

**Estimated Abundance of Wild Adult Coho Spawners in the Oregon Coast Coho ESU**  
 Based on GRTS Random Sampling Sites for Rivers, Dam count for N. Umpqua, and Traditional Surveys for Lakes.

05/08/24

Data Source:	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.
Geographic Scale	Spawner Abundance by Return Year																			
ESU / Strata / Population	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
<b>North Coast Strata:</b>																				
Necanicum River	2,198	1,218	750	431	1,055	3,827	4,445	2,120	902	798	5,727	847	936	529	393	698	No Est.	No Est.	No Est.	1,637
Nehalem River	18,736	10,451	11,614	14,033	17,205	21,753	32,215	15,322	2,963	4,539	30,577	3,079	7,549	5,486	4,190	12,383	No Est.	No Est.	No Est.	14,388
Tillamook Bay	2,532	1,995	8,774	2,295	4,828	16,251	14,890	19,250	1,686	4,402	20,090	1,345	7,102	2,927	2,035	3,961	No Est.	No Est.	No Est.	13,325
Nestucca River	4,695	686	1,876	394	1,844	4,252	1,947	7,857	1,751	946	6,369	1,029	2,412	4,495	1,072	4,602	No Est.	No Est.	No Est.	3,894
NC Dependents	661	2,116	1,121	376	639	2,052	1,473	1,341	218	271	4,607	440	699	206	262	616	No Est.	No Est.	No Est.	1,893
<b>Total</b>	<b>28,822</b>	<b>16,466</b>	<b>24,135</b>	<b>17,529</b>	<b>25,571</b>	<b>48,135</b>	<b>54,970</b>	<b>45,890</b>	<b>7,520</b>	<b>10,956</b>	<b>67,370</b>	<b>6,740</b>	<b>18,698</b>	<b>13,643</b>	<b>7,952</b>	<b>22,260</b>	<b>21,480</b>	<b>42,811</b>	<b>52,956</b>	<b>35,137</b>
<b>Mid Coast Stratum:</b>																				
Salmon River	1,642	79	513	59	652	753	1,382	3,636	297	1,165	3,680	332	1,054	450	103	215	No Est.	571	1,324	1,249
Siletz River	8,179	14,567	5,205	2,197	20,634	24,070	6,283	33,094	4,495	7,660	19,496	2,216	3,015	5,202	4,064	4,509	No Est.	15,428	16,466	5,410
Yaquina River	5,539	3,441	4,247	3,158	10,913	11,182	8,589	19,074	6,268	3,553	25,582	2,400	3,730	2,491	4,672	3,452	No Est.	16,721	6,484	5,833
Beaver Cr	4,569	2,264	1,950	611	1,218	3,575	2,072	2,389	1,878	4,015	6,564	332	1,709	1,553	494	814	No Est.	2,483	2,058	943
Alesea River <sup>a</sup>	5,233	13,907	1,972	2,146	13,320	14,638	9,688	28,337	8,470	9,283	25,855	6,185	7,375	4,377	5,112	4,915	No Est.	13,633	19,141	7,653
Siuslaw River	8,729	16,907	5,869	3,552	17,491	30,607	25,983	28,082	11,946	14,118	38,896	10,352	9,141	7,129	6,635	5,881	No Est.	38,031	24,892	21,391
MC Dependents	8,179	246	1,468	546	3,910	1,610	2,548	4,487	492	1,929	1,890	856	464	1,646	958	289	No Est.	1,747	1,568	83
<b>Total</b>	<b>42,070</b>	<b>51,411</b>	<b>21,224</b>	<b>12,269</b>	<b>68,138</b>	<b>86,435</b>	<b>56,545</b>	<b>119,099</b>	<b>33,846</b>	<b>39,723</b>	<b>121,963</b>	<b>22,673</b>	<b>26,488</b>	<b>22,848</b>	<b>22,038</b>	<b>20,075</b>	<b>30,825</b>	<b>88,614</b>	<b>71,933</b>	<b>42,562</b>
<b>Umpqua Stratum:</b>																				
Lower Umpqua River	8,989	18,591	7,994	4,237	9,023	19,245	17,516	18,715	3,731	7,792	36,942	3,725	4,422	10,848	14,080	9,152	No Est.	23,714	6,448	5,263
Middle Umpqua River	6,375	7,608	4,852	1,587	4,472	15,075	18,123	19,962	2,447	4,272	13,939	2,245	1,159	1,788	3,888	3,104	No Est.	6,354	1,665	9,652
North Umpqua River <sup>b</sup>	3,559	1,969	3,000	1,410	3,438	7,720	9,397	6,020	3,134	2,774	3,979	3,012	1,148	1,772	2,942	3,299	3,003	4,795	1,519	7,071
South Umpqua River	10,997	14,364	2,246	4,549	20,935	15,944	24,983	49,958	11,636	12,178	11,412	5,878	765	1,084	3,125	3,600	No Est.	14,403	0	8,810
<b>Total</b>	<b>29,920</b>	<b>42,532</b>	<b>18,092</b>	<b>11,783</b>	<b>37,868</b>	<b>57,984</b>	<b>70,019</b>	<b>94,655</b>	<b>20,948</b>	<b>27,016</b>	<b>66,272</b>	<b>14,860</b>	<b>7,494</b>	<b>15,492</b>	<b>24,035</b>	<b>19,155</b>	<b>33,644</b>	<b>49,266</b>	<b>9,632</b>	<b>30,796</b>
<b>Lakes Stratum:<sup>c</sup></b>																				
Sillcoos	7,998	4,364	5,452	1,447	3,873	5,197	7,678	6,354	3,945	3,797	7,178	1,558	2,421	715	2,256	1,065	2,832	3,885	3,056	2,006
Tahkenitch	3,496	1,897	3,611	3,551	2,604	2,977	10,681	6,644	5,675	3,413	3,691	1,085	1,249	269	1,678	1,405	1,526	2,398	1,586	1,357
Tenmile	7,148	8,464	15,064	3,957	17,131	9,175	20,385	7,284	9,302	6,449	11,141	2,086	4,374	318	2,770	4,963	5,364	13,381	3,407	9,033
<b>Total</b>	<b>18,642</b>	<b>14,725</b>	<b>24,127</b>	<b>8,955</b>	<b>23,608</b>	<b>17,349</b>	<b>38,744</b>	<b>20,282</b>	<b>18,922</b>	<b>13,659</b>	<b>22,010</b>	<b>4,729</b>	<b>8,044</b>	<b>1,302</b>	<b>6,704</b>	<b>7,433</b>	<b>9,722</b>	<b>19,664</b>	<b>8,049</b>	<b>12,396</b>
<b>Mid-South Coast Stratum:</b>																				
Coos River	23,337	17,048	11,266	1,329	14,881	26,979	27,658	10,999	9,414	6,884	38,880	3,030	4,624	2,689	7,292	13,289	No Est.	No Est.	7,370	24,020
Coquille River	22,138	11,806	28,577	13,968	8,791	22,286	23,564	55,667	5,911	23,637	41,660	3,357	9,494	4,641	5,688	11,841	No Est.	No Est.	19,078	7,707
Floras Creek	7,446	506	1,104	340	786	3,203	11,329	9,217	2,502	1,936	1,022	1,585	942	693	628	904	No Est.	No Est.	871	369
Sixes River	403	105	294	97	43	176	92	334	34	567	410	168	120	69	174	155	No Est.	No Est.	113	19
MSDependent	n.a.	n.a.	n.a.	n.a.	0	188	484	100	48	32	105	0	0	0	10	23	No Est.	No Est.	0	0
<b>Total</b>	<b>53,324</b>	<b>29,465</b>	<b>41,241</b>	<b>15,734</b>	<b>24,501</b>	<b>52,832</b>	<b>63,127</b>	<b>76,317</b>	<b>17,909</b>	<b>33,056</b>	<b>82,077</b>	<b>8,140</b>	<b>15,180</b>	<b>8,092</b>	<b>13,792</b>	<b>26,212</b>	<b>14,261</b>	<b>41,830</b>	<b>27,432</b>	<b>32,115</b>
<b>Oregon Coast ESU</b>	<b>172,778</b>	<b>154,599</b>	<b>128,819</b>	<b>66,270</b>	<b>179,686</b>	<b>262,735</b>	<b>283,405</b>	<b>356,243</b>	<b>99,145</b>	<b>124,410</b>	<b>359,692</b>	<b>57,142</b>	<b>75,904</b>	<b>61,377</b>	<b>74,521</b>	<b>95,135</b>	<b>109,932</b>	<b>242,185</b>	<b>170,002</b>	<b>153,006</b>

n.a. = Not available.

Data Sources:

NMFS&OCCCP = Data for run years through 2003 is as reported in NOAA Technical Memorandum NMFS-NWFSC-91, and in the Oregon Coast Coho Conservation Plan (Appendix 2).

GRTS Est. = Abundance and wild fraction are based on spawning ground survey results from the ODFW Oregon Adult Salmonid Inventory and Sampling (OASIS) Project. In a few cases there were inadequate carcass recoveries (<10) and/or inadequate surveys, to estimate abundance and/or wild fractions. In these cases we used the same methods to estimate the missing data as documented in the NMFS & OCCCP reports used for the pre- 2004 run years data.

a = Alesea River Population: Starting in 2014, the number of wild adult coho passed at the Alesea Hatchery weir was added to the yearly wild population survey total. In prior years, the area above the weir was sampled.

b = North Umpqua River Population: Abundance and wild fraction are based on counts at Winchester Dam, adjusted for fish removed by harvest and hatchery operations.

c = Coastal Lake Populations: Abundance is based on calibrated standard survey protocols developed in the 1950's & 1960's. Yearly, wild fraction is based on observations of marks on carcasses recovered on all spawning surveys.

Population scale GRTS estimates are not reported due to low sample sizes.

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	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.	GRTS Est.
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
<b>North Coast Strata:</b>																				
Necanicum River	141	34	93	33	128	42	0	39	0	0	98	0	0	26	0	0	No Est.	No Est.	No Est.	149
Nehalem River	89	0	1,202	425	0	1,740	837	64	0	0	764	0	261	0	0	0	No Est.	No Est.	No Est.	0
Tillamook Bay	828	0	0	134	78	560	110	0	0	304	460	16	0	0	0	0	No Est.	No Est.	No Est.	180
Nestucca River	73	9	19	5	0	0	93	0	0	37	0	0	0	0	0	0	No Est.	No Est.	No Est.	0
NC Dependents	0	0	75	0	0	28	20	0	0	0	111	0	0	2	2	0	No Est.	No Est.	No Est.	0
<b>Total</b>	<b>1,131</b>	<b>43</b>	<b>1,389</b>	<b>597</b>	<b>206</b>	<b>2,370</b>	<b>1,060</b>	<b>103</b>	<b>0</b>	<b>341</b>	<b>1,433</b>	<b>16</b>	<b>261</b>	<b>28</b>	<b>2</b>	<b>0</b>	<b>26</b>	<b>262</b>	<b>225</b>	<b>329</b>
<b>Mid Coast Strata:</b>																				
Salmon River	1,883	738	647	934	2,012	0	56	0	0	0	27	19	127	0	0	0	No Est.	0	0	0
Siletz River	0	667	118	219	0	962	0	0	0	0	71	0	0	0	0	0	No Est.	0	222	0
Yaquina River	113	172	59	197	0	508	0	0	0	0	0	0	0	89	0	0	No Est.	0	98	0
Beaver Cr	0	0	172	0	0	0	0	0	0	0	0	0	0	6	0	0	No Est.	0	86	0
Alsea River	0	0	0	0	122	139	0	81	0	0	0	0	0	0	0	0	No Est.	85	0	349
Siuslaw River	0	414	391	29	373	0	0	803	314	0	0	0	0	0	0	0	No Est.	388	0	0
MC Dependents	0	0	84	15	97	0	55	0	0	0	118	14	8	0	14	4	No Est.	97	0	1
<b>Total</b>	<b>1,996</b>	<b>1,991</b>	<b>1,471</b>	<b>1,394</b>	<b>2,604</b>	<b>1,609</b>	<b>111</b>	<b>884</b>	<b>314</b>	<b>0</b>	<b>216</b>	<b>33</b>	<b>135</b>	<b>95</b>	<b>14</b>	<b>4</b>	<b>12</b>	<b>570</b>	<b>406</b>	<b>350</b>
<b>Umpqua Strata:</b>																				
Lower Umpqua River	64	423	1,484	424	309	781	82	0	0	0	0	0	34	0	0	0	No Est.	0	0	0
Middle Umpqua River	58	595	1,259	176	0	0	0	71	0	0	0	0	0	0	0	0	No Est.	0	0	0
North Umpqua River <sup>a</sup>	6,753	8,346	6,692	2,578	125	466	638	153	627	618	50	128	85	191	206	404	146	337	41	56
South Umpqua River	412	0	150	682	0	1,198	2,492	1,130	0	193	1,022	455	446	60	211	200	No Est.	0	0	0
<b>Total</b>	<b>7,287</b>	<b>9,364</b>	<b>9,585</b>	<b>3,860</b>	<b>434</b>	<b>2,445</b>	<b>3,212</b>	<b>1,354</b>	<b>627</b>	<b>811</b>	<b>1,072</b>	<b>583</b>	<b>565</b>	<b>251</b>	<b>417</b>	<b>604</b>	<b>878</b>	<b>337</b>	<b>41</b>	<b>56</b>
<b>Lakes Strata: <sup>b</sup></b>																				
Siltcoos	27	0	21	0	0	0	0	24	0	0	0	0	0	0	0	44	0	0	34	0
Tahkenitch	0	0	107	0	0	0	0	21	0	3	0	0	0	6	0	0	0	0	9	7
Tenmile	18	0	123	0	0	0	0	84	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>45</b>	<b>0</b>	<b>251</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>129</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>43</b>	<b>7</b>
<b>Mid-South Coast Strata:</b>																				
Coos River	113	257	0	13	0	237	230	0	0	0	0	0	0	0	0	193	No Est.	No Est.	0	0
Coquille River	44	0	0	0	0	227	0	442	0	148	0	0	0	0	0	0	No Est.	No Est.	0	0
Floras Creek	0	0	110	0	17	0	0	0	0	0	0	0	0	0	0	0	No Est.	No Est.	0	0
Sixes River	64	8	8	0	10	14	8	0	0	0	0	0	0	0	0	0	No Est.	No Est.	0	0
MSDependent	n.a.	n.a.	n.a.	n.a.	0	9	0	2	1	1	2	0	0	0	0	0	No Est.	No Est.	0	0
<b>Total</b>	<b>221</b>	<b>265</b>	<b>118</b>	<b>13</b>	<b>27</b>	<b>487</b>	<b>238</b>	<b>444</b>	<b>1</b>	<b>149</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>193</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Oregon Coast ESU</b>	<b>10,680</b>	<b>11,663</b>	<b>12,814</b>	<b>5,864</b>	<b>3,271</b>	<b>6,911</b>	<b>4,621</b>	<b>2,914</b>	<b>942</b>	<b>1,304</b>	<b>2,723</b>	<b>632</b>	<b>961</b>	<b>380</b>	<b>433</b>	<b>845</b>	<b>916</b>	<b>1,169</b>	<b>715</b>	<b>742</b>

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