>RBT-natural</b>  | juvenile  | 0      | 1   | 2    | 0        | 3     |
| 14   | Middle Santiam    | CHS - Hatchery      | Fry       | 0      | 2   | 0    | 0        | 2     |
| 14   | Middle Santiam    | CHS - Hatchery      | Parr      | 0      | 2   | 0    | 0        | 2     |
| 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 - Hatchery      | Parr      | 0      | 3   | 0    | 0        | 3     |
| 15   | Middle Santiam    | CHS - Hatchery      | 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 - Hatchery      | 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     |

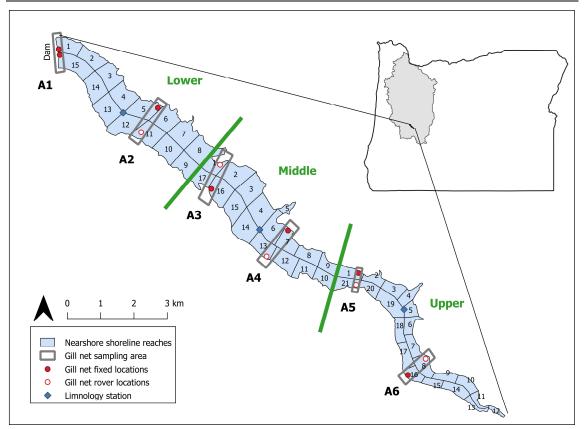
**Table 10**. Summary of target species lengths, tags implanted and recaptures from riverinesampling. MS = Middle Santiam, QTZ = Quartzville Creek.

| Week | River | Species       | Life<br>Stage | catch | Min FL | Mean FL | Max FL | #<br>Recaps | #PIT<br>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              |

| <b>XX</b> 7 <b>P</b> | р.       | с ·                            | Life     |       | N. 1. 1. 1 | M PY    | M   | #   | #PIT   |
|----------------------|----------|--------------------------------|----------|-------|------------|---------|-----|-----|--------|
| Week                 |          |                                | Stage    | catch |            | Mean FL |     |     | tagged |
| 7                    | MS       | CHS - Natural                  | Fry      | 2     | 35         | 35.50   | 36  | 0   | 0      |
| 8                    | MS       | CHS - Natural<br>CHS - Natural | Fry      | 73    | 34         | 37.29   | 42  | 0 0 | 0      |
| 8<br>9               | ~        |                                | Fry      |       | 31         | 34.00   | 37  |     | 0      |
| 9                    | MS       | CHS - Natural<br>No Catch      | Fry      | 1 0   | 29         | 29.00   | 29  | 0 0 | 0      |
| 10                   | QTZ      | No Catch                       | -        | 0     | -          | -       | -   | 0   | 0      |
| 10                   | MS       | No Catch                       | -        | 0     | -          | -       | -   | 0   | 0      |
|                      |          | CHS -                          | -        | 0     |            |         |     | 0   |        |
| 11                   | MS       | Hatchery<br>CHS -              | Fry      | 1     | 47         | 47.00   | 47  | 1   | 0      |
| 11                   | MS       | Hatchery                       | Smolt    | 1     | 135        | 135.00  | 135 | 0   | 1      |
| 11                   | MS       | CHS - Natural                  | Fry      | 3     | 33         | 36.67   | 39  | 0   | 0      |
| 11                   | MS       | RBT - Natural                  |          | 4     | 121        | 157.75  | 187 | 0   | 0      |
|                      |          | CHS -                          | Juvenne  |       |            |         |     |     |        |
| 11                   | QTZ      | Hatchery                       | Fry      | 3     | 44         | 46.00   | 47  | 3   | 3      |
| 11                   | ~        | CHS - Natural                  | Fry      | 5     | 33         | 40.20   | 46  | 0   | 1      |
| 11                   |          | CHS - Natural                  | Smolt    | 2     | 109        | 116.50  | 124 | 0   | 2      |
| 11                   | ~        | RBT - Natural                  | Adult    | 1     | 205        | 205.00  | 205 | 0   | 0      |
| 11                   | QIZ      | RBT - Natural                  | Juvenile | 4     | 92         | 94.75   | 99  | 0   | 0      |
| 12                   | QTZ      | CHS -<br>Hatchery              | Fry      | 1     | 35         | 35.00   | 35  | 0   | 0      |
| 12                   | <u> </u> | 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                   |          | RBT - Natural                  |          | 4     | 115        | 129.50  | 150 | 1   | 3      |
| 13                   | QTZ      | RBT - Natural                  | Juvenile | 4     | 125        | 140.50  | 160 | 0   | 4      |
| 14                   | MS       | CHS -<br>Hatchery              | Fry      | 2     | 43         | 45.00   | 47  | 0   | 0      |
| 14                   | MS       | CHS - Natural                  | Fry      | 1     | 37         | 37.00   | 37  | 0   | 0      |
| 14                   | MS       | CHS -<br>Hatchery              | 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 -<br>Hatchery              | Parr     | 3     | 52         | 55.00   | 58  | 3   | 0      |
| 15                   | MS       | CHS -<br>Hatchery              | 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 -<br>Hatchery              | Parr     | 1     | 49         | 49.00   | 49  | 1   | 0      |
| 15                   | QTZ      | CHS - Natural                  | Juvenile | 1     | 30         | 30.00   | 30  | 0   | 0      |
| 16                   | ŇS       | 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       | <b>RBT-Natural</b>             | 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      |
|                      |          | RBT - Natural                  | Smolt    | 3     | 106        | 109.67  | 113 | 0   | 0      |

| Week | River | Species             | Life<br>Stage | catch | Min FL | Mean FL | Max FL | #<br>Recaps | #PIT<br>tagged |
|------|-------|---------------------|---------------|-------|--------|---------|--------|-------------|----------------|
| 17   | QTZ   | RBT/CUT-<br>Natural | Smolt         | 2     | 106    | 127.00  | 148    | 0           | 0              |
| 18   | QTZ   | CHS - Natural       | Fry           | 2     | 39     | 39.00   | 39     | 0           | 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.

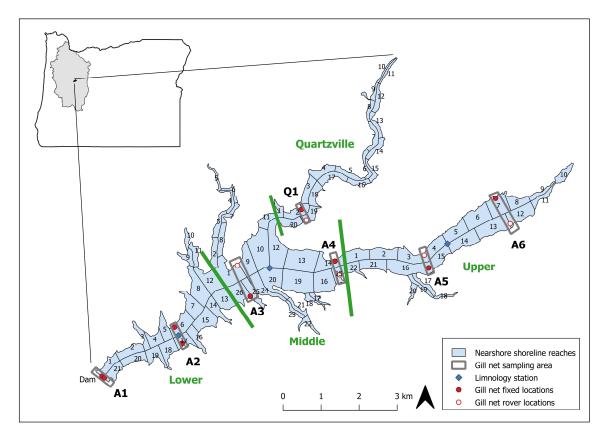


Figure A2. Map of Green Peter Reservoir nearshore shoreline reaches, reservoir zones (lower, middle and upper), gill netting sampling areas and limnological stations.