

2024 Willapa Bay Terminal Area Management Model (TAMM)

PFMC #: Coho24  
 PFMC Model: Ocean Coho Option 2422

Updated: 4/15/2024

Draft Fishery Proposal

Fishery Description

**Marine Area Recreational** Control Zone Open (Aug/Sept): Chinook MSF Aug 1, 2 adult daily limit, Release UM Chinook  
**Freshwater Recreational** 2 adult daily limit, Release UM CHK; Release UM Coho in Willapa/Naselle/Palix/M & S Nemeah rivers; North/Smith/Bear/N Nemeah 1 wild coho; Naselle River Hwy 4 to hatchery closed thru Oct 15; Niawiakum River and Fork Creek Closed to salmon  
**Commerical** 2N, 2R, & 2M prior to Labor Day, Tangle nets wks 33-37, 2U tangle net 38; Nov fishing time, Release UM CHK

Rate Data			
Commercial Chinook Drop out	0.03	Sport hook & line drop off	0.05
Commercial Coho Drop out	0.02	Marine Hooking Mortality	0.14
Small mesh gear mortality	0.56	Freshwater Hooking Mortality	0.10
Tangle net mortality	0.31	Control Zone Closure Savings	0.60

Pre-Season Runsize Escapement Goal Harvestable	Chinook				Coho				Chum				Total				
	Total Hatchery	Willapa North	Nemah Palix	Naselle Bear	Total Hatchery	Willapa North	Nemah Palix	Naselle Bear	Total Hatchery	Willapa North	Nemah Palix	Naselle Bear					
	27,327	2,800	11,090	13,437	3,519	1,964	187	1,368	63,481	18,483	0	44,998	25,811	17,616	3,807	4,390	80,390
	6,304	294	2,342	3,668	4,353	2,172	328	1,853	2,500	1,000	0	1,500	13,600	9,679	1,294	2,628	35,400
	21,023	2,506	8,748	9,769	-834	-208	-141	-485	60,981	17,483	0	43,498	12,211	7,937	2,514	1,763	44,990

Stat Week	2024 Dates	Days Fished					MSF - Chinook					Natural Chinook Catch					Hatchery Chinook					Natural Chinook					Hatchery Coho				Natural Coho				CHUM MSF	Chum Catch					Total Chum
		T	U	N	R	M	T	U	N	R	M	T	U	N	R	M	Total Hatchery	Willapa North	Nemah Palix	Naselle Bear	Total Natural	Willapa North	Nemah Palix	Naselle Bear	Total Hatchery	Willapa North	Nemah Palix	Naselle Bear	Total Natural	Willapa North	Nemah Palix	Naselle Bear	T	U		N	R	M			
		32	Aug 4 - 10	0.0	0.0	0.0	0.0	0.0	1.00	1.00	1.00	1.00	1.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	1.00	0	0	0	
<b>Commercial Catch Totals</b>		31	18	41	36	31	88	113	102	1	109	4,201	4,201	270	1,608	2,321	503	413	191	22	200	22,182	5,265	0	16,918	8,946	5,073	1,260	2,613	12,138	1,199	4,558	1,906	12,132	31,933						

Management Objectives for 2024			
<b>CHINOOK</b>	Willapa R. Natural Chinook Impact Rate	Naselle R. Natural Chinook Impact Rate	
	Expected Cap	13.7%	20%
<b>COHO Expected Natural Escapement</b>	Expected Goal	16,470	13,600
	Expected Total Escapement	48,350	35,400

Hatchery Chinook				Natural Chinook				Hatchery Coho				Natural Coho				Chum	
Rec Marine Catch	635	206	88	341	56	43	1	12	760	369	392	240	190	35	15	12	
Harvest Rate	0.023	0.073	0.01	0.025	0.016	0.022	0.003	0.009	0.012	0.020	0.009	0.009	0.011	0.009	0.003	0.000	
Rec Freshwater Catch	3,052	285	2,143	623	78	34	10	35	4,184	911	3,273	155	109	8	39	95	
Harvest Rate	0.112	0.102	0.193	0.046	0.022	0.017	0.053	0.025	0.066	0.049	0.073	0.006	0.006	0.002	0.009	0.001	
Total Recreational Catch	3,687	491	2,232	965	134	77	10	46	4,944	1,279	0	3,665	395	299	42	54	
Harvest Rate	0.135	0.175	0.201	0.072	0.038	0.039	0.056	0.034	0.078	0.069	0.081	0.015	0.017	0.011	0.012	0.001	
Expected Escapement	19,439	2,039	7,251	10,151	2,972	1,696	154	1,122	36,354			16,470	Goal	13,600		Goal	35,400
Total Harvest Rates	0.289	0.272	0.346	0.245	0.155	0.137	0.174	0.180	0.427			0.362					39.9%

2024 WILLAPA BAY FISHERY SUMMARY - DRAFT

Draft Fishery Proposal

CHINOOK					
Total Hatchery		Willapa North	Nemah Palix	Naselle Bear	
2024 Pre-Season Runsize	27,327	2,800	11,090	13,437	
					Total Natural
					3,519
					Willapa North
					1,964
					Nemah Palix
					187
					Naselle Bear
					1,368

HATCHERY					NATURAL				
Total Hatchery	WB Origin	Willapa North	Nemah Palix	Naselle Bear	Total Natural	WB Origin	Willapa North	Nemah Palix	Naselle Bear
Commercial Catch	4,201	4,201	270	1,608	2,321	0	0	0	0
Commercial Impacts						503	413	191	22
Commercial Harvest Rate (HR)		0.154	0.096	0.145	0.173		0.117	0.097	0.118
Recreational Marine Impacts		635	206	88	341		56	43	1
Marine HR		0.023	0.073	0.008	0.025		0.016	0.022	0.003
Recreational Freshwater Impacts		3,052	285	2,143	623		78	34	10
FW HR		0.112	0.102	0.193	0.046		0.022	0.017	0.053
Expected Escapement		19,439	2,039	7,251	10,151		2,972	1,696	154
Total Expected Impact Rate		0.289	0.272	0.346	0.245		0.155	0.137	0.174

WB Chinook Natural Escapement Goal = 4,353

COHO					
Total Hatchery	Willapa North	Nemah Palix	Naselle Bear		
2024 Pre-Season Runsize	63,481	18,483	0	44,998	
					Total Natural
					25,811
					Willapa North
					17,616
					Nemah Palix
					3,807
					Naselle Bear
					4,390

HATCHERY					NATURAL				
Total Hatchery	Willapa North	Nemah Palix	Naselle Bear		Total Natural	Willapa North	Nemah Palix	Naselle Bear	
Commercial Catch	22,182	5,265	0	16,918	8,946	5,073	1,260	2,613	
Commercial Harvest Rate (HR)	0.349	0.285	0.000	0.376	0.347	0.288	0.331	0.595	
Recreational Marine Catch	760	369	0	392	240	190	35	15	
Marine HR	0.012	0.020	0.000	0.009	0.009	0.011	0.009	0.003	
Recreational Freshwater Catch	4,184	911	0	3273	155	109	8	39	
FW HR	0.066	0.049	0.000	0.073	0.015	0.006	0.002	0.009	
Expected Escapement	36,354				16,470				
Total Exploitation Rate	42.7%				36.2%				

WB Coho Natural Escapement Goal = 13,600

TOTAL CHUM	
2024 Pre-Season Runsize	80,390
Commercial Catch	31,933
Commercial Harvest Rate (HR)	0.397
Recreational Marine Catch	12
Marine HR	0.000
Recreational Freshwater Catch	95
FW HR	0.001
Expected Escapement	48,350
Total Exploitation Rate	39.9%

WB Escapement Goal = 35,400

Willapa Bay Proposed Commercial Fishery Days and Regulations

2024 Dates	Stat Week	2T	2U	2N	2R	2M	
Aug 4 - 10	32	0	0	0	0	0	Closed
Aug 11 - 17	33	0	0	1	1	1	12 hr openings, CHK MSF and Chum Retention allowed, Tangle Net Only
Aug 18 - 24	34	0	0	2	2	1	
Aug 25 - 31	35	0	0	2	2	1	
Sept 1 - 7	36	0	0	0	0	0	
Sept 8 - 14	37	0	0	2	2	1	12 hr openings, CHK MSF & Chum Retention allowed, Gillnet small mesh gear, 2U Tangle net week 38 only.
Sept 15 - 21	38	6	3	6	5	4	
Sept 22 - 28	39	6	3	6	5	4	
Sept 29 - Oct 5	40	5	4	5	5	5	
Oct 6 - 12	41	3	2	3	2	3	12 hr openings, CHK MSF & Chum Retention allowed, Gillnet small mesh gear.
Oct 13 - 19	42	3	1	3	2	2	
Oct 20 - 26	43	3	2	3	2	2	
Oct 27 - Nov 2	44	1	0	2	2	1	
Nov 3 - 9	45	1	0	2	2	2	12 hr openings, CHK MSF & Chum Retention allowed, Gillnet small mesh gear.
Nov 10 - 16	46	1	0	1	1	1	
Nov 17 - 23	47	1	2	2	2	2	
Nov 24 - 30	48	1	1	1	1	1	
	<b>Total</b>	<b>31</b>	<b>18</b>	<b>41</b>	<b>36</b>	<b>31</b>	

Recreational Regulations

Area	Section	Season	Daily Limit	Adult daily Limit	2-Pole	2-Pole Upper Extent	Natural CHK Retention	Natural Coho Retention
Marine Area 2.1	NA	June 30 - July 31	Same as Marine Area 2 when open for salmon					
	Control Zone OPEN Aug & Sept	Aug. 1 - Jan. 31	6	2	Yes	-	0	2
Willapa River	mouth upstream to Hwy 6 Bridge below Trap Crk	Aug. 1 - Jan. 31	6	2	Yes	2nd Bridge on Camp One Rd.	0	0
	Hwy 6 upstream to Fork Creek	Aug. 16 - Jan. 31	6	2	Yes	-	0	0
	Mouth of Fork Creek to Hwy 6 Br (near Lebam)	Oct. 1 - Jan. 31	6	2	No	-	0	0
SF Willapa River	mouth to bridge on PeHl Rd Bridge	Aug. 1 - Jan 31	6	2	No	-	0	0
Fork Creek	Fork Crk Hatchery rack upstream 500' at the fishing boundary sign	Closed to ALL fishing						
North River	mouth upstream to Fall River	Oct 1 - Jan 31	6	2	No	-	0	1
Smith Creek	mouth to Hwy 101 Bridge	Oct 1 - Dec 31	6	2	No	-	0	1
North Nemah River	Hwy 101 Br. to Nemah Valley Rd. Br.	Aug. 1 - Jan 31	6	2	No	-	0	1
	Nemah Valley Rd. Br. Upstream to Hancock Property Line approx. 1.66 M	Closed to salmon fishing						
	Hancock Property Line upstream to temporary weir	Aug. 1 - Sept 15, Seniors Only*	6	2	No	-	0	1
	temporary weir upstream to Nemah Hat. Dam	Closed to ALL fishing						
	Nemah Hatchery dam upstream to N700 Rd	Oct 1 - Jan 31	6	2	No	-	0	1
Middle Nemah River	mouth to bridge on Middle Nemah A-line Rd	Sept. 1 - Jan 31	6	2	No	-	0	0
South Nemah River	mouth to confluence with Middle Nemah R.	Sept. 1 - Jan 31	6	2	No	-	0	0
Palix River	Hwy 101 Bridge to mouth of Middle Fork	Sept 1 - Jan 31	6	2	No	-	0	0
Niawiakum River	Hwy 101 Br. To the S. Bend/Palix Rd Br	Closed to salmon fishing						
Naselle River	mouth (Hwy 101) upstream to South Fork Naselle River	Aug. 1 - Jan. 31	6	2	Yes	South Fork	0	0
	from South Fork Naselle River upstream to Hwy 4	Aug. 1 - Jan 31	6	2	No	-	0	0
	Hwy 4 to 300' below hatchery attraction channel	Oct 16 - Jan. 31	6	2	No	-	0	0
	Attraction channel upstream to Crown Mainline Bridge	Oct 16 - Jan. 31	6	2	No	-	0	0
Bear River	Mouth upstream to Lime Quarry Rd	Sept 1 - Jan 31	6	2	No	-	0	1

\* Seniors defined as 70 years old and over

Blue = changes from last year's fishery represented in this model run