

Mcclellan, Barbara A (DFW)

From: Mcclellan, Barbara A (DFW)
Sent: Thursday, October 10, 2019 2:12 PM
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Cc:
Subject: 2019 Willapa Bay weekly update for stat week 40 and part of week 41
Attachments: 2019 WB Commercial Fishery Data thru 10.09.19.pdf; 2019 WB Hatchery Chinook Broodstock Summary 10.10.19.pdf

Hi Everyone,

Below is the weekly update for Willapa Bay. From this point forward, the weekly updates will be posted to the commercial salmon fishery page on our website starting with this update. See the last link at the bottom of the page. It will be listed under Willapa Bay.

Willapa Bay Commercial Fishery and Monitoring

Effort this week has been lower than anticipated in our model. Coho catch has been much lower than predicted to-date. The number of hatchery Chinook landed was considerably lower for the week compared to the preseason prediction. Currently to-date, we are below the prediction for unmarked Chinook encounters, coho, and chum. See attached filed: 2019 WB Commercial Fishery Data thru 10.09.19.pdf

Hatchery Rack Returns:

See attached file: 2019 WB Hatchery Chinook Broodstock Summary 10.10.19.xlsx

Naselle Hatchery:

There is a new Chinook program release goal for the Naselle Hatchery starting this year of 5,000,000. Last year's program release goal was 2,500,000 Chinook. This additional production is directed at increasing prey availability for Southern Resident Killer Whales. To-date, we have spawned 312 female Chinook. To make the new program goal, we still need an additional 1,355 female Chinook. Currently, we have 390 adult Chinook on-hand in the pond.

These fish on-hand will be kept in the pond until next week then we will attempt to spawn again. We also have a high proportion of coho that have volunteered into the hatchery.

Nemah Hatchery:

The Chinook program release goal for the Nemah Hatchery is 3,300,000. To-date, we have spawned 239 female Chinook. To make program goal we still need an additional 861 female Chinook. Currently, we have 665 adult Chinook on-hand in the pond. These fish will remain in the pond until next week's spawn.

Forks Creek Hatchery:

There is a new Chinook program release goal for Forks Creek Hatchery starting this year of 400,000. Last year's program release goal was 350,000 Chinook. This additional production is directed at increasing prey availability for Southern Resident Killer Whales. To-date, we have spawned 321 female Chinook. That is enough females to make the program release goal. Currently, we still have 224 adult Chinook on-hand in the facility. These fish will remain in the pond until next week's spawn.

Spawning Ground Surveys

We started walking all of our Chinook indexes two weeks ago (week 39) and most of the Chum indexes as well. We started to see Chinook spawning three weeks ago (week 38) in the Willapa, Nemah, and Naselle rivers and spawning is beginning to pick up. Peak Chinook spawning will be over the next month. We started our Chinook supplemental surveys this week (week 41). Chinook mortalities this week are lower compared to two weeks ago (week 39) and are currently at normal levels. We still have a large proportion of coho staging below the Naselle weir. To-date, we have not seen any chum in our spawning ground surveys.

Willapa Bay Salmon Advisory Group:

We have scheduled two advisory group meetings; one October 24 and one November 21. The purpose of these meetings is to review the draft comprehensive review document. These meetings are open to the public and both meetings will be held at the Raymond Elk Lodge in Raymond, WA from 6 p.m. to 8 p.m. The meetings have been posted to the advisory group page of our website. The link to the Willapa Bay advisory group page on our website is listed below.

As always, in-season data is preliminary and subject to change.

If you have any questions regarding any of the information provided, please reply to this email or send an email to WillapaBay@dfw.wa.gov.

Thank you,
Barbara McClellan
Willapa Bay Fisheries Biologist
WDFW Region 6 Montesano

WDFW online links:

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 & Grays Harbor (non-treaty) commercial salmon fisheries (regulations & landed catch)
<https://wdfw.wa.gov/fishing/commercial/gillnet#information>

2019 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	Sept. 1 - 7	Closed				Closed				258	N/A	258	Closed				428	N/A	428	686	0	686		
37	Sept. 8 - 14	Closed				Closed				78	N/A	78	Closed				Closed				78	0	78	
38	Sept. 15 - 21	179	N/A	179	187	N/A	187	15	N/A	15	Closed				243	N/A	243	624	0	624				
39	Sept. 22 - 28	12	N/A	12	29	N/A	29	9	N/A	9	Closed				15	N/A	15	65	0	65				
40	Sept. 29 - Oct. 5	19	N/A	19	28	N/A	28	3	N/A	3	Closed				15	N/A	15	65	0	65				
41	Oct. 6 - 12	2	N/A	2	10	N/A	10	0	N/A	0	Closed				0	N/A	0	12	0	12				
42	Oct. 13 - 19	Closed				Closed				Closed				Closed				0	0	0				
43	Oct. 20 - 26	Closed				Closed				Closed				Closed				0	0	0				
44	Oct 27 - Nov. 2		N/A	0		N/A	0		N/A	0	Closed					N/A	0	0	0	0				
45	Nov. 3 - 9		N/A	0		N/A	0		N/A	0	Closed					N/A	0	0	0	0				
46	Nov. 10 - 16		N/A	0		N/A	0		N/A	0			0	0		N/A	0	0	0	0				
47	Nov. 17 - 23		N/A	0		N/A	0		N/A	0			0	0		N/A	0	0	0	0				
48	Nov. 24 - 30		N/A	0		N/A	0		N/A	0			0	0		N/A	0	0	0	0				
Total Landed		212	0	212	254	0	254	363	0	363	0	0	0	0	701	0	701	1,530	0	1,530				

2019 WB Total CHINOOK Fishery Impacts

Actual Catch + impacts

MSF

Preliminary Draft

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	0	0	0	0	13	263			28	436	41	698	37	489
37	0	0	0	0	6	81			0	0	6	81	49	626
38	58	197	37	197	3	16			36	256	134	665	228	1,164
39	13	14	30	33	9	10			16	17	68	74	112	393
40	22	28	20	49	4	4			18	22	64	103	61	202
41	0	2	2	10	0	0			0	0	2	12	30	94
42	0	0	0	0	0	0			0	0	0	0	0	0
43	0	0	0	0	0	0			0	0	0	0	0	0
44	0	0	0	0	0	0			0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	2	6
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	2
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	93	240	90	288	34	374	0	0	98	731	315	1,634	519	2,976

2019 WB Total CHINOOK NOR Fishery Impacts Summary

MSF

Actual Catch + impacts

Preliminary Draft

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	Predicted NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	Predicted NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	Predicted NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	Predicted NOR Impacts	In-season Total NOR Impacts	In-season Local NOR Impacts	Predicted NOR Impacts	Weekly	Cumulative	Weekly	Cumulative
	36	0	0	0	0	0	0	13	9	16	0	0	0	28	26	13	36	36	30
37	0	0	0	0	0	0	6	4	36	0	0	0	0	0	0	4	40	36	66
38	58	37	41	37	35	95	3	2	14	0	0	0	36	33	44	107	147	194	260
39	13	8	31	30	29	18	9	7	5	0	0	0	16	15	38	58	205	92	352
40	22	14	11	20	19	32	4	3	1	0	0	0	18	16	8	52	257	53	405
41	0	0	13	2	2	6	0	0	0	0	0	0	0	0	4	2	259	24	429
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	259	0	429
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	259	0	429
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	259	0	429
45	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	259	2	431
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	259	0	431
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	259	0	431
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	259	0	431
Totals	93	59	97	90	85	152	34	25	72	0	0	0	98	90	107	259	259	431	431

Tangle Net

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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				Closed				77	0.241	19	58	Closed				109	0.174	19	90	38	148	186	30	379	409
37	Closed				Closed				113	0.212	24	89	Closed				Closed				24	89	113	139	670	809
38	1,635	0.299	489	1,146	1,156	0.113	131	1,025	89	0.189	17	72	Closed				1,434	0.224	322	1,112	959	3355	4314	1,892	5,523	7,415
39	262	0.373	98	164	499	0.390	195	304	65	0.413	27	38	Closed				366	0.368	135	231	454	738	1192	681	4,496	5,177
40	357	0.539	193	164	523	0.511	267	256	47	0.421	20	27	Closed				250	0.495	124	126	603	574	1177	2,094	5,600	7,694
41	71	0.554	39	32	331	0.582	193	138	0	0.000	0	0	Closed				5	0.400	2	3	234	173	407	3,120	1,500	4,620
42	Closed																				0	0	0	0	0	0
43	Closed																				0	0	0	0	0	0
44			0	0			0	0			0	0			0	0			0	0	0	0	0	0	0	0
45			0	0			0	0			0	0			0	0			0	0	0	0	0	1,267	506	1,773
46			0	0			0	0			0	0			0	0			0	0	0	0	0	122	84	206
47			0	0			0	0			0	0			0	0			0	0	0	0	0	452	212	664
48																				0	0	0	72	25	97	
Total	2,325		819	1,506	2,509		786	1,723	391		106	285	0		0	0	2,164		601	1,563	2,312	5,077	7,389	9,869	18,995	28,864

2019 Estimated WB Commercial CHUM Mortalities

yellow = Chum release required

Preliminary Draft

Gillnet release mortality 0.59 includes drop off

Stat Week	Landed Chum	Chinook Landed	Coho Landed	Encounter Ratio	Chum Encounters	Stat Weeks	In-season Estimated Chum Impacts		Preseason Predicted Chum Impacts	
							Weekly	Cumulative	Weekly	Cumulative
36	0	686	186		0	36	0	0	3	3
37	0	78	113		0	37	0	0	2	5
38	10	624	4,314		0	38	10	10	23	28
39	17	65	1,192		0	39	17	27	98	126
40	51	65	1,177		0	40	51	78	395	521
41	73	12	407		0	41	73	151	2,099	2,620
42	Closed					42	0	151	0	2,620
43	Closed					43	0	151	0	2,620
44		0	0		0	44	0	151	0	2,620
45		0	0		0	45	0	151	1,291	3,911
46		0	0		0	46	0	151	613	4,524
47		0	0		0	47	0	151	175	4,699
48		0	0		0	48	0	151	95	4,794
Totals	151	1,530	7,389		0	Totals	151		4,794	

2019 Willapa Bay Chinook Broodstock Summary

10/10/2019 updated

Naselle Hatchery

Program Release	Fecundity # eggs/female	# of Females Needed	# Females Broodstocked to-date	# Females still needed	# Adults On-hand at the facility	# Eggs on Hand
5,000,000	3,000	1,667	312	1,355	390	936,000

Nemah Hatchery

Program Release	Fecundity # eggs/female	# of Females Needed	# Females Broodstocked to-date	# Females still needed	# Adults On-hand at the facility	# Eggs on Hand
3,300,000	3,000	1,100	239	861	665	717,000

Forks Creek Hatchery

Program Release	Fecundity # eggs/female	# of Females Needed	# Females Broodstocked to-date	# Females still needed	# Adults On-hand at the facility	# Eggs on Hand
400,000	3,000	133	321	0	224	963,000