

Mcclellan, Barbara A (DFW)

From: Willapa Bay (DFW)
Sent: Thursday, September 7, 2023 8:08 AM
Subject: 2023 Willapa Bay Fisheries Update - week 36 Aug 28 - Sept 3
Attachments: 2023 WB Marine Area Recreational Catch Estimate Summary Wk 36 Draft 09.06.2023.pdf; Naselle Hatchery Adult CHK Summary 09.06.2023.pdf; 2023 WB Hatchery Chinook Eggtake Draft 09.06.2023.pdf; 2023 WB Commercial impacts by area total summary 09.01.2023.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

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 slight increase in the number of boats that were observed at Tokeland and South Bend for the marine recreational fishery but catch decreased by 60% from the previous week. The highest effort was recorded by staff on Sunday, September 3rd, and the highest catch was a tie recorded on Saturday, September 2 and Sunday, September 3rd. The overall weather conditions were cooler for the week and with larger tidal exchanges last week, there was a lot of water moving on each tide. There were 67 hatchery Chinook salmon, 62 hatchery coho, and 21 unmarked coho caught from the fishery from August 28 – September 3 and seen by staff in either Tokeland or South Bend dock locations. There were no unmarked Chinook landed and 27 unmarked Chinook were encountered then released from the fishery during this same week. (See attachment: 2023 WB Marine Area Recreational Estimate Summary Draft Week 36 09.06.02023.pdf)

For the upcoming week, Sept 4 - 10, there will be early morning high tides and low tides in the afternoon, and there will be smaller 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.

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

In the last week, staff have observed approximately 204 adult Chinook salmon staging in the Naselle River, and seven carcasses were found. Since last week, staff have now observed approximately 161 adult and seven jack Chinook salmon staging in the Nemah River. No carcasses have been found in the Nemah River at this point. To-date, staff have not observed any spawning or redds in either of these river sections. Staff started spawner surveys in the South Fork Willapa River this week and will survey Trap Creek and Lower Willapa River later this

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

Hatchery Chinook Rack Returns

Naselle River Hatchery

To-date, 597 adult and 40 jack hatchery Chinook salmon have volunteered into the attraction channel and recruited into the hatchery. There have also been 40 unmarked, Chinook salmon (31 males, 9 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 107 Chinook salmon mortalities reported in the Naselle Hatchery. There are also 453 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 09.06.2023.pdf* AND *2023 WB Hatchery Chinook Eggtake Draft 09.06.2023.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 Thursday, August 31 in commercial area 2N, 2M, and 2R at the south end of the bay using tangle net gear. Fifteen boats participated in this fishery. There were 372 hatchery Chinook salmon and 11 coho landed from the fishery on this day. The fleet accrued 14 local, natural origin Chinook impacts during this one-day fishery. Hatchery Chinook salmon encounters were also lower at 47.7% of the predicted preseason estimate for the week. Overall, the commercial fishery has accrued 28 Willapa natural origin Chinook impacts to-date in the last two weeks. (See attachment: *2023 WB Commercial impacts by areas total summary 09.01.2023.pdf*)

The Department has modified the commercial fishery for Thursday, September 7, opening commercial areas 2N, 2M, and 2R for an 8-hour fishery using tangle net gear due to the availability of hatchery Chinook and coho and remaining natural-origin Chinook impacts available during this week. 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 9/6/2023

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 28, 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	Estimated Total UM Coho Kept			Estimated Total AD Coho Kept
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 start 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	Strata Description	Actual Raw Data			Expanded # Total Boats	Sample Rate	Actual Raw Data			Expanded # Total Anglers	# CHK AD Kept	CHK AD CPUE	Expanded # CHK AD Kept	# WB Origin CHK AD Impacts	# CHK UM Kept	CHK UM CPUE	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			# Anglers Sampled	# Anglers per boat	# CHK AD Kept																						CHK AD CPUE
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	0.000	0	0	0.000	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	291	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	99	5	104	216	48%	197	1.99	431	24	0.122	52	32	0	0.000	0	11	0.056	24	3	2	14	0.071	31	8	0.041	17	0.112	48		
36	9/1 - 9/3	2	Fri - Sun	192	39	231	361	64%	449	2.34	843	43	0.096	81	49	0	0.000	0	17	0.038	32	4	3	48	0.107	90	13	0.029	24	0.136	115		
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				899	171	1,070	1,877		1,974	2.20	4,118	329	0.167	722	438	1	0.001	3	90	0.046	195	27	17	79	0.040	160	28	0.014	60	0.054	220		

2023 Willapa Bay Origin PreSeason Recreational Data

Preliminary/Draft
Updated 9/6/2023

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	5	24	0.1598	98	568	81	444
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		24	0.541	611			444	0.726

Naselle Hatchery Adult Chinook Rack Returns

Preliminary/DRAFT *

9/6/2023

Year	2021						2022						2023 *					
	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%	178	178	3%	8	8	1.3%
33	28	29	0%	3	3	0%	2	15	0%	0	0	0.0%	75	253	4%	3	11	1.7%
34	63	92	1%	0	3	0%	36	51	1%	6	6	1.0%	111	364	5%	7	18	2.9%
35	50	142	2%	1	4	1%	191	242	3%	17	23	3.7%	48	412	6%	8	26	4.1%
36	4	146	2%	0	4	1%	174	416	6%	15	38	6.0%	144	556	8%	15	41	6.5%
37	73	219	3%	4	8	1%	74	490	7%	11	49	7.8%		556	8%		41	6.5%
38	242	461	6%	14	22	3%	84	574	8%	6	55	8.7%		556	8%		41	6.5%
39	3,000	3,461	42%	0	22	3%	49	623	9%	2	57	9.0%		556	8%		41	6.5%
40	962	4,423	53%	137	159	21%	608	1,231	18%	53	110	17.5%		556	8%		41	6.5%
41	940	5,363	64%	81	240	32%	2549	3,780	54%	152	262	41.6%		556	8%		41	6.5%
42	2304	7,667	92%	388	628	85%	1696	5,476	79%	184	446	70.8%		556	8%		41	6.5%
43	306	7,973	96%	72	700	95%	619	6,095	88%	46	492	78.1%		556	8%		41	6.5%
44	230	8,203	98%	18	718	97%	463	6,558	94%	88	580	92.1%		556	8%		41	6.5%
45	88	8,291	99%	17	735	99%	207	6,765	97%	18	598	94.9%		556	8%		41	6.5%
46	36	8,327	100%	5	740	100%	98	6,863	99%	31	629	99.8%		556	8%		41	6.5%
47	7	8,334	100%	0	740		76	6,939	100%	0	629	99.8%		556	8%		41	6.5%
48	1	8,335		0	740		1	6,940	100%	0	629	99.8%		556	8%		41	6.5%
49	0	8,335		0	740		4	6,944	100%	0	629	99.8%		556	8%		41	6.5%
50	0	8,335		0	740		1	6,945	100%	1	630	100.0%		556	8%		41	6.5%
51	0	8,335		0	740		1	6,946	100%	0	630			556	8%		41	
Total	8,335			740			6,946			630			556			41		

2023 Willapa Bay CHINOOK Broodstock Summary

FishBooks updated 9/6/2023
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	453	0	51	53	3	0	0	0
									Total	107		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																				Total Basin Landed Catch	Basin NOR Origin Landed	Basin HOR Origin Landed
Stat Wk	Dates	Catch Areas																						
		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				172	NA	172	0	NA	0	268	NA	268	440	0	440			
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			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			NA		0	0	0
TOTAL LANDED		0		0	0			0	220			220	0			0	514			514	734	0	734	

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

0

2U: Tangle Net Weeks 37-41

0
0

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

0

220

0

0

0

514

0

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		7	5	0	0	13	11	17	28	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	9	7	0	0	23	21	28		415	

0.405

Tangle Net

0
0

0
0

7
0

0
0

21
0

MSF

