

WILLAMETTE VALLEY FISH PASSAGE MONITORING – BULK MARKING & RESERVOIR DISTRIBUTION

Bi-Weekly Report: October 01, 2024 – October 15, 2024



Prepared for: United States Army Corps of Engineers

Prepared by: Cramer Fish Sciences

October 22, 2024

BULK MARKING SCHEDULE

Table 1. Tentative release schedule for brood years 2022 and 2023. Green rows highlight the release groups that have been tagged and released. Orange rows highlight release groups that have been tagged but have not yet been released. Date estimate is a rough estimate of when fish should be released to meet the intended target.

| 2023 | | | | | |
|---------------|--------------------------------------|--|-------------|-------|-------|
| MF Willamette | | | | | |
| Date Estimate | Release Location | Target | Lifestage | # | Tag |
| Spring 2023 | Head of Fall Creek Dam reservoir | Prior to reaching target elevation of 728 feet | fry | 10000 | 8 mm |
| Spring 2023 | Head of Lookout Point Dam reservoir | 30 day spill operations | fry | 10000 | 8 mm |
| Spring 2023 | Head of Hills Creek Dam reservoir | Observed fry migration and RO operations | fry | 10000 | 8 mm |
| 9/15/2023 | Dexter Dam Tailrace | Fall deep drawdown | subyearling | 2000 | 12 mm |
| 9/15/2023 | Head of Lookout Point Dam reservoir | Fall deep drawdown | subyearling | 5000 | 12 mm |
| 9/15/2023 | Lookout Point Dam Forebay | Fall deep drawdown | subyearling | 5000 | 12 mm |
| 10/15/2023 | Fall Creek Dam Head of Reservoir | 2-3 weeks prior to drawdown | subyearling | 5000 | 12 mm |
| 10/15/2023 | Fall Creek Dam tailrace | 2-3 weeks prior to drawdown | subyearling | 1000 | 12 mm |
| 11/15/2023 | Fall Creek Dam Head of Reservoir | Midway between start of drawdown and streambed elevation | subyearling | 5000 | 12 mm |
| 11/15/2023 | Fall Creek Dam tailrace | Midway between start of drawdown and streambed elevation | subyearling | 1000 | 12 mm |
| 11/16/2023 | Hills Creek Dam Head of Reservoir | Prior to start of fall/winter RO operations | subyearling | 5000 | 12 mm |
| 11/16/2023 | Hills Creek Dam tailrace | Prior to start of fall/winter RO operations | subyearling | 3000 | 12 mm |
| 11/16/2023 | Hills Creek forebay or mid-reservoir | Prior to start of fall/winter RO operations | subyearling | 5000 | 12 mm |
| North Santiam | | | | | |
| Spring 2023 | Breitenbush River | Prior to beginning of spill | fry | 7500 | 8 mm |
| Spring 2023 | North Santiam River | Prior to beginning of spill | fry | 7500 | 8 mm |
| 10/1/2023 | Big Cliff Dam Tailrace | Prior to Detroit Reservoir reaching 1520 feet | subyearling | 8000 | 12 mm |
| 10/1/2023 | Breitenbush River | Prior to Detroit Reservoir reaching 1520 feet | subyearling | 5000 | 12 mm |
| 10/1/2023 | North Santiam River | Prior to Detroit Reservoir reaching 1520 feet | subyearling | 5000 | 12 mm |

| | | | | | |
|----------------------|---|---|-------------|------|-------|
| 11/15/2023 | Big Cliff Dam Tailrace | When Detroit reaches 1465 feet | subyearling | 6000 | 12 mm |
| SF McKenzie | | | | | |
| Spring 2023 | Cougar Dam Head of Reservoir | Prior to start of spring drawdown | fry | 5000 | 8 mm |
| Spring 2023 | Cougar Dam Head of Reservoir | After start of drawdown but prior to reaching 1520 feet | fry | 5000 | 8 mm |
| 9/15/2023 | Cougar Dam Head of Reservoir | Prior to start of drawdown | subyearling | 3000 | 12 mm |
| 10/15/2023 | Cougar Dam Forebay | Prior to reaching target elevation of 1505 feet | subyearling | 5000 | 12 mm |
| 10/15/2023 | Cougar Dam Tailrace | Prior to reaching target elevation of 1505 feet | subyearling | 4000 | 12 mm |
| 10/15/2023 | Cougar Head of Reservoir | Prior to reaching target elevation of 1505 feet | subyearling | 4000 | 12 mm |
| 11/15/2023 | Cougar Dam Forebay | At 1532 feet when RO is prioritized for day and night spill | subyearling | 5000 | 12 mm |
| 11/15/2023 | Cougar Dam Tailrace | At 1532 feet when RO is prioritized for day and night spill | subyearling | 4000 | 12 mm |
| 11/15/2023 | Cougar Head of Reservoir | At 1532 feet when RO is prioritized for day and night spill | subyearling | 4000 | 12 mm |
| South Santiam | | | | | |
| Spring 2023 | Green Peter Head of Reservoir in Middle Santiam River | Spill operation block | fry | 5000 | 8 mm |
| Spring 2023 | Green Peter Head of Reservoir in Quartzville Creek | Spill operation block | fry | 5000 | 8 mm |
| 8/30/2023 | South Santiam River - Foster Dam Tailrace | Undefined - Late August | subyearling | 1000 | 12 mm |
| 8/30/2023 | South Santiam River above Foster Dam | Undefined - Late August | subyearling | 2000 | 12 mm |
| 9/15/2023 | Green Peter Reservoir - Head of Reservoir, Middle Santiam River | Fall Operations at Green Peter Dam | subyearling | 2500 | 12 mm |
| 9/15/2023 | Green Peter Reservoir - Head of Reservoir, Quartzville Creek | Fall Operations at Green Peter Dam | subyearling | 2500 | 12 mm |
| 10/15/2023 | Green Peter Dam Tailrace | Prior to Green Peter reaching 887 feet. | subyearling | 4000 | 12 mm |
| 10/15/2023 | Green Peter Reservoir - Head of Reservoir, Middle Santiam River | Prior to Green Peter reaching 887 feet. | subyearling | 2500 | 12 mm |
| 10/15/2023 | Green Peter Reservoir - Head of Reservoir, Quartzville Creek | Prior to Green Peter reaching 887 feet. | subyearling | 2500 | 12 mm |
| 10/15/2023 | South Santiam River - Foster Dam Tailrace | Fall operations at Foster Dam | subyearling | 4000 | 12 mm |
| 10/15/2023 | South Santiam River above Foster Dam | Fall operations at Foster Dam | subyearling | 5000 | 12 mm |

2024

MF Willamette

| | | | | | |
|-----------|--------------------------------------|---|----------|------|-------|
| 2/1/2024 | Hills Creek Dam Head of Reservoir | Prior to end of fall/winter RO operations | yearling | 5000 | 12 mm |
| 2/1/2024 | Hills Creek Dam tailrace | Prior to end of fall/winter RO operations | yearling | 3000 | 12 mm |
| 2/1/2024 | Hills Creek forebay or mid-reservoir | Prior to end of fall/winter RO operations | yearling | 5000 | 12 mm |
| 2/28/2024 | Fall Creek Dam Head of Reservoir | Prior to beginning of refill | yearling | 5000 | 12 mm |
| 2/28/2024 | Fall Creek Dam Tailrace | Prior to beginning of refill | yearling | 1000 | 12 mm |
| 2/28/2024 | Head of Lookout Point Dam reservoir | Prior to 30-day spill | yearling | 5000 | 12 mm |
| 2/28/2024 | Dexter Dam Tailrace | Prior to 30-day spill | yearling | 2000 | 12 mm |
| 2/28/2024 | Lookout Point Dam Forebay | Prior to 30-day spill | yearling | 5000 | 12 mm |
| 3/31/2024 | Fall Creek Dam Head of Reservoir | After refill is completed | yearling | 5000 | 12 mm |
| 3/31/2024 | Fall Creek Dam Tailrace | After refill is completed | yearling | 1000 | 12 mm |
| 4/1/2024 | Head of Lookout Point Dam reservoir | After 30-day spill/beginning of nighttime spill | yearling | 5000 | 12 mm |
| 4/1/2024 | Dexter Dam Tailrace | After 30-day spill/beginning of nighttime spill | yearling | 2000 | 12 mm |
| 4/1/2024 | Lookout Point Dam Forebay | After 30-day spill/beginning of nighttime spill | yearling | 5000 | 12 mm |

North Santiam

| | | | | | |
|-----------|------------------------|--|-------------|------|-------|
| 2/1/2024 | North Santiam River | Prior to start of Detroit refill | fry | 3750 | 8 mm |
| 2/1/2024 | Breitenbush River | Prior to start of Detroit refill | fry | 3750 | 8 mm |
| 4/1/2024 | Breitenbush River | Prior to start of Detroit spill | fry | 3750 | 8 mm |
| 4/1/2024 | North Santiam River | Prior to start of Detroit spill | fry | 3750 | 8 mm |
| 4/1/2024 | Big Cliff Dam Tailrace | Prior to Detroit reaching 1541 feet (spillway crest elevation) | yearling | 2000 | 12 mm |
| 4/1/2024 | Breitenbush River | Prior to Detroit reaching 1541 feet (spillway crest elevation) | yearling | 2000 | 12 mm |
| 4/1/2024 | North Santiam River | Prior to Detroit reaching 1541 feet (spillway crest elevation) | yearling | 2000 | 12 mm |
| 10/1/2024 | Big Cliff Dam Tailrace | Prior to Detroit Reservoir reaching 1520 feet | subyearling | 8000 | 12 mm |
| 10/1/2024 | Breitenbush River | Prior to Detroit Reservoir reaching 1520 feet | subyearling | 5000 | 12 mm |
| 10/1/2024 | North Santiam River | Prior to Detroit Reservoir reaching 1520 feet | subyearling | 5000 | 12 mm |

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|----------------------|---|---|-------------|------|-------|
| 11/15/2024 | Big Cliff Dam Tailrace | When Detroit reaches 1465 feet | subyearling | 6000 | 12 mm |
| SF McKenzie | | | | | |
| 2/28/2024 | Cougar Dam Forebay | Prior to beginning of spring drawdown | yearling | 2000 | 12 mm |
| 2/28/2024 | Cougar Dam Tailrace | Prior to beginning of spring drawdown | yearling | 1000 | 12 mm |
| 2/28/2024 | Cougar Head of Reservoir | Prior to beginning of spring drawdown | yearling | 2000 | 12 mm |
| 3/30/2024 | Cougar Dam Forebay | After start of drawdown but prior to reaching 1520 feet | yearling | 2000 | 12 mm |
| 3/30/2024 | Cougar Dam Tailrace | After start of drawdown but prior to reaching 1520 feet | yearling | 1000 | 12 mm |
| 3/30/2024 | Cougar Head of Reservoir | After start of drawdown but prior to reaching 1520 feet | yearling | 2000 | 12 mm |
| South Santiam | | | | | |
| 4/1/2024 | Green Peter Head of Reservoir in Middle Santiam River | At the start of the first spring spill block | fry | 2500 | 8 mm |
| 4/1/2024 | Green Peter Head of Reservoir in Quartzville Creek | At the start of the first spring spill block | fry | 2500 | 8 mm |
| 4/1/2024 | Green Peter Dam Tailrace | At the start of Green Peter spring spill | yearling | 1000 | 12 mm |
| 4/1/2024 | Green Peter Reservoir - Forebay | At the start of Green Peter spring spill | yearling | 2000 | 12 mm |
| 4/1/2024 | Green Peter Reservoir - Head of Reservoir, Middle Santiam River | At the start of Green Peter spring spill | yearling | 1000 | 12 mm |
| 4/1/2024 | Green Peter Reservoir - Head of Reservoir, Quartzville Creek | At the start of Green Peter spring spill | yearling | 1000 | 12 mm |
| 4/1/2024 | Green Peter Reservoir - mid reservoir | At the start of Green Peter spring spill | yearling | 2000 | 12 mm |
| 4/1/2024 | South Santiam River - Foster Dam Tailrace | Prior to start of Foster refill | yearling | 4000 | 12 mm |
| 4/1/2024 | South Santiam River above Foster Dam | Prior to start of Foster refill | yearling | 5000 | 12 mm |
| 4/20/2024 | South Santiam River - Foster Dam Tailrace | Post refill operations | yearling | 2000 | 12 mm |
| 4/20/2024 | South Santiam River above Foster Dam | Post refill operations | yearling | 1000 | 12 mm |
| 4/15/2024 | Green Peter Head of Reservoir in Middle Santiam River | At the start of the second spring spill block | fry | 2500 | 8 mm |
| 4/15/2024 | Green Peter Head of Reservoir in Quartzville Creek | At the start of the second spring spill block | fry | 2500 | 8 mm |
| 8/30/2024 | South Santiam River - Foster Dam Tailrace | Undefined - Late August | subyearling | 1000 | 12 mm |
| 8/30/2024 | South Santiam River above Foster Dam | Undefined - Late August | subyearling | 2000 | 12 mm |

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|------------|---|---|-------------|------|-------|
| 9/15/2024 | Green Peter Reservoir - Head of Reservoir, Middle Santiam River | Fall Operations at Green Peter Dam | subyearling | 2500 | 12 mm |
| 9/15/2024 | Green Peter Reservoir - Head of Reservoir, Quartzville Creek | Fall Operations at Green Peter Dam | subyearling | 2500 | 12 mm |
| 10/15/2024 | Green Peter Dam Tailrace | Prior to Green Peter reaching 887 feet. | subyearling | 4000 | 12 mm |
| 10/15/2024 | Green Peter Reservoir - Head of Reservoir, Middle Santiam River | Prior to Green Peter reaching 887 feet. | subyearling | 2500 | 12 mm |
| 10/15/2024 | Green Peter Reservoir - Head of Reservoir, Quartzville Creek | Prior to Green Peter reaching 887 feet. | subyearling | 2500 | 12 mm |
| 10/15/2024 | South Santiam River - Foster Dam Tailrace | Fall operations at Foster Dam | subyearling | 4000 | 12 mm |
| 10/15/2024 | South Santiam River above Foster Dam | Fall operations at Foster Dam | subyearling | 5000 | 12 mm |

BULK MARKING SUMMARY

All brood year 2023 South Santiam stock juvenile Chinook salmon have been PIT tagged and are currently rearing at Willamette Hatchery. Additionally, we have tagged 18,000 out of the 30,000 brood year 2023 North Santiam juvenile Chinook salmon. We plan to tag the remaining 12,000 North Santiam stock in early November.

During the most recent reporting period, we released a total of 17,941 PIT-tagged subyearling Chinook salmon into the South Santiam Basin. Of these, 4,950 subyearlings were released at the head of Green Peter Reservoir, with 2,500 released into the Middle Santiam River on October 8, 2024, and 2,450 released into Quartzville Creek on October 9, 2024. An additional 3,999 subyearlings were released into the Green Peter Dam tailrace on October 10, 2024 (Table 3). These releases are timed to coincide with the fall deep drawdown operations at Green Peter Reservoir.

The following week, we released 4,994 PIT-tagged subyearling Chinook salmon at the head of Foster Reservoir and 3,998 into the Foster Dam tailrace (Table 3). These releases target the fall nighttime spill operations at Foster Dam.

Recaptures

A total of 60 PIT tagged fish from this project were redetected or uploaded to PTAGIS during the most recent reporting period. The largest number of redetections took place at the Green Peter Tailrace rotary screw trap ($n = 27$) and at the Lebanon Dam Spillway instream array ($n = 22$). Since we began releasing fish in May 2023, we estimate that a total of 5,210 PIT tags from this project have been redetected (Table 4).

Table 2. Bulk marking summary statistics. Total number of fish marked (N), mean fork length (FL), mean weight, start date of marking, end date of marking, total mortalities from start of tagging to release, mortality percentage, total shed tags from start of tagging to release, and shed tag percentage.

| Mark Group | N | Mean FL (mm) | Mean Weight (g) | Date Start | Date End | Mort | Mort. % | Sheds | Shed % |
|---|--------|--------------|-----------------|------------|------------|-------|---------|-------|--------|
| Green Peter Head of Reservoir - Middle Santiam | 5,071 | 56.2 | NA | 5/15/2023 | 5/16/2023 | 74 | 1.46 | 32 | 0.63 |
| Green Peter Head of Reservoir - Quartzville Creek | 5,203 | 58.5 | NA | 5/17/2023 | 5/18/2023 | 18 | 0.35 | 19 | 0.37 |
| Lookout Point Head of Reservoir | 10,041 | 63.1 | 2.9 | 5/22/2023 | 5/24/2023 | 39 | 0.39 | 53 | 0.53 |
| Hills Creek Head of Reservoir | 10,117 | 64.7 | 2.9 | 5/30/2023 | 6/1/2023 | 22 | 0.22 | 9 | 0.09 |
| Fall Creek Head of Reservoir | 10,040 | 67.4 | 3.2 | 6/1/2023 | 6/7/2023 | 68 | 0.68 | 30 | 0.3 |
| Detroit Head of Reservoir Breitenbush Arm | 7,530 | 66.9 | 3.6 | 6/13/2023 | 6/14/2023 | 82 | 1.09 | 24 | 0.32 |
| Detroit Head of Reservoir - North Santiam Arm | 7,528 | 66.9 | 3.6 | 6/14/2023 | 6/15/2023 | 83 | 1.10 | 25 | 0.32 |
| Cougar Head of Reservoir | 5,626 | 67.7 | 3.5 | 6/20/2023 | 6/20/2023 | 475 | 8.40 | 44 | 0.78 |
| North Santiam – Fall 23 & Spring 24 Bulk Group | 30,680 | 67.3 | 3.5 | 6/26/2023 | 7/20/2023 | 3,437 | 10.6 | 99 | 0.32 |
| M.F. Willamette – Fall 23 & Spring 24 Bulk Group | 85,233 | NA | NA | 7/26/2023 | 12/7/2023 | 380 | 0.45 | 340 | 0.40 |
| South Santiam – Fall 23 & Spring 2024 Bulk Group | 43,407 | NA | NA | 8/14/2023 | 12/20/2023 | 128 | 0.29 | 101 | 0.23 |
| McKenzie– Fall 23 & Spring 24 Bulk Group | 45,210 | NA | NA | 8/30/2023 | 2/14/2024 | 987 | 2.18 | 60 | 0.13 |
| M.F. Willamette – Additional 51,000 Group | 51,000 | 145.1 | 35.9 | 1/1/2024 | 1/31/2021 | NA | NA | NA | NA |
| Green Peter Head of Reservoir | 5,006 | 50.1 | 1.4 | 3/1/2024 | 3/3/2024 | 17 | 0.33 | 13 | 0.25 |
| Green Peter Head of Reservoir | 5,000 | 54.9 | 1.7 | 3/18/2024 | 3/19/2024 | 12 | 0.23 | 20 | 0.39 |
| Detroit Head of Reservoir North Santiam Arm | 7,500 | 46.7 | 1.2 | 5/13/2024 | 5/15/2024 | 58 | 0.77 | 70 | 0.93 |
| Detroit Head of Reservoir Breitenbush Arm | 7,500 | 46.7 | 1.2 | 5/15/2024 | 5/17/2024 | 58 | 0.77 | 63 | 0.84 |
| South Santiam – Fall 24 and Spring 25 Bulk Group | 45,000 | NA | NA | 6/26/2024 | 7/11/2024 | TBD | TBD | TBD | TBD |
| North Santiam – Fall 24 and Spring 25 Bulk Group | 18,000 | NA | NA | 7/15/2024 | 7/19/2024 | TBD | TBD | TBD | TBD |

Table 3. PIT tagged juvenile Chinook salmon release group summary statistics.

| Basin | Release Location | Release Date | N | Mean Length | Mean Weight | Lifestage |
|-------|-------------------------------|-----------------|-----|-------------|-------------|-----------|
| MFW | Hills Creek Head of Reservoir | 5/18/2023 15:50 | 509 | 55.8 | 1.9 | Fry |

| Basin | Release Location | Release Date | N | Mean Length | Mean Weight | Lifestage |
|-------|---|-----------------|-------|-------------|-------------|-------------|
| MFW | LOP Head of Reservoir - Black Canyon | 5/30/2023 10:30 | 9647 | 63.1 | 2.9 | Fry |
| MFW | Hills Creek Head of Reservoir | 6/5/2023 10:30 | 9784 | 64.7 | 2.8 | Fry |
| MFW | Fall Creek Head of Reservoir - Old Boat Ramp | 6/12/2023 15:00 | 9638 | 67.4 | 3.2 | Fry |
| MFW | LOP Head of Reservoir - Black Canyon | 9/18/2023 8:15 | 4998 | 122.9 | 23.8 | Subyearling |
| MFW | LOP Forebay - Signal Point | 9/18/2023 17:00 | 5002 | 128.3 | 25.1 | Subyearling |
| MFW | LOP Tailrace - Pengra | 9/19/2023 11:30 | 2011 | 128.4 | 25.2 | Subyearling |
| MFW | Fall Creek Head of Reservoir - Old Boat Ramp | 9/28/2023 14:45 | 5006 | 133.5 | 29.1 | Subyearling |
| MFW | Fall Creek Tailrace | 9/28/2023 19:15 | 1001 | 134.8 | 29.8 | Subyearling |
| MFW | Fall Creek Head of Reservoir - Old Boat Ramp | 11/6/2023 15:40 | 4999 | 139.4 | 32.2 | Subyearling |
| MFW | Fall Creek Tailrace | 11/6/2023 19:00 | 1000 | 134.9 | 30.2 | Subyearling |
| MFW | Hills Creek Head of Reservoir | 11/7/2023 15:45 | 4997 | 135.2 | 28.6 | Subyearling |
| MFW | Hills Creek Mid Reservoir - Packard Creek Boat Ramp | 11/8/2023 15:15 | 4998 | 145.3 | 36.9 | Subyearling |
| MFW | Hills Creek Dam Tailrace | 11/9/2023 14:35 | 2969 | 129.6 | 27 | Subyearling |
| MFW | LOP Head of Reservoir - Black Canyon | 1/3/2024 16:45 | 4634 | 143.3 | 33.7 | Yearling |
| MFW | LOP Head of Reservoir - Black Canyon | 1/4/2024 16:30 | 4828 | 143.3 | NA | Yearling |
| MFW | LOP Head of Reservoir - Black Canyon | 1/8/2024 15:40 | 3789 | 143.3 | NA | Yearling |
| MFW | LOP Head of Reservoir - Black Canyon | 1/9/2024 16:15 | 5115 | 143.3 | NA | Yearling |
| MFW | LOP Head of Reservoir - Black Canyon | 1/25/2024 11:30 | 7617 | 143.6 | 34.3 | Yearling |
| MFW | Hills Creek Dam Tailrace | 1/31/2024 14:05 | 24861 | 141.6 | 34.7 | Yearling |
| MFW | Hills Creek Head of Reservoir | 2/6/2024 11:15 | 4963 | 153.8 | 40.9 | Yearling |
| MFW | Hills Creek Mid Reservoir - Packard Creek Boat Ramp | 2/7/2024 10:10 | 5000 | 155.9 | 41.7 | Yearling |
| MFW | Hills Creek Dam Tailrace | 2/7/2024 15:20 | 2998 | 151.3 | 42.8 | Yearling |
| MFW | Fall Creek Head of Reservoir - Old Boat Ramp | 2/20/2024 12:45 | 4993 | 148.4 | 38.9 | Yearling |
| MFW | Fall Creek Tailrace | 2/20/2024 16:05 | 1002 | 150.5 | 39.9 | Yearling |
| MFW | LOP Head of Reservoir - Black Canyon | 2/28/2024 11:30 | 4994 | 141.5 | 34.2 | Yearling |
| MFW | LOP Forebay - Signal Point | 2/28/2024 16:30 | 4988 | 144.2 | 35.9 | Yearling |
| MFW | LOP Tailrace - Pengra | 2/29/2024 11:00 | 1998 | 149.7 | 39.2 | Yearling |
| MFW | Fall Creek Head of Reservoir - Old Boat Ramp | 4/2/2024 11:00 | 2500 | 146 | 37.1 | Yearling |
| MFW | Fall Creek Head of Reservoir - Old Boat Ramp | 4/3/2024 10:55 | 2497 | 154.6 | 43.2 | Yearling |

| Basin | Release Location | Release Date | N | Mean Length | Mean Weight | Lifestage |
|-------|--|------------------|------|-------------|-------------|-------------|
| MFW | Fall Creek Tailrace | 4/3/2024 14:05 | 999 | 159.5 | 44.5 | Yearling |
| MFW | LOP Head of Reservoir - Black Canyon | 4/9/2024 10:35 | 2499 | 150.9 | 41.2 | Yearling |
| MFW | LOP Head of Reservoir - Black Canyon | 4/9/2024 13:00 | 2499 | 150.9 | NA | Yearling |
| MFW | LOP Forebay - Signal Point | 4/10/2024 11:00 | 2500 | 150.7 | 39.7 | Yearling |
| MFW | LOP Forebay - Signal Point | 4/11/2024 11:55 | 2500 | 150.7 | NA | Yearling |
| MFW | LOP Tailrace - Pengra | 4/11/2024 15:25 | 2000 | 149 | 38.9 | Yearling |
| MCK | Cougar Head of Reservoir - Cougar Crossing Bridge | 8/29/2023 11:30 | 5198 | 67.9 | 3.6 | Fry |
| MCK | Cougar Head of Reservoir - Cougar Crossing Bridge | 10/2/2023 14:20 | 5005 | 117.2 | 18.9 | Subyearling |
| MCK | Cougar Head of Reservoir - Cougar Crossing Bridge | 10/2/2023 19:05 | 3006 | 116.7 | 19 | Subyearling |
| MCK | Cougar Head of Reservoir - Cougar Crossing Bridge | 10/18/2023 11:50 | 3977 | 118.4 | 19.8 | Subyearling |
| MCK | Cougar Forebay | 10/18/2023 18:00 | 5010 | 120.8 | 21 | Subyearling |
| MCK | Cougar Tailrace - USGS | 10/19/2023 12:40 | 4000 | 112.5 | 16.8 | Subyearling |
| MCK | Cougar Head of Reservoir - Cougar Crossing Bridge | 11/13/2023 13:15 | 3999 | 121.3 | 23 | Subyearling |
| MCK | Cougar Forebay | 11/14/2023 15:15 | 4995 | 124.6 | 23.8 | Subyearling |
| MCK | Cougar Tailrace - USGS | 11/15/2023 11:45 | 2411 | 120.1 | 21.5 | Subyearling |
| MCK | Cougar Head of Reservoir - Cougar Crossing Bridge | 3/8/2024 11:20 | 4799 | 136.9 | 31 | Yearling |
| MCK | Cougar Forebay | 3/11/2024 11:25 | 4800 | 136.5 | 29.5 | Yearling |
| MCK | Cougar Tailrace - USGS | 3/11/2024 15:10 | 2081 | 129.5 | 25.4 | Yearling |
| SST | Green Peter Head of Reservoir - Quartzville Creek Arm | 5/22/2023 13:00 | 5171 | 58.5 | NA | Fry |
| SST | Green Peter Head of Reservoir - Middle Santiam Arm | 5/22/2023 20:30 | 4961 | 56.2 | NA | Fry |
| SST | Foster Tailrace - South Santiam Hatchery | 8/23/2023 16:30 | 1030 | 115.7 | 18.2 | Subyearling |
| SST | Foster Reservoir Head of Reservoir - Cascadia Covered Bridge | 8/24/2023 10:00 | 2059 | 105.6 | 14.5 | Subyearling |
| SST | Green Peter Head of Reservoir - Quartzville Creek Arm | 9/20/2023 14:00 | 2518 | 113.5 | 19.5 | Subyearling |
| SST | Green Peter Head of Reservoir - Middle Santiam Arm | 9/21/2023 13:40 | 2508 | 117.1 | 20.7 | Subyearling |
| SST | Green Peter Head of Reservoir - Quartzville Creek Arm | 10/3/2023 12:45 | 2502 | 122.8 | 25.1 | Subyearling |
| SST | Green Peter Head of Reservoir - Middle Santiam Arm | 10/4/2023 14:40 | 2516 | 119.6 | 23.8 | Subyearling |
| SST | Green Peter Tailrace - Sunnyside Boat Ramp | 10/9/2023 16:05 | 4002 | 125.9 | 26.4 | Subyearling |
| SST | Foster Reservoir Head of Reservoir - Cascadia Covered Bridge | 10/10/2023 14:20 | 5000 | 125.8 | 24.5 | Subyearling |
| SST | Foster Tailrace - South Santiam Hatchery | 10/11/2023 15:20 | 4000 | 135.2 | 31.8 | Subyearling |

| Basin | Release Location | Release Date | N | Mean Length | Mean Weight | Lifestage |
|-------|--|------------------|------|-------------|-------------|-------------|
| SST | Green Peter Head of Reservoir - Middle Santiam Arm | 2/21/2024 12:00 | 1004 | 164.4 | 51.6 | Yearling |
| SST | Green Peter Head of Reservoir - Quartzville Creek Arm | 2/22/2024 11:45 | 1014 | 150.8 | 40.2 | Yearling |
| SST | Green Peter Mid Reservoir - Thistle Boat Ramp | 2/22/2024 17:45 | 2006 | 153.8 | 42.9 | Yearling |
| SST | Green Peter Mid Reservoir - Thistle Boat Ramp | 2/23/2024 10:40 | 2003 | 159.4 | 46.5 | Yearling |
| SST | Green Peter Tailrace - Sunnyside Boat Ramp | 2/23/2024 14:15 | 1014 | 163.4 | 50.1 | Yearling |
| SST | Green Peter Head of Reservoir - Middle Santiam Arm | 3/6/2024 15:30 | 2506 | 50.1 | 1.4 | Fry |
| SST | Green Peter Head of Reservoir - Quartzville Creek Arm | 3/6/2024 17:30 | 2500 | 51.3 | 1.4 | Fry |
| SST | Foster Reservoir Head of Reservoir - Cascadia Covered Bridge | 3/26/2024 13:30 | 2997 | 156.3 | 44.1 | Yearling |
| SST | Foster Reservoir Head of Reservoir - Cascadia Covered Bridge | 3/27/2024 11:00 | 3001 | 145.3 | 38 | Yearling |
| SST | Foster Tailrace - South Santiam Hatchery | 3/28/2024 13:30 | 3005 | 154.6 | 43.8 | Yearling |
| SST | Foster Tailrace - South Santiam Hatchery | 4/1/2024 12:55 | 2991 | 156 | 44.3 | Yearling |
| SST | Foster Reservoir Head of Reservoir - Cascadia Covered Bridge | 4/4/2024 13:15 | 1908 | 145.4 | 37.2 | Yearling |
| SST | Green Peter Head of Reservoir - Middle Santiam Arm | 4/12/2024 11:50 | 2350 | 52.4 | 1.5 | Fry |
| SST | Green Peter Head of Reservoir - Quartzville Creek Arm | 4/12/2024 13:15 | 2500 | 54.9 | 1.7 | Fry |
| SST | Foster Reservoir Head of Reservoir - Cascadia Covered Bridge | 8/27/2024 13:40 | 2000 | 120.1 | 17.8 | Subyearling |
| SST | Foster Tailrace - South Santiam Hatchery | 8/27/2024 18:55 | 934 | 121.5 | 18.2 | Subyearling |
| SST | Green Peter Head of Reservoir - Quartzville Creek Arm | 9/9/2024 17:55 | 2492 | 120.5 | 18.4 | Subyearling |
| SST | Green Peter Head of Reservoir - Middle Santiam Arm | 9/10/2024 16:35 | 2496 | 122.4 | 19.7 | Subyearling |
| SST | Green Peter Head of Reservoir - Middle Santiam Arm | 10/8/2024 16:00 | 2500 | 130.4 | 23 | Subyearling |
| SST | Green Peter Head of Reservoir - Quartzville Creek Arm | 10/9/2024 15:30 | 2450 | 131.5 | 24.6 | Subyearling |
| SST | Green Peter Tailrace - Sunnyside Boat Ramp | 10/10/2024 15:30 | 3999 | 133.2 | 26.3 | Subyearling |
| SST | Foster Reservoir Head of Reservoir - Cascadia Covered Bridge | 10/15/2024 13:45 | 4994 | 137.5 | 28.6 | Subyearling |
| SST | Foster Tailrace - South Santiam Hatchery | 10/15/2024 19:45 | 3998 | 136.9 | 28.7 | Subyearling |
| NST | Marion Forks Hatchery Escape | 6/16/2023 12:00 | 1247 | 66.5 | 3.4 | Fry |
| NST | Detroit Head of Reservoir - Breitenbush River | 7/13/2023 8:45 | 7000 | 66.8 | 3.6 | Fry |
| NST | Detroit Head of Reservoir - North Santiam River | 7/13/2023 11:35 | 6638 | 67 | 3.6 | Fry |
| NST | Detroit Head of Reservoir - Breitenbush River | 9/26/2023 10:45 | 5002 | 106.5 | 11.8 | Subyearling |
| NST | Detroit Head of Reservoir - North Santiam River | 9/26/2023 16:00 | 4997 | 102.6 | 10.4 | Subyearling |
| NST | Big Cliff Tailrace - Packsaddle Boat Ramp | 9/27/2023 15:30 | 8009 | 106.5 | 11.9 | Subyearling |

| Basin | Release Location | Release Date | N | Mean Length | Mean Weight | Lifestage |
|-------|---|------------------|------|-------------|-------------|-------------|
| NST | Big Cliff Tailrace - Packsaddle Boat Ramp | 11/20/2023 16:50 | 5998 | 112.4 | 16.6 | Subyearling |
| NST | Detroit Head of Reservoir - North Santiam River | 3/20/2024 14:45 | 2000 | 128.4 | 25.5 | Yearling |
| NST | Detroit Head of Reservoir - Breitenbush River | 3/21/2024 11:15 | 2000 | 124 | 21.3 | Yearling |
| NST | Big Cliff Tailrace - Packsaddle Boat Ramp | 3/21/2024 16:30 | 1998 | 129.4 | 24.1 | Yearling |
| NST | Detroit Head of Reservoir - North Santiam River | 5/20/2024 12:00 | 7530 | 47 | 1.2 | Fry |
| NST | Detroit Head of Reservoir - Breitenbush River | 5/20/2024 18:00 | 7491 | 47 | 1.2 | Fry |
| NST | Detroit Head of Reservoir - Breitenbush River | 9/24/2024 15:45 | 5004 | 103.2 | 12.9 | Subyearling |
| NST | Detroit Head of Reservoir - North Santiam River | 9/24/2024 17:35 | 4997 | 104.2 | 13 | Subyearling |
| NST | Big Cliff Tailrace - Packsaddle Boat Ramp | 9/25/2024 16:20 | 7998 | 101.3 | 12.1 | Subyearling |

Table 4. PIT tag recovery summary at established interrogation sites, rotary screw traps (RST), and reservoir sampling locations. Recoveries during screw trap efficiency testing that were recaptured during the test (i.e., within one week of release) are not included in this table. Observation Location descriptions are those that are reported to PTAGIS.

| Observation Location | Capture Method | Total | Reporting Period |
|---|----------------|-------|------------------|
| CGRREG - CGR - Release into the Regulating Channel of the Tailrace within 0.5 km of Dam | Screw Trap | 1,543 | 1 |
| Fall Creek Dam | Screw Trap | 651 | 4 |
| Cougar Dam | Screw Trap | 613 | 0 |
| TWX - Estuary Towed Array (Exp.) | Towed Array | 208 | 0 |
| PD6 - Columbia River Estuary rkm 68 | Instream Array | 203 | 0 |
| Hills Creek Dam | Screw Trap | 189 | 1 |
| LD3 - Lebanon Dam Diversion Bypass | Instream Array | 160 | 1 |
| LOPTUR - LOP - Release into the Turbine Channel of the Tailrace within 0.5 km of Dam | Screw Trap | 153 | 0 |
| PD5 - Columbia River Estuary rkm 62 | Instream Array | 141 | 0 |
| MCKESF - South Fork McKenzie River | Screw Trap | 134 | 0 |
| HCRTAL - HCR - Release into the Tailrace within 0.5 km downstream of Dam | Screw Trap | 126 | 1 |
| LD1 - Lebanon Dam South Ladder | Instream Array | 123 | 2 |
| GPD - Green Peter Dam | Screw Trap | 118 | 0 |

| | | | |
|---|-----------------------------|----|----|
| Dexter Dam | Screw Trap | 93 | 0 |
| Big Cliff Dam | Screw Trap | 90 | 1 |
| LD2 - Lebanon Dam North Ladder | Instream Array | 88 | 0 |
| PD7 - Columbia River Estuary rkm 70 | Instream Array | 84 | 0 |
| LD4 - Lebanon Dam Spillway | Instream Array | 81 | 22 |
| CGRTUR - CGR - Release into the Turbine Channel of the Tailrace within 0.5 km of Dam | Screw Trap | 71 | 0 |
| PD8 - Columbia River Estuary rkm 82 | Instream Array | 62 | 0 |
| MSANTR - Middle Santiam River, Oregon | Screw Trap | 50 | 0 |
| WILRMF - Middle Fork Willamette River | Screw Trap | 42 | 0 |
| Lookout Point Dam | Screw Trap | 37 | 0 |
| GPDTAL - GPD - Release into the Tailrace within 0.5 km downstream of Dam | Screw Trap | 27 | 27 |
| SID - Sauvie Island Dairy Creek | Instream Array | 26 | 0 |
| SSANTR - South Santiam River, Oregon | Screw Trap | 26 | 0 |
| NSANTR - North Santiam River, Oregon | Bypass Sub-Sample | 25 | 0 |
| LOPREG - LOP - Release into the Regulating Channel of the Tailrace within 0.5 km of Dam | Screw Trap | 21 | 0 |
| Lookout Point Dam | Gillnet Fishery or Research | 6 | 0 |
| MSANTR - Middle Santiam River, Oregon | Fyke Net | 5 | 0 |
| NSANTR - North Santiam River, Oregon | Screw Trap | 3 | 0 |
| WILRMF - Middle Fork Willamette River | Fyke Net | 3 | 0 |
| HCRREG - HCR - Release into the Regulating Channel of the Tailrace within 0.5 km of Dam | Screw Trap | 2 | 0 |
| QUARTC - Quartzville Creek, tributary to Middle Santiam River | Fyke Net | 2 | 0 |
| Lookout Point Dam | Fyke Net | 1 | 0 |
| ML1 - Lower Mill Creek (MILL4C) | Instream Array | 1 | 0 |
| MSANTR - Middle Santiam River, Oregon | Gillnet Fishery or Research | 1 | 0 |

RESERVOIR DISTRIBUTION SUMMARY

During the reporting period, reservoir sampling was conducted in the offshore environments of Lookout Point and Green Peter reservoirs using suspended small mesh gill nets (3/8 – 1 inch) (Table 5). Lookout Point Reservoir was sampled during the weeks of September 30, 2024 and October 14, 2024. Green Peter Reservoir was sampled during the week of October 7, 2024.

Sampling effort on Lookout Point Reservoir during the week of September 30, 2024 was restricted to the lower zone of the reservoir due to shallow water depths in the upper and middle zones. Sampling consisted of three days of 24-hour trap sets, requiring four days on the water. Gill nets were set at stations A1 and A1.5 at a depth of 20-22 meters to target 15C on the thermal profile. Over three days of sampling (n=9 gill net sets), 24 hatchery subyearling Chinook salmon, 7 adipose-intact (presumed natural) subyearling Chinook salmon, 4 *O. mykiss*, 4 northern pikeminnow, 105 smallmouth bass, 3 largemouth bass, 7 walleye, 283 black crappie, and 4168 white crappie were captured (Tables 7–9). During the week of October 14, 2024, nets were set at 10-18m depth. The 3/8" and 1/2" mesh panels were bundled to prevent them fishing to reduce non-target small fish catch. This change was initiated in response to extremely high white crappie catches the week of September 30, 2024. Over three days of sampling (n=9 gill net sets), 3 hatchery subyearling Chinook salmon, 3 natural origin Chinook salmon, 3 *O. mykiss*, 6 northern pikeminnow, 35 smallmouth bass, 41 black crappie, 137 white crappie and 14 walleye. None of the hatchery Chinook salmon encountered this reporting period in Lookout Point Reservoir had PIT tags or acoustic tags.

During the week of October 07, 2024, sampling at Green Peter Reservoir involved three days of 24-hour gill net sets, requiring four days on the water. Nets were set in the lower, middle and Quartzville reservoir zones. No nets were set in the upper zone due to shallow depths. Nets were set at 22m depth to target 15C on the thermal profile (Figure 2). Across three days (27 net sets), the catch included 5 subyearling hatchery Chinook salmon, 14 subyearling natural origin Chinook salmon, 4 *O. mykiss*, 1 adult kokanee, 47 bluegill, one yellow bullhead, 12 smallmouth bass, and one largemouth bass (Tables 7–9). Three of the five hatchery Chinook salmon had PIT tags and were recaptures from the bulk-marking project.

No target species were tagged during this reporting period.

Table 5. Start and end date by statistical week.

| Week | Start | End | Reservoir | Net Type | Effort (# sets) | Effort (hrs) |
|------|-----------|-----------|---------------|------------|-----------------|--------------|
| 6 | 2/5/2024 | 2/8/2024 | Lookout Point | Box minnow | 21 | 501 |
| 6 | 2/5/2024 | 2/8/2024 | Lookout Point | Oneida | 7 | 166 |
| 7 | 2/12/2024 | 2/15/2024 | Green Peter | Box minnow | 30 | 710 |
| 7 | 2/12/2024 | 2/15/2024 | Green Peter | Oneida | 12 | 283 |
| 8 | 2/19/2024 | 2/22/2024 | Lookout Point | Box minnow | 27 | 608 |
| 8 | 2/19/2024 | 2/22/2024 | Lookout Point | Oneida | 9 | 203 |
| 9 | 2/26/2024 | 3/4/2024 | Green Peter | Box minnow | 30 | 1680 |
| 9 | 2/26/2024 | 3/4/2024 | Green Peter | Oneida | 12 | 670 |
| 10 | 3/5/2024 | 3/7/2024 | Lookout | Box minnow | 18 | 422 |
| 10 | 3/5/2024 | 3/7/2024 | Lookout | Oneida | 6 | 138 |
| 11 | 3/11/2024 | 3/14/2024 | Green Peter | Box minnow | 30 | 715 |
| 11 | 3/11/2024 | 3/14/2024 | Green Peter | Oneida | 12 | 283 |
| 12 | 3/18/2024 | 3/21/2024 | Lookout Point | Box minnow | 27 | 621 |
| 12 | 3/18/2024 | 3/21/2024 | Lookout Point | Oneida | 9 | 206 |
| 13 | 3/25/2024 | 3/28/2024 | Green Peter | Box minnow | 30 | 700 |

| Week | Start | End | Reservoir | Net Type | Effort (# sets) | Effort (hrs) |
|------|-----------|------------|---------------|--------------|-----------------|--------------|
| 13 | 3/25/2024 | 3/28/2024 | Green Peter | Oneida | 12 | 280 |
| 14 | 4/1/2024 | 4/4/2024 | Lookout Point | box minnow | 27 | 629 |
| 14 | 4/1/2024 | 4/4/2024 | Lookout Point | oneida | 9 | 208 |
| 15 | 4/8/2024 | 4/11/2024 | Green Peter | box minnow | 30 | 711 |
| 15 | 4/8/2024 | 4/11/2024 | Green Peter | oneida | 12 | 283 |
| 16 | 4/15/2024 | 4/18/2024 | Lookout Point | box minnow | 27 | 632 |
| 16 | 4/15/2024 | 4/18/2024 | Lookout Point | oneida | 9 | 209 |
| 17 | 4/22/2024 | 4/25/2024 | Green Peter | box minnow | 30 | 708 |
| 17 | 4/22/2024 | 4/25/2024 | Green Peter | oneida | 12 | 280 |
| 18 | 4/29/2024 | 5/2/2024 | Lookout Point | box minnow | 27 | 657 |
| 18 | 4/29/2024 | 5/2/2024 | Lookout Point | oneida | 9 | 217 |
| 19 | 5/8/2024 | 5/10/2024 | Green Peter | box minnow | 20 | 465 |
| 19 | 5/8/2024 | 5/10/2024 | Green Peter | oneida | 8 | 188 |
| 20 | 5/13/2024 | 5/16/2024 | Lookout Point | box minnow | 27 | 636 |
| 20 | 5/13/2024 | 5/16/2024 | Lookout Point | oneida | 9 | 208 |
| 21 | 5/20/2024 | 5/23/2024 | Green Peter | box minnow | 30 | 707 |
| 21 | 5/20/2024 | 5/23/2024 | Green Peter | oneida | 12 | 283 |
| 22 | 5/27/2024 | 5/30/2024 | Lookout Point | box minnow | 27 | 558 |
| 22 | 5/27/2024 | 5/30/2024 | Lookout Point | oneida | 9 | 207 |
| 23 | 6/3/2024 | 6/6/2024 | Green Peter | box minnow | 30 | 689 |
| 23 | 6/3/2024 | 6/6/2024 | Green Peter | oneida | 12 | 277 |
| 24 | 6/10/2024 | 6/13/2024 | Lookout Point | box minnow | 27 | 619 |
| 24 | 6/10/2024 | 6/13/2024 | Lookout Point | oneida | 9 | 209 |
| 25 | 6/17/2024 | 6/20/2024 | Green Peter | gill net 80' | 26 | 620 |
| 26 | 6/24/2024 | 6/27/2024 | Lookout Point | gill net 80' | 24 | 552 |
| 27 | 7/1/2024 | 7/4/2024 | Green Peter | gill net 80' | 27 | 632 |
| 28 | 7/9/2024 | 7/12/2024 | Lookout Point | gill net 80' | 24 | 547 |
| 29 | 7/15/2024 | 7/18/2024 | Green Peter | gill net 80' | 27 | 648 |
| 30 | 7/22/2024 | 7/25/2024 | Lookout Point | gill net 80' | 24 | 546 |
| 30 | 7/24/2024 | 7/25/2024 | Green Peter | gill net 80' | 8 | 172 |
| 31 | 7/29/2024 | 7/31/2024 | Lookout Point | gill net 80' | 16 | 495 |
| 31 | 7/30/2024 | 7/31/2024 | Green Peter | gill net 80' | 9 | 238 |
| 32 | 8/5/2024 | 8/11/2024 | Lookout | gill net 80' | 7 | 106 |
| 32 | 8/5/2024 | 8/11/2024 | Green Peter | gill net 80' | 26 | 604 |
| 33 | 8/12/2024 | 8/18/2024 | Lookout | gill net 80' | 10 | 230 |
| 33 | 8/12/2024 | 8/18/2024 | Green Peter | gill net 80' | 27 | 637 |
| 34 | 8/19/2024 | 8/25/2024 | Lookout | gill net 80' | 9 | 211 |
| 34 | 8/19/2024 | 8/25/2024 | Green Peter | gill net 80' | 27 | 649 |
| 35 | 8/26/2024 | 9/1/2024 | Green Peter | gill net 80' | 26 | 626 |
| 36 | 9/2/2024 | 9/8/2024 | Lookout Point | gill net 80' | 6 | 144 |
| 37 | 9/9/2024 | 9/15/2024 | Green Peter | gill net 80' | 27 | 627 |
| 38 | 9/16/2024 | 9/19/2024 | Lookout Point | gill net 80' | 8 | 183 |
| 38 | 9/16/2024 | 9/19/2024 | Green Peter | gill net 80' | 18 | 416 |
| 39 | 9/23/2024 | 9/26/2024 | Green Peter | gill net 80' | 25 | 578 |
| 40 | 9/30/2024 | 10/6/2024 | Lookout Point | gill net 80' | 9 | 213 |
| 41 | 10/7/2024 | 10/13/2024 | Green Peter | gill net 80' | 27 | 630 |

| Week | Start | End | Reservoir | Net Type | Effort (# sets) | Effort (hrs) |
|------|------------|------------|---------------|--------------|-----------------|--------------|
| 42 | 10/14/2024 | 10/20/2024 | Lookout Point | gill net 80' | 9 | 204 |

Table 6. Mean surface water temperature measure during each trap net deployment.

| Week | Reservoir | Mean Water Surface Temperature °C |
|------|---------------|-----------------------------------|
| 6 | Lookout Point | 8.0 |
| 7 | Green Peter | 8.2 |
| 8 | Lookout Point | 8.9 |
| 9 | Green Peter | 8.4 |
| 10 | Lookout Point | 8.3 |
| 11 | Green Peter | 8.5 |
| 12 | Lookout Point | 9.6 |
| 13 | Green Peter | 9.7 |
| 14 | Lookout Point | 10.6 |
| 15 | Green Peter | 12.2 |
| 16 | Lookout Point | 11.7 |
| 17 | Green Peter | 13.6 |
| 18 | Lookout Point | 13.6 |
| 19 | Green Peter | 15.1 |
| 20 | Lookout Point | 16.1 |
| 21 | Green Peter | 16.8 |
| 22 | Lookout Point | 17.4 |
| 23 | Green Peter | 18.1 |
| 24 | Lookout Point | 20.3 |
| 25 | Green Peter | 19.5 |
| 26 | Lookout Point | 21.1 |
| 27 | Green Peter | 21.9 |
| 28 | Lookout Point | 24.9 |
| 29 | Green Peter | 25.3 |
| 30 | Lookout Point | 24.4 |
| 30 | Green Peter | 24 |
| 31 | Lookout Point | 23.9 |
| 31 | Green Peter | 24.3 |
| 32 | Lookout Point | 23.1 |
| 32 | Green Peter | 24.9 |
| 33 | Lookout Point | 23.2 |
| 33 | Green Peter | 23.9 |
| 34 | Lookout Point | 21.6 |
| 34 | Green Peter | 23.2 |
| 35 | Green Peter | 22.3 |
| 36 | Lookout Point | 20.7 |
| 37 | Green Peter | 21.7 |
| 38 | Lookout Point | 19 |
| 38 | Green Peter | 20.2 |

| Week | Reservoir | Mean Water Surface Temperature °C |
|-------------|------------------|--|
| 39 | Green Peter | 19.9 |
| 40 | Lookout Point | 18 |
| 41 | Green Peter | 18.4 |
| 42 | Lookout Point | 16.1 |

Table 7. Summary of total catch by reservoir. CHS – Chinook salmon, RBT – *O. mykiss*, CUT - Cutthroat trout, KOK – Kokanee, NPM - Northern Pike minnow, SCU – Sculpin, BLG - Bluegill, LWB – Western Brook Lamprey, BBH- Brown bullhead, YBH – Yellow bullhead, LSS - Large-scale sucker, SMB - Smallmouth Bass, LMB – largemouth bass, BLC – black crappie, WHC – white crappie, WAL – walleye, UNID – unidentified. *Unidentified larval centrarchid.

| Week | Reservoir | CHS | RBT | CUT | KOK | NPM | SCU | BLG | LWB | BBH | YBH | LSS | SMB | LMB | BLC | WHC | WAL | UNID |
|------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 6 | Lookout Point | 4 | 2 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | Green Peter | 7 | 6 | 2 | 0 | 1 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | Lookout Point | 6 | 9 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | Green Peter | 12 | 3 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | Lookout Point | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | Green Peter | 19 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Lookout Point | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | Green Peter | 1 | 1 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | Lookout Point | 1 | 7 | 0 | 0 | 3 | 0 | 0 | 0 | 9 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | Green Peter | 9 | 2 | 4 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 16 | Lookout Point | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | Green Peter | 0 | 1 | 2 | 0 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | Lookout Point | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | Green Peter | 1 | 1 | 0 | 0 | 3 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | Lookout Point | 2 | 6 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | Green Peter | 3 | 0 | 1 | 0 | 17 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | Lookout Point | 0 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | Green Peter | 6 | 0 | 0 | 0 | 3 | 0 | 52 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 24 | Lookout Point | 0 | 2 | 0 | 0 | 0 | 264 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 116* |
| 25 | Green Peter | 19 | 55 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | Lookout Point | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 4 | 0 | 0 | 0 |
| 27 | Green Peter | 1 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 28 | Lookout Point | 14 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 2 | 6 | 0 |
| 29 | Green Peter | 1 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 30 | Lookout Point | 8 | 14 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 1 | 92 | 0 | 0 | 275 | 0 | 0 |
| 30 | Green Peter | 2 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | Lookout Point | 9 | 20 | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 1 | 227 | 2 | 296 | 608 | 40 | 0 |

| Week | Reservoir | CHS | RBT | CUT | KOK | NPM | SCU | BLG | LWB | BBH | YBH | LSS | SMB | LMB | BLC | WHC | WAL | UNID |
|------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|
| 31 | Green Peter | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 32 | Lookout Point | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 514 | 5 | 0 | 546 | 0 | 0 |
| 32 | Green Peter | 3 | 98 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |
| 33 | Lookout Point | 14 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 880 | 3 | 608 | 2875 | 0 | 0 |
| 33 | Green Peter | 24 | 90 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 7 | 0 | 0 | 0 | 0 | 0 |
| 34 | Lookout Point | 14 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 232 | 1 | 97 | 1508 | 0 | 0 |
| 34 | Green Peter | 4 | 61 | 0 | 0 | 1 | 0 | 6 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 35 | Green Peter | 10 | 62 | 0 | 0 | 2 | 0 | 5 | 0 | 0 | 5 | 0 | 25 | 0 | 0 | 0 | 0 | 0 |
| 36 | Lookout Point | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 194 | 3 | 36 | 1387 | 0 | 0 |
| 37 | Green Peter | 26 | 94 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 12 | 0 | 17 | 3 | 0 | 0 | 0 | 0 |
| 38 | Lookout Point | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 577 | 1 | 316 | 2405 | 2 | 0 |
| 38 | Green Peter | 1 | 25 | 0 | 0 | 1 | 0 | 28 | 0 | 0 | 13 | 0 | 71 | 0 | 4 | 0 | 0 | 0 |
| 39 | Green Peter | 20 | 38 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 10 | 0 | 15 | 0 | 0 | 1 | 0 | 0 |
| 40 | Lookout Point | 31 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 3 | 283 | 4168 | 7 | 0 |
| 41 | Green Peter | 19 | 4 | 0 | 1 | 0 | 0 | 47 | 0 | 0 | 1 | 0 | 12 | 1 | 0 | 0 | 0 | 0 |
| 42 | Lookout Point | 6 | 3 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 0 | 41 | 137 | 14 | 0 |

Table 8. Catch summary of target species 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 | yearling | 1 | 1 | 0 | 0 |
| 6 | Lookout Point | CHS-AD | yearling | 0 | 1 | 0 | 0 |
| 6 | Lookout Point | CHS-natural | yearling | 0 | 2 | 1 | 0 |
| 7 | Green Peter | CHS-natural | fry | 1 | 5 | 1 | 0 |
| 7 | Green Peter | RBT-natural | adult | 1 | 0 | 0 | 0 |
| 7 | Green Peter | RBT-natural | yearling | 1 | 0 | 0 | 1 |
| 7 | Green Peter | RBT-natural | fry | 0 | 0 | 3 | 0 |
| 8 | Lookout Point | RBT-natural | yearling | 2 | 4 | 3 | 0 |
| 8 | Lookout Point | CHS-AD | yearling | 0 | 1 | 0 | 0 |
| 8 | Lookout Point | CHS-natural | yearling | 0 | 1 | 4 | 0 |
| 9 | Green Peter | CHS-AD | yearling | 1 | 0 | 0 | 1 |
| 9 | Green Peter | CHS-natural | fry | 0 | 2 | 5 | 1 |
| 9 | Green Peter | CHS-natural | yearling | 0 | 1 | 1 | 0 |
| 9 | Green Peter | RBT-natural | fry | 0 | 0 | 1 | 1 |
| 9 | Green Peter | RBT-natural | yearling | 0 | 0 | 1 | 0 |
| 10 | Lookout Point | RBT-natural | yearling | 0 | 1 | 0 | 0 |
| 10 | Lookout Point | CHS-natural | fry | 0 | 0 | 1 | 0 |
| 10 | Lookout Point | RBT-natural | Adult | 0 | 0 | 1 | 0 |
| 11 | Green Peter | CHS-AD | fry | 1 | 3 | 11 | 3 |
| 11 | Green Peter | CHS-natural | fry | 0 | 0 | 1 | 0 |
| 12 | Lookout Point | CHS-natural | fry | 0 | 1 | 0 | 0 |
| 12 | Lookout Point | CHS-natural | yearling | 0 | 1 | 0 | 0 |
| 12 | Lookout Point | RBT-natural | yearling | 0 | 1 | 1 | 0 |
| 13 | Green Peter | RBT-natural | yearling | 1 | 0 | 0 | 0 |
| 13 | Green Peter | CHS-AD | parr | 0 | 0 | 0 | 1 |
| 14 | Lookout Point | RBT-natural | yearling | 4 | 1 | 2 | 0 |
| 14 | Lookout Point | CHS-natural | yearling | 0 | 0 | 1 | 0 |
| 15 | Green Peter | CHS-natural | fry | 0 | 0 | 0 | 3 |
| 15 | Green Peter | CHS-natural | parr | 0 | 1 | 5 | 0 |
| 15 | Green Peter | RBT-AD | adult | 0 | 1 | 0 | 0 |
| 15 | Green Peter | RBT-natural | yearling | 0 | 0 | 1 | 0 |
| 16 | Lookout Point | CHS-AD | yearling | 1 | 0 | 0 | 0 |
| 16 | Lookout Point | CHS-natural | parr | 0 | 1 | 0 | 0 |
| 16 | Lookout Point | RBT-natural | yearling | 0 | 1 | 1 | 0 |
| 17 | Green Peter | RBT-AD | adult | 1 | 0 | 0 | 0 |
| 18 | Lookout Point | RBT-natural | yearling | 1 | 1 | 3 | 0 |
| 19 | Green Peter | CHS-natural | parr | 0 | 0 | 0 | 1 |
| 19 | Green Peter | RBT-natural | yearling | 0 | 0 | 0 | 1 |
| 20 | Lookout Point | CHS-natural | fry | 0 | 0 | 2 | 0 |

| Week | Reservoir | Species | Lifestage | LOWER | MIDDLE | UPPER | QUARTZVILLE |
|------|---------------|-------------|-------------|-------|--------|-------|-------------|
| 20 | Lookout Point | RBT-AD | yearling | 0 | 0 | 1 | 0 |
| 20 | Lookout Point | RBT-natural | yearling | 0 | 0 | 5 | 0 |
| 21 | Green Peter | CHS-natural | subyearling | 0 | 1 | 0 | 1 |
| 21 | Green Peter | CHS-AD | subyearling | 0 | 0 | 1 | 0 |
| 22 | Lookout Point | RBT-natural | yearling | 0 | 1 | 2 | 0 |
| 23 | Green Peter | CHS-natural | subyearling | 1 | 0 | 1 | 0 |
| 23 | Green Peter | CHS-natural | yearling | 1 | 0 | 0 | 0 |
| 23 | Green Peter | CHS-AD | subyearling | 0 | 0 | 3 | 0 |
| 24 | Lookout Point | RBT-natural | yearling | 1 | 0 | 1 | 0 |
| 25 | Green Peter | CHS-AD | subyearling | 1 | 0 | 0 | 0 |
| 25 | Green Peter | CHS-natural | subyearling | 4 | 4 | 7 | 1 |
| 25 | Green Peter | CHS-natural | yearling | 0 | 0 | 2 | 0 |
| 25 | Green Peter | RBT-AD | adult | 7 | 11 | 33 | 0 |
| 25 | Green Peter | RBT-natural | yearling | 1 | 0 | 2 | 0 |
| 25 | Green Peter | RBT-natural | adult | 0 | 0 | 1 | 0 |
| 26 | Lookout Point | CHS-AD | subyearling | 1 | 0 | 0 | 0 |
| 26 | Lookout Point | CHS-natural | subyearling | 7 | 0 | 0 | 0 |
| 26 | Lookout Point | RBT-AD | adult | 1 | 0 | 0 | 0 |
| 26 | Lookout Point | RBT-natural | adult | 0 | 0 | 1 | 0 |
| 27 | Green Peter | RBT-AD | adult | 7 | 2 | 12 | 0 |
| 27 | Green Peter | CHS-natural | subyearling | 0 | 0 | 1 | 0 |
| 28 | Lookout Point | CHS-AD | subyearling | 4 | 0 | 5 | 0 |
| 28 | Lookout Point | CHS-natural | subyearling | 1 | 1 | 2 | 0 |
| 28 | Lookout Point | CHS-natural | yearling | 1 | 0 | 0 | 0 |
| 28 | Lookout Point | RBT-AD | adult | 1 | 0 | 0 | 0 |
| 28 | Lookout Point | RBT-natural | adult | 4 | 0 | 2 | 0 |
| 28 | Lookout Point | RBT-natural | yearling | 0 | 0 | 1 | 0 |
| 29 | Green Peter | RBT-AD | adult | 7 | 4 | 15 | 0 |
| 29 | Green Peter | RBT-natural | yearling | 1 | 1 | 0 | 1 |
| 29 | Green Peter | CHS-natural | subyearling | 0 | 0 | 0 | 1 |
| 30 | Lookout Point | CHS-AD | subyearling | 6 | 0 | 0 | 0 |
| 30 | Lookout Point | CHS-natural | subyearling | 1 | 0 | 0 | 0 |
| 30 | Lookout Point | CHS-natural | yearling | 1 | 0 | 0 | 0 |
| 30 | Lookout Point | RBT-AD | adult | 4 | 1 | 1 | 0 |
| 30 | Lookout Point | RBT-natural | adult | 5 | 1 | 1 | 0 |
| 30 | Lookout Point | RBT-natural | yearling | 0 | 0 | 1 | 0 |
| 30 | Green Peter | RBT-AD | adult | 3 | 1 | 11 | 3 |
| 30 | Green Peter | RBT-natural | yearling | 1 | 0 | 0 | 0 |
| 30 | Green Peter | CHS-natural | subyearling | 0 | 2 | 0 | 0 |
| 30 | Green Peter | RBT-natural | adult | 0 | 0 | 1 | 0 |
| 31 | Lookout Point | CHS-AD | subyearling | 2 | 0 | 1 | 0 |
| 31 | Lookout Point | CHS-AD | yearling | 1 | 0 | 0 | 0 |
| 31 | Lookout Point | CHS-natural | subyearling | 2 | 1 | 0 | 0 |

| Week | Reservoir | Species | Lifestage | LOWER | MIDDLE | UPPER | QUARTZVILLE |
|------|---------------|-------------|-------------|-------|--------|-------|-------------|
| 31 | Lookout Point | CHS-natural | yearling | 2 | 0 | 0 | 0 |
| 31 | Lookout Point | RBT-AD | adult | 1 | 0 | 0 | 0 |
| 31 | Lookout Point | RBT-natural | adult | 18 | 1 | 0 | 0 |
| 31 | Green Peter | RBT-AD | adult | 16 | 1 | 2 | 0 |
| 31 | Green Peter | RBT-natural | adult | 1 | 0 | 0 | 0 |
| 31 | Green Peter | RBT-natural | yearling | 1 | 0 | 0 | 0 |
| 32 | Lookout Point | CHS-AD | subyearling | 1 | 6 | 0 | 0 |
| 32 | Lookout Point | RBT-natural | adult | 2 | 0 | 0 | 0 |
| 32 | Green Peter | CHS-AD | subyearling | 2 | 0 | 0 | 0 |
| 32 | Green Peter | CHS-natural | subyearling | 1 | 0 | 0 | 0 |
| 32 | Green Peter | RBT-AD | adult | 44 | 13 | 31 | 1 |
| 32 | Green Peter | RBT-AD | yearling | 1 | 0 | 0 | 0 |
| 32 | Green Peter | RBT-natural | adult | 4 | 0 | 1 | 0 |
| 32 | Green Peter | RBT-natural | yearling | 3 | 0 | 0 | 0 |
| 33 | Lookout Point | CHS-AD | subyearling | 11 | 0 | 0 | 0 |
| 33 | Lookout Point | CHS-natural | subyearling | 3 | 0 | 0 | 0 |
| 33 | Lookout Point | RBT-AD | adult | 2 | 0 | 0 | 0 |
| 33 | Lookout Point | RBT-natural | adult | 10 | 0 | 0 | 0 |
| 33 | Green Peter | CHS-AD | subyearling | 1 | 0 | 0 | 0 |
| 33 | Green Peter | CHS-natural | subyearling | 7 | 11 | 2 | 3 |
| 33 | Green Peter | RBT-AD | NA | 37 | 15 | 19 | 6 |
| 33 | Green Peter | RBT-natural | adult | 9 | 1 | 0 | 0 |
| 33 | Green Peter | RBT-natural | yearling | 3 | 0 | 0 | 0 |
| 34 | Lookout Point | CHS-AD | subyearling | 10 | 0 | 0 | 0 |
| 34 | Lookout Point | CHS-AD | yearling | 1 | 0 | 0 | 0 |
| 34 | Lookout Point | CHS-natural | subyearling | 3 | 0 | 0 | 0 |
| 34 | Lookout Point | RBT-AD | adult | 2 | 0 | 0 | 0 |
| 34 | Lookout Point | RBT-natural | adult | 5 | 0 | 0 | 0 |
| 34 | Lookout Point | RBT-natural | yearling | 1 | 0 | 0 | 0 |
| 34 | Green Peter | RBT-AD | adult | 32 | 17 | 6 | 4 |
| 34 | Green Peter | RBT-natural | adult | 1 | 1 | 0 | 0 |
| 34 | Green Peter | CHS-AD | yearling | 0 | 1 | 0 | 0 |
| 34 | Green Peter | CHS-natural | subyearling | 0 | 1 | 1 | 1 |
| 35 | Green Peter | CHS-AD | subyearling | 1 | 2 | 0 | 0 |
| 35 | Green Peter | CHS-natural | subyearling | 2 | 4 | 1 | 0 |
| 35 | Green Peter | RBT-AD | adult | 26 | 17 | 7 | 8 |
| 35 | Green Peter | RBT-natural | adult | 1 | 2 | 0 | 0 |
| 35 | Green Peter | RBT-natural | yearling | 1 | 0 | 0 | 0 |
| 36 | Lookout Point | CHS-AD | subyearling | 3 | 0 | 0 | 0 |
| 37 | Green Peter | CHS-AD | subyearling | 2 | 0 | 1 | 0 |
| 37 | Green Peter | CHS-natural | subyearling | 14 | 1 | 2 | 5 |
| 37 | Green Peter | CHS-natural | yearling | 1 | 0 | 0 | 0 |
| 37 | Green Peter | RBT-AD | Adult | 30 | 38 | 7 | 8 |

| Week | Reservoir | Species | Lifestage | LOWER | MIDDLE | UPPER | QUARTZVILLE |
|------|---------------|-------------|-------------|-------|--------|-------|-------------|
| 37 | Green Peter | RBT-natural | adult | 5 | 5 | 0 | 0 |
| 38 | Lookout Point | CHS-AD | subyearling | 9 | 0 | 0 | 0 |
| 38 | Lookout Point | CHS-natural | subyearling | 3 | 0 | 0 | 0 |
| 38 | Lookout Point | RBT-natural | adult | 1 | 0 | 0 | 0 |
| 38 | Green Peter | CHS-natural | subyearling | 1 | 0 | 0 | 0 |
| 38 | Green Peter | RBT-AD | Adult | 8 | 8 | 4 | 2 |
| 38 | Green Peter | RBT-natural | adult | 1 | 1 | 0 | 0 |
| 38 | Green Peter | RBT-natural | yearling | 0 | 0 | 1 | 0 |
| 39 | Green Peter | CHS-AD | subyearling | 1 | 0 | 0 | 1 |
| 39 | Green Peter | CHS-natural | subyearling | 11 | 4 | 0 | 3 |
| 39 | Green Peter | RBT-AD | Adult | 9 | 18 | 0 | 7 |
| 39 | Green Peter | RBT-natural | adult | 3 | 0 | 0 | 1 |
| 40 | Lookout Point | CHS-AD | subyearling | 24 | 0 | 0 | 0 |
| 40 | Lookout Point | CHS-natural | subyearling | 7 | 0 | 0 | 0 |
| 40 | Lookout Point | RBT-natural | adult | 4 | 0 | 0 | 0 |
| 41 | Green Peter | CHS-AD | subyearling | 2 | 2 | 0 | 1 |
| 41 | Green Peter | CHS-natural | subyearling | 6 | 5 | 0 | 3 |
| 41 | Green Peter | RBT-AD | Adult | 1 | 1 | 0 | 0 |
| 41 | Green Peter | RBT-natural | adult | 2 | 0 | 0 | 0 |
| 42 | Lookout Point | CHS-AD | subyearling | 3 | 0 | 0 | 0 |
| 42 | Lookout Point | CHS-natural | subyearling | 3 | 0 | 0 | 0 |
| 42 | Lookout Point | RBT-AD | adult | 1 | 0 | 0 | 0 |
| 42 | Lookout Point | RBT-natural | adult | 2 | 0 | 0 | 0 |

Table 9. Summary of target species lengths, tags implanted and recaptures. LOP – Lookout Point Reservoir, GPR – Green Peter Reservoir.

| Week | Reservoir | Species | Lifestage | Catch | length_min | length_mean | length_max | # VIE tagged | # PIT tagged | # recap |
|------|-----------|-------------|-----------|-------|------------|-------------|------------|--------------|--------------|---------|
| 6 | LOP | CHS-AD | yearling | 1 | 117 | 117 | 117 | 0 | 0 | 1 |
| 6 | LOP | CHS-natural | yearling | 3 | 80 | 84 | 88 | 0 | 3 | 0 |
| 6 | LOP | RBT-natural | yearling | 2 | 79 | 88 | 97 | 0 | 1 | 0 |
| 7 | GPR | CHS-natural | fry | 7 | 37 | 40.6 | 46 | 7 | 0 | 0 |
| 7 | GPR | RBT-natural | adult | 1 | 305 | 305 | 305 | 0 | 1 | 0 |
| 7 | GPR | RBT-natural | fry | 3 | 35 | 36.7 | 38 | 3 | 0 | 0 |
| 7 | GPR | RBT-natural | yearling | 2 | 149 | 168.5 | 188 | 0 | 2 | 0 |
| 8 | LOP | CHS-AD | yearling | 1 | 174 | 174 | 174 | 0 | 0 | 1 |
| 8 | LOP | CHS-natural | yearling | 5 | 73 | 87.6 | 101 | 0 | 4 | 0 |
| 8 | LOP | RBT-natural | yearling | 9 | 103 | 153.2 | 206 | 0 | 9 | 0 |
| 9 | GPR | CHS-AD | yearling | 2 | 83 | 89 | 95 | 0 | 1* | 2 |
| 9 | GPR | CHS-natural | fry/parr | 8 | 36 | 41.6 | 51 | 8 | 0 | 0 |
| 9 | GPR | CHS-natural | yearling | 2 | 117 | 118.5 | 120 | 0 | 2 | 0 |
| 9 | GPR | RBT-natural | fry | 2 | 34 | 35 | 36 | 1 | 0 | 0 |

| Week | Reservoir | Species | Lifestage | Catch | length_min | length_mean | length_max | # VIE tagged | # PIT tagged | # recap |
|------|-----------|-------------|-----------|-------|------------|-------------|------------|--------------|--------------|---------|
| 9 | GPR | RBT-natural | yearling | 1 | 169 | 169 | 169 | 0 | 1 | 0 |
| 10 | LOP | CHS-natural | fry/parr | 1 | 47 | 47.0 | 47 | 1 | 0 | 0 |
| 10 | LOP | RBT-natural | adult | 1 | 296 | 296.0 | 296 | 0 | 1 | 0 |
| 10 | LOP | RBT-natural | yearling | 1 | 108 | 108.0 | 108 | 0 | 1 | 0 |
| 11 | GPR | CHS-AD | fry/parr | 1 | 56 | 56.0 | 56 | 0 | 0 | 1 |
| 11 | GPR | CHS-natural | fry/parr | 18 | 34 | 41.7 | 58 | 11 | 4 | 0 |
| 12 | LOP | CHS-natural | fry | 1 | 38 | 38 | 38 | 1 | 0 | 0 |
| 12 | LOP | CHS-natural | yearling | 1 | 97 | 97 | 97 | 0 | 1 | 0 |
| 12 | LOP | RBT-natural | yearling | 2** | 107 | 126.5 | 146 | 0 | 0 | 0 |
| 13 | GPR | CHS-AD | fry/parr | 1 | 58 | 58 | 58 | 0 | 0 | 1 |
| 13 | GPR | RBT-natural | yearling | 1** | 157 | 157 | 157 | 0 | 0 | 0 |
| 14 | LOP | CHS-natural | yearling | 1 | 93 | 93 | 93 | 0 | 1 | 0 |
| 14 | LOP | RBT-natural | yearling | 7** | 96 | 148 | 174 | 0 | 0 | 0 |
| 15 | GPR | CHS-natural | fry | 3 | 32 | 37.7 | 42 | 2 | 0 | 0 |
| 15 | GPR | CHS-natural | parr | 6 | 51 | 59.8 | 74 | 0 | 6 | 0 |
| 15 | GPR | RBT-AD | adult | 1 | 229 | 229 | 229 | 0 | 0 | 0 |
| 15 | GPR | RBT-natural | yearling | 1** | 149 | 149 | 149 | 0 | 0 | 0 |
| 16 | LOP | CHS-AD | yearling | 1 | 119 | 119 | 119 | 0 | 0 | 1 |
| 16 | LOP | CHS-natural | parr | 1 | 73 | 73 | 73 | 0 | 1 | 0 |
| 16 | LOP | RBT-natural | yearling | 2 | 145 | 165.5 | 186 | 0 | 1 | 0 |
| 17 | GPR | RBT-AD | adult | 1 | 290 | 290 | 290 | 0 | 0 | 0 |
| 18 | LOP | RBT-natural | yearling | 5 | 135 | 143.8 | 157 | 1 | 5 | 0 |
| 19 | GPR | CHS-natural | parr | 1 | 50 | 50 | 50 | 0 | 1 | 0 |
| 19 | GPR | RBT-natural | yearling | 1 | 116 | 116 | 116 | 0 | 1 | 0 |
| 20 | LOP | CHS-natural | fry | 2 | 43 | 43.5 | 44 | 0 | 1 | 0 |
| 20 | LOP | RBT-AD | yearling | 1 | 169 | 169 | 169 | 0 | 1 | 0 |
| 20 | LOP | RBT-natural | yearling | 5 | 96 | 120 | 138 | 0 | 4 | 0 |
| 21 | GPR | CHS-AD | subyear | 1 | 140 | 140 | 140 | 0 | 0 | 1 |
| 21 | GPR | CHS-natural | subyear | 2 | 65 | 84 | 103 | 0 | 0 | 0 |
| 22 | LOP | RBT-natural | yearling | 3 | 130 | 137.3 | 146 | 0 | 0 | 0 |
| 23 | GPR | CHS-AD | subyear | 3 | 96 | 104 | 113 | 0 | 0 | 2 |
| 23 | GPR | CHS-natural | subyear | 2 | 85 | 86.5 | 88 | 0 | 0 | 0 |
| 23 | GPR | CHS-natural | yearling | 1 | 169 | 169 | 169 | 0 | 0 | 0 |
| 24 | LOP | RBT-natural | yearling | 2 | 131 | 136.5 | 142 | 0 | 0 | 0 |
| 25 | GPR | CHS-AD | subyear | 1 | 134 | 134 | 134 | 0 | 0 | 1 |
| 25 | GPR | CHS-natural | subyear | 16 | 84 | 106.2 | 135 | 0 | 0 | 0 |
| 25 | GPR | CHS-natural | yearling | 2 | 157 | 172.5 | 188 | 0 | 0 | 0 |
| 25 | GPR | RBT-AD | adult | 51 | 213 | 269.2 | 320 | 0 | 0 | 0 |
| 25 | GPR | RBT-natural | adult | 1 | 205 | 205 | 205 | 0 | 0 | 0 |
| 25 | GPR | RBT-natural | yearling | 3 | 158 | 176.7 | 190 | 0 | 0 | 0 |
| 26 | LOP | CHS-AD | subyear | 1 | 103 | 103 | 103 | 0 | 0 | 0 |
| 26 | LOP | CHS-natural | subyear | 7 | 81 | 112.4 | 134 | 0 | 0 | 0 |
| 26 | LOP | RBT-AD | adult | 1 | 320 | 320 | 320 | 0 | 0 | 0 |

| Week | Reservoir | Species | Lifestage | Catch | length_min | length_mean | length_max | # VIE tagged | # PIT tagged | # recap |
|------|-----------|-------------|-----------|-------|------------|-------------|------------|--------------|--------------|---------|
| 26 | LOP | RBT-natural | adult | 1 | 255 | 255 | 255 | 0 | 0 | 0 |
| 27 | GPR | CHS-natural | subyear | 1 | 100 | 100 | 100 | 0 | 0 | 0 |
| 27 | GPR | RBT-AD | adult | 21 | 224 | 287.3 | 315 | 0 | 0 | 0 |
| 28 | LOP | CHS-AD | subyear | 9 | 86 | 107.6 | 141 | 0 | 0 | 0 |
| 28 | LOP | CHS-natural | subyear | 4 | 102 | 123.8 | 149 | 0 | 0 | 0 |
| 28 | LOP | CHS-natural | yearling | 1 | 249 | 249 | 249 | 0 | 0 | 0 |
| 28 | LOP | RBT-AD | adult | 1 | 304 | 304 | 304 | 0 | 0 | 0 |
| 28 | LOP | RBT-natural | adult | 6 | 203 | 252.7 | 312 | 0 | 0 | 0 |
| 28 | LOP | RBT-natural | yearling | 1 | 169 | 169 | 169 | 0 | 0 | 0 |
| 29 | GPR | CHS-natural | subyear | 1 | 98 | 98 | 98 | 0 | 0 | 0 |
| 29 | GPR | RBT-AD | adult | 26 | 257 | 297 | 329 | 0 | 0 | 0 |
| 29 | GPR | RBT-natural | yearling | 3 | 166 | 174.3 | 187 | 0 | 0 | 0 |
| 30 | LOP | CHS-AD | subyear | 6 | 116 | 132.5 | 153 | 0 | 0 | 0 |
| 30 | LOP | CHS-natural | subyear | 1 | 141 | 141 | 141 | 0 | 0 | 0 |
| 30 | LOP | CHS-natural | yearling | 1 | 150 | 150 | 150 | 0 | 0 | 0 |
| 30 | LOP | RBT-AD | adult | 6 | 265 | 325.3 | 375 | 0 | 0 | 0 |
| 30 | LOP | RBT-natural | adult | 7 | 211 | 318.3 | 485 | 0 | 0 | 0 |
| 30 | LOP | RBT-natural | yearling | 1 | 158 | 158 | 158 | 0 | 0 | 0 |
| 30 | GPR | CHS-natural | subyear | 2 | 146 | 159 | 172 | 0 | 0 | 0 |
| 30 | GPR | RBT-AD | adult | 18 | 277 | 299.2 | 330 | 0 | 0 | 0 |
| 30 | GPR | RBT-natural | adult | 1 | 264 | 264 | 264 | 0 | 0 | 0 |
| 30 | GPR | RBT-natural | yearling | 1 | 197 | 197 | 197 | 0 | 0 | 0 |
| 31 | LOP | CHS-AD | subyear | 3 | 101 | 123 | 143 | 0 | 0 | 0 |
| 31 | LOP | CHS-AD | yearling | 1 | 214 | 214 | 214 | 0 | 0 | 0 |
| 31 | LOP | CHS-natural | subyear | 3 | 125 | 136 | 148 | 0 | 0 | 0 |
| 31 | LOP | CHS-natural | yearling | 2 | 235 | 252.5 | 270 | 0 | 0 | 0 |
| 31 | LOP | RBT-AD | adult | 1 | 374 | 374 | 374 | 0 | 0 | 0 |
| 31 | LOP | RBT-natural | adult | 19 | 207 | 273.8 | 370 | 0 | 0 | 0 |
| 31 | GPR | RBT-AD | adult | 19 | 268 | 301.1 | 334 | 0 | 0 | 0 |
| 31 | GPR | RBT-natural | adult | 1 | 263 | 263 | 263 | 0 | 0 | 0 |
| 31 | GPR | RBT-natural | yearling | 1 | 176 | 176 | 176 | 0 | 0 | 0 |
| 32 | LOP | CHS-AD | subyear | 7 | 136 | 142 | 156 | 0 | 0 | 0 |
| 32 | LOP | RBT-natural | adult | 2 | 243 | 244 | 245 | 0 | 0 | 0 |
| 32 | GPR | CHS-AD | subyear | 2 | 185 | 190 | 195 | 0 | 0 | 2 |
| 32 | GPR | CHS-natural | subyear | 1 | 185 | 185 | 185 | 0 | 0 | 0 |
| 32 | GPR | RBT-AD | adult | 89 | 270 | 305.1 | 335 | 0 | 0 | 0 |
| 32 | GPR | RBT-AD | yearling | 1 | 175 | 175 | 175 | 0 | 0 | 0 |
| 32 | GPR | RBT-natural | adult | 5 | 225 | 256.4 | 315 | 0 | 0 | 0 |
| 32 | GPR | RBT-natural | yearling | 3 | 201 | 213.7 | 225 | 0 | 0 | 0 |
| 33 | LOP | CHS-AD | subyear | 11 | 133 | 155.8 | 176 | 0 | 0 | 0 |
| 33 | LOP | CHS-natural | subyear | 3 | 141 | 152.7 | 166 | 0 | 0 | 0 |
| 33 | LOP | RBT-AD | adult | 2 | 320 | 335 | 350 | 0 | 0 | 0 |
| 33 | LOP | RBT-natural | adult | 10 | 218 | 279.1 | 365 | 0 | 0 | 0 |

| Week | Reservoir | Species | Lifestage | Catch | length_min | length_mean | length_max | # VIE tagged | # PIT tagged | # recap |
|------|-----------|-------------|-----------|-------|------------|-------------|------------|--------------|--------------|---------|
| 33 | GPR | CHS-AD | subyear | 1 | 194 | 194 | 194 | 0 | 0 | 1 |
| 33 | GPR | CHS-natural | subyear | 23 | 162 | 189.5 | 208 | 0 | 0 | 1 |
| 33 | GPR | RBT-AD | adult | 77 | 262 | 307.8 | 343 | 0 | 0 | 0 |
| 33 | GPR | RBT-natural | adult | 10 | 232 | 270.4 | 321 | 0 | 0 | 0 |
| 33 | GPR | RBT-natural | yearling | 3 | 142 | 174 | 196 | 0 | 0 | 0 |
| 34 | LOP | CHS-AD | subyear | 10 | 144 | 159.8 | 182 | 0 | 0 | 0 |
| 34 | LOP | CHS-AD | yearling | 1 | 220 | 220 | 220 | 0 | 0 | 0 |
| 34 | LOP | CHS-natural | subyear | 3 | 117 | 152.3 | 180 | 0 | 0 | 1 |
| 34 | LOP | RBT-AD | adult | 2 | 370 | 402 | 434 | 0 | 0 | 0 |
| 34 | LOP | RBT-natural | adult | 5 | 204 | 236.4 | 304 | 0 | 0 | 0 |
| 34 | LOP | RBT-natural | yearling | 1 | 198 | 198 | 198 | 0 | 0 | 0 |
| 34 | GPR | CHS-AD | yearling | 1 | 223 | 223 | 223 | 0 | 0 | 0 |
| 34 | GPR | CHS-natural | subyear | 3 | 155 | 174.3 | 188 | 0 | 0 | 0 |
| 34 | GPR | RBT-AD | Adult | 59 | 269 | 308.8 | 349 | 0 | 0 | 0 |
| 34 | GPR | RBT-natural | adult | 2 | 243 | 246.5 | 250 | 0 | 0 | 0 |
| 35 | GPR | CHS-AD | subyear | 3 | 183 | 192.3 | 202 | 0 | 0 | 1 |
| 35 | GPR | CHS-natural | subyear | 7 | 193 | 200 | 206 | 0 | 0 | 0 |
| 35 | GPR | RBT-AD | Adult | 58 | 270 | 311.5 | 354 | 0 | 0 | 0 |
| 35 | GPR | RBT-natural | adult | 3 | 247 | 254.7 | 268 | 0 | 0 | 0 |
| 35 | GPR | RBT-natural | yearling | 1 | 245 | 245 | 245 | 0 | 0 | 0 |
| 36 | LOP | CHS-AD | subyear | 3 | 139 | 149.7 | 166 | 0 | 0 | 0 |
| 37 | GPR | CHS-AD | subyear | 3 | 112 | 175.7 | 220 | 0 | 0 | 1 |
| 37 | GPR | CHS-natural | subyear | 22 | 200 | 218.2 | 241 | 0 | 0 | 0 |
| 37 | GPR | CHS-natural | yearling | 1 | 270 | 270 | 270 | 0 | 0 | 0 |
| 37 | GPR | RBT-AD | Adult | 83 | 275 | 318 | 355 | 0 | 0 | 0 |
| 37 | GPR | RBT-AD | Juvenile | 1 | 154 | 154 | 154 | 0 | 0 | 0 |
| 37 | GPR | RBT-natural | adult | 10 | 234 | 269.8 | 337 | 0 | 0 | 0 |
| 38 | LOP | CHS-AD | subyear | 9 | 165 | 195.4 | 222 | 0 | 0 | 0 |
| 38 | LOP | CHS-natural | subyear | 3 | 160 | 191.3 | 213 | 0 | 0 | 1 |
| 38 | LOP | RBT-natural | adult | 1 | 221 | 221 | 221 | 0 | 0 | 0 |
| 38 | GPR | CHS-natural | subyear | 1 | 182 | 182 | 182 | 0 | 0 | 0 |
| 38 | GPR | RBT-AD | Adult | 22 | 301 | 317.2 | 333 | 0 | 0 | 0 |
| 38 | GPR | RBT-natural | adult | 2 | 233 | 250.5 | 268 | 0 | 0 | 0 |
| 38 | GPR | RBT-natural | yearling | 1 | 184 | 184 | 184 | 0 | 0 | 0 |
| 39 | GPR | CHS-AD | subyear | 2 | 225 | 237.5 | 250 | 0 | 0 | 2 |
| 39 | GPR | CHS-natural | subyear | 18 | 178.8 | 224.6 | 253 | 0 | 0 | 0 |
| 39 | GPR | RBT-AD | Adult | 34 | 283 | 325.1 | 393 | 0 | 0 | 0 |
| 39 | GPR | RBT-natural | adult | 4 | 275 | 306.2 | 355 | 0 | 0 | 0 |
| 40 | LOP | CHS-AD | subyear | 24 | 151 | 198.2 | 240 | 0 | 0 | 0 |
| 40 | LOP | CHS-natural | subyear | 7 | 160 | 210.3 | 235 | 0 | 0 | 0 |
| 40 | LOP | RBT-natural | adult | 4 | 262 | 307.5 | 340 | 0 | 0 | 0 |
| 41 | GPR | CHS-AD | subyear | 5 | 148 | 189.4 | 253 | 0 | 0 | 3 |
| 41 | GPR | CHS-natural | subyear | 14 | 180 | 229.4 | 252 | 0 | 0 | 0 |

| Week | Reservoir | Species | Lifestage | Catch | length_min | length_mean | length_max | # VIE tagged | # PIT tagged | # recap |
|------|-----------|-------------|-----------|-------|------------|-------------|------------|--------------|--------------|---------|
| 41 | GPR | RBT-AD | Adult | 2 | 314 | 314 | 314 | 0 | 0 | 0 |
| 41 | GPR | RBT-natural | adult | 2 | 200 | 218.5 | 237 | 0 | 0 | 0 |
| 42 | LOP | CHS-AD | subyear | 3 | 179 | 201.3 | 245 | 0 | 0 | 0 |
| 42 | LOP | CHS-natural | subyear | 3 | 200 | 228.3 | 265 | 0 | 0 | 0 |
| 42 | LOP | RBT-AD | adult | 1 | 502 | 502 | 502 | 0 | 0 | 0 |
| 42 | LOP | RBT-natural | adult | 2 | 255 | 286 | 317 | 0 | 0 | 0 |

*One recaptured fish was inadvertently tagged with a 2nd PIT tag. ** Not tagged, awaiting permit modification to allow for tagging RBT (modification has since been granted effective 4/16/2024).

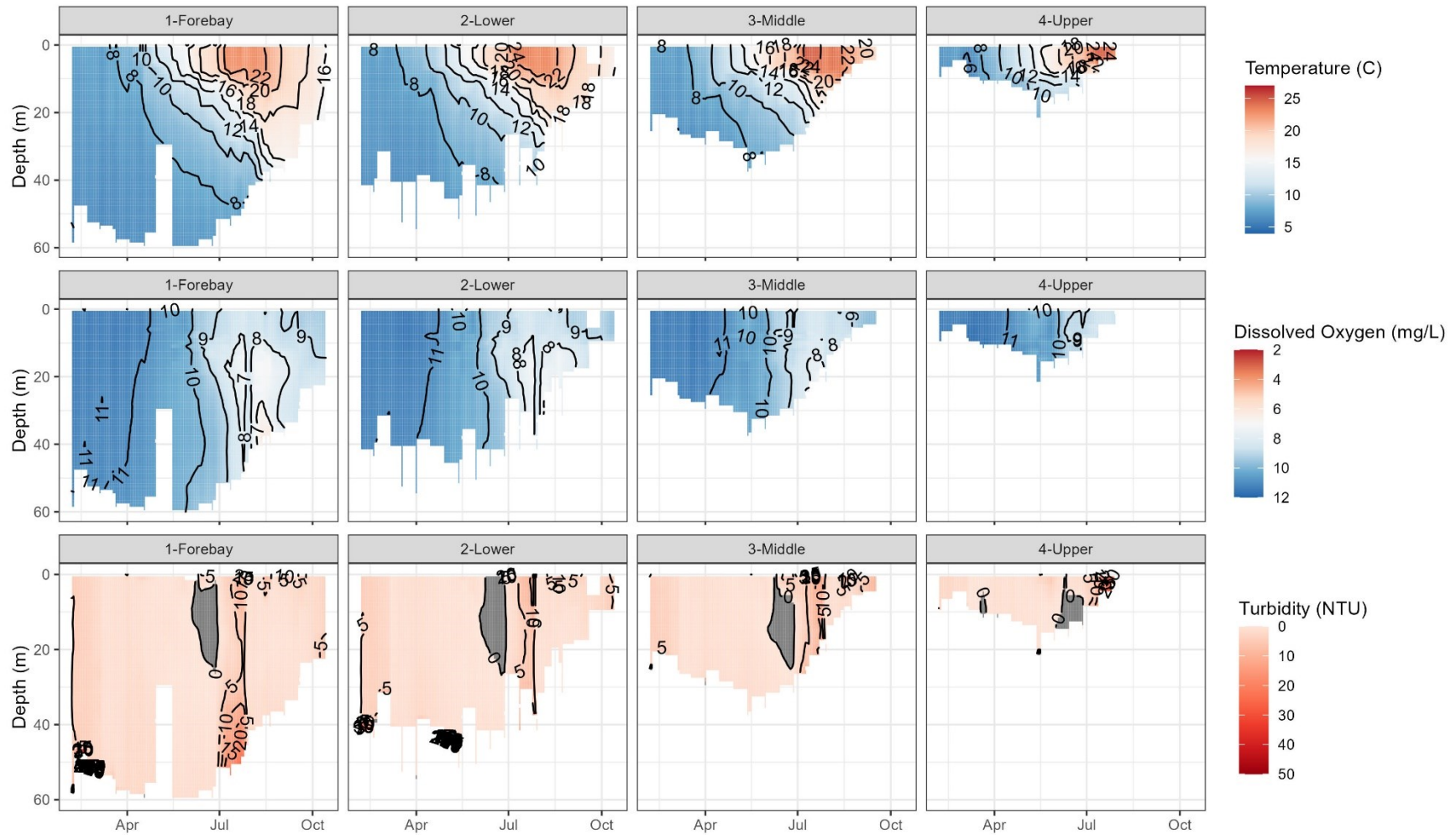


Figure 1. LOP 2024 limnology data. Note that turbidity data in gray are suspect due to a sensor malfunction/calibration issue. Readings in gray were slightly negative (erroneous) but secchi measurements taken concurrently support that turbidity was near zero.

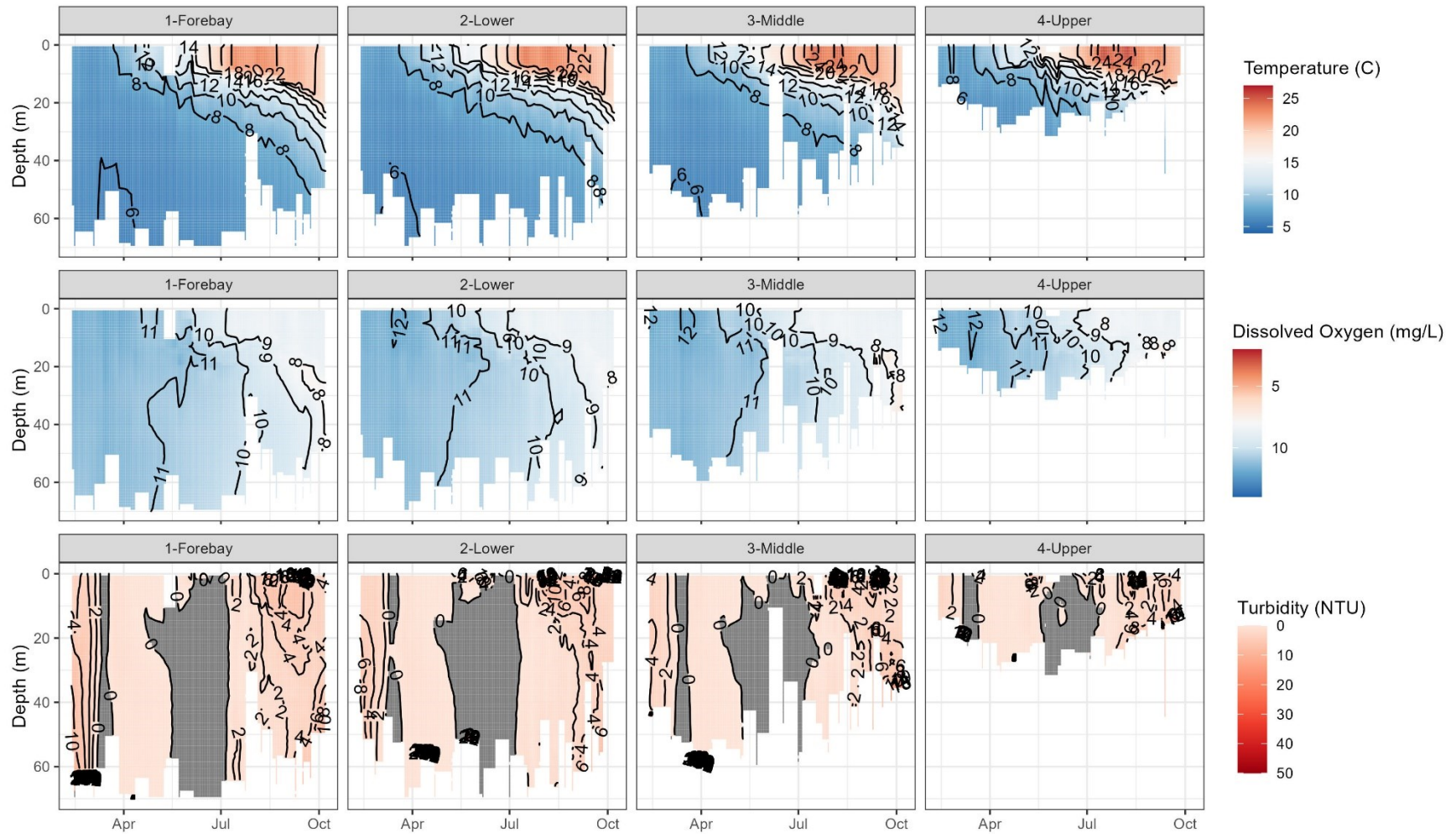


Figure 2. Green Peter 2024 limnology data. Note that turbidity data in gray are suspect due to a sensor malfunction/calibration issue. Readings in gray were slightly negative (erroneous) but secchi measurements taken concurrently support that turbidity was near zero.

Appendix A. Release Site Maps

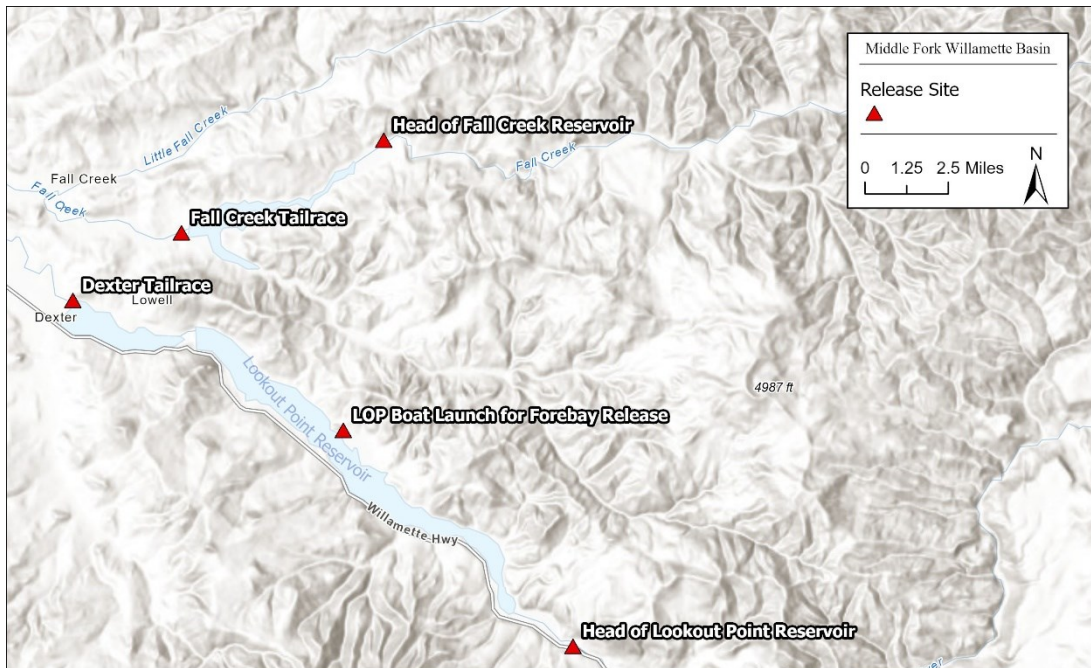


Figure A1. Map of LOP, Dexter tailrace and Fall Creek release locations within the Middle Fork Willamette Basin.

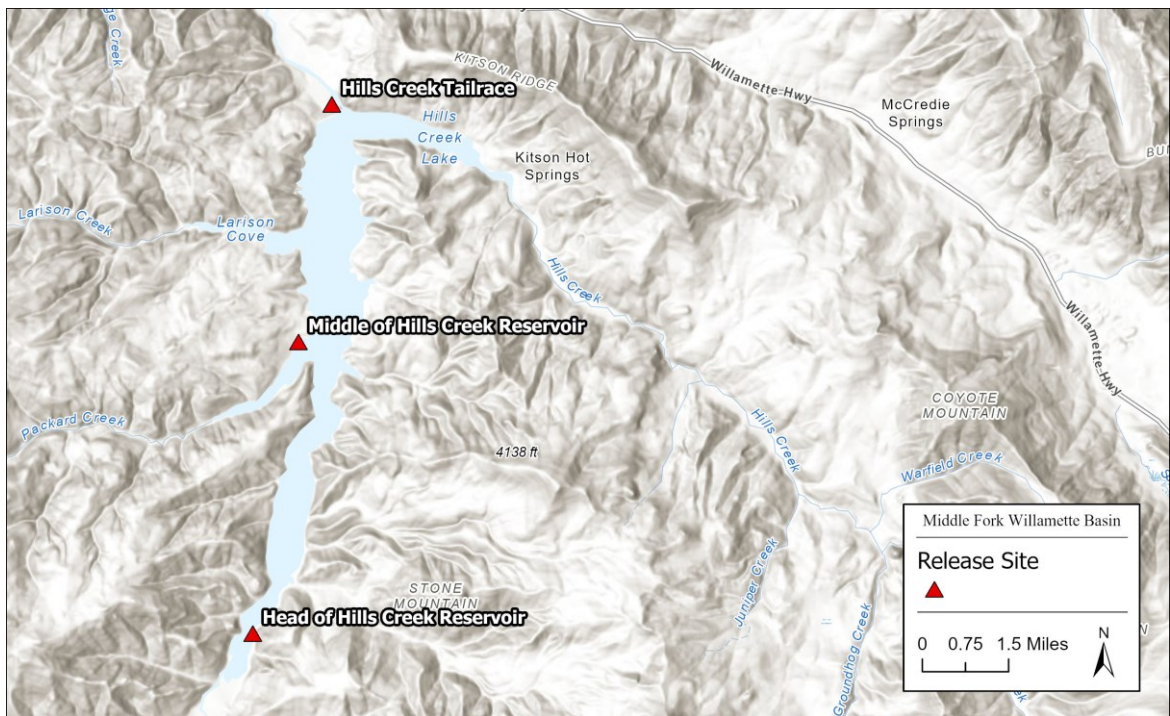


Figure A2. Map of Hills Creek Reservoir release locations within the Middle Fork Willamette Basin.

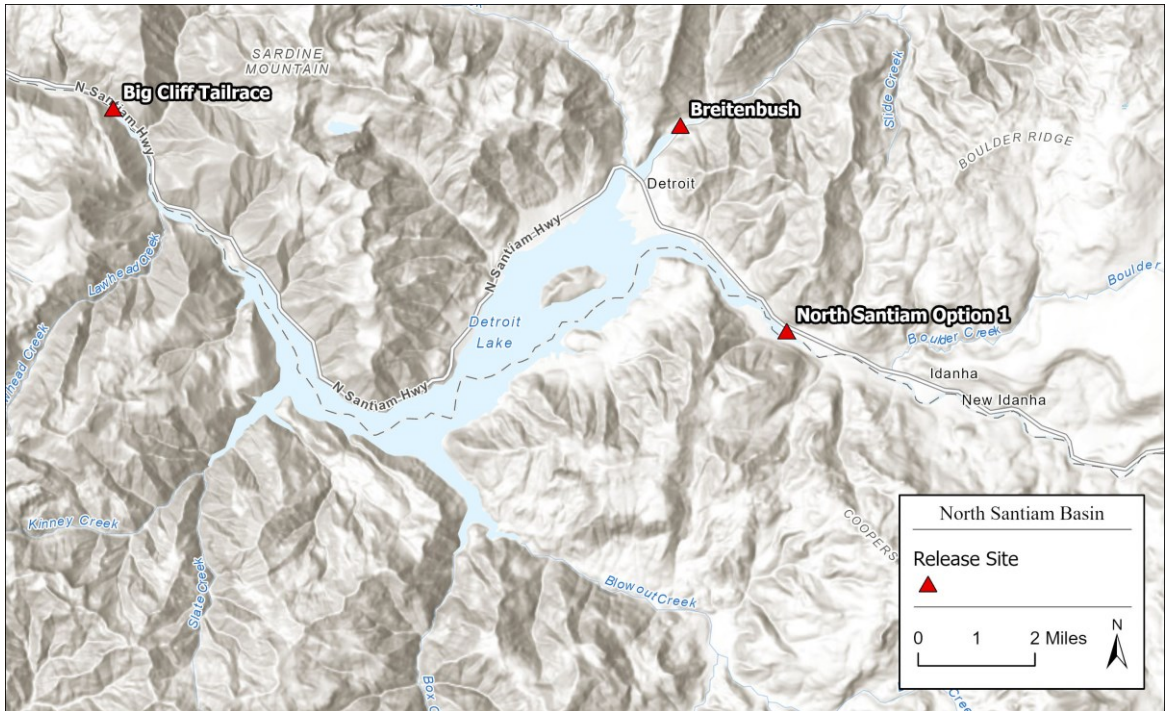


Figure A3. Map of release locations within the North Santiam Basin.

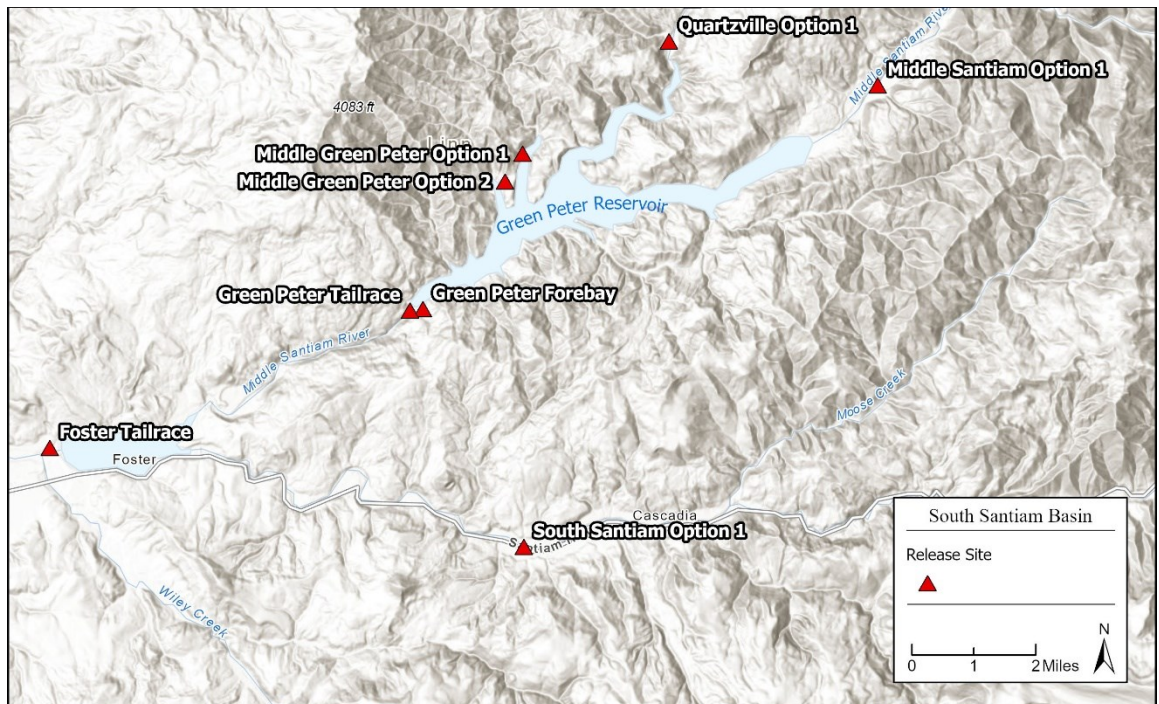


Figure A4. Map of release locations in the Middle/South Santiam basin including Green Peter Reservoir.

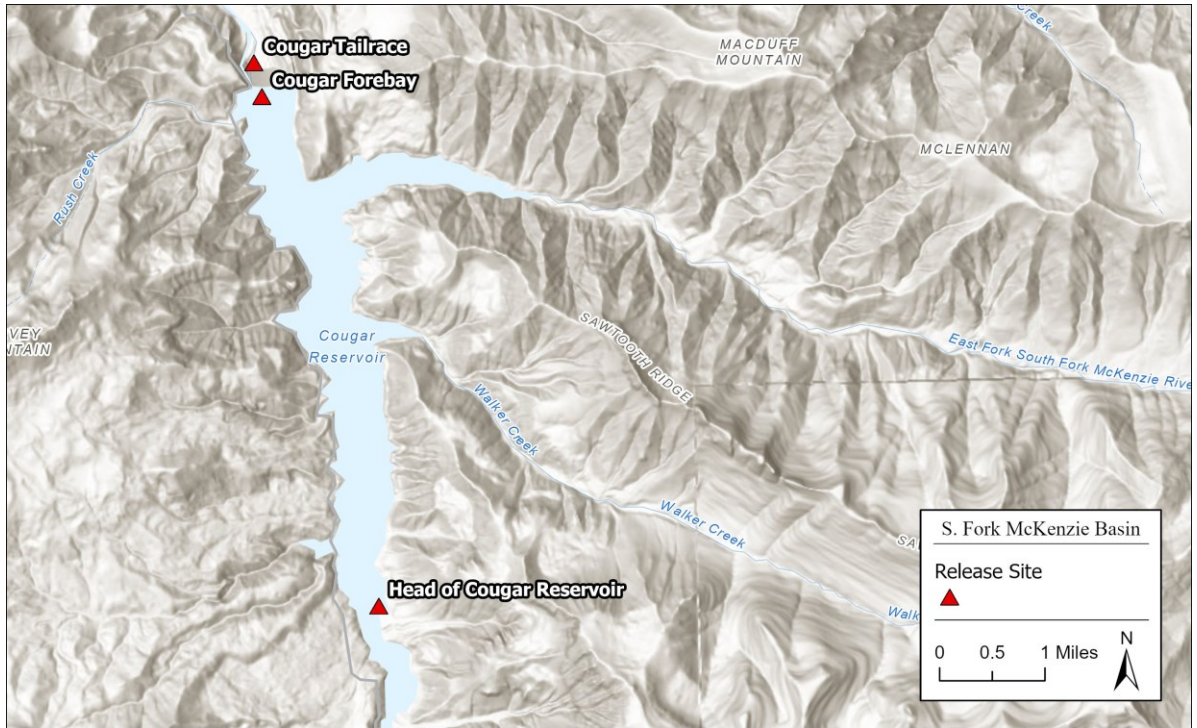


Figure A5. Map of release locations at Cougar Reservoir.

Appendix B. Reservoir Sampling Zones

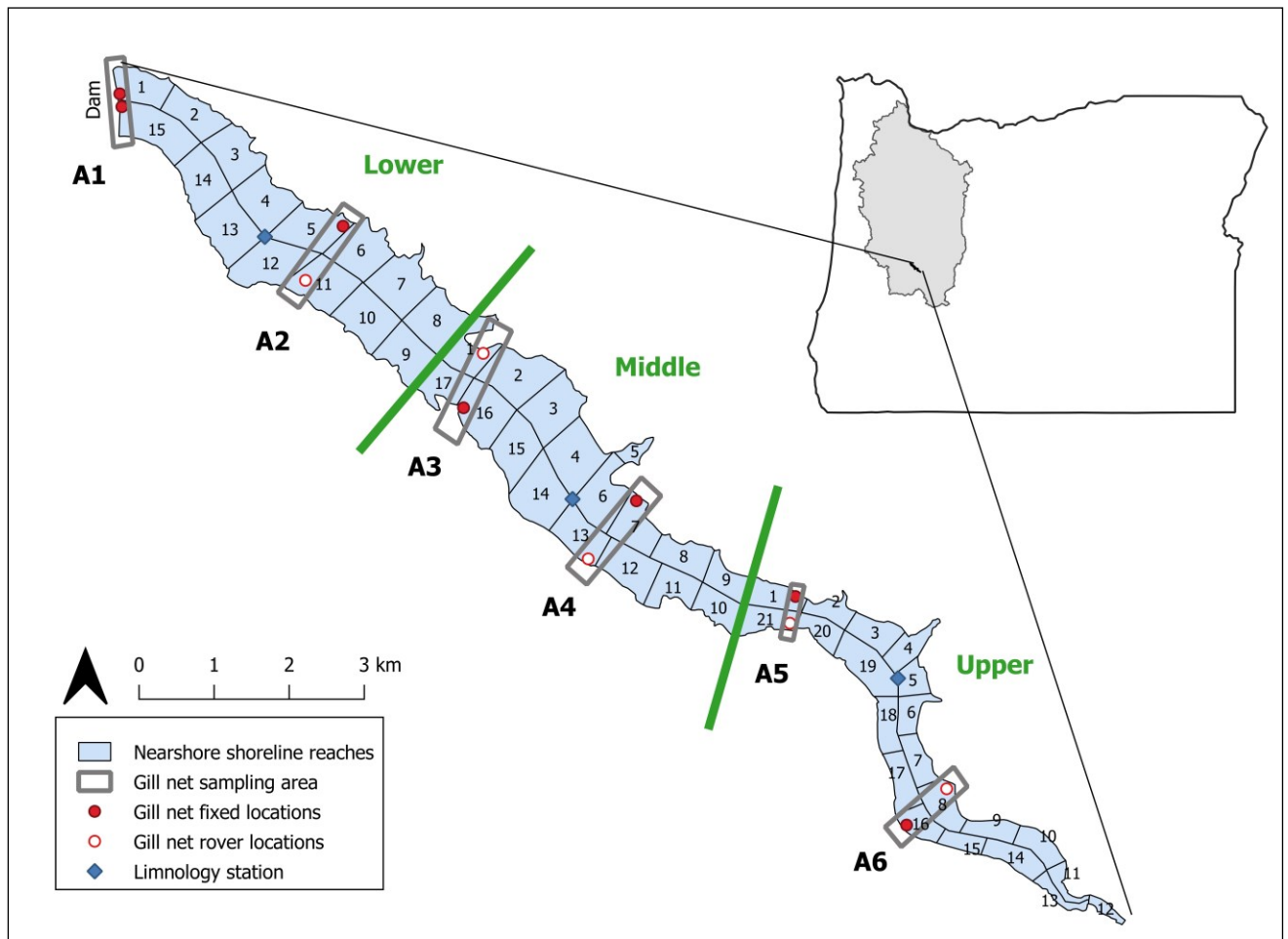


Figure B1. Map of LOP Reservoir nearshore shoreline reaches, reservoir zones (lower, middle and upper), gill netting sampling areas and limnological stations.

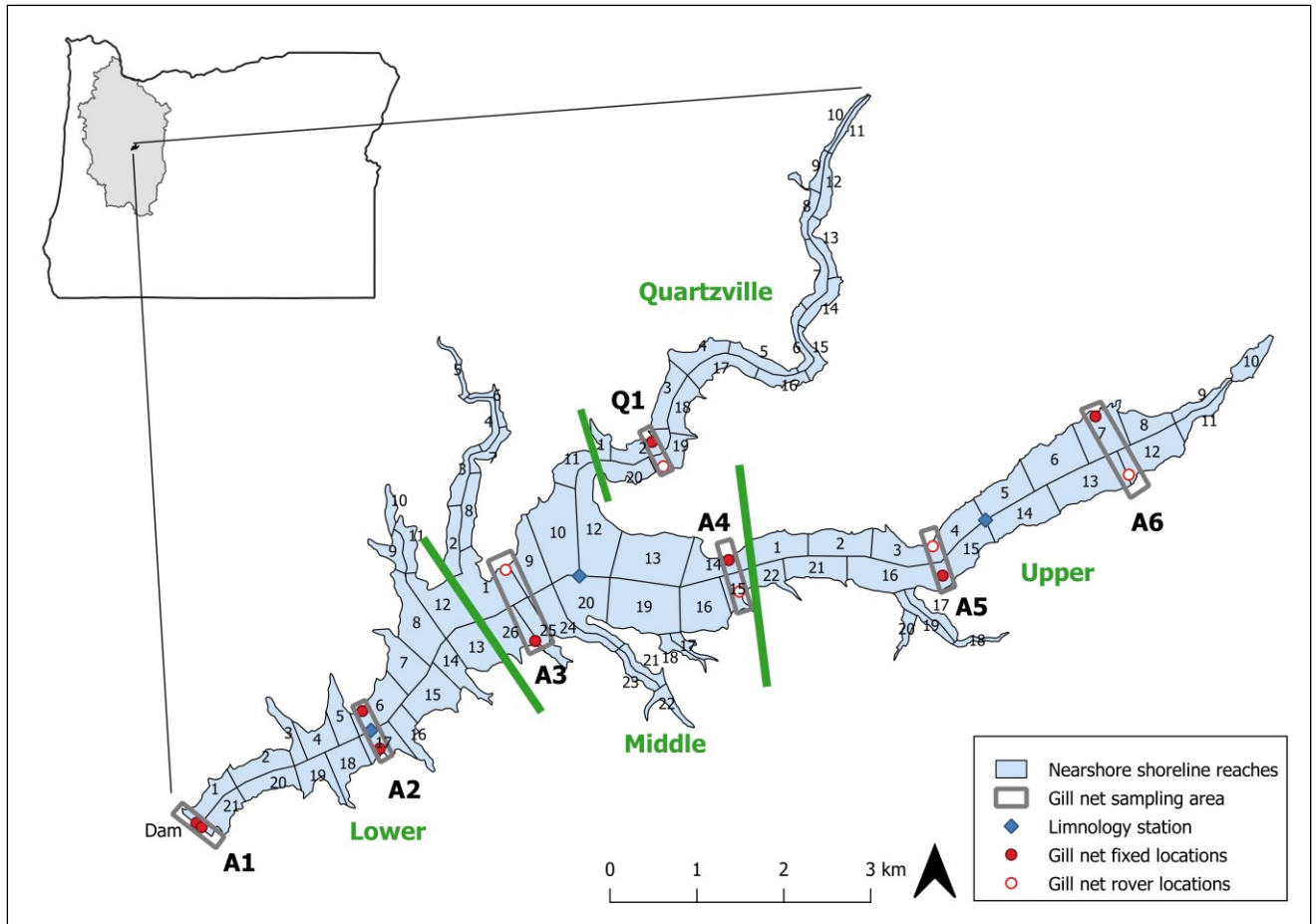


Figure B2. Map of Green Peter Reservoir nearshore shoreline reaches, reservoir zones (lower, middle and upper), gill netting sampling areas and limnological stations.

Appendix C. Hatchery Fish Sourced from ODFW Hatcheries

Table C1. Total brood year 2023 ODFW hatchery fish used for rotary screw trap efficiency tests (EAS) and for the bulk marking project (CFS) through October 15, 2024.

| Brood Year 2023 - Juvenile Chinook for RM&E | | | | | | | |
|---|-------------|--|-------------------------------|------------------|------------------|------------|-----------------|
| Subbasin | Life Stage | Pickup Timing Bulk Releases ¹ | Total Allocation ² | Total Used (EAS) | Total Used (CFS) | Total Used | Total Remaining |
| North Santiam (21H) | Fry | Late February - April 2024 | 16500 | 0 | 15027 | 15027 | 1473 |
| | Subyearling | September - November 2024 | 47000 | 11140 | 17999 | 29139 | 17861 |
| | Yearling | February 2025 | 17000 | 0 | 0 | 0 | 17000 |
| | All | NA | 80500 | 11140 | 15027 | 26167 | 54333 |
| South Santiam (24H) | Fry | Late February - April 2024 | 11000 | 0 | 9856 | 9856 | 1144 |
| | Subyearling | August - October 2024 | 70000 | 18,750 | 25,863 | 44613 | 25387 |
| | Yearling | February 2025 | 40000 | 0 | 0 | 0 | 40000 |
| | All | NA | 121000 | 18750 | 35719 | 54469 | 66531 |
| McKenzie (23H) | Fry | February-April 2024 | 1,900 | 0 | 0 | 0 | 1900 |
| | Subyearling | September-November 2024 | 4,500 | 5000 | | 5000 | -500 |
| | Yearling | February-March 2025 | 0 | 0 | 0 | 0 | 0 |
| | All | NA | 6400 | 5,000 | 0 | 5000 | 1400 |
| M. Fork Willamette (22H) | Fry | February-May 2024 | 0 | 0 | 0 | 0 | 0 |
| | Subyearling | August-November 2024 | 8,000 | 8000 | | 8000 | 0 |
| | Yearling | January-February 2025 | 0 | 0 | 0 | 0 | 0 |
| | All | NA | 8000 | 8000 | 0 | 8000 | 0 |

1 - Stated pickup timing is for bulk release groups. Fish will be picked up at least once per month year-round for screw trap efficiency trials.

2 - Total numbers includes all fish needed for RM&E purposes per Brood Year (i.e., annual basis) and will come from a combination of 'routine production' and 'additional production for RM&E'. Numbers have been rounded up for general planning purposes as 'extra' fish are needed to account for tagging and holding studies.