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From: Willapa Bay (DFW)
Sent: Thursday, September 1, 2022 12:55 PM
Subject: 2022 Willapa Bay Fisheries Update August 22 - 28 - week 35
Attachments: 2022 WB Marine Area Recreational Data & Catch Estimate Summary Draft 08.30.2022.pdf; Naselle Hatchery Adult CHK Summary 09.01.2022.pdf; 2022 WB Hatchery Chinook Eggtake 09.01.2022.pdf; 2022 WB Commercial Impacts by area total catch week 35 DRAFT 08.29.22.pdf

Hi Everyone,

If you have any questions or comments regarding any of the information provided through these emails for the 2022 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, we have observed a moderate increase in the number of boats that were interviewed dockside, however, the number of anglers decreased by 43% in the recreational marine fishery between August 22 – 28, with the highest effort on Saturday, August 27. There was more effort on the weekend than compared to the weekdays last week. The number of hatchery Chinook salmon retained decreased by 13 fish compared to the previous week and the number of unmarked Chinook encounters decreased by 45% as well. There were an estimated 179 hatchery Chinook salmon, three hatchery coho and no wild coho or wild Chinook salmon landed over the last week. There were an estimated 68 wild Chinook salmon released by anglers during the same timeframe. (See attachment: 2022 WB Marine Area Recreational Data & Catch Estimate Summary Draft 08.30.2022.pdf)

Last week, August 22 – 28, there were late morning and early afternoon high tides along with a few minus tides that occurred from August 24-28th. Unfortunately, these tides are not as favorable for salmon fishing in Willapa Bay, but the weather did remain in the high 60's for the week. For this upcoming week, there will be two high tides in Willapa Bay starting Thursday, September 1 through Sunday, September 4. This tidal series will start with larger tidal exchanges but by Friday, September 2, there will only be a 2-3-foot tide change between low and high water.

Please see our emergency rules page of our website for details on any rule changes <https://wdfw.wa.gov/fishing/regulations/emergency-rules>

If you are interested in any data collected by the Ocean Sampling Program for Ocean Areas 1- 4, you can find those data on our website at <https://wdfw.wa.gov/fishing/reports/creel/ocean>

Spawning Ground Surveys

Staff have continued walking stream surveys below the weir in Naselle and Nemah rivers since August 2nd. As of yesterday August 31, staff have observed approximately 148 live Chinook salmon and two live coho in the Naselle River. There were 108 live Chinook salmon in the Nemah River staging below the weir. We have not observed any spawning or redds in either of these river section to-date. It is still a little early for Chinook spawning in Willapa Bay and salmon spawner surveys will continue weekly as we move forward through the fall season.

Hatchery Chinook Rack Returns

Naselle River Hatchery

To-date, 383 adult and 17 jack Chinook salmon have volunteered into the attraction channel and recruited into the hatchery. There have been 27 unmarked Chinook salmon that have volunteered into the hatchery at this point, and all have been planted upstream of the weir. Currently, there have been 24 Chinook salmon mortalities (10 males, 13 females, one jack) reported in the Naselle Hatchery. These data will be updated in the next weekly in-season email. To-date, through statistical week 35, there are 244% more hatchery Chinook salmon that have recruited into the Naselle Hatchery compared to this same management week last year (2021). (See attachment: *Naselle Hatchery Adult CHK Summary 09.01.2022.pdf* and *2022 WB Hatchery Chinook Eggtake 09.01.2022.pdf*)

Nemah and Forks Creek hatcheries

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

Commercial Fishery

The commercial fishery opened last Friday, August 26, for one day in commercial areas 2N and 2M at the south end of the bay. Twenty-two boats participated in this one-day fishery using tangle net gear. There were 710 hatchery Chinook salmon and 13 hatchery coho landed from the fishery. The fleet accrued 44 local natural origin Chinook impacts during this one-day opener. Hatchery and natural Chinook salmon encounters were slightly higher than predicted preseason for statistical week 35. Effort was consistent with what we expected and similar to last year for this same week. (See attachment: *2022 WB Commercial Impacts by area total catch week 35 Draft 08.29.2022.pdf*)

This week, the commercial fishery will be open for fishing Friday, September 2, in areas 2N and 2M at the south end of the bay using tangle net gear. An update from this one-day 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](#)

In-season Estimates of Effort and Salmon Catch

updated 9/1/2022

2022 Willapa Bay Marine Area Recreational Mark Selective Chinook and Coho Fishery

All data is preliminary and subject to change

Marked = Adipose fin clipped

Unmarked = Adipose fin not clipped

WB = Willapa Bay

Month	Week	Dates	Regulation	Estimated Catch					
				Estimated		Retained Chinook		Retained Coho	
				Boats	Anglers	Unmarked	Marked	Unmarked	Marked
July (Ocean Area 2 rules)	27	July 2-3	2 fish, 1 Chinook, No wild Coho retention allowed	13	38	4	3	0	7
	28	July 4 - 10		27	55	0	0	0	7
	29	July 11 - 17		14	34	3	1	0	12
	30	July 18 - 24		46	99	1	7	0	6
	31	July 25 - 31		80	180	0	13	0	6
Total to Date				180	406	8	24	0	38

Estimated Willapa origin Chinook Impacts	
Unmarked	Marked
1	1
0	0
1	0
0	2
0	4
2	7

For July, dockside sampling was conducted only at the Tokeland boat launch and marina

Month	Week	Dates	Regulation	Estimated Catch						Estimated Encounters			Estimated Catch						
				Estimated		Retained Chinook				Released Chinook			Retained Coho						
				Boats	Anglers	Marked	Marked CPUE	Marked WB origin impacts	Unmarked	UM CPUE	UM WB origin impacts	Unmarked Encounters	UM CPUE	UM WB origin impacts	Marked	Marked CPUE	Unmarked	Unmarked CPUE	
August	32	Aug 1 - 7	6 fish daily, 2 adults, Release wild Chinook	168	356	39	0.108	24	0	0.000	0	3	0.009	0	0	0.000	0	0.000	
	33	Aug 8 - 14		214	470	23	0.050	14	0	0.000	0	6	0.013	1	2	0.003	2	0.003	
	34	Aug 15 - 21		514	1,164	192	0.165	118	1	0.001	3	124	0.107	11	3	0.003	2	0.002	
	35	Aug 22 - 28		845	662	179	0.271	110	0	0.000	0	68	0.103	6	3	0.004	0	0.000	
September	36	Aug 29 - Sept 4																	
	37	Sept 5 - 11																	
	38	Sept 12 - 18																	
	39	Sept 19 - 25																	
	40	Sept 26 - 30																	
Total to Date				1,742	2,653	434		267	1		3	202		17	7		4		

These data represent the estimated expanded values (not raw data).

No jacks included in estimates.

For Aug and Sept., dockside sampling was conducted at Tokeland and South Bend

Strata 1 - Mon - Thurs

Strata 2 - Fri - Sun

CPUE = Catch per unit effort

Effort = An individual angler trip

2022 Willapa Bay Origin PreSeason Recreational Data

Preliminary/Draft

Updated 9/1/2022

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
27	7/2 - 7/3	0.0308	2	2	1	1	0.0046	5	5	1	1
28	7/4 - 7/10	0.0185	1	3	0	1	0.0069	8	13	0	1
29	7/11 - 7/17	0.0875	6	9	1	2	0.0087	10	24	0	1
30	7/18 - 7/ 24	0.0543	4	13	0	3	0.0303	35	59	2	3
31	7/25 - 7/31	0.1060	7	20	0	3	0.0276	32	91	4	8
32	8/1 - 8/7	0.0776	5	25	0	3	0.1101	128	219	24	31
33	8/8 - 8/14	0.0839	6	31	1	3	0.1441	168	387	14	46
34	8/15 - 8/21	0.1364	9	40	14	17	0.2179	254	640	118	164
35	8/22 - 8/28	0.1618	11	51	6	23	0.2391	278	919	110	275
36	8/29 - 9/4	0.0931	6	58			0.1226	143	1,061		
37	9/5 - 9/11	0.0835	6	63			0.0631	73	1,135		
38	9/12 - 9/18	0.0203	1	65			0.0214	25	1,160		
39	9/19 - 9/25	0.0349	2	67			0.0012	1	1,161		
40	9/26 - 9/30	0.0117	1	68			0.0010	1	1,162		
			68		23	0.338	1,164			275	0.236

Naselle Hatchery Adult Chinook Rack Returns

Preliminary/DRAFT *

9/1/2022

Year	2019						2020						2021						2022*					
	Hatchery			Natural			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	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing
31	1	1	0%	1	1	1%	-	-		-	-			0		0			0		0			
32	9	10	0%	0	1	1%	-	-		-	-		1	1		0	0		9	9	3%	0	0	0.0%
33	23	33	1%	3	4	2%	17	17	0%	0	0	0%	28	29	0%	3	3	0%	6	15	4%	0	0	0.0%
34	48	81	3%	5	9	5%	59	76	1%	3	3	0%	63	92	1%	0	3	0%	36	51	14%	6	6	22.2%
35	145	226	9%	7	16	8%	52	128	2%	6	9	1%	50	142	2%	1	4	1%	128	179	50%	12	18	66.7%
36	347	573	23%	24	40	20%	107	235	4%	5	14	2%	4	146	2%	0	4	1%	177	356	100%	9	27	100.0%
37	373	946	38%	9	49	25%	649	884	13%	34	48	7%	73	219	3%	4	8	1%		356			27	
38	150	1,096	44%	0	49	25%	372	1256	19%	3	51	8%	242	461	6%	14	22	3%		356			27	
39	86	1,182	47%	12	61	31%	1,600	2856	43%	6	57	9%	3,000	3,461	42%	0	22	3%		356			27	
40	32	1,214	49%	11	72	37%	892	3748	56%	6	63	10%	962	4,423	53%	137	159	21%		356			27	
41	521	1,735	69%	41	113	58%	874	4622	69%	178	241	37%	940	5,363	64%	81	240	32%		356			27	
42	406	2,141	86%	17	130	66%	1122	5744	86%	228	469	72%	2304	7,667	92%	388	628	85%		356			27	
43	315	2,456	98%	59	189	96%	407	6151	92%	118	587	91%	306	7,973	96%	72	700	95%		356			27	
44	26	2,482	99%	5	194	99%	492	6643	99%	59	646	100%	230	8,203	98%	18	718	97%		356			27	
45	15	2,497	100%	1	195	99%	26	6669	100%	1	647	100%	88	8,291	99%	17	735	99%		356			27	
46	1	2,498	100%	0	195	99%	10	6679	100%	0	647	100%	36	8,327	100%	5	740	100%		356			27	
47	0	2,498	100%	1	196	100%	1	6680	100%	0	647		7	8,334	100%	0	740			356			27	
48	0	2,498	100%	0	196		0	6680		0	647		1	8,335		0	740			356			27	
49	2	2,500	100%	0	196		0	6680		0	647		0	8,335		0	740			356			27	
50	0			0	196		0	6680		0	647		0	8,335		0	740			356			27	
51	0			0	196		0	6680		0	647		0	8,335		0	740			356			27	
Total	2,500			196			6,680			647			8,335			740			356			27		

2022 Willapa Bay CHINOOK Broodstock Summary

FishBooks

updated 9/1/2022

preliminary/draft

Naselle Hatchery

Program Release	10% add'l for mortality	Total eggs needed	Fecundity # eggs/female	# of Females Needed	# Females Spawned to-date	# Females still needed	# Adults On-hand at the facility (males & females combined)	# Eggs on Hand	Mortalities (prior to spawning)		
									Females	Males	Jacks
5,000,000	500,000	5,500,000	3,000	1,833	0	1,833	333	0	13	10	1

Nemah Hatchery

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

Forks Creek Hatchery

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

Preliminary Draft

2022 WB Commercial Total CHINOOK NOR Fishery Impacts Summary

Stat Weeks	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										Closed		Closed
34	Closed		Closed		Closed		Closed		Closed		Closed		Closed	
35	Closed		Closed		49	39	Closed		5	5	44	44	31	31
36	Closed		Closed				Closed				0	44	22	53
37	Closed		Closed				Closed				0	44	20	73
38							Closed				0	44	62	135
39											0	44	86	221
40											0	44	49	270
41											0	44	29	300
42											0	44	24	324
43	Closed										0	44		324
44	Closed													
45											0	44	0	324
46											0	44	0	324
47											0	44	0	324
48	Closed													
Totals	0	0	0	0	49	39	0	0	0	0	44	44	324	324