

**Mcclellan, Barbara A (DFW)**

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**From:** Willapa Bay (DFW)  
**Sent:** Wednesday, August 21, 2019 12:08 PM  
**To:** Andy Mitby; Bob Lake ; Francis Estalilla; Greg McMillan; Jack Hollingsworth; Jim Sayce; Lance Gray ; Mara Zimmerman ; Marlisa Dugan; Norm Reinhardt; Ross Barkhurst ; Steve Boerner; Tim Hamilton; Aaron Miller; Al Ramsaur ; Allan Hollingsworth; Amy Fenlon ; Andrew Olson; Angel Lund; Angie Butrick ; Anthony Koehn; Art Holman; Bill Buchkowski; Bill Lushenko; Bill Mabe ; Bill Osborn ; Bill Ward ; Bob Haefs; Bob Lucas; Bob Muhlhauser ; Bob Smith; Brian Davern ; Brian Kraemer; Bruce Ogren ; Bruce Urquhart; Bud Wild ; C Biener ; Carl Kellogg; Cary Hofmann; Casey Bradley ; Charles McKown; Chris Holm; Chris Philips; Chris White ; Dale Beasley ; Dan Dettmann ; Dan Quaschnik ; Dave Hamilton ; Dave Nettrn ; David Hadsell ; David Hollingsworth; David Patrick; Dean Antich; Dean Takko; Dennis Harman; Dennis Parks; Diana Bone ; Don Porter; Dottie Dunthorn ; Duane Inglin; Duane Rogers ; Dwayne Everson; Earl Davis; Ed Tharp; Eric Mitby; Frank Blake ; G. Blevins; Gail Petersen; Gary Mawhorter; George Leach ; Greg Klueh ; Greg Larson; Gunther Boettcher; Hope Rieden ; Jack Berryman; James Caron ; Jason Lake ; Jeff McKean; Jeff Skriletz; Jerry Charlton; Jerry Lowe ; Jim Babcock; Jim Paul; Joe Durham; Joe Koski; Joe Muller; Joe Superfisky; Joe Weber ; John Baugher; John Campbell ; John Rabey; John Stanislay; John Stigall; John Tieder ; Josh Bradley; Kelli Erickson; Ken Wirkkala; Kirby Denger ; Kirk Johnston ; Kristi Nelson; Lane Chilman; Larry Brown; Leah Thomas; LeeRoy Wisner; Leslie Pederson; Lisa Olsen; Loren Gee; Lori Craig Ashley; Lucas Stigall; Mark Coleman; Mark Eastham; Mark Lund ; Mark Miller ; Melanie Rabaglia; Michael Bos ; Mike Ainsworth ; Mike Backman ; Mike Morris ; Mike Nordin ; Mike Riggs; Mike Runyon ; Mike Shirley ; Mike Wallace; Miranda Wecker; Nicholas Kato ; Nick Larson; Nick Nikkila; Pat Edwards ; Patric Gaffney; Paul Beese; Ray Brown; Ray Gilbertson; Rebecca Chaffee; Rich Runyon; Richard Chaney; Richard Lapinski; Rick Durkin; Rick Lovitt ; Rob Nowowiejski; Robert Coty ; Robert Rao; Roger Shaw ; Roland Culver; Ron Meek; Ron Rinear ; Ron Schweitzer; Ross Kary ; Ryan Moore; Sam Arvan; Sam Arvan ; Shawn Murray; Shawn Murray; Shelley Willet; Steve Aust; Steve Aust; Steve Fransen ; Steve Gacke; Steve Gray ; Ted Schuman; Tim Williams; Todd Bennington; Tom Gibbs WBGN; Tom Guntle ; Tom Moonan; Tom Moonan; Tom Peterson; Walt Weber; Wayne Banta ; Wes Bradley ; William Thomas WBGN; Woody Pierson Jr.; Woody Pierson Sr. Herring, Chad J (DFW); Peterson, Damon M (DFW); Jennings, Lyle F (DFW); Zimmer, Ryan C (DFW); Allan, Robert C (DFW); Losee, James P (DFW); John, Ryan W (DFW); Phillips, Larry C (DFW)  
**Subject:** 2019 Willapa Bay Recreational Marine Area Monitoring update through August 18 - stat week 33  
**Attachments:** 2019 WB Recreational Marine Area Catch Estimate thru week 33 08.21.19.pdf; Naselle Hatchery CHK Rack Returns 08.20.19.pdf  
**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi Everyone,

Attached are the files associated with the weekly update for the Willapa Bay marine area recreational monitoring through week 33.

The effort over the last week has doubled compared to the week before but the number of hatchery Chinook being caught has dropped off a bit. We have also seen the number of coho being caught and the number of unmarked Chinook encountered slowly increase especially this past weekend compared to the weekdays.

In part, this can be explained by the tide series that occurred last week. We still had some minus tides so the tidal exchange between low and high can be significant relative to fishing opportunity. There was also only one high water tide during most of the days last week and that was in the afternoon. That's not the best tide series for fishing in Willapa Bay. However, staff encountered more effort and catch focused around the high tide in the afternoon compared to earlier in the day.

Starting today, the tide series starts to change where there will be two high water tides; one in the morning and one in the afternoon. The morning tide is the most ideal tide when fishing in Willapa because it seems that fish tend to bite more. The morning tide will be available until next Tuesday when the tide will shift to after 12 p.m. again with only one afternoon tide available during the day.

The boat survey work we have been conducting is showing that 95.2% 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. Only 4.8% of boats are exiting the fishery at a location not covered by our dockside monitoring. For context, last year's final rate was 89.8% of boats exited the fishery either in Tokeland or South Bend, which is lower than the current rate we are calculating.

Attached is the update for the Naselle Hatchery. To-date, we have had 33 hatchery and 4 natural Chinook recruit to the hatchery. All natural fish were passed upstream. We are currently in week 34 so any data provided in the spreadsheet for week 34 is incomplete.

We held a Willapa Bay advisory group meeting last week (Aug 14) in Raymond to update the group on the comprehensive review of the Willapa Bay policy, C-3622. All of those documents were placed on the advisory group page of our website earlier this week and that link is listed below. We are planning additional meetings in September and October to discuss the progress on the comprehensive review. Those dates have yet to be determined (as soon as dates are chosen, they will be posted online) but if you are interested in attending, please check the advisory group page listed below for those dates.

The commercial fishery in Willapa Bay will begin fishing on September 3 in the lower end of the harbor. Once we have those data for the first week, we will begin to include the commercial summaries in this weekly email.

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

Additional 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 & 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 8/21/2019

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

July (Ocean 2 Rules)

Stat Week	Expanded Data				Estimated Total UM Chinook Kept	Willapa Origin Chinook UM Impacts	Estimated Total AD Chinook Kept	Willapa Origin Chinook AD Impacts	Expanded Data			
	# Boats	# Anglers	Estimated Total Chinook Kept	Total Chinook CPUE					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			Expanded # Total Boats	Sample Rate	Actual Data			Chinook Retained					Chinook Released					Marked Coho			Unmarked Coho			Total Coho			
				# Boats Sampled	# Boats Not Sampled	# Total Boats			# 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	28	92%	55	2.12	60	5	0.091	5	3	0	0.000	0	1	0.018	1	0	0	1	0.018	1	0	0.000	0	0.018	1
31	08/2 - 08/4	2	Fri - Sun	46	2	48	76	61%	99	2.15	163	11	0.111	18	11	0	0.000	0	5	0.051	8	1	1	4	0.040	7	0	0.000	0	0.040	7
32	08/5 - 8/8	1	Mon - Thur	97	3	100	210	46%	199	2.05	431	44	0.221	95	60	0	0.000	0	14	0.070	30	4	3	4	0.020	9	1	0.005	2	0.025	11
32	08/9 - 8/11	2	Fri - Sun	128	26	154	243	53%	281	2.20	533	74	0.263	140	89	1	0.004	1	13	0.046	25	3	2	14	0.050	27	4	0.014	8	0.064	34
33	8/12 - 8/15	1	Mon - Thur	100	2	102	214	47%	213	2.13	457	21	0.099	45	29	1	0.005	1	9	0.042	19	3	2	9	0.042	19	3	0.014	6	0.056	26
33	08/16 - 8/18	2	Fri - Sun	240	23	263	415	58%	551	2.30	952	90	0.163	155	99	0	0.000	0	43	0.078	74	10	7	19	0.034	33	3	0.005	5	0.040	38
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				637	57	694	1,186	54%	1,398	2.19	2,595	245	0.175	460	291	2	0.001	3	85	0.061	158	22	14	51	0.036	95	11	0.008	21	0.044	116



**Willapa Bay Origin PreSeason Recreational Data**

**Willapa Bay Natural-Origin Fall Chinook**

**Willapa Bay Hatchery-Origin 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	103
32	8/4 - 8/10	0.0857	15	22	6	20	0.1062	157	276	149	253
33	8/11 - 8/17	0.1490	25	47	10	30	0.1343	198	474	127	380
34	8/18 - 8/24	0.2299	39	86		30	0.2176	321	794		380
35	8/25 - 8/31	0.2829	48	134		30	0.2487	367	1,161		380
36	9/1 - 9/7	0.1013	17	152		30	0.1167	172	1,333		380
37	9/8 - 9/14	0.0826	14	166		30	0.0664	98	1,431		380
38	9/15 - 9/21	0.0194	3	169		30	0.0251	37	1,468		380
39	9/22 - 9/28	0.0073	1	170		30	0.0015	2	1,470		380
40	9/29 - 9/30	0.0037	1			30	0.0014	2	1,472		380
41		0.0000	0			30	0.0007	1	1,473		380
			170		30			1,474		380	



### Naselle Hatchery Chinook Rack Returns

Preliminary/DRAFT \*

8/20/2019

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%	1	34		0	4		
35	-	-	-	-	-	-	-	-	-	-	-	-	26	62	1.9%	6	13	1.6%	44	73	2.5%	7	12	2.5%							
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%							
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>34</b>			<b>4</b>			

yellow = incomplete week

