

Estimated Abundance of **Wild** Adult Coho Spawners in the Oregon Coast Coho ESU

06/12/17

Based on GRTS Random Sampling Sites for Rivers, Dam count for N. Umpqua, and Traditional Surveys for Lakes.

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.
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
North Coast Strata:															
Necanicum River	2,198	1,218	750	431	1,055	3,827	4,445	2,120	902	798	5,727	847	936		
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		
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		
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		
NC Dependents	661	2,116	1,121	376	639	2,052	1,473	1,341	218	271	4,607	440	699		
Total	28,822	16,466	24,135	17,529	25,571	48,135	54,970	45,890	7,520	10,956	67,370	6,740	18,698		
Mid Coast Strata:															
Salmon River	1,642	79	513	59	652	753	1,382	3,636	297	1,165	3,680	332	1,054		
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		
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		
Beaver Cr	4,569	2,264	1,950	611	1,218	3,575	2,072	2,389	1,878	2,015	6,564	332	1,709		
Alsea River ^a	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		
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		
MC Dependents	8,179	246	1,468	546	3,910	1,610	2,548	4,487	492	1,929	1,890	856	464		
Total	42,070	51,411	21,224	12,269	68,138	86,435	56,545	119,099	33,846	39,723	121,963	22,673	26,488		
Umpqua Strata:															
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		
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		
North Umpqua River ^b	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		
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		
Total	29,920	42,532	18,092	11,783	37,868	57,984	70,019	94,655	20,948	27,016	66,272	14,860	7,494		
Lakes Strata: ^c															
Siltcoos	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		
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		
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		
Total	18,642	14,725	24,127	8,955	23,608	17,349	38,744	20,282	18,922	13,659	22,010	4,729	8,044		
Mid-South Coast Strata:															
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		
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		
Floras Creek	7,446	506	1,104	340	786	3,203	11,329	9,217	2,502	1,936	1,022	1,585	942		
Sixes River	403	105	294	97	43	176	92	334	34	567	410	168	120		
MSDependent	n.a.	n.a.	n.a.	n.a.	0	188	484	100	48	32	105	0	0		
Total	53,324	29,465	41,241	15,734	24,501	52,832	63,127	76,317	17,909	33,056	82,077	8,140	15,180		
Oregon Coast ESU	172,778	154,599	128,819	66,270	179,686	262,735	283,405	356,243	99,145	124,410	359,692	57,142	75,904		

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 = Alsea River Population: Starting in 2014, the number of wild adult coho passed at the Alsea 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.

Estimated Abundance of Hatchery 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.

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.
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
North Coast Strata:															
Necanicum River	141	34	93	33	128	42	0	39	0	0	98	0	0		
Nehalem River	89	0	1,202	425	0	1,740	837	64	0	0	764	0	261		
Tillamook Bay	828	0	0	134	78	560	110	0	0	304	460	16	0		
Nestucca River	73	9	19	5	0	0	93	0	0	37	0	0	0		
NC Dependents	0	0	75	0	0	28	20	0	0	0	111	0	0		
Total	1,131	43	1,389	597	206	2,370	1,060	103	0	341	1,433	16	261		
Mid Coast Strata:															
Salmon River	1,883	738	647	934	2,012	0	56	0	0	0	27	19	127		
Siletz River	0	667	118	219	0	962	0	0	0	0	71	0	0		
Yaquina River	113	172	59	197	0	508	0	0	0	0	0	0	0		
Beaver Cr	0	0	172	0	0	0	0	0	0	0	0	0	0		
Alesea River	0	0	0	0	122	139	0	81	0	0	0	0	0		
Siuslaw River	0	414	391	29	373	0	0	803	314	0	0	0	0		
MC Dependents	0	0	84	15	97	0	55	0	0	0	118	14	8		
Total	1,996	1,991	1,471	1,394	2,604	1,609	111	884	314	0	216	33	135		
Umpqua Strata:															
Lower Umpqua River	64	423	1,484	424	309	781	82	0	0	0	0	0	34		
Middle Umpqua River	58	595	1,259	176	0	0	0	71	0	0	0	0	0		
North Umpqua River ^a	6,753	8,346	6,692	2,578	125	466	638	153	627	618	50	132	104		
South Umpqua River	412	0	150	682	0	1,198	2,492	1,130	0	193	1,022	455	446		
Total	7,287	9,364	9,585	3,860	434	2,445	3,212	1,354	627	811	1,072	587	584		
Lakes Strata: ^b															
Siltcoos	27	0	21	0	0	0	0	24	0	0	0	0	0		
Tahkenitch	0	0	107	0	0	0	0	21	0	3	0	0	0		
Tenmile	18	0	123	0	0	0	0	84	0	0	0	0	0		
Total	45	0	251	0	0	0	0	129	0	3	0	0	0		
Mid-South Coast Strata:															
Coos River	113	257	0	13	0	237	230	0	0	0	0	0	0		
Coquille River	44	0	0	0	0	227	0	442	0	148	0	0	0		
Floras Creek	0	0	110	0	17	0	0	0	0	0	0	0	0		
Sixes River	64	8	8	0	10	14	8	0	0	0	0	0	0		
MSDependent	n.a.	n.a.	n.a.	n.a.	0	9	0	2	1	1	2	0	0		
Total	221	265	118	13	27	487	238	444	1	149	2	0	0		
Oregon Coast ESU	10,680	11,663	12,814	5,864	3,271	6,911	4,621	2,914	942	1,304	2,723	636	980		

n.a. = Not available.

Data Sources:

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