Mcclellan, Barbara A (DFW)

From:	Willapa Bay (DFW)
Sent:	Thursday, September 2, 2021 9:25 PM
Subject:	2021 Willapa Bay In-Season Update August 23 - 29 - management week 35
Attachments:	2021 WB Marine Area Recreational Data & Catch Estimate Summary Draft week 35.pdf; Naselle Hatchery Adult CHK Summary 09.02.2021.pdf; 2021 WB Hatchery Chinook Eggtake 09.02.2021.pdf; 2021 WB Commercial Impacts by area total catch summary week 35 09.02.2021.pdf
Follow Up Flag:	Follow up
Flag Status:	Flagged

Hi Everyone,
This week's email will provide you an in-season update on the Willapa Bay marine area 2.1 recreational fishery from August 23-29, 2021 (management week 35), information on hatchery Chinook broodstock at our Willapa Bay facilities, spawning ground surveys, and the Willapa Bay commercial fishery.

Recreational Marine Fishery

Starting August 1, the Willapa Bay program monitors the recreational marine fishery in Tokeland and South Bend two days per strata (strata 1: Monday – Thursday, strata 2: Friday – Sunday). We are also conducting boat surveys and test fishing. The boat survey allows us to evaluate the proportion of effort that exits the fishery at sampled (Tokeland and South Bend) vs. non-sampled locations. We use this information to expand our actual sampled data collected dockside to the rest of the recreational fishery to account for any boats that may have left the fishery from other locations. The test fishing allows us to collect unmarked Chinook genetics, which are illegal to retain as of August 1, and represents the same time, area, and fishing methods of the recreational salmon fishery in Willapa Bay.

Since our last update, we saw a moderate decrease in effort over the last management week, however, catch of hatchery Chinook salmon increased slightly for the week. There was more effort over the weekend compared to the days prior. Effort decreased by 19% compared to the previous week but resulted in a few more hatchery Chinook salmon and hatchery coho caught. Our dockside staff reported our highest number of landed fish on Sunday, August 29. There were afternoon high tides as well as minus low water tides, which typically contributes to less fish biting. By Saturday, August 28, there were fishable high tides first thing in the morning, which many anglers agree are ideal to fish within Willapa Bay
(See attachment: 2021 WB Marine Area Recreational Data & Catch Estimate Summary Draft week 35.pdf)

The boat survey work shows 97.3% of the boats fishing this year in the Willapa Bay marine area 2.1 are exiting the fishery either in Tokeland or South Bend. This is a slight increase compared to the previous week. These are the locations where we have staff

dockside monitoring four days a week. Only 2.7% of boats are exiting the fishery at a location not monitored by our dockside staff.

For this week, there are still morning high tides with a smaller tidal exchange and no minus tides at low water. This tide series will continue through Saturday, September 4, when we will transition back to larger tidal exchanges (minus tides to 7+ foot high tides) that will be less favorable. Labor Day is this Monday, September 6. Traditionally, effort has been high through Labor Day weekend.

Hatchery Chinook Rack Returns

Naselle Hatchery:
To-date, 149 adult and 14 jack Chinook salmon have volunteered into the attraction channel and recruited into the hatchery. Of these 149 Chinook salmon, four adult males and one jack were unmarked, and hatchery staff passed these fish upstream above the weir. To-date, there have been 11 Chinook salmon mortalities (5 male, 6 females, 0 jacks) reported in the Naselle Hatchery. Currently, only 62% of the total number of hatchery Chinook salmon have recruited into the Naselle Hatchery compared to this same management week last year (2020).
(See attachments: *Naselle Hatchery Adult CHK Summary 09.02.2021.pdf AND 2021 WB Hatchery Chinook Eggtake 09.02.2021.pdf*)

Nemah Hatchery:
To-date, no fall Chinook salmon have recruited into the hatchery.

Forks Creek Hatchery:
To-date, five adults (0 jacks) have recruited into the hatchery. All five were hatchery males and these fish were surplussed.

These data will be updated in the next weekly in-season email.

Spawning Ground Surveys

Staff have continued walking stream surveys below the weir in Nemah and Naselle rivers since August 2, 2021. No spawning activity or redds have been observed in either location. Staff have observed approximately 1,300 live Chinook in the Naselle River and approximately 225 live Chinook in the Nemah River staging below the weirs. Staff began to survey the Lower South Fork Willapa River, Trap Creek, and the mainstem Willapa River two weeks ago. Staff have witnessed a few live Chinook in the South Fork Willapa River over the last two weeks but no redds have been observed. It is still early for Chinook spawning in Willapa Bay. Traditionally, Chinook begin spawning in Willapa Bay rivers in the middle of September. The purpose of these early surveys this year are to check for fish staging in the river and document any Spring Chinook spawning from the one-time plant in 2018.

Commercial Fishery

The commercial fishery was open to fishing last week on Friday, August 27 in areas 2N and 2M. Twenty boats participated in this one-day fishery using tangle net gear. There were 1,092 hatchery Chinook salmon and 34 coho landed from the fishery. The fleet

also accrued 36 local natural origin Chinook impacts during this opener. Hatchery and natural Chinook encounters were higher than predicted preseason for statistical week 35. Effort was consistent with what we expected. (See attachment: *2021 WB Commercial Impacts by area total catch summary week 35 09.02.2021.pdf*)

This week, the commercial fishery will occur tomorrow, September 3, in areas 2N and 2M using tangle net gear. An update from this opener will be provided in next week's update email.

As mentioned above, 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 we 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 McClellan
Willapa Bay Fisheries Management
WDFW Region 6 Montesano

***We want to remind everyone that this distribution list is intended to be a pathway to disseminate information to those who have signed up to hear updates from Region 6 staff, and not a place to air your personal opinions. Folks who abuse the Willapa Bay mailer will be removed from the list without warning.*

Online reference links you may be interested in:
Willapa Bay Marine Area 2.1 Recreational Creel Monitoring: https://wdfw.wa.gov/fishing/reports/creel/willapa-bay
Willapa Bay and Grays Harbor (non-treaty) Commercial Salmon Fisheries (regulations and landed catch): https://wdfw.wa.gov/fishing/commercial/gillnet#information

In-season Estimates of Effort and Salmon Catch

updated 9/1/2021

2021 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

Month	Week	Dates	Regulation	Estimated		Catch Estimates				Estimated Willapa origin Chinook Impacts	
						Retained Chinook		Retained Coho			
				Boats	Anglers	Unmarked	Marked	Unmarked	Marked	Unmarked	Marked
June (Ocean Area 2 rules)	25	Jun 19 & 20	No Coho retention allowed	8	26	0	0	0	0	0	0
	26	June 21 - 27		9	22	0	0	0	1	0	0
	27	June 28 - Jul 4		13	32	0	0	0	0	0	0
July (Ocean Area 2 rules)	28	July 5 - 11	No wild Coho retention allowed	26	55	0	0	0	0	0	0
	29	July 12 - 18		26	63	0	2	0	3	0	1
	30	July 19 - 25		61	135	9	8	0	0	3	3
	31	July 26 - Aug 1		20	44	0	3	0	4	0	1
Total to Date				163	377	9	13	0	8	3	4

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

Month	Week	Dates	Regulation	Estimated		Estimated Catch						Estimated Encounters			Estimated Catch		
						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
August	31	8/1/2021 only	No wild coho or wild Chinook retention allowed	57	129	17	0.128	10	0	0.000	0	8	0.064	1	0	0.000	0
	32	Aug 2 - 8		301	633	59	0.094	37	0	0.000	0	20	0.032	2	6	0.009	0
	33	Aug 9 - 15		371	794	86	0.108	53	0	0.000	0	27	0.034	2	0	0.000	0
	34	Aug 16 - 22		591	1,317	145	0.110	90	0	0.000	0	69	0.052	6	3	0.002	2
	35	Aug 23 - 29		504	1,066	153	0.144	95	0	0.000	0	109	0.102	9	21	0.019	0
September	36	Aug 30 - Sept 5															
	37	Sept 6 - 12															
	38	Sept 13 - 19															
	39	Sept 20 - 26															
	40	Sept 27 - 30															
Total to Date				1,824	3,940	460		285	0		0	233		20	30		2

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

2021 Willapa Bay Origin PreSeason Recreational Data

Preliminary/Draft

Updated 9/1/2021

		Willapa Bay Natural-Origin Fall Chinook					Willapa Bay Hatchery-Origin Fall Chinook				
			Preseason Prediction		In-season Estimate			Preseason Prediction		In-season Estimate	
Mgmt Wk	Date	Harvest Rate Proportions	NOR	Cumulative Total	WB Origin	Cumulative Total	Harvest Rate Proportions	HOR	Cumulative Total	WB Origin	Cumulative Total
25	6/19 - 6/20	0.0338	0	0	0	0	0.0048	0	0	0	0
26	6/21 - 6/27	0.0338	0	0	0	0	0.0048	0	0	0	0
27	6/28 -7/4	0.0338	3	3	0	0	0.0048	4	4	0	0
28	7/5 - 7/11	0.0204	2	4	0	0	0.0072	6	10	0	0
29	7/12 - 7/18	0.0970	7	11	0	0	0.0089	8	18	1	1
30	7/19 - 7/25	0.0532	4	15	3	3	0.0312	27	44	3	3
31	7/26 - 8/1	0.1146	8	24	1	4	0.0278	24	68	11	14
32	8/2 - 8/8	0.0807	6	30	2	5	0.1114	95	163	37	51
33	8/9 - 8/15	0.0853	6	36	2	8	0.1449	124	287	53	104
34	8/16 -8/22	0.1363	10	46	6	14	0.2190	187	474	90	194
35	8/23 - 8/29	0.1552	11	57	9	23	0.2398	205	678	95	289
36	8/30 - 9/5	0.0755	6	63		23	0.1169	100	778		289
37	9/6 - 9/12	0.0791	6	69		23	0.0634	54	832		289
38	9/13 - 9/19	0.0178	1	70		23	0.0211	18	850		289
39	9/20 - 9/26	0.0384	3	73		23	0.0013	1	851		289
40	9/27 - 9/30	0.0128	1	74		23	0.0010	1	852		289
			74		23	0.311		853		289	0.339

Naselle Hatchery Adult Chinook Rack Returns

Preliminary/DRAFT *

9/2/2021

Year	2018						2019						2020						2021*					
Origin	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	0%	1	1	1%	-	-		-	-			0			0	
32	5	6	0%	-	-	-	9	10	0%	0	1	1%	-	-		-	-		1	1		0	0	
33	11	17	1%	2	2	0%	23	33	1%	3	4	2%	17	17	0%	0	0	0%	28	29	0%	3	3	0%
34	12	29	1%	3	5	1%	48	81	3%	5	9	5%	59	76	1%	3	3	0%	63	92	1%	0	3	0%
35	44	73	2%	7	12	2%	145	226	9%	7	16	8%	52	128	2%	6	9	1%	50	142	2%	1	4	1%
36	16	89	3%	5	17	3%	347	573	23%	24	40	20%	107	235	4%	5	14	2%	3	145	2%	0	4	1%
37	784	873	30%	87	104	21%	373	946	38%	9	49	25%	649	884	13%	34	48	7%			0%			0%
38	128	1,001	34%	7	111	23%	150	1,096	44%	0	49	25%	372	1256	19%	3	51	8%			0%			0%
39	123	1,124	38%	15	126	26%	86	1,182	47%	12	61	31%	1,600	2856	43%	6	57	9%			0%			0%
40	196	1,320	45%	65	191	39%	32	1,214	49%	11	72	37%	892	3748	56%	6	63	10%			0%			0%
41	560	1,880	64%	114	305	62%	521	1,735	69%	41	113	58%	874	4622	69%	178	241	37%			0%			0%
42	654	2,534	87%	85	390	80%	406	2,141	86%	17	130	66%	1122	5744	86%	228	469	72%			0%			0%
43	219	2,753	94%	36	426	87%	315	2,456	98%	59	189	96%	407	6151	92%	118	587	91%			0%			0%
44	166	2,919	100%	58	484	99%	26	2,482	99%	5	194	99%	492	6643	99%	59	646	100%			0%			0%
45	7	2,926	100%	5	489	100%	15	2,497	100%	1	195	99%	26	6669	100%	1	647	100%			0%			0%
46	0	2,926	100%	0	489		1	2,498	100%	0	195	99%	10	6679	100%	0	647	100%			0%			0%
47	0	2,926	100%	0	489		0	2,498	100%	1	196	100%	1	6680	100%	0	647				0%			
48	0	2,926	100%	0	489		0	2,498	100%	0	196		0	6680		0	647							
49	0	2,926	100%	0	489		2	2,500	100%	0	196		0	6680		0	647							
50	0	2,926	100%	0	489		0			0	196		0	6680		0	647							
51	1	2,927	100%	0	489		0			0	196		0	6680		0	647							
Total	**2,927**			**489**			**2,500**			**196**			**6,680**			**647**			**145**			**4**		

2021 Willapa Bay CHINOOK Broodstock Summary

FishBooks updated 9/2/2021 preliminary/draft

Naselle Hatchery

as of 09/02/2021

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	134	0	6	5	0

Nemah Hatchery

as of 09/02/2021

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 09/02/2021

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

2021 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													
34	Closed		Closed		32	24	Closed		Closed		24	24	15	15
35	Closed		Closed		5	4	Closed		35	32	36	60	24	39
36	Closed		Closed		0	0	Closed		0	0	0	60	24	63
37	Closed		Closed		0	0	Closed		0	0	0	60	23	86
38	0	0	0	0	0	0	Closed		0	0	0	60	50	136
39	0	0	0	0	0	0	0	0	0	0	0	60	47	183
40	0	0	0	0	0	0	0	0	0	0	0	60	38	221
41	0	0	0	0	0	0	0	0	0	0	0	60	7	228
42	0	0	0	0	0	0	0	0	0	0	0	60	18	246
43	0	0	0	0	0	0	0	0	0	0	0	60	4	250
44	Closed													
45	0	0	0	0	0	0	Closed		Closed		0	60	0	250
46	0	0	0	0	0	0	Closed		0	0	0	60	0	250
47	Closed		0	0	0	0	Closed		0	0	0	60	0	250
48	Closed													
Totals	0	0	0	0	36	28	0	0	0	0	60	60	**250**	**250**
MSF														