

Mcclellan, Barbara A (DFW)

From: Mcclellan, Barbara A (DFW)
Sent: Thursday, August 31, 2023 4:05 PM
Subject: 2023 Willapa Bay Fisheries update - week 35 August 21 - 27
Attachments: 2023 WB Marine Area Recreational Catch Estimate Summary Wk 35 Draft 08.29.2023.pdf; Naselle Hatchery Adult CHK Summary 08.29.2023.pdf; 2023 WB Hatchery Chinook Eggtake Draft 08.29.2023.pdf; 2023 WB Commercial impacts by area total summary 08.29.2023.pdf

Hello Everyone,

If you have any questions or comments regarding any of the information provided through these emails for the 2023 salmon season, please reply to this email and/or contact the regional staff directly at the Montesano office (360-249-4628).

Recreational Marine Area Fishery

Since our last update, there was a significant increase in catch and effort starting Thursday, August 24 through Sunday, August 27 . The highest effort was recorded by staff on Friday, August 25th, and the highest catch was recorded on Thursday, August 24th. For this last week, there were early morning high tides with smaller tidal exchanges compared to the week before. These tides were likely the best fishable tides for the month of August. The overall weather conditions were cooler for the week and with smaller tidal exchanges, there was less water moving on each tide. There were 167 hatchery Chinook salmon, 12 hatchery coho, and 7 unmarked coho caught from the fishery from August 21 – 27 and seen by staff in either Tokeland or South Bend dock locations. There was also one unmarked Chinook landed in Tokeland, which are illegal to retain, from the fishery during this same week (*See attachment: 2023 WB Marine Area Recreational Catch Estimate Summary Wk 35 Draft 08.29.2023.pdf*)

For this week, August 28 – Sept 3, there will be early morning minus low tides from Monday, August 28, through Friday, September 2, and high tides in the afternoon. There will also be larger tidal exchanges between high and low tides this week compared to last week. Unfortunately, these tides are not as favorable for salmon fishing in Willapa Bay, but the weather will remain cooler in the 60's for the week.

There were emergency regulations issued for Marine areas 1 – 4 effective August 26th that includes adjusting coho salmon from mark selective to non-mark selective. If you are interested in any of these regulations and data collected by the Ocean Sampling Program for Ocean Areas 1- 4, you can find those data on our website at [Ocean sport salmon quota report | Washington Department of Fish & Wildlife](#).

Spawning Ground Surveys

Staff have continued walking stream surveys below the weirs in Nemah and Naselle rivers since August 2nd. To-date, we have observed approximately 96 adult Chinook salmon, 30 jack Chinook salmon, and two steelhead staging in the Naselle River, however, there still have only been a few Chinook salmon observed in the Nemah River. There have only been a few Chinook carcasses found in Naselle River, but no Chinook carcasses have been found in Nemah River. To-date, we have not observed any spawning or found any redds in either of these river

sections. Historically, Chinook salmon begin spawning in Willapa Bay rivers the middle of September.

Hatchery Chinook Rack Returns

Naselle River Hatchery

To-date, 410 adult and 36 jack hatchery Chinook salmon have volunteered into the attraction channel and recruited into the hatchery. There have also been 21 unmarked, Chinook salmon (17 males, 4 female) that have volunteered into the hatchery at this point, and all unmarked Chinook salmon have been planted upstream above the hatchery. To-date, there have been 80 Chinook salmon mortalities reported in the Naselle Hatchery. There are also 331 adult Chinook on-hand at the facility (males and females combined). These fish will be held in the facility until they are ready to be spawned. These data will be updated in the next weekly in-season email. (See attachment: *Naselle Hatchery Adult CHK Summary 08.29.2023.pdf* AND *2023 WB Hatchery Chinook Eggtake Draft 08.29.2023.pdf*)

Nemah and Forks Creek hatcheries

To-date, no Chinook salmon have recruited into the hatchery.

Commercial Fishery

The commercial fishery in Willapa Bay was open for one day Sunday, August 27 in commercial area 2N at the south end of the bay using tangle net gear. Seven boats participated in this fishery. There were 68 hatchery Chinook salmon and 1 coho landed from the fishery. The fleet accrued 3 local, natural origin Chinook impacts during this one-day fishery. This was 8.2% of the preseason predicted natural origin Chinook impacts for the week. Hatchery Chinook salmon encounters were also lower at 7.4% of the predicted preseason estimate for the week. Overall, the commercial fishery has accrued 14 local, natural origin Chinook impacts to-date, which is 20.5% of the preseason estimate of local, natural origin Chinook impacts for the last two weeks.

There is one-day opener scheduled for the commercial fishery today, August 31st in areas 2M and 2R using tangle net gear. Due to the lack of effort and low natural origin Chinook impacts accrued to-date, the Department has modified the fishery for August 31 to include area 2N as well with the same rules and gear. An update from this opener will be provided in next week's weekly update email.

As always, in-season data is preliminary and subject to change.

All data provided through these weekly email updates for the months of August and September will be posted to the Willapa Bay Marine Area 2.1 Recreational Creel Monitoring page of our website listed below.

If you have any comments or questions specific to the information provided in these emails, please submit your comments to WillapaBay@dfw.wa.gov.

Additionally, if you know of anyone who might be interested in receiving these in-season update emails or any other information staff send out regarding Willapa Bay fisheries, please forward this email and have them reply to WillapaBay@dfw.wa.gov stating they would like to be added to our email distribution list.

Thank you and Fish On! ><(((◦>

Barbara

Online reference links you may be interested in:

Willapa Bay Marine Area 2.1 Recreational Creel Monitoring: [Willapa Bay Recreational Salmon Reports | Washington Department of Fish & Wildlife](#)

Willapa Bay and Grays Harbor (non-treaty) Commercial Salmon fisheries (Regulations and landed catch): [Commercial Willapa Bay and Grays Harbor Gillnet Salmon Fishery | Washington Department of Fish & Wildlife](#)

2023 Willapa Bay Marine Area Recreational Catch Estimate

updated 8/30/2023

CHK = Chinook
AD = Adipose clipped (hatchery origin)
UM = Unmarked (natural origin)

CPUE = Catch per unit effort
Effort = An individual angler trip

Strata 1 - Mon - Thurs
Strata 2 - Fri - Sun

June-July (Ocean 2 Rules) Unmarked Chinook retention allowed

Mgmt Week	Expanded Data		Expanded Data - Chinook				Expanded Data - Coho				2 fish daily, only 1 Chinook allowed. No wild coho retention	Effective July 26, 2023, Friday and Saturdays, Release Chinook and wild coho.
	# Boats	# Anglers	Estimated Total Chinook Kept	Total Chinook CPUE	Estimated Total UM Chinook Kept	Willapa Origin Chinook UM Impacts	Estimated Total AD Chinook Kept	Willapa Origin Chinook AD Impacts	Estimated Total Coho Kept	Total Coho CPUE		
26	6	14	3	0.214	0	0	3	1	2	0.143	0	2
27	8	19	5	0.263	3	1	2	1	1	0.053	0	1
28	14	23	0	0.000	0	0	0	0	0	0.000	0	0
29	19	49	7	0.143	2	1	5	2	7	0.143	0	7
30	23	64	11	0.172	6	2	5	2	26	0.406	0	26
31	48	116	10	0.086	4	1	6	2	22	0.190	0	22
32	4	6	0	0.000	0	0	0	0	0	0.000	0	0
Season Total	122	291	36	0.124	15	5	21	7	58	0.199	0	58

Starting in 2021, we switched to electronic data collection. The raw, actual data is now produced from the uploads each day and week. A copy of the raw data is now stored in the Rec Fishery Monitoring/year/Data folder. These data for the table below can be found in the Rec Fishery Monitoring/year/Data/Weekly data summaries. Choose the data that matches the strata week.

August and September			Boats and Anglers				Chinook Retained - illegal to retain				Chinook Released				Marked Coho			Unmarked Coho			Total Coho										
Mgmt Week - see note below for raw data source	Dates	Strata	Actual Raw Data			Actual Raw Data			# 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)			
			# Boats Sampled	# Boats Not Sampled	# Total Boats	Expanded # Total Boats	Sample Rate	# Anglers Sampled																					# Anglers per boat	Expanded # Total Anglers	
32	8/1 - 8/3	1	Mon - Thur	13	2	15	31	48%	29	2.23	70	2	0.069	5	3	0	0.000	0	1	0.034	2	0	0	0	0	0.000	0	0.000	0		
32	8/4 - 8/6	2	Fri - Sun	22	1	23	36	64%	43	1.95	70	2	0.047	3	2	0	0.000	0	0	0.000	0	0	0	2	0.047	3	0	0.000	0	0.047	3
33	8/7 - 8/10	1	Mon - Thur	46	4	50	100	50%	93	2.02	202	15	0.161	33	20	0	0.000	0	5	0.054	11	2	1	0	0.000	0	0	0.000	0	0.000	0
33	8/11 - 8/13	2	Fri - Sun	100	3	103	155	67%	219	2.19	338	24	0.110	37	23	0	0.000	0	4	0.018	6	1	1	1	0.005	2	0	0.000	0	0.005	2
34	8/14 - 8/17	1	Mon - Thur	64	2	66	141	47%	127	1.98	281	7	0.055	15	9	0	0.000	0	6	0.047	13	2	1	1	0.008	2	0	0.000	0	0.008	2
34	8/18 - 8/20	2	Fri - Sun	96	11	107	172	62%	220	2.29	394	45	0.205	81	49	0	0.000	0	13	0.059	23	3	2	1	0.005	2	0	0.000	0	0.005	2
35	8/21 - 8/24	1	Mon - Thur	122	14	136	289	47%	256	2.10	607	81	0.316	192	117	0	0.000	0	12	0.047	28	4	2	2	0.008	5	1	0.004	2	0.012	7
35	8/25 - 8/27	2	Fri - Sun	145	90	235	375	63%	341	2.35	882	86	0.252	222	135	-1	0.003	3	21	0.062	54	8	5	10	0.029	26	6	0.018	16	0.047	41
36	8/28 - 8/31	1	Mon - Thur																												
36	9/1 - 9/3	2	Fri - Sun																												
37	9/4 - 9/7	1	Mon - Thur																												
37	9/8 - 9/10	2	Fri - Sun																												
38	9/11 - 9/14	1	Mon - Thur																												
38	9/15 - 9/17	2	Fri - Sun																												
39	9/18 - 9/21	1	Mon - Thur																												
39	9/22 - 9/24	2	Fri - Sun																												
40	9/25 - 9/28	1	Mon - Thur																												
40	9/29 - 9/30	2	Fri - Sat																												
TOTALS				608	127	735	1,299		1,328	2.18	2,844	262	0.197	588	357	1	0.001	3	62	0.047	139	19	12	17	0.013	39	7	0.005	18	0.018	57

2023 Willapa Bay Origin PreSeason Recreational Data

Preliminary/Draft
Updated 8/30/2023

Willapa Bay Natural-Origin Fall Chinook							Willapa Bay Hatchery-Origin Fall Chinook					
Mgmt Wk	Date	Harvest Rate Proportions	Preseason Prediction		In-season Estimate		Harvest Rate Proportions	Preseason Prediction		In-season Estimate		
			NOR	Cumulative Total	WB Origin	Cumulative Total		HOR	Cumulative Total	WB Origin	Cumulative Total	
26/27	June 24 - July 2	0.0109	0	0	1	1	0.0051	3	3	1	1	
28	July 3 - 9	0.0049	0	1	0	1	0.0072	4	8	0	1	
29	July 10 - 16	0.0276	1	2	1	2	0.0037	2	10	2	2	
30	July 17 - 23	0.0547	2	4	2	3	0.0364	22	32	2	4	
31	July 24 - 30	0.0241	1	5	1	5	0.0224	14	46	2	6	
32	July 31 - Aug 6	0.0440	2	7	0	5	0.1220	75	120	5	10	
33	Aug 7 - 13	0.0856	4	11	1	6	0.1368	84	204	42	53	
34	Aug 14 - 20	0.1814	8	19	3	9	0.2242	137	341	58	111	
35	Aug 21 - 27	0.2430	11	30	10	19	0.2123	130	471	252	363	
36	Aug 28 - Sept 3	0.1857	8	38	0		0.1598	98	568	0		
37	Sept 4 - 10	0.1130	5	43	0		0.0618	38	606	0		
38	Sept 11 - 17	0.0252	1	44	0		0.0077	5	611	0		
39	Sept 18 - 24	0.0000	0	44	0		0.0005	0	611	0		
40	Sept 25 - 30	0.0000	0	44	0		0.0000	0	611	0		
			44		19	0.433			611		363	0.594

Naselle Hatchery Adult Chinook Rack Returns

Preliminary/DRAFT *

8/30/2023

Year	2021						2022						2023 *					
Origin	Hatchery			Natural			Hatchery			Natural			Hatchery			Natural		
Stat Week	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing
31		0			0		1	1			0			0			0	
32	1	1		0	0		12	13	0%	0	0	0.0%	98	98	1%	5	5	0.8%
33	28	29	0%	3	3	0%	2	15	0%	0	0	0.0%	100	198	3%	3	8	1.3%
34	63	92	1%	0	3	0%	36	51	1%	6	6	1.0%	87	285	4%	5	13	2.1%
35	50	142	2%	1	4	1%	191	242	3%	17	23	3.7%	125	410	6%	8	21	3.3%
36	4	146	2%	0	4	1%	174	416	6%	15	38	6.0%		410	6%		21	3.3%
37	73	219	3%	4	8	1%	74	490	7%	11	49	7.8%		410	6%		21	3.3%
38	242	461	6%	14	22	3%	84	574	8%	6	55	8.7%		410	6%		21	3.3%
39	3,000	3,461	42%	0	22	3%	49	623	9%	2	57	9.0%		410	6%		21	3.3%
40	962	4,423	53%	137	159	21%	608	1,231	18%	53	110	17.5%		410	6%		21	3.3%
41	940	5,363	64%	81	240	32%	2549	3,780	54%	152	262	41.6%		410	6%		21	3.3%
42	2304	7,667	92%	388	628	85%	1696	5,476	79%	184	446	70.8%		410	6%		21	3.3%
43	306	7,973	96%	72	700	95%	619	6,095	88%	46	492	78.1%		410	6%		21	3.3%
44	230	8,203	98%	18	718	97%	463	6,558	94%	88	580	92.1%		410	6%		21	3.3%
45	88	8,291	99%	17	735	99%	207	6,765	97%	18	598	94.9%		410	6%		21	3.3%
46	36	8,327	100%	5	740	100%	98	6,863	99%	31	629	99.8%		410	6%		21	3.3%
47	7	8,334	100%	0	740		76	6,939	100%	0	629	99.8%		410	6%		21	3.3%
48	1	8,335		0	740		1	6,940	100%	0	629	99.8%		410	6%		21	3.3%
49	0	8,335		0	740		4	6,944	100%	0	629	99.8%		410	6%		21	3.3%
50	0	8,335		0	740		1	6,945	100%	1	630	100.0%		410	6%		21	3.3%
51	0	8,335		0	740		1	6,946	100%	0	630			410	6%		21	
Total	8,335			740			6,946			630			410			21		

2023 Willapa Bay CHINOOK Broodstock Summary

FishBooks updated 8/30/2023
preliminary/draft

Naselle Hatchery

Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawmed to-date	# Females still needed	# Adults On-hand at the facility (males & females combined)	# Eggs on Hand	Mortalities (prior to spawning)			CHINOOK surplus to-date		
									Females	Males	Jacks	Females	Males	Jacks
5,000,000	500,000	5,500,000	3,000	1,833	0	1,833	331	0	41	38	1	0	0	0
									Total	80		Total	0	

Nemah Hatchery

Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawmed to-date	# Females still needed	# Adults On-hand at the facility (males & females combined)	# Eggs on Hand	Mortalities (prior to spawning)			CHINOOK surplus to-date		
									Females	Males	Jacks	Females	Males	Jacks
3,300,000	330,000	3,630,000	3,000	1,210	0	1,210	0	0	0	0	0	0	0	0
									Total	0		Total	0	

Forks Creek Hatchery

Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawmed to-date	# Females still needed	# Adults On-hand at the facility (males & females combined)	# Eggs on Hand	Mortalities (prior to spawning)			CHINOOK surplus to-date		
									Females	Males	Jacks	Females	Males	Jacks
400,000	40,000	440,000	3,000	147	0	147	0	0	0	0	0	0	0	0
									Total	0		Total	0	

2023 Willapa Bay CHINOOK Landed Catch

Preliminary draft

2023 MSF Chinook		Catch Areas																				Total Basin Landed Catch	Basin NOR Origin Landed	Basin HOR Origin Landed
Stat Wk	Dates	2T				2U				2N				2R				2M						
		Total Landed	UM %	Landed NOR	Landed HOR	Total Landed	UM %	Landed NOR	Landed HOR	Total Landed	UM %	Landed NOR	Landed HOR	Total Landed	UM %	Landed NOR	Landed HOR	Total Landed	UM %	Landed NOR	Landed HOR			
33	Aug 13 - 19	Closed																						
34	Aug 20 - 26	Closed				Closed				48	NA	48	0	NA	0	246	NA	246	294	0	294			
35	Aug 27 - sept 2	Closed				Closed				68	NA	68		NA	0		NA	0	68	0	68			
36	Sept 3 - 9	Closed																						
37	Sept 10 - 16		NA	0		NA	0		NA	0		NA	0		NA	0		NA	0	0	0	0		
38	Sept 17 - 23		NA	0		NA	0		NA	0		NA	0		NA	0		NA	0	0	0	0		
39	Sept 24 - 30		NA	0		NA	0		NA	0		NA	0		NA	0		NA	0	0	0	0		
40	Oct 1 - 7		NA	0		NA	0		NA	0		NA	0		NA	0		NA	0	0	0	0		
41	Oct 8 - 14		NA	0		NA	0		NA	0		NA	0		NA	0		NA	0	0	0	0		
42	Oct 15 - 21	Closed																						
43	Oct 22 - 28	Closed																						
44	Oct 29 - Nov 4		NA			NA			NA			NA			NA			Closed		0	0	0		
45	Nov 5 - 11		NA			NA			NA			NA			NA			NA		0	0	0		
46	Nov 12 - 18		NA			NA			NA			NA			NA			NA		0	0	0		
47	Nov 19 - 25		NA			NA			NA			NA			NA			NA		0	0	0		
48	Nov 26 - 30		NA			NA			Closed				Closed					NA		0	0	0		
TOTAL LANDED		0		0	0			0	116			116	0			0	246			246	362	0	362	

2N, M, R, & T: Tangle Net Weeks 34-38

0

116

0

246

2U: Tangle Net Weeks 37-41

0

MSF & Small Mesh: Weeks 39-41, 44-48

0

0

0

0

0

Notes:

In Season Management actions:

1 E-reg: Open 2M and 2R on Aug 20, 2023 AND Close ALL commercial fishing on Aug 25, 2023

2023 Willapa Bay CHINOOK Impacts

Preliminary draft

Stat Wk	2T		2U		2N		2R		2M		In-Season Estimated Natural Origin Impacts		PRESEASON Predicted Natural Origin Impacts	
	In-season Total NOR Impacts	In-season Local NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	Weekly	Cumulative	Weekly	Cumulative
	33	Closed										0	0	0
34	Closed		Closed		2	2	0	0	11	10	11	11	34	34
35	Closed		Closed		4	3					3	14	35	69
36	Closed												0	69
37													92	161
38													124	285
39													73	358
40													41	399
41													16	415
42	Closed												0	415
43	Closed												0	415
44									Closed				0	415
45													0	415
46													0	415
47													0	415
48					Closed		Closed						0	415
TOTALS	0	0	0	0	6	4	0	0	11	10	14		415	

0.204456955

Tangle Net
MSF

0
0

0
0

4
0

0
0

10
0

2023 Willapa Bay COHO Commercial Catch and Impacts

Blue = Preliminary draft

Stat Wk	2T				2U				2N				2R				2M				WB in-season			WB PRESEASON Predicted				
	Total Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	Total Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	Total Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	Total Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	Total Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	NOR	HOR	Total	NOR	HOR	Total		
33	Closed																								0	0	0	
34	Closed				Closed				0	0.000	0	0	0	0.000	0	0	6	0.000	0	6	0	6	6	7	6	13		
35	Closed				Closed				1	0.000	0	1			0	0			0	0	0	1	1	17	7	24		
36	Closed																											
37																												
38																									882	2,557	3,439	
39																									3,503	13,190	16,693	
40																									3,272	11,803	15,075	
41																									3,021	7,596	10,617	
42																									2,564	3,296	5,860	
43	Closed																								0	0	0	
44	Closed																								0	0	0	
45																	Closed								894	434	1,328	
46																									513	342	855	
47																									555	326	881	
48	Closed												Closed													7	4	11
TOTALS	0		0	0	0		0	0	1		0	1	0		0	0	6		0	6	0	7	7	15,248	39,567	54,815		
Tangle Net	0		0	0	0		0	0	1		0	1	0		0	0	6		0	6								
Small mesh	0		0	0	0		0	0	0		0	0	0		0	0	0		0	0								
	0		0	0	0		0	0	1		0	1	0		0	0	6		0	6								