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From: Willapa Bay (DFW)
Sent: Thursday, August 11, 2022 1:20 PM
Subject: 2022 Willapa Bay Fisheries Update for July through Aug 7 - weeks 27- 32
Attachments: 2022 WB Marine Area Recreational Data & Catch Estimate Summary Draft 08.09.2022.pdf; Naselle Hatchery Adult CHK Summary 08.09.2022.pdf; 2022 WB Hatchery Chinook Eggtake 08.09.2022.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Everyone,

It's that time of year again where the regional staff for Willapa Bay will be providing in-season weekly fishery updates. These emails will be sent using the Willapa Bay email, WillapaBay@dfw.wa.gov. 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

The Willapa Bay recreational marine fishery opened on July 2 and continued through July 31, 2022, under Ocean Area 2 rules. Our recreational creel monitoring began on opening day and included the Tokeland boat launch and marina. We had a slow start to the 2022 salmon fishing season as effort has been similar to last year during this same timeframe in July, but we did see effort pick up in the last week of July compared to previous weeks. This may be due to several factors including salmon not yet available inside Willapa Bay during the early part of the season or few fishable tides (high tide in the middle of the day or big tidal exchanges). There were only a few days in July when high water occurred first thing in the morning (the most favored tide for Willapa Bay marine recreational). A midday high tide may have contributed to less fish biting, which may have discouraged some anglers, but a lot of anglers we interviewed were out enjoying the sunshine and crabbing in the early weeks. Staff reported 32 Chinook salmon (8 wild, 24 hatchery) and 38 hatchery coho landed in July.

August 1st signified a change in regulations from Ocean Area 2 rules to Willapa Bay specific rules. The biggest changes in regulations compared to the 2021 season include the retention of wild coho is allowed and the Willapa Bay Control Zone is closed through September 30. During August and September, staff will monitor dockside locations that include both the Tokeland boat launch and marina and the South Bend boat launch two days per strata (strata 1: Monday – Thursday; strata 2: Friday – Sunday). Staff have seen an increase in effort the first full week of August with the highest effort and catch on Sunday, August 7. The increase in effort resulted in more hatchery Chinook salmon caught and no coho were landed at either port. There were 39 hatchery Chinook salmon landed in the first week from August 1 – 7. There were several morning tides from August 3 – 6 with small tidal exchanges, which may have contributed to more fish biting. The overall weather conditions were a bit cooler in the morning as well. (See *attachment: 2022 WB Marine Area Recreational Data & Catch Estimate Summary Draft 08.09.2022.pdf*)

For the upcoming week, August 8 – 14, there will be late morning and early afternoon high tides (11 a.m. – 3:30 p.m.) with larger tidal exchanges that include minus tides at low water. This tide series will continue through the weekend and into Monday, August 15, when we will transition back to morning tides that will be more favorable to salmon fishing starting on Wednesday, August 17.

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 [Ocean sport salmon quota report | Washington Department of Fish & Wildlife](#)

Spawning Ground Surveys

Staff started weekly stream surveys on August 2nd below the weir in Nemah and Naselle rivers. We have observed roughly 40 Chinook salmon staging in the Naselle River, however, there have only been a few Chinook salmon observed in the Nemah River. At this point, we have not observed any spawning or 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, 14 adult and 2 jack hatchery Chinook salmon have volunteered into the attraction channel and recruited into the hatchery. There have been no unmarked Chinook salmon that have volunteered into the hatchery at this point. Currently, there have been two Chinook salmon mortalities (both males) reported in the Naselle Hatchery that were due to predation. These data will be updated in the next weekly in-season email. (See attachment: *Naselle Hatchery Adult CHK Summary 08.09.2022.pdf* and *2022 WB Hatchery Chinook Eggtake 08.09.2022.pdf*)

Nemah and Forks Creek hatcheries

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

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 8/11/2022

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

Foruly, 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	170	359	39	0.108	24	0	0.000	0	3	0.009	0	0	0.000	0	0.000
	33	Aug 8 - 14																
	34	Aug 15 - 21																
	35	Aug 22 - 28																
September	36	Aug 29 - Sept 4	6 fish daily, 2 adults, Release wild Chinook															
	37	Sept 5 - 11																
	38	Sept 12 - 18																
	39	Sept 19 - 25																
	40	Sept 26 - 30																
Total to Date				170	359	39		24	0		0	3		0	0		0	

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 8/11/2022

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	32
33	8/8 - 8/14	0.0839	6	31			0.1441	168	387		
34	8/15 - 8/21	0.1364	9	40			0.2179	254	640		
35	8/22 - 8/28	0.1618	11	51			0.2391	278	919		
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		3	0.041	1,164			32	0.027

Naselle Hatchery Adult Chinook Rack Returns

Preliminary/DRAFT *

8/11/2022

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

2022 Willapa Bay CHINOOK Broodstock Summary

FishBooks

updated 8/11/2022

preliminary/draft

Naselle Hatchery

as of 08/09/2022

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	12	0	0	2	0

Nemah Hatchery

as of 08/09/2022

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

as of 08/09/2022

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