2025 Willapa Bay Terminal Area Management Model (TAMM)

PFMC #: Coho25

PFMC Model: Ocean Coho Option 2514

Updated: 4/1/2025 Middle Option

Model B

D R A F T

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; 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, 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

	Chinook					Coho									Chum
	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	Total
Pre-Season Runsize	33,419	1,926	12,295	19,198		2,338	1,075	507	756	69,784	21,141	0	48,643	25,152	17,378	3,541	4,234	94,464
Escapement Goal	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
Harvestable	27,115	1,632	9,953	15,530		-2,015	-1,097	179	-1,097	67,284	20,141	0	47,143	11,552	7,699	2,247	1,607	59,064
proportion		0.058	0.368	0.574			0.460	0.217	0.323		0.303	0.000	0.697		0.691	0.141	0.168	

5 yr avg HR with drop out included

		Days Fished					MSF - Chinook					Natural Chinook Catch					Hatchery Chinook					Natural Chinook					Hatchery Coho				Natural Coho				CHUM MSF	Chum Catch					Total Chum
Stat Week	**2025 Dates**	T	U	N	R	M	T	U	N	R	M	T	U	N	R	M	Total Hatchery	Total WB Origin	Willapa North	Nemah Palix	Naselle Bear	Total Natural	Total WB Origin	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 3 - 9	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	0	1.00	0	0	0	0	0	0
33	Aug 10 - 16	0.0	0.0	3.0	1.0	1.0	1.00	1.00	0.31	0.31	0.31	0	0	21	0	5	1,283	1283	16	457	809	32	26	5	8	14	2	0	0	2	0	0	0	0	1.00	0	0	1	0	1	2
34	Aug 17 - 23	0.0	0.0	3.0	2.0	0.0	1.00	1.00	0.31	0.31	0.31	0	0	24	0	0	1,084	1084	19	377	688	29	24	5	7	12	5	0	0	5	1	0	0	1	1.00	0	0	1	0	0	1
35	Aug 24 - 30	0.0	0.0	3.0	2.0	1.0	1.00	1.00	0.31	0.31	0.31	0	0	32	0	10	1,599	1599	22	567	1,010	50	42	7	13	22	29	0	0	29	17	1	5	11	1.00	0	0	1	0	1	2
36	Aug 31 - Sept 6	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	0	1.00	0	0	0	0	0	0
37	Sept 7 - 13	2.0	1.0	2.0	2.0	1.0	0.31	0.31	0.31	0.31	0.31	1	28	7	0	4	850	850	90	225	535	45	40	27	4	9	5,322	2299	0	3,023	459	373	33	54	1.00	1	1	2	2	2	9
38	Sept 14 - 20	5.0	3.0	6.0	5.0	6.0	0.56	0.56	0.56	0.56	0.56	14	70	4	0	18	1,146	1146	106	319	722	123	107	73	10	24	8,711	2810	0	5,901	1,738	1160	188	390	1.00	3	4	7	4	15	34
39	Sept 21 - 27	5.0	3.0	6.0	5.0	6.0	0.56	0.56	0.56	0.56	0.56	16	18	2	0	11	331	331	31	92	209	58	47	28	6	14	9,021	1195	0	7,826	1,816	858	334	625	1.00	33	4	37	4	70	149
40	Sept 28 - Oct 4	4.0	4.0	6.0	5.0	6.0	0.56	0.56	0.56	0.56	0.56	7	7	1	0	10	166	166	20	41	105	30	25	12	4	9	5,658	627	0	5,030	1,817	831	348	638	1.00	167	17	49	53	272	559
41	Oct 5 - 11	4.0	2.0	4.0	4.0	4.0	0.56	0.56	0.56	0.56	0.56	4	4	0	0	2	50	50	8	10	32	13	10	7	1	3	1,645	272	0	1,373	826	422	136	268	1.00	1,285	43	76	68	567	2,038
42	Oct 12 - 18	4.0	1.0	4.0	4.0	4.0	0.56	0.56	0.56	0.56	0.56	3	2	0	0	1	28	28	4	5	18	9	7	5	1	2	1,844	354	0	1,490	1,343	723	202	418	1.00	4,068	223	735	662	4,589	10,278
43	Oct 19 - 25	4.0	1.0	4.0	2.0	4.0	0.56	0.56	0.56	0.56	0.56	0	0	0	0	0	8	8	1	2	6	0	0	0	0	0	838	304	0	534	1,240	723	177	340	1.00	10,320	829	3,136	1,406	10,548	26,239
44	Oct 26 - Nov 1	2.0	0.0	2.0	2.0	2.0	0.56	0.56	0.56	0.56	0.56	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	69	13	0	56	70	40	8	21	1.00	715	0	980	164	4,145	6,003
45	Nov 2 - 8	1.0	1.0	1.0	2.0	2.0	0.56	0.56	0.56	0.56	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166	107	0	59	222	188	13	21	1.00	505	499	560	164	684	2,411
46	Nov 9 - 15	1.0	2.0	1.0	1.0	1.0	0.56	0.56	0.56	0.56	0.56	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	217	143	0	75	275	253	10	12	1.00	335	578	560	64	805	2,341
47	Nov 16 - 22	1.0	1.0	1.0	2.0	2.0	0.56	0.56	0.56	0.56	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	52	0	19	48	47	1	0	1.00	335	3	560	127	1,610	2,635
48	Nov 23 - 29	1.0	1.0	1.0	1.0	1.0	0.56	0.56	0.56	0.56	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	14	0	5	15	15	0	0	1.00	335	3	560	64	805	1,767
49	30-Nov	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	0	1.00	0	0	0	0	0	0
Commercial Catch Totals		34	20	47	40	41						46	130	91	1	60	6,550	6,550	317	2,096	4,135	390	328	168	53	107	33,618	8,189	0	25,428	9,888	5,634	1,456	2,798		18,102	2,205	7,265	2,780	24,113	54,466
Commercial Harvest Rate																		0.196	0.164	0.170	0.215		0.140	0.156	0.105	0.142	0.482	0.387		0.523	0.393	0.324	0.411	0.661							0.577

Management Objectives for 2025

	Willapa R. Natural Chinook Impact Rate		Naselle R. Natural Chinook Impct Rate	
CHINOOK	**Expected**	**Cap**	**Expected**	**Cap**
	19.9%	20%	19.8%	20%

	Expected	Goal
COHO Expected Natural Escapment	13,103	13,600

	Expected	Goal
CHUM Expected Total Escapement	39,889	35,400

	Hatchery Chinook				Natural Chinook				Hatchery Coho				Natural Coho				Chum
Rec Marine Catch	752	175	92	485	33	26	1	6	747	373		374	237	188	34	15	10
Harvest Rate	0.022	0.091	0.01	0.025	0.014	0.024	0.002	0.008	0.011	0.018		0.008	0.009	0.011	0.010	0.004	0.000
Rec Freshwater Catch	4,391	203	2,529	1,659	81	21	23	36	5,223	1,131		4,092	1,923	1,257	5	661	99
Harvest Rate	0.131	0.105	0.206	0.086	0.034	0.019	0.046	0.048	0.075	0.053		0.084	0.076	0.072	0.001	0.156	0.001
Total Recreational Catch	5,143	378	2,621	2,144	113	46	24	42	5,969	1,503	0	4,466	2,161	1,446	39	676	109
Harvest Rate	0.154	0.196	0.213	0.112	0.048	0.043	0.048	0.056	0.086	0.071		0.092	0.086	0.083	0.011	0.160	0.001
Expected Escapement	21,726	1,231	7,578	12,919	1,897	861	429	607	30,197				13,103	Goal	13,600		Goal 35,400	39,889
Total Harvest Rates	0.350	0.361	0.384	0.327	0.189	0.199	0.153	0.198	0.567				0.479					57.8%

2025 WILLAPA BAY FISHERY SUMMARY - DRAFT

Draft Fishery Proposal - MODEL B

CHINOOK

	Total Hatchery	Willapa North	Nemah Palix	Naselle Bear	Total Natural	Willapa North	Nemah Palix	Naselle Bear
2025 Pre-Season Runsize	33,419	1,926	12,295	19,198	2,338	1,075	507	756

	HATCHERY					NATURAL				
	Total Hatchery	WB Origin	Willapa North	Nemah Palix	Naselle Bear	Total Natural	WB Origin	Willapa North	Nemah Palix	Naselle Bear
Commercial Catch	6,550	**6,550**	317	2,096	4,135	0	0	0	0	0
Commercial Impacts						390	**328**	168	53	107
Commercial Harvest Rate (HR)		0.196	0.164	0.170	0.215		0.140	0.156	0.105	0.142
Recreational Marine Impacts		**752**	175	92	485		**33**	26	1	6
Marine HR		0.022	0.091	0.007	0.025		0.014	0.024	0.002	0.008
Recreational Freshwater Impacts		**4,391**	203	2,529	1,659		**81**	21	23	36
FW HR		0.131	0.105	0.206	0.086		0.034	0.019	0.046	0.048
Expected Escapement		**21,726**	1,231	7,578	12,919		**1,897**	861	429	607
Total Expected Impact Rate		0.350	0.361	0.384	0.327		0.189	**0.199**	0.153	**0.198**

WB Chinook Natural Escapement Goal = 4,353

COHO

	Total Hatchery	Willapa North	Nemah Palix	Naselle Bear	Total Natural	Willapa North	Nemah Palix	Naselle Bear
2025 Pre-Season Runsize	69,784	21,141	0	48,643	25,152	17,378	3,541	4,234

Post Ocean Fisheries

	HATCHERY				NATURAL			
	Total Hatchery	Willapa North	Nemah Palix	Naselle Bear	Total Natural	Willapa North	Nemah Palix	Naselle Bear
Commercial Catch	**33,618**	8,189	0	25,428	**9,888**	5,634	1,456	2,798
Commercial Harvest Rate (HR)	0.482	0.387	0.000	0.523	0.393	0.324	0.411	0.661
Recreational Marine Catch	**747**	373	0	374	**237**	188	34	15
Marine HR	0.011	0.018	0.000	0.008	0.009	0.011	0.010	0.004
Recreational Freshwater Catch	**5,223**	1,131	0	4092	**1,923**	1,257	5	661
FW HR	0.075	0.053	0.000	0.084	0.086	0.072	0.001	0.156
Expected Escapement	30,197				**13,103**			
Total Exploitation Rate	56.7%				47.9%			

WB Coho Natural Escapement Goal = 13,600

TOTAL CHUM

	TOTAL CHUM
2025 Pre-Season Runsize	94,464
Commercial Catch	54,466
Commercial Harvest Rate (HR)	0.577
Recreational Marine Catch	10
Marine HR	0.000
Recreational Freshwater Catch	99
FW HR	0.001
Expected Escapement	**39,889**
Total Exploitation Rate	57.8%

WB Escapement Goal = 35,400

Willapa Bay Proposed Commercial Fishery Days and Regulations

2025 Dates	Stat Week	2T	2U	2N	2R	2M	
Aug 3 - 9	32	0	0	0	0	0	Closed
Aug 10 - 16	33	0	0	**3**	**1**	**1**	12 hr openings, CHK MSF, Tangle Net Only
Aug 17 - 23	34	0	0	**3**	**2**	0	
Aug 24 - 30	35	0	0	**3**	**2**	**1**	
Aug 31 - Sept 6	36	0	0	0	0	0	
Sept 7 - 13	37	**2**	**1**	**2**	**2**	**1**	
Sept 14 - 20	38	**5**	**3**	**6**	**5**	**6**	12 hr openings, CHK MSF. Gillnet small mesh gear.
Sept 21 - 27	39	**5**	**3**	**6**	**5**	**6**	
Sept 28 - Oct 4	40	**4**	**4**	**6**	**5**	**6**	
Oct 5 - 11	41	**4**	**2**	**4**	**4**	**4**	
Oct 12 - 18	42	**4**	**1**	**4**	**4**	**4**	
Oct 19 - 25	43	**4**	**1**	**4**	**2**	**4**	
Oct 26 - Nov 1	44	**2**	0	**2**	**2**	**2**	12 hr openings, CHK MSF. Gillnet small mesh gear.
Nov 2 - 8	45	**1**	**1**	**1**	**2**	**2**	
Nov 9 - 15	46	**1**	**2**	**1**	**1**	**1**	
Nov 16 - 22	47	**1**	**1**	**1**	**2**	**2**	
Nov 23 - 29	48	**1**	**1**	**1**	**1**	**1**	
	Total	**34**	**20**	**47**	**40**	**41**	

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** - 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	**2**
	Hwy 6 upstream to Fork Creek	Aug. 16 - Jan. 31	6	2	Yes		0	**2**
	Mouth of Fork Creek to Hwy 6 Br (near Lebam)	Oct. 1 - Jan. 31	6	2	No	-	0	**2**
SF Willapa River	mouth to bridge on Pehl Rd Bridge	Aug. 1 - Jan 31	6	2	No	-	0	**2**
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	**2**
Smith Creek	mouth to Hwy 101 Bridge	Oct 1 - Dec 31	6	2	No	-	0	**2**
North Nemah River	Hwy 101 Br. to Nemah Valley Rd. Br.	Aug. 1 - Jan 31	6	2	No	-	0	**2**
	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	**2**
	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	**2**
Middle Nemah River	mouth to bridge on Middle Nemah A-line Rd	Sept. 1 - Jan 31	6	2	No	-	0	**2**
South Nemah River	mouth to confluence with Middle Nemah R.	Sept. 1 - Jan 31	6	2	No	-	0	**2**
Palix River	Hwy 101 Bridge to mouth of Middle Fork	Sept 1 - Jan 31	6	2	No	-	0	**2**
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	**2**
	from South Fork Naselle River upstream to Hwy 4	Aug. 1 - Jan 31	6	2	No	-	0	**2**
	Hwy 4 to 300' below hatchery attraction channel	Oct 16 - Jan. 31	6	2	No	-	0	**2**
	Attraction channel upstream to Crown Mainline Bridge	Oct 16 - Jan. 31	6	2	No	-	0	**2**
Bear River	Mouth upstream to Lime Quarry Rd	Sept 1 - Jan 31	6	2	No	-	0	**2**

* Seniors defined as 70 years old and over

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