

Chum Reintroduction (Brian Alfonse, Crew Leader):

The Clatskanie trap continued to catch consistent numbers of coho smolts, steelhead (>120mm FL), and Cutthroat (160-249 mm FL) throughout this past week. Trap efficiency for steelhead has been good (12%), but for coho smolts (18%) and cutthroat (8%) our efficiency could be a little higher. To improve these catch rates, the Clatskanie trap was moved further upstream and the crew constructed a rock weir to channel flow into the cone. These adjustments increased our cone revolutions from 4 to 7 revs/min. At Big Creek, coho smolt numbers increased slightly from last week and trap efficiency is at a respectable 50% for the past three weeks. We also caught one chum at Big Creek and recaptured it the next day. The Stewart Creek trap caught a record high of 11 coho smolts on Wednesday. This far exceeds our previous record of 3 smolts set last year.

| | Chum | Coho | | Chinook | Steelhead | | | Cutthroat | | | | | Trout |
|---|-------|--------|-------|---------|-----------|--------|------|-----------|--------|---------|---------|------|-------|
| | Fry | Fry | Smolt | Fry | <90 | 90-119 | ≥120 | <90 | 90-119 | 120-159 | 160-249 | ≥250 | Fry |
| Weekly Catch as of : May 6, 2015 | | | | | | | | | | | | | |
| Clatskanie River (screw trap) | | 9 | 778 | | | | 310 | | | 11 | 145 | | 1 |
| Stewart Creek (fry trap) | | 4 | 14 | | | | 1 | | | | | | 3 |
| Big Creek (screw trap) | 1 | | 58 | | | | 21 | | | 3 | 13 | | 3 |
| Season Catch Totals | | | | | | | | | | | | | |
| Clatskanie River (screw trap) | | 30,903 | 3,060 | 415 | 1 | 13 | 704 | | 2 | 34 | 401 | 29 | 8 |
| Stewart Creek (fry trap) | 3,107 | 8,014 | 19 | | | 2 | 1 | 4 | 22 | 4 | 2 | | 49 |
| Big Creek (screw trap) | 2,591 | 2,551 | 178 | | | 1 | 66 | 2 | 7 | 26 | 41 | | 3 |

North Coast (Derek Wiley, Assistant Project Leader):

Despite little in the way of precipitation and extremely low flows, we still continue to catch later winter steelhead at both the NF Nehalem and EF Trask adult traps. Spawning surveys continue to show impressive redd counts in both basins, particularly in the NF Nehalem where our census of mainstem reaches easily give the impression to crew members after a 12 hour field day that nearly every suitable gravel/cobble patch has been used for spawning (sometimes more than once!). Screw trapping is rolling right along as we push into mid-May, with prevailing low water conditions allowing for high trap efficiencies to be observed for many species/size classes. However, water levels are now dropping to a point that will require us to maneuver the lower NF Nehalem screw trap into a modified low water setup and to install Visquine plastic sheeting at the upper trap. We may have to be creative at the EF Trask screw trap as well with the cone now dipping below 4 revolutions/minute. See below for more detailed information on juvenile catch at the screw traps on the NF Nehalem and EF Trask.

Estimates & Interpolated Catch (in Parentheses) through 5/3/15 at the Lower (Total Basin) and Upper (Upper Basin) Screw Traps

| | Species | Size Class | Caught | Marked | Recap | Estimate | 95% CI | Efficiency | | Fork Length (mm) | |
|--------------------|-----------|------------|--------|--------|-------|----------|---------|------------|---------|------------------|--------|
| | | | | | | | | Weighted | Overall | Peak | Season |
| Total Basin | Coho | Fry | 18,716 | 1,328 | 63 | 454,257 | 195,771 | 4.95% | 4.74% | 38.56 | 39.59 |
| | Coho | Smolt | 6,677 | 1,245 | 501 | 15,543 | 1,219 | 43.59% | 40.24% | 103.44 | 100.41 |
| | Chinook | Fry | 19,503 | 1,415 | 75 | 340,324 | 94,082 | 6.80% | 5.30% | 41.72 | 44.34 |
| | Chinook | Fingerling | 169 | 147 | 35 | 684 | 190 | 25.21% | 23.81% | 66.84 | 65.09 |
| | Chinook | All | 19,672 | 1,562 | 110 | 326,538 | 89,117 | 7.12% | 7.04% | | |
| | Steelhead | 60-89mm | 16 | 16 | 2 | (18) | | | 12.50% | | 80.81 |
| | Steelhead | 90-119mm | 77 | 76 | 14 | 443 | 223 | 18.41% | 18.42% | 104.14 | 104.13 |
| | Steelhead | Smolt | 790 | 660 | 106 | 5,059 | 1,060 | 16.08% | 16.06% | 181.32 | 173.21 |
| | Cutthroat | 60-89mm | 17 | 16 | 4 | (19) | | | 25.00% | | 79.50 |
| | Cutthroat | 90-119mm | 52 | 52 | 14 | 231 | 135 | 26.32% | 26.92% | 109.69 | 105.96 |
| | Cutthroat | 120-159mm | 420 | 393 | 60 | 2,722 | 708 | 15.82% | 15.27% | 141.88 | 141.82 |
| | Cutthroat | 160-249mm | 253 | 250 | 28 | 2,414 | 911 | 11.03% | 11.20% | 180.12 | 185.22 |

| | Species | Size Class | Caught | Marked | Recap | Estimate | 95% CI | Efficiency | | Fork Length (mm) | |
|--------------------|-----------|------------|--------|--------|-------|----------|---------|------------|---------|------------------|--------|
| | | | | | | | | Weighted | Overall | Peak | Season |
| Upper Basin | Coho | Fry | 20,245 | 1,286 | 64 | 434,198 | 121,010 | 5.39% | 4.98% | 36.60 | 37.76 |
| | Coho | Smolt | 5,011 | 1,185 | 506 | 10,367 | 731 | 48.97% | 42.70% | 102.16 | 95.19 |
| | Chinook | Fry | 3,782 | 1,103 | 103 | 43,607 | 9,996 | 9.91% | 9.34% | 39.84 | 45.26 |
| | Chinook | Fingerling | 58 | 57 | 26 | 119 | 39 | 49.80% | 45.61% | 64.48 | 63.78 |
| | Chinook | All | 3,840 | 1,160 | 129 | 43,956 | 10,321 | 9.97% | 11.12% | | |
| | Steelhead | 60-89mm | 9 | 9 | 1 | (9) | | | 11.11% | | 82.00 |
| | Steelhead | 90-119mm | 36 | 36 | 3 | (37) | | | 8.33% | | 102.92 |
| | Steelhead | Smolt | 288 | 285 | 30 | 2,818 | 986 | 10.58% | 10.53% | 161.84 | 160.92 |
| | Cutthroat | 60-89mm | 6 | 4 | 0 | (6) | | | 0.00% | | 84.33 |
| | Cutthroat | 90-119mm | 25 | 25 | 6 | (26) | | | 24.00% | | 111.36 |
| | Cutthroat | 120-159mm | 206 | 204 | 37 | 1,158 | 404 | 18.52% | 18.14% | 141.16 | 141.54 |
| | Cutthroat | 160-249mm | 64 | 64 | 11 | 404 | 245 | 17.21% | 17.19% | 172.48 | 177.22 |

Estimates & Interpolated Catch (in Parentheses) through 5/3/15 at the EF Trask Screw trap

| | Species | Size Class | Caught | Marked | Recap | Estimate | 95% CI | Efficiency | | Fork Length (mm) | |
|-----------------|-----------|------------|--------|--------|-------|----------|--------|------------|---------|------------------|--------|
| | | | | | | | | Weighted | Overall | Peak | Season |
| EF Trask | Coho | Fry | 7,253 | 1,865 | 105 | 140,240 | 27,526 | 5.59% | 5.63% | 39.44 | 40.02 |
| | Coho | Smolt | 473 | 397 | 162 | 1,142 | 159 | 42.83% | 40.81% | 114.40 | 103.19 |
| | Chinook | Fry | 3,193 | 1,611 | 74 | 74,492 | 17,295 | 4.66% | 4.59% | 42.96 | 43.88 |
| | Chinook | Fingerling | 6 | 6 | 0 | (6) | | | 0.00% | | 64.33 |
| | Chinook | All | 3,199 | 1,617 | 74 | 75,015 | 17,542 | 4.64% | 4.58% | | |
| | Steelhead | 60-89mm | 5 | 5 | 1 | (6) | | | 20.00% | | 85.00 |
| | Steelhead | 90-119mm | 26 | 26 | 4 | (27) | | | 15.38% | | 101.28 |
| | Steelhead | Smolt | 641 | 559 | 67 | 6,048 | 2,033 | 11.20% | 11.99% | 178.80 | 173.85 |
| | Cutthroat | 60-89mm | 4 | 4 | 1 | (4) | | | 25.00% | | 85.50 |
| | Cutthroat | 90-119mm | 50 | 46 | 4 | (52) | | | 8.70% | | 108.58 |
| | Cutthroat | 120-159mm | 214 | 207 | 31 | 1,645 | 778 | 14.16% | 14.98% | 140.56 | 136.72 |
| | Cutthroat | 160-249mm | 90 | 90 | 10 | 880 | 480 | 10.99% | 11.11% | 186.64 | 186.35 |

Mid Coast (Chris Lorion, Assistant Project Leader):

The beautiful, sunny weather continues, and with no significant rain in sight we are having to pull out all the stops to keep our traps turning and fishing well. At Cascade Creek, we have just about run out of options, so we will fire up the motor this weekend. It appears that we are now past the peak in coho smolt numbers there, but we are still catching 30-80 smolts per day, along with good numbers of cutthroat trout and a handful of coho fry. At the Lobster Creek sites, coho smolt numbers have been holding pretty steady and the coho fry made a big comeback this week. It is not unusual to see a lot of fry in May at the Lobster Creek sites, which have a very late spawning component, but we were surprised to catch over 9,000 coho fry at the traps in the past two days. Richard is adding to his resume for induction to the Coho Salmon Monitoring Hall of Fame as the all-time leader in fry handled at a smolt trap. The coho smolts at the Mill Creek sites have also decided that it's time to move, and we are now catching 40-50 coho smolts per day at Mill Creek-Yaquina and 80-100 smolts per day at Mill Creek-Siletz with trap efficiencies over 50% at both sites. At Tenmile Creek, coho and steelhead smolt numbers have been holding steady, and we're consistently catching adult Pacific lamprey in the trap. Most of these lamprey are spawned-out, but we've also seen some nice, fresh fish that look like they just came out of the ocean.

Mid-South Coast (Pat Burns, Assistant Project Leader):

West Fork Smith:

Flows at the smolt trap site have been dropping fast. The trap rpm was at 2.5 early this week which meant taking the Winchester Creek motor and deploying on site. The catch of coho smolts remains steady with an average of 150 coho smolts caught per day. The trap efficiency for the week has fallen to below 30%. Plywood wings and boulders were positioned to direct as much flow into the drum as possible. When you look at the trap now it's hard to imagine it won't catch everything coming down.

Spawning ground surveys continue with very little activity being recorded. Any activity recorded has been on the mainstem surveys. We will continue on with the surveys to record any late steelhead spawning activity and maybe the beginning of Pacific lamprey activity.

Winchester Creek:

As indicated above we had to remove the motor and deploy it up on the West Fork Smith. The catch at the trap site was slowing down averaging three coho a day. Without the motor the flow is insufficient to turn the trap.

N Scappoose Creek (Ron Constable, Assistant Project Leader):

This week we continued to see good smolt numbers and had awesome recapture rates. We caught 216 coho smolts, marked 135, and recaptured 89. Thirty steelhead smolts were caught, all were marked and 14 were recaptured. We are still catching larger (119mm +) cutthroat in good numbers too; 24 were caught this week with 15 recaps. Four adult Pacific Lamprey were also caught. The trap is still spinning at 5.5 rpms, but without rain it can only fish this well for so long. Next week we will decommission the adult trap for the season, barring any surprise runs of adult steelhead.