

2020 Willapa Bay Marine Area Recreational Catch Estimate

PRELIMINARY / DRAFT
updated 9/24/2020

CHK = Chinook CPUE = Catch per unit effort Strata 1 - Mon - Thurs
AD = Adipose clipped (hatchery origin) Effort = An individual angler trip Strata 2 - Fri - Sun
UM = Unmarked (natural origin)

July (Ocean 2 Rules) Unmarked Chinook retention allowed

Mgmt Week	Expanded Data		Expanded Data - Chinook				Expanded Data - Coho				Total Coho CPUE	
	# Boats	# Anglers	Estimated Total Chinook Kept	Total Chinook CPUE	Estimated Total UM Chinook Kept	Origin Chinook UM	Estimated Total AD Chinook Kept	Origin Chinook AD	Estimated Total Coho Kept	Estimated Total AD Coho Kept		
25	11	30	0	0.000	0	0	0	0	0	0	0.000	No coho retention
26	20	45	0	0.000	0	0	0	0	0	0	0.000	
27	20	47	2	0.043	0	0	2	1	1	0	0.021	
28	31	69	0	0.000	0	0	0	0	0	0	0.000	No wild coho retention
29	105	264	21	0.080	12	4	9	3	14	0	0.053	
30	54	123	2	0.016	1	0	1	0	1	0	0.008	
31	96	208	10	0.048	2	1	8	2	0	0	0.000	
Season Total	337	786	35	0.045	15	4	20	6	16	0	0.020	

August and September				Boats and Anglers							Chinook Retained					Chinook Released					Marked Coho			Unmarked Coho			Total Coho				
Unmarked Chinook retention illegal as of August 1				Actual Raw Data			Actual Raw Data				Chinook Retained					Chinook Released					Marked Coho			Unmarked Coho			Total Coho				
Mgmt Week	Dates	Strata	Strata Description	# Boats Sampled	# Boats Not Sampled	# Total Boats	Expanded # Total Boats	Sample Rate	# Anglers Sampled	# Anglers per boat	Expanded # Total Anglers	# CHK AD Kept	CHK AD CPUE Kept	Expanded # CHK AD Kept	# WB Origin CHK AD Impacts	# CHK UM Kept	CHK UM CPUE Kept	Expanded # CHK UM Kept	# CHK UM Released	CHK UM CPUE	Estimated Expanded CHK UM Encounters	Estimated Total CHK UM Impacts	# WB Origin CHK UM Impacts	# Coho AD Kept	Coho AD CPUE	Expanded # Coho AD Kept	# Coho UM Kept	Coho UM CPUE	Expanded # Coho UM Kept	Total Coho CPUE (AD+UM)	Total Expanded # Coho Kept (AD + UM)
31	8/1-8/2	2	Sat - Sun	83	1	84	90	92%	191	2.30	208	7	0.037	8	5	0	0.000	0	3	0.016	3	0	0	1	0.005	1	0	0.000	0	0.005	1
32	8/3 - 8/6	1	Mon - Thur	37	1	38	78	47%	78	2.11	164	4	0.051	8	5	0	0.000	0	2	0.026	4	1	0	0	0.000	0	0	0.000	0	0.000	0
32	8/7 - 8/9	2	Fri - Sun	110	6	116	178	62%	280	2.55	454	11	0.039	18	11	0	0.000	0	6	0.021	10	1	1	1	0.004	2	0	0.000	0	0.004	2
33	8/10 - 8/1	1	Mon - Thur	124	5	129	267	46%	290	2.34	624	49	0.169	105	67	0	0.000	0	11	0.038	24	3	2	3	0.010	6	0	0.000	0	0.010	6
33	8/14 - 8/1	2	Fri - Sun	208	2	210	326	64%	474	2.28	743	34	0.072	53	34	0	0.000	0	24	0.051	38	5	3	0	0.000	0	0	0.000	0	0.000	0
34	8/17 - 8/2	1	Mon - Thur	113	2	115	230	49%	226	2.00	460	19	0.084	39	25	0	0.000	0	12	0.053	24	3	2	0	0.000	0	0	0.000	0	0.000	0
34	8/21 - 8/2	2	Fri - Sun	140	7	147	221	63%	300	2.14	473	16	0.053	25	16	0	0.000	0	17	0.057	27	4	2	5	0.017	8	0	0.000	0	0.017	8
35	8/24 - 8/2	1	Mon - Thur	164	14	178	380	43%	360	2.20	835	56	0.156	130	82	0	0.000	0	39	0.108	90	13	8	8	0.022	19	3	0.008	7	0.031	26
35	8/28 - 8/3	2	Fri - Sun	245	13	258	413	59%	579	2.36	977	71	0.123	120	76	0	0.000	0	50	0.086	84	12	7	18	0.031	30	6	0.010	10	0.041	40
36	8/31 - 9/1	1	Mon - Thur	109	3	112	232	47%	219	2.01	466	19	0.087	40	26	0	0.000	0	10	0.046	21	3	2	11	0.050	23	6	0.027	13	0.078	36
36	9/4-9/6	2	Fri - Sun	192	51	243	378	51%	495	2.58	974	33	0.067	65	41	2	0.004	4	25	0.051	49	7	4	45	0.091	89	18	0.036	35	0.127	124
37	9/7-9/10	1	Mon - Thur	118	12	130	270	44%	263	2.23	602	15	0.057	34	22	3	0.011	7	17	0.065	39	5	3	23	0.087	53	8	0.030	18	0.118	71
37	9/11 - 9/1	2	Fri - Sun	102	16	118	184	55%	246	2.41	443	10	0.041	18	11	1	0.004	2	14	0.057	25	4	2	74	0.301	133	21	0.085	38	0.386	171
38	9/14 - 9/1	1	Mon - Thur	43	3	46	96	45%	110	2.56	244	0	0.000	0	0	0	0.000	0	5	0.045	11	2	1	16	0.145	36	5	0.045	11	0.191	47
38	9/18 - 9/2	2	Fri - Sun	61	7	68	106	58%	124	2.03	215	2	0.016	3	2	0	0.000	0	3	0.024	5	1	0	10	0.081	17	12	0.097	21	0.177	38
39	9/21 - 9/2	1	Mon - Thur			0																									
39	9/25 - 9/2	2	Fri - Sun			0																									
40	9/28 - 9/3	1	Mon - Wed			0																									
TOTALS				1,849	143	1,992	3,449		4,235	2.29	7,883	346	0.082	667	423	6	0.001	13	238	0.056	455	64	40	215	0.051	417	79	0.019	153	0.069	570

2020 Willapa Bay Origin PreSeason Recreational Data

Preliminary/Draft

Updated 9/24/2020

Willapa Bay **Natural-Origin** Fall Chinook

Willapa Bay **Hatchery-Origin** Fall Chinook

Mgmt Wk	Date	Harvest Rate Proportions	Preseason Prediction		In-season Estimate			Preseason Prediction		In-season Estimate		
			NOR	Cumulative Total	WB Origin	Cumulative Total		HOR	Cumulative Total	WB Origin	Cumulative Total	
25	6/20 - 6/21	0.0372	0	0	0	0		0.0049	0	0	0	0
26	6/22 - 6/28	0.0372	0	0	0	0		0.0049	0	0	0	0
27	6/29 - 7/5	0.0372	5	5	0	0		0.0049	12	12	1	1
28	7/6 - 7/12	0.0226	3	8	0	0		0.0066	16	28	0	1
29	7/13 - 7/19	0.0991	14	22	4	4		0.0091	22	49	3	3
30	7/20 - 7/26	0.0596	8	31	0	4		0.0263	63	112	0	4
31	7/27 - 8/2	0.1246	17	48	1	5		0.0274	66	178	7	11
32	8/3 - 8/9	0.0886	12	60	1	6		0.1049	252	430	17	27
33	8/10 - 8/16	0.0848	12	72	5	11		0.1489	357	788	101	128
34	8/17 - 8/23	0.1445	20	93	5	16		0.2247	539	1,327	40	169
35	8/24 - 8/30	0.1430	20	113	16	31		0.2465	592	1,919	158	327
36	8/31 - 9/6	0.0635	9	121	9	40		0.1140	274	2,193	67	394
37	9/7 - 9/13	0.0586	8	130	11	51		0.0609	146	2,339	33	427
38	9/14 - 9/20	0.0177	2	132	1	53		0.0220	53	2,392	2	429
39	9/21 - 9/27	0.0423	6	138				0.0013	3	2,395		
40	9/28 - 9/30	0.0141	2	140				0.0011	3	2,398		
			140		53	0.378		2,401		429	0.179	