Mcclellan, Barbara A (DFW)

From: Willapa Bay (DFW)
Sent: Friday, October 9, 2020 2:27 PM
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Subject: 2020 Willapa Bay Recreational Marine Area Monitoring In-Season Update through October 9 - management week 41
Attachments: 2020 WB impacts by area total catch summary week 41 10.08.2020(2).pdf; 2020 WB Hatchery Chinook Eggtake 10.09.2020.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Everyone,
This email is to provide you a weekly in-season update on Willapa Bay fisheries, hatchery spawning, and spawner surveys through October 9, 2020 (statistical week 41).

Commercial Fishery

During last week's commercial fishery in Willapa Bay (statistical week 40), the Department issued an emergency regulation adding an additional day. This was due to a runsize of coho that appears to be larger than predicted preseason. This has been evaluated weekly utilizing two different modeling tools the Department has available. Early indications from these modeling tools suggests that preseason management objectives would still be attained for Chinook (14% impact rate cap), coho (13,600 natural origin spawners), and chum (10% impact rate cap).

This week, October 5 – 9, the commercial fishery was originally scheduled for two days of fishing but due to the same reason above, the coho runsize predicted larger than estimated preseason, the Department adjusted the commercial fishery via emergency regulation. The Department added an additional day to this week's schedule changing the commercial fishery from Monday (10/5) and Thursday (10/8) to Monday, Wednesday (10/7) and Friday (10/9). All other rules remained in effect. The Department is actively monitoring each day of the commercial fishery is open and analyzing the data as quickly as possible. (See attachment: *2020 WB impacts by area total catch summary week 41 10.08.2020(2).pdf*).

Hatchery Chinook Rack Returns

This is the second week of Chinook spawning at our facilities in Willapa Bay. We still have a high proportion of coho that have volunteered into all three facilities while still managing to spawn Chinook. However, we still have quite a few females that are still not ready to spawn. These fish have been returned to the pond and will hopefully be ready to spawn next week. (See attachment: *2020 WB Hatchery Chinook Eggtake 10.09.2020.pdf*)

Naselle Hatchery:

The Chinook program release goal for the Naselle Hatchery is 5,000,000 eggs. The increase in production for Naselle is directed at increasing prey availability for Southern Resident Killer Whales. To make program goal, we will need 1,833 females. To-date, we have spawned 824 female Chinook. To make the program goal, we still need an additional 1,009 female Chinook. Currently, we have 398 Chinook on-hand (males and females combined) in the pond. These fish on-hand will be kept in the pond until next week to be spawned if they are ready.

Nemah Hatchery:

The Chinook program release goal for the Nemah Hatchery is 3,300,000 eggs. To make program goal, we will need 1,210 females. To-date, we have spawned 590 female Chinook. To make program goal, we still need an additional 620 female Chinook. Currently, we have 2,133 Chinook on-hand (males and females combined) in the pond. Similar to Naselle Hatchery, these fish on-hand will be remain in the pond until we spawn next week.

Forks Creek Hatchery:

The Chinook program release goal for Forks Creek Hatchery is 400,000 eggs. To make program goal, we will need 147 females. To-date, we have spawned 19 Chinook and have 50 adults on hand at the

facility. This is due to the volume of coho that are in the pond as well as quite a few females not being ready to spawn. We typically make the Chinook program goal at Forks Creek.

Spawning Ground Surveys

It was another busy week for Chinook. We started walking our Chinook supplemental surveys this week in our high density spawning areas to capture as much data as possible before the rain event this weekend. We found big numbers of Chinook throughout the Naselle River system and below the weir on the Nemah River. The Willapa River saw increases in Chinook spawning this week, but it is off to slower start than the last few years. With the reduced plants, this was expected to happen. We hope the weather stays dry for a couple of weeks after the fish highways are paved with the rain this weekend. The next two weeks are the traditional "Peak Weeks" for most of our Chinook indexes. We will be busy fitting in the rest of our Chinook supplemental surveys in with our chum and Chinook indexes, as well as starting coho indexes in two weeks. We have observed a handful of chum in Canon River (Palix Basin), which is a few weeks earlier than we normally see them. There are strong numbers of live coho below the weir on the Naselle River and throughout the Willapa River system. We have not observed any coho spawning at this time, but we expect to start to see those over the next couple of weeks.

As always, in-season data is preliminary and subject to change. This email and any attachments will be posted to our website using the link provided below for the Willapa Bay and Grays Harbor (non-treaty) Commercial Salmon Fisheries (regulations and landed catch).

If you have any comments or questions regarding any of 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 weekly in-season updates or any other information we may send out regarding Willapa Bay fisheries, please forward this email and have them reply stating they would like to be added to our email distribution list.

Thank you and Happy Fishing!

Barbara McClellan

Willapa Bay Fisheries Management

WDFW Region 6 Montesano

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 Advisory Group: https://wdfw.wa.gov/about/advisory/wbsag

Willapa Bay and Grays Harbor (non-treaty) Commercial Salmon Fisheries (regulations and landed catch): https://wdfw.wa.gov/fishing/commercial/gillnet#information

2020 Willapa Bay CHINOOK Landed Catch

MSF

Preliminary Draft

Stat Week	Dates	Catch Areas																				Basin Total Landed	Basin Willapa Origin NOR Landed	Basin Willapa Origin HOR Landed
		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			
36	Aug. 30 -Sept. 5	Closed																				0	0	0
37	Sept. 6 - 12	0	N/A		0	262	N/A		262	49	N/A		49	Closed				Closed				311	0	311
38	Sept. 13 - 19	80	N/A		80	Closed				17	N/A		17	Closed				Closed				97	0	97
39	Sept. 20-26	21	N/A		21	39	N/A		39	0	N/A		0	Closed				95	N/A		95	155	0	155
40	Sept. 27 - Oct. 3	31	N/A		31	39	N/A		39	2	N/A		2	Closed				34	N/A		34	106	0	106
41	Oct. 4 - 10	11	N/A		11	11	N/A		11	0	N/A		0	Closed				10	N/A		10	32	0	32
42	Oct. 11-17	Closed					N/A		0		N/A		0	Closed					N/A		0	0	0	0
43	Oct. 18 - 24	Closed																				0	0	0
Total Landed		**143**		**0**	**143**	**351**		**0**	**351**	**68**		**0**	**68**	**0**		**0**	**0**	**139**		**0**	**139**	**701**	**0**	**701**

Wk 37 E-reg closing 2T 9/11/20
Wk 38 E-reg closed all areas 9/14/20, swtiching to tangle net gear on 9/17/20 and Only 2T and 2N open on 9/17/2020
Wk 40 E-reg to open three days week (Monday, Wednesday, Friday) instead of two (Monday & Thursday)
Wk 41 E-reg to open three days week (Monday, Wednesday, Friday) instead of two (Monday & Thursday)

2020 WB Total CHINOOK Fishery Impacts

MSF

Preliminary Draft

Actual Catch + impacts

Stat Weeks	2T		2U		2N		2R		2M		In-season NOR Impacts	In-season HOR Impacts	PRESEASON Total NOR Impacts (Local + Non local)	PRESEASON Total HOR Impacts (Local + Non local)
	NOR Impacts	HOR Impacts	NOR Impacts	HOR Impacts	NOR Impacts	HOR Impacts	NOR Impacts	HOR Impacts	NOR Impacts	HOR Impacts				
36														
37			106	279	2	51					108	330	32	579
38	12	80			2	17					14	97	76	646
39	12	23	11	43	0	0			25	95	48	161	32	175
40	36	50	27	47	1	3			18	46	82	146	21	113
41	12	11	3	11	0	0			2	10	17	32	11	57
42			0	0	0	0			0	0	0	0	4	20
43														
Totals	**73**	**164**	**147**	**380**	**4**	**70**	**0**	**0**	**45**	**151**	**269**	**766**	**176**	**1,590**

2020 WB Total CHINOOK NOR Fishery Impacts Summary

MSF

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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
36	Closed										0	0		
37	Emergency Closure 9/11		106	101	2	1	Closed		Closed		102	102	25	25
38	12	7	Emergency closure 9/14 & 9/17		2	1			Emergency closure 9/14 & 9/17		8	111	64	89
39	12	7	11	11	0	0			25	23	41	151	26	115
40	36	21	27	19	1	1			18	0	41	193	18	133
41	12	7	3	3	0	0			2	2	12	205	8	141
42	0	0	0	0	0	0			0	0	0	0	3	144
43	0	0	0	0	0	0			0	0	0	0	0	144
Totals	**73**	**43**	**147**	**134**	**4**	**3**	**0**	**0**	**45**	**25**	**205**	**205**	**144**	**144**
Tangle Net		15		112		2				23				

2020 Willapa Bay COHO Commercial Data

Preliminary Draft

Stat Week	2T				2U				2N				2R				2M				WB In-season			WB Preseason Predicted		
	Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	NOR	HOR	Total	NOR	HOR	Total
36	Closed																				0	0	0			
37	Closed				1,468	0.121	178	1,290	51	0.060	3	48	Closed				Closed				181	1,338	1,519	114	582	696
38	1,221	0.337	411	810	Closed				160	0.066	11	149	Closed				Closed				422	959	1,381	297	1,433	1,730
39	648	0.425	275	373	1,400	0.388	543	857	0	0.000	0	0	Closed				2,857	0.075	216	2,641	1,034	3,871	4,905	97	683	780
40	1,312	0.578	759	553	529	0.461	244	285	157	0.136	21	136	Closed				2,909	0.156	454	2,455	1,478	3,429	4,907	274	1,034	1,308
41	559	0.900	503	56	315	0.887	279	36	6	0.000	0	6	Closed				697	0.195	136	561	919	658	1,577	397	452	849
42	Closed												Closed								0	0	0	72	179	251
43	Closed																				0	0	0	0	0	0
Total	3,740		1,949	1,791	3,712		1,244	2,468	374		35	339	0		0	0	6,463		806	5,657	4,033	10,256	14,289	1,251	4,363	5,614

2020 Estimated WB Commercial CHUM Mortalities

yellow = Chum release required

Preliminary Draft

Gillnet release mortality + drop off	0.59
Tangle net + drop off	0.34

Stat Week	Landed Chum	Chinook Landed	Coho Landed	Encounter Ratio	Chum Encounters	In-season Estimated Chum		Preseason Predicted Chum Impacts	
						Weekly	Cumulative	Weekly	Cumulative
36	Closed					Closed		Closed	
37	0	311	1,519		0	0	0	2	2
38	0	97	1,381		0	0	0	6	8
39	11	155	4,905		0	11	11	7	15
40	229	106	4,907		0	229	240	51	66
41	593	32	1,577		0	593	833	1,010	1,076
42		0	0				0	567	1,643
43	Closed					Closed		Closed	
Totals	***833***	***701***	***14,289***		***0***	***833***		***1,643***	***1,643***

NR = Non-Retention

2020 Willapa Bay CHINOOK Broodstock Summary

10/9/2020 updated
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		
									Females	Males	Jacks
5,000,000	500,000	5,500,000	3,000	1,833	824	1,009	398	2,472,000	363	412	35

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		
									Females	Males	Jacks
3,300,000	330,000	3,630,000	3,000	1,210	590	620	2,133	1,770,000	431	705	46

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		
									Females	Males	Jacks
400,000	40,000	440,000	3,000	147	19	128	50	57,000	0	0	0