

**Mcclellan, Barbara A (DFW)**

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**From:** Willapa Bay (DFW)  
**Sent:** Thursday, September 05, 2019 3:40 PM  
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**Cc:** Herring, Chad J (DFW); Peterson, Damon M (DFW); Jennings, Lyle F (DFW); Zimmer, Ryan C (DFW); John, Ryan W (DFW); Allan, Robert C (DFW); Losee, James P (DFW); Phillips, Larry C (DFW)  
**Subject:** 2019 Willapa Bay weekly update for stat weeks 35 and part of week 36  
**Attachments:** 2019 WB Recreational Marine Area Catch Estimate thru week 35 09.05.19.pdf; 2019 WB Commercial Fishery Data thru 09.05.19 .pdf; Naselle Hatchery CHK Rack Returns 09.05.19.pdf  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi Everyone,  
This week's update will include multiple items so I'm going to list them by category.

Willapa Bay Recreational Marine Creel Fishery and Monitoring

Last week's recreational fishery over Labor Day weekend was slow in terms of effort. We expected a much larger turnout. The tide series for last week definitely affected the turnout and the fishing experience. It was an afternoon high tide instead of a morning high tide, which wasn't ideal. Most anglers launched in the afternoon and only fished through the tide. Chinook catch was down from the previous week (week 34) but we did see more coho than expected and quite a few of the coho had a coded wire tag. The number of unmarked Chinook that were encountered was similar to the previous week.

*See attached file: 2019 WB Recreational Marine Area Catch Estimate through week 35 09.05.19.pdf.*

The boat survey work we have been conducting is showing that 91.6% of the boats fishing this year in the marine area are exiting the fishery either in Tokeland or South Bend. These are locations where we have staff dockside

monitoring four days a week. This is a slight drop from last week when the rate was at 92.3%. That means a few more anglers are utilizing other launch locations to exit the fishery.

#### Willapa Bay Commercial Fishery and Monitoring

The commercial fishery started fishing this week on Tuesday (Sept. 3) and Wednesday (yesterday Sept 4) at the south end of the bay in 2N and 2M, respectively, using tangle net gear. Effort was low as anticipated in our model. There were 10 boats fishing 2N on Tuesday (9/3) and 8 boats fishing 2M (9/4). Coho catch was lower than predicted for week 36. Hatchery Chinook landed are on track for the week compared to the preseason prediction. Currently, we are right on the prediction for unmarked Chinook encounters. There is another day of fishing scheduled for tomorrow (9/6) in area 2N using tangle net gear.

There are three days scheduled for fishing (Mon, Wed, Fri) at the south end of the bay next week, all in area 2N and all three days are scheduled to use tangle net gear.

*See attached filed: 2019 WB Commercial Fishery Data thru 09.05.19.pdf*

#### Hatchery Rack Returns:

Naselle Hatchery: Attached is the update for the Naselle Hatchery. Quite a few Chinook have shown up to the hatchery, which is very encouraging. To-date, we have had 513 hatchery and 36 natural Chinook recruit to the hatchery. All natural fish were passed upstream. We are currently in week 36 so any data provided in the spreadsheet for week 36 is incomplete. Compared to the last four years of hatchery returns, we are currently higher through week 36 than those four years combined.

*See attached file: Naselle Hatchery CHK Rack Returns 09.05.19.pdf*

#### Spawning Ground Surveys

We started stream surveys below the weir in Nemah and Naselle rivers at the beginning of August. We have seen Chinook staging in the rivers but we have not found any redds to-date.

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](mailto: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 Marine Area Recreational Catch Estimate

PRELIMINARY/DRAFT updated 9/5/2019

CHK = Chinook CPUE = Catch per unit effort  
 AD = Adipose clipped (hatchery origin) Effort = An individual angler trip  
 UM = Unmarked

July (Ocean 2 Rules)

Stat Week	Expanded Data				Expanded Data				Expanded Data			
	# Boats	# Anglers	Estimated Total Chinook Kept	Total Chinook CPUE	Estimated Total UM Chinook Kept	Willapa Origin Chinook UM Impacts	Estimated Total AD Chinook Kept	Willapa Origin Chinook AD Impacts	Estimated Total Coho Kept	Estimated Total AD Coho Kept	Estimated Total UM Coho Kept	Total Coho CPUE
25 & 26	31	70	4	0.057	0	0	4	1	0	0	0	0.000
27	62	169	24	0.142	4	1	20	6	5	5	0	0.030
28	77	176	45	0.256	3	1	42	12	16	16	0	0.091
29	40	93	15	0.161	3	1	12	4	14	14	0	0.151
30	196	443	222	0.501	28	8	194	57	43	43	0	0.097
31	81	153	32	0.209	6	2	26	8	2	2	0	0.013
Season Total	487	1,104	342	0.310	44	13	298	88	80	80	0	0.072

August and September

Stat Week	Dates	Strata	Strata Description	Actual Data					Actual Data					Chinook Retained					Chinook Released					Marked Coho			Unmarked Coho			Total Coho				
				# Boats Sampled	# Boats Not Sampled	# Total Boats	Expanded # Total Boats	Sample Rate	# Anglers Sampled	# Anglers per boat	Expanded # Total Anglers	# CHK AD Kept	CHK AD CPUE	Expanded # CHK AD Kept	# WB Origin CHK AD Impacts	# CHK UM Kept	CHK UM CPUE	Expanded # CHK UM Kept	# CHK UM Released	CHK UM CPUE	Estimated Expanded CHK UM Encounters	Estimated Total CHK UM Impacts	# WB Origin CHK UM Impacts	# Coho AD Kept	Coho AD CPUE	Expanded # Coho AD Kept	# Coho UM Kept	Coho UM CPUE	Expanded # Coho UM Kept	Total Coho CPUE (AD+UM)	Total Expanded # Coho Kept (AD + UM)			
31	08/01/19	1	Thur	26	1	27	29	88%	55	2.12	62	5	0.091	6	4	0	0.000	0	0	0.000	0	0	0	1	0.018	1	0	0.000	0	0.018	1			
31	08/2 - 08/4	2	Fri - Sun	46	2	48	79	59%	99	2.15	169	11	0.111	19	12	0	0.000	0	5	0.051	9	1	1	4	0.040	7	0	0.000	0	0.040	7			
32	08/5 - 8/8	1	Mon - Thur	97	3	100	218	44%	199	2.05	448	44	0.221	99	63	0	0.000	0	14	0.070	31	4	3	4	0.020	9	1	0.005	2	0.025	11			
32	08/9 - 8/11	2	Fri - Sun	128	26	154	252	51%	281	2.20	553	74	0.263	146	92	1	0.004	1	13	0.046	26	4	2	14	0.050	28	4	0.014	8	0.064	35			
33	8/12 - 8/15	1	Mon - Thur	100	2	102	223	45%	213	2.13	474	21	0.099	47	30	1	0.005	1	9	0.042	20	3	2	9	0.042	20	3	0.014	7	0.056	27			
33	08/16 - 8/18	2	Fri - Sun	240	23	263	430	56%	551	2.30	988	90	0.163	161	102	0	0.000	0	43	0.078	77	11	7	19	0.034	34	3	0.005	5	0.040	39			
34	8/19 - 8/22	1	Mon - Thur	177	12	189	412	43%	381	2.15	888	51	0.134	119	75	0	0.000	0	21	0.055	49	7	4	15	0.039	35	6	0.016	14	0.055	49			
34	8/23 - 8/25	2	Fri - Sun	294	49	343	561	52%	697	2.37	1,331	104	0.149	199	126	0	0.000	0	55	0.079	105	15	9	42	0.060	80	19	0.027	36	0.088	116			
35	08/26 - 08/29	1	Mon - Thur	171	2	173	378	45%	358	2.09	790	66	0.184	146	92	2	0.006	3	48	0.134	106	15	9	21	0.059	46	5	0.014	11	0.073	57			
35	08/30 - 09/01	2	Fri - Sun	115	8	123	201	57%	293	2.55	513	19	0.065	33	21	1	0.003	2	22	0.075	39	5	3	29	0.099	51	24	0.082	42	0.181	93			
36																																		
36																																		
37																																		
37																																		
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39																																		
39																																		
				1,394	128	1,522	2,784	50%	3,127	2.24	6,217	485	0.155	974	617	5	0.002	7	230	0.074	461	65	41	158	0.051	311	65	0.021	126	0.071	436			



### Willapa Bay Origin PreSeason Recreational Data

Willapa Bay <span style="color: blue;">Natural-Origin</span> Fall Chinook						Willapa Bay <span style="color: blue;">Hatchery-Origin</span> Fall Chinook					
Stat 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
25-26	6/22 - 6/29	0.0043	1	1	0	0	0.0046	1	1	1	1
27	6/30/2007	0.0043	1	2	1	1.2	0.0046	7	8	6	7
28	7/8 - 7/14	0.0022	0	2	1	2	0.0070	10	18	12	20
29	7/15 - 7/21	0.0119	2	4	1	3	0.0102	15	33	4	23
30	7/22 - 7/28	0.0043	1	5	8	11	0.0297	44	77	57	81
31	7/29 - 8/3	0.0142	2	7	3	14	0.0287	42	119	23	104
32	8/4 - 8/10	0.0857	15	22	6	20	0.1062	157	276	155	259
33	8/11 - 8/17	0.1490	25	47	10	30	0.1343	198	474	132	391
34	8/18 - 8/24	0.2299	39	86	14	44	0.2176	321	794	201	592
35	8/25 - 8/31	0.2829	48	134	17	61	0.2487	367	1,161	113	706
36	9/1 - 9/7	0.1013	17	152		61	0.1167	172	1,333		706
37	9/8 - 9/14	0.0826	14	166		61	0.0664	98	1,431		706
38	9/15 - 9/21	0.0194	3	169		61	0.0251	37	1,468		706
39	9/22 - 9/28	0.0073	1	170		61	0.0015	2	1,470		706
40	9/29 - 9/30	0.0037	1			61	0.0014	2	1,472		706
41		0.0000	0			61	0.0007	1	1,473		706
			170		61		1,474			706	



### Naselle Hatchery Chinook Rack Returns

Preliminary/DRAFT \*

9/5/2019

Year	2015						2016						2017						2018						2019 *					
	Hatchery			Natural			Hatchery			Natural			Hatchery			Natural			Hatchery			Natural			Hatchery			Natural		
Stat Week	Daily Total	Cumulative	% Run Timing	Daily Total	Cumulative	% Run Timing	Daily Total	Cumulative	% Run Timing	Daily Total	Cumulative	% Run Timing	Daily Total	Cumulative	% Run Timing	Daily Total	Cumulative	% Run Timing	Daily Total	Cumulative	% Run Timing	Daily Total	Cumulative	% Run Timing	Daily Total	Cumulative	% Run Timing	Daily Total	Cumulative	% Run Timing
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.0%	-	-	-	1	1		1	1	
32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	6	0.2%	-	-	-	9	10		0	1	
33	-	-	-	-	-	-	-	-	-	-	-	-	13	13	0.4%	2	2	0.3%	11	17	0.6%	2	2	0.4%	23	33		3	4	
34	-	-	-	-	-	-	-	-	-	-	-	-	23	36	1.1%	5	7	0.9%	12	29	1.0%	3	5	1.0%	48	81		5	9	
35	-	-	-	-	-	-	-	-	-	-	-	-	26	62	1.9%	6	13	1.6%	44	73	2.5%	7	12	2.5%	145	226		7	16	
36	205	205	4.2%	24	24	2.7%	0	0	0.0%	1	1	0.2%	63	125	3.8%	11	24	3.0%	16	89	3.0%	5	17	3.5%	287	513		20	36	
37	30	235	4.9%	0	24	2.7%	199	199	9.9%	32	33	6.6%	133	258	7.9%	33	57	7.1%	784	873	29.8%	87	104	21.3%						
38	2,016	2,251	46.5%	155	179	20.4%	25	224	11.1%	9	42	8.4%	1,179	1,437	43.8%	148	205	25.7%	128	1,001	34.2%	7	111	22.7%						
39	1,449	3,700	76.4%	134	313	35.7%	801	1,025	50.8%	143	185	36.9%	128	1,565	47.7%	17	222	27.8%	123	1,124	38.4%	15	126	25.8%						
40	481	4,181	86.3%	269	582	66.4%	229	1,254	62.1%	68	253	50.5%	304	1,869	57.0%	117	339	42.4%	196	1,320	45.1%	65	191	39.1%						
41	281	4,462	92.1%	217	799	91.2%	665	1,919	95.1%	54	307	61.3%	1,103	2,972	90.6%	321	660	82.6%	560	1,880	64.2%	114	305	62.4%						
42	278	4,740	97.9%	67	866	98.9%	86	2,005	99.4%	182	489	97.6%	184	3,156	96.2%	113	773	96.7%	654	2,534	86.6%	85	390	79.8%						
43	25	4,765	98.4%	1	867	99.0%	0	2,005	99.4%	9	498	99.4%	88	3,244	98.9%	21	794	99.4%	219	2,753	94.1%	36	426	87.1%						
44	37	4,802	99.1%	6	873	99.7%	0	2,005	99.4%	3	501	100.0%	16	3,260	99.4%	2	796	99.6%	166	2,919	99.7%	58	484	99.0%						
45	20	4,822	99.5%	3	876	100.0%	2	2,007	99.5%	0	501	100.0%	6	3,266	99.5%	0	796	99.6%	7	2,926	100.0%	5	489	100.0%						
46	11	4,833	99.8%	0	876	100.0%	6	2,013	99.8%	0	501	100.0%	14	3,280	100.0%	2	798	99.9%	0	2,926	100.0%	0	489							
47	8	4,841	99.9%	0	876	100.0%	4	2,017	100.0%	0	501	100.0%	0	3,280	100.0%	1	799	100.0%	0	2,926	100.0%	0	489							
48	-	4,841	99.9%	-	876	100.0%	1	2,018	100.0%	0	501	100.0%	0	3,280	100.0%	0	799		0	2,926	100.0%	0	489							
49	-	4,841	99.9%	-	876	100.0%	-	-	-	-	-	-	0	3,280	100.0%	0	799		0	2,926	100.0%	0	489							
50	3	4,844	100.0%	0	876	100.0%	-	-	-	-	-	-	0	3,280	100.0%	0	799		0	2,926	100.0%	0	489							
51													1	3,281	100.0%	0	799		1	2,927	100.0%	0	489							
<b>Total</b>	<b>4,844</b>			<b>876</b>			<b>2,018</b>			<b>501</b>			<b>3,281</b>			<b>799</b>			<b>2,927</b>			<b>489</b>			<b>513</b>			<b>36</b>		

yellow = incomplete week

