

**McClellan, Barbara A (DFW)**

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**From:** Willapa Bay (DFW)  
**Sent:** Thursday, August 08, 2019 9:19 AM  
**To:** Andy Milby; Bob Lake ; Francis Estalilla; Greg McMillan; Jack Hollingsworth; Jess Helsley; Jim Sayce; Lance Gray ; Marisa 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 Phillips; Chris White ; Dan Dettmann ; Dan Quaschnik ; Dave Hamilton ; Dave Netthin ; 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 Milby; Frank Blake ; G. Blevins; Gail Petersen; Gary Mawhorter; George Leach ; Greg Kluh ; Greg Larson; Gunther Boettcher; Hope Rieden ; Jack Berryman; James Caron ; Jason Lake ; Jeff McKean; Jeff Skrietz; 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 Stanislav; John Stigall; John Tieder ; Josh Bradley; Kelli Erickson; Ken Wirkkala; Kirby Denger ; Kirk Johnston ; Kristi Nelson; Lane Chllman; Larry Brown; Leah Thomas; LeeRoy Wisner; Leslie Pederson; Lisa Olsen; Loren Gee; Lori Craig Ashley; Lucas Stigall; Mara Zimmerman ; 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 Schweizer; Ross Kary ; Ryan Moore; Sam Arvan; Sam Arvan ; 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.

**Cc:** Herring, Chad J (DFW); Peterson, Damon M (DFW); Jennings, Lyle F (DFW); Zimmer, Ryan C (DFW); Losee, James P (DFW)  
**Subject:** 2019 Willapa Bay Recreational Marine Area Monitoring update thru August 4 - stat week 31  
**Attachments:** 2019 WB Recreational Marine Area Catch Estimate thru week 31 08.07.19.pdf; Naselle Hatchery CHK Rack Returns 08.07.19.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi Everyone,

Attached is the first update on the recreational fishery monitoring in the Willapa Bay marine area since switching August 1 to Willapa specific regulations, which is 6 fish daily, 2 adults, and release unmarked Chinook. This update is through August 4 (stat week 31). Week 31 was split where half the week was under Ocean Area 2 regulations and half the week was under Willapa specific regulations. The attached spreadsheet will show the estimate relative to each regulation. After error checking the data, we made some changes to the data listed in the table attached. As always, in-season data is preliminary and subject to change.

The last week of July/first week of August was not as busy (more than half) as the week prior in terms of effort and catch. The tides are still poor for fishing in Willapa. The tides have not only been minus tides (at low water) but they have been big tidal exchanges between the low and high water tides. At this point, our pre-season projection through week 31 for natural-origin Chinook encounters was estimated to be seven fish. We currently have an in-season estimate of 14 natural-origin Chinook encounters, which includes any landed unmarked Chinook when under Ocean 2 regulations in June and July and any fish since we started releasing unmarked Chinook August 1.

As I said before in my previous email, we will now be monitoring the recreational fishery using a two strata method; strata 1 Monday – Thursday and strata 2 Friday – Sunday. The monitoring effort will occur two days

within each strata per statistical week (4 days per week total). We will also now be monitoring the South Bend boat launch as part of our estimate as well as conducting a boat survey 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 boats that may have landed in other locations (not Tokeland or South Bend). We will also be test fishing to collect unmarked Chinook genetics since those fish are illegal to retain as of yesterday and we won't have the chance to sample them on the dock.

Also attached is a spreadsheet showing the last several years of the Naselle hatchery rack returns for Chinook through the fall season. These data account for the number of adults that have entered the facility but also provide an estimate of run timing for the 2019 season relative to previous years. Once fish start showing up at the other two hatcheries, Nemah and Forks Creek, we will be including rack return information similar to the attached Naselle Hatchery spreadsheet.

If anyone is interested in collecting genetic samples from unmarked Chinook prior to releasing them, **please contact me**. I have yet to reach the 20 volunteers that I was hoping to have collecting samples. The more help we have, the more potential samples will may get to help us evaluate the stock composition of the recreational fishery in the marine area.

From this point forward now that we have switched to Willapa specific fishing regulations in the marine area, we will be compiling and analyzing the previous week's data on Monday's and Tuesday's each week. We then plan to send out a fishery update of the previous week's data by COB Wednesday or first thing Thursday morning each week.

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/willapabay>

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 8/7/2019

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				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	188	24	0.142	4	1	20	8	5	5	0	0.030
28	77	176	46	0.256	3	1	42	12	16	16	0	0.091
29	40	93	15	0.181	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	0.208	6	2	28	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				Actual Data								Chinook Retained				Chinook Released				Marked Coho			Unmarked Coho			Total Coho					
Stat Week	Dates	Strata	Strata Description	# 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	28	92%	55	2.12	60	5	0.091	5	3	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	48	2	48	75	61%	99	2.15	162	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																															
33																															
34																															
35																															
36																															
37																															
38																															
39																															
				72	3	75	103	70%	154	2.14	221	16	0.104	23	15	0	0.000	0	5	0.032	8	1	1	5	0.032	8	0	0.000	0	0.032	8

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

### Naselle Hatchery Chinook Rack Returns

Preliminary/DRAFT

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-	-	-	-	-	13	13	0.4%	2	2	0.3%	11	17	0.6%	2	2	0.4%	-	-	-	-	-	-
34	-	-	-	-	-	-	-	-	-	-	-	-	23	36	1.1%	5	7	0.9%	12	29	1.0%	3	5	1.0%	-	-	-	-	-	-
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%	126	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%	66	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	85.1%	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	98.0%	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>2,016</b>			<b>501</b>			<b>3,281</b>			<b>799</b>			<b>2,927</b>			<b>489</b>								