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**Mcclellan, Barbara A (DFW)**

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**From:** Willapa Bay (DFW)  
**Sent:** Thursday, August 24, 2023 9:57 AM  
**Subject:** 2023 Willapa Bay Fisheries Update - week 34 Aug 14 - 20  
**Attachments:** 2023 WB Marine Area Recreational Catch Estimate Summary Wk 34 Draft 08.22.2023.pdf; Naselle Hatchery Adult CHK Summary 08.22.2023.pdf; 2023 WB Hatchery Chinook Eggtake Draft 08.22.2023.pdf; 2023 WB Commercial impacts by area total summary 08.22.2023.pdf

Hello Everyone,

If you have any questions or comments regarding any of the information provided through these emails for the 2023 salmon season, please reply to this email and/or contact the regional staff directly at the Montesano office at #360-249-4628.

### **Recreational Marine Area Fishery**

Compared to last week, there was decline in catch during the early part of statistical week 34, August 14 – 20, from Monday, August 14, through Thursday, August 17, but an increase in both effort and catch over the weekend. The highest effort and catch were recorded on Saturday, August 19. For this last week, there were afternoon high tides with larger tidal exchanges. The overall weather conditions were warmer throughout the day and with larger tidal exchanges, there was a lot of water moving on each tide.

There were 99 hatchery Chinook salmon and four hatchery coho estimated to have been caught from the fishery from August 14 - 20. (*See attachment: 2023 WB Marine Area Recreational Catch Estimate Summary Draft Week 34 08.22.2023.pdf*)

For the upcoming week, August 21 - 27, there will be early morning high tides with smaller tidal exchanges compared to last week. These tides will likely be the best fishable tides for the month of August.

If you are interested in any data collected by the Ocean Sampling Program for Ocean Areas 1- 4, you can find those data on our website at [Ocean sport salmon quota report | Washington Department of Fish & Wildlife](#)

### **Spawning Ground Surveys**

Staff started weekly stream surveys on August 2<sup>nd</sup> below the weir in Nemah and Naselle rivers. To-date, we have observed approximately 120 adult Chinook salmon, 13 jack Chinook salmon, and one steelhead staging in the Naselle River, however, there have only been a few Chinook salmon observed in the Nemah River. There have only been a few Chinook carcasses found in Naselle River, and no Chinook carcasses have been found in Nemah River. At this point, we have not observed any spawning or redds in either of these river sections. Historically, Chinook salmon begin spawning in Willapa Bay rivers the middle of September.

### **Hatchery Chinook Rack Returns**

#### **Naselle River Hatchery**

To-date, 285 adult and 34 jack hatchery Chinook salmon have volunteered into the attraction channel and recruited into the hatchery. There have also been 13 unmarked, Chinook salmon

(11 males, 2 female) that have volunteered into the hatchery at this point, and all unmarked Chinook salmon have been planted upstream above the hatchery. To-date, there have been 45 Chinook salmon mortalities reported in the Naselle Hatchery. There are also 240 adult Chinook on-hand at the facility (males and females combined). These fish will be held in the facility until they are ready to be spawned. These data will be updated in the next weekly in-season email. (See attachment: [Naselle Hatchery Adult CHK Summary 08.22.2023.pdf](#) AND [2023 WB Hatchery Chinook Eggtake Draft 08.22.2023.pdf](#))

#### Nemah and Forks Creek hatcheries

To-date, no Chinook salmon have recruited into the hatchery.

#### **Commercial Fishery**

The commercial fishery in Willapa Bay opened last Sunday, August 20 in commercial areas 2N, 2M, and 2R at the south end of the bay using tangle net gear. Sixteen boats participated in this fishery, and this was consistent with what we expected. There were 294 hatchery Chinook salmon and 6 coho landed from the fishery. The fleet accrued 12 local, natural origin Chinook impacts during this one-day fishery. This was 35.3% of the preseason predicted natural origin Chinook impacts for the week. Hatchery Chinook salmon encounters were also lower at 29% of the predicted preseason estimate. (See attachment: [2023 WB Commercial impacts by area total summary 08.22.2023.pdf](#))

For this upcoming week, the commercial fishery will be open Sunday, August 27, in commercial area 2N and Thursday, August 31, in commercial areas 2M and 2R.

An update from these openers will be provided in next week's weekly update email.

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

All data provided through these weekly email updates for the months of August and September will be posted to the Willapa Bay Marine Area 2.1 Recreational Creel Monitoring page of our website listed below.

If you have any comments or questions specific to the information provided in these emails, please submit your comments to [WillapaBay@dfw.wa.gov](mailto:WillapaBay@dfw.wa.gov).

Additionally, if you know of anyone who might be interested in receiving these in-season update emails or any other information staff send out regarding Willapa Bay fisheries, please forward this email and have them reply to [WillapaBay@dfw.wa.gov](mailto:WillapaBay@dfw.wa.gov) stating they would like to be added to our email distribution list.

Thank you and Fish On! ><(((◦>

Barbara

Online reference links you may be interested in:

Willapa Bay Marine Area 2.1 Recreational Creel Monitoring: [Willapa Bay Recreational Salmon Reports | Washington Department of Fish & Wildlife](#)

Willapa Bay and Grays Harbor (non-treaty) Commercial Salmon fisheries (Regulations and landed catch): [Commercial Willapa Bay and Grays Harbor Gillnet Salmon Fishery | Washington Department of Fish & Wildlife](#)

2023 Willapa Bay Marine Area Recreational Catch Estimate

updated 8/22/2023

CHK = Chinook  
AD = Adipose clipped (hatchery origin)  
UM = Unmarked (natural origin)

CPUE = Catch per unit effort  
Effort = An individual angler trip

Strata 1 - Mon - Thurs  
Strata 2 - Fri - Sun

# MARINE RECREATIONAL

June-July (Ocean 2 Rules) Unmarked Chinook retention allowed

Mgmt Week	Expanded Data		Expanded Data - Chinook				Expanded Data - Coho				2 fish daily, only 1 Chinook allowed. No wild coho retention	Effective July 28, 2023, Friday and Saturdays, Release Chinook and wild coho.		
	# 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	Total Coho CPUE			Estimated Total UM Coho Kept	Estimated Total AD Coho Kept
26	6	14	3	0.214	0	0	3	1	2	0.143	0	2		
27	8	19	5	0.263	3	1	2	1	1	0.053	0	1		
28	14	23	0	0.000	0	0	0	0	0	0.000	0	0		
29	19	49	7	0.143	2	1	5	2	7	0.143	0	7		
30	23	64	11	0.172	6	2	5	2	26	0.406	0	26		
31	48	116	10	0.086	4	1	6	2	22	0.190	0	22		
32	4	6	0	0.000	0	0	0	0	0	0.000	0	0		
Season Total	122	291	36	0.124	15	5	21	7	58	0.199	0	58		

Starting in 2021, we switched to electronic data collection. The raw, actual data is now produced from the uploads each day and week. A copy of the raw data is now stored in the Rec Fishery Monitoring/year/Data folder. These data for the table below can be found in the Rec Fishery Monitoring/year/Data/Weekly data summaries. Choose the data that matches the stat week.

August and September				Boats and Anglers								Chinook Retained - illegal to retain					Chinook Released					Marked Coho			Unmarked Coho			Total Coho				
Mgmt Week - see note below for raw data source	Dates	Strata	Strata Description	Actual Raw Data			Expanded #		Actual Raw Data		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)	
				# Boats Sampled	# Boats Not Sampled	# Total Boats	# Anglers Sampled	# Anglers per boat																								
32	8/1 - 8/3	1	Mon - Thur	13	2	15	31	48%	29	2.23	70	2	0.069	5	3	0	0.000	0	1	0.034	2	0	0	0	0	0.000	0	0	0.000	0	0.000	0
32	8/4 - 8/6	2	Fri - Sun	22	1	23	36	64%	43	1.95	70	2	0.047	3	2	0	0.000	0	0	0.000	0	0	0	2	0.047	3	0	0.000	0	0.047	3	
33	8/7 - 8/10	1	Mon - Thur	46	4	50	100	50%	93	2.02	202	15	0.161	33	20	0	0.000	0	5	0.054	11	2	1	0	0.000	0	0	0.000	0	0.000	0	
33	8/11 - 8/13	2	Fri - Sun	100	3	103	155	67%	219	2.19	338	24	0.110	37	23	0	0.000	0	4	0.018	6	1	1	1	0.005	2	0	0.000	0	0.005	2	
34	8/14 - 8/17	1	Mon - Thur	64	2	66	146	45%	127	1.98	290	7	0.055	16	10	0	0.000	0	6	0.047	14	2	1	1	0.008	2	0	0.000	0	0.008	2	
34	8/18 - 8/20	2	Fri - Sun	96	11	107	177	60%	220	2.29	407	45	0.205	83	50	0	0.000	0	13	0.059	24	3	2	1	0.005	2	0	0.000	0	0.005	2	
35	8/21 - 8/24	1	Mon - Thur																													
35	8/25 - 8/27	2	Fri - Sun																													
36	8/28 - 8/31	1	Mon - Thur																													
36	9/1 - 9/3	2	Fri - Sun																													
37	9/4 - 9/7	1	Mon - Thur																													
37	9/8 - 9/10	2	Fri - Sun																													
38	9/11 - 9/14	1	Mon - Thur																													
38	9/15 - 9/17	2	Fri - Sun																													
39	9/18 - 9/21	1	Mon - Thur																													
39	9/22 - 9/24	2	Fri - Sun																													
40	9/25 - 9/28	1	Mon - Thur																													
40	9/29 - 9/30	2	Fri - Sat																													
TOTALS				341	23	364	645		731	2.14	1,377	95	0.130	177	107	0	0.000	0	29	0.040	57	8	5	5	0.007	9	0	0.000	0	0.007	9	

**2023 Willapa Bay Origin PreSeason Recreational Data**

Preliminary/Draft  
Updated 8/22/2023

Willapa Bay Natural-Origin Fall Chinook							Willapa Bay Hatchery-Origin Fall Chinook				
Mgmt 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
26/27	June 24 - July 2	0.0109	0	0	1	1	0.0051	3	3	1	1
28	July 3 - 9	0.0049	0	1	0	1	0.0072	4	8	0	1
29	July 10 - 16	0.0276	1	2	1	2	0.0037	2	10	2	2
30	July 17 - 23	0.0547	2	4	2	3	0.0364	22	32	2	4
31	July 24 - 30	0.0241	1	5	1	5	0.0224	14	46	2	6
32	July 31 - Aug 6	0.0440	2	7	0	5	0.1220	75	120	5	10
33	Aug 7 - 13	0.0856	4	11	1	6	0.1368	84	204	42	53
34	Aug 14 - 20	0.1814	8	19	3	10	0.2242	137	341	60	113
35	Aug 21 - 27	0.2430	11	30	0		0.2123	130	471	0	
36	Aug 28 - Sept 3	0.1857	8	38	0		0.1598	98	568	0	
37	Sept 4 - 10	0.1130	5	43	0		0.0618	38	606	0	
38	Sept 11 - 17	0.0252	1	44	0		0.0077	5	611	0	
39	Sept 18 - 24	0.0000	0	44	0		0.0005	0	611	0	
40	Sept 25 - 30	0.0000	0	44	0		0.0000	0	611	0	
			44		10	0.216			611	113	0.185

**In-season Estimates of Effort and Salmon Catch** updated 8/22/2023  
**2023 Willapa Bay Marine Area Recreational Mark Selective Chinook Fishery**

All data is preliminary and subject to change

Marked = Adipose fin clipped

Unmarked = Adipose fin not clipped

WB = Willapa Bay

Month	Week	Dates	Regulation	Estimated Catch					
				Estimated		Retained Chinook		Retained Coho	
				Boats	Anglers	Unmarked	Marked	Unmarked	Marked
July (Ocean Area 2 rules)	26	June 24-25	2 fish, 1 Chinook, No wild Coho retention allowed.	6	14	0	3	0	2
	27	June 26 - July 2		8	19	3	2	0	1
	28	July 3 - 9		14	23	0	0	0	0
	29	July 10 - 16		19	49	2	5	0	7
	30	July 17 - 23		23	64	6	5	0	26
	31	July 24 - 30		48	116	4	6	0	22
	32	31-Jul		4	6	0	0	0	0
Total to Date				122	291	15	21	0	58

Estimated Willapa origin Chinook Impacts	
Unmarked	Marked
0	1
1	1
0	0
1	2
2	2
1	2
0	0
5	8

For July, dockside sampling was conducted only at the Tokeland boat launch and marina

Effective July 28, 2023, Friday and Saturdays, Release Chinook and wild coho.

Effective Aug 18, 2023, Chinook retention opens seven days/week

Month	Week	Dates	Regulation	Estimated Catch								Estimated Encounters			Estimated Catch			
				Estimated		Retained CHINOOK				Released CHINOOK		Retained COHO						
				Boats	Anglers	Marked	Marked CPUE	Marked WB origin impacts	Unmarked	UM CPUE	UM WB origin impacts	Unmarked Encounters	UM CPUE	UM WB origin impacts	Marked	Marked CPUE	Unmarked	Unmarked CPUE
August	32	Aug 1 - 6	6 fish daily, 2 adults, Release wild Chinook	67	140	8	0.058	5	0	0.000	0	2	0.017	0	3	0.023	0	0.000
	33	Aug 7 - 13		255	541	70	0.129	42	0	0.000	0	17	0.032	1	2	0.003	0	0.000
	34	Aug 14 - 20		323	696	99	0.142	60	0	0.000	0	38	0.054	3	4	0.006	0	0.000
	35	Aug 21 - 27																
September	36	Aug 28 - Sept 3																
	37	Sept 4 - 10																
	38	Sept 11 - 17																
	39	Sept 18 - 24																
40	Sept 25 - 30																	
Total to Date				645	1,377	177		107	0		0	57		5	9		0	

These data represent the estimated expanded values (not raw data).

No jacks included in estimates.

For Aug and Sept., dockside sampling was conducted at Tokeland and South Bend

Strata 1 - Mon - Thurs

Strata 2 - Fri - Sun

CPUE = Catch per unit effort

Effort = An individual angler trip

Naselle Hatchery Adult Chinook Rack Returns

Preliminary/DRAFT \*

8/22/2023

Year	2020						2021						2022						2023 *					
Origin	Hatchery			Natural			Hatchery			Natural			Hatchery			Natural			Hatchery			Natural		
Stat Week	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing	Weekly Total	Cumulative	% Run Timing
31	-	-		-	-			0			0		1	1			0			0			0	
32	-	-		-	-		1	1		0	0		12	13	0%	0	0	0.0%	98	98	1%	5	5	0.8%
33	17	17	0%	0	0	0%	28	29	0%	3	3	0%	2	15	0%	0	0	0.0%	100	198	3%	3	8	1.3%
34	59	76	1%	3	3	0%	63	92	1%	0	3	0%	36	51	1%	6	6	1.0%	87	285	4%	5	13	2.1%
35	52	128	2%	6	9	1%	50	142	2%	1	4	1%	191	242	3%	17	23	3.7%		285	4%		13	2.1%
36	107	235	4%	5	14	2%	4	146	2%	0	4	1%	174	416	6%	15	38	6.0%		285	4%		13	2.1%
37	649	884	13%	34	48	7%	73	219	3%	4	8	1%	74	490	7%	11	49	7.8%		285	4%		13	2.1%
38	372	1256	19%	3	51	8%	242	461	6%	14	22	3%	84	574	8%	6	55	8.7%		285	4%		13	2.1%
39	1,600	2856	43%	6	57	9%	3,000	3,461	42%	0	22	3%	49	623	9%	2	57	9.0%		285	4%		13	2.1%
40	892	3748	56%	6	63	10%	962	4,423	53%	137	159	21%	608	1,231	18%	53	110	17.5%		285	4%		13	2.1%
41	874	4622	69%	178	241	37%	940	5,363	64%	81	240	32%	2549	3,780	54%	152	262	41.6%		285	4%		13	2.1%
42	1122	5744	86%	228	469	72%	2304	7,667	92%	388	628	85%	1696	5,476	79%	184	446	70.8%		285	4%		13	2.1%
43	407	6151	92%	118	587	91%	306	7,973	96%	72	700	95%	619	6,095	88%	46	492	78.1%		285	4%		13	2.1%
44	492	6643	99%	59	646	100%	230	8,203	98%	18	718	97%	463	6,558	94%	88	580	92.1%		285	4%		13	2.1%
45	26	6669	100%	1	647	100%	88	8,291	99%	17	735	99%	207	6,765	97%	18	598	94.9%		285	4%		13	2.1%
46	10	6679	100%	0	647	100%	36	8,327	100%	5	740	100%	98	6,863	99%	31	629	99.8%		285	4%		13	2.1%
47	1	6680	100%	0	647		7	8,334	100%	0	740		76	6,939	100%	0	629	99.8%		285	4%		13	2.1%
48	0	6680		0	647		1	8,335		0	740		1	6,940	100%	0	629	99.8%		285	4%		13	2.1%
49	0	6680		0	647		0	8,335		0	740		4	6,944	100%	0	629	99.8%		285	4%		13	2.1%
50	0	6680		0	647		0	8,335		0	740		1	6,945	100%	1	630	100.0%		285	4%		13	2.1%
51	0	6680		0	647		0	8,335		0	740		1	6,946	100%	0	630			285	4%		13	
<b>Total</b>	<b>6,680</b>			<b>647</b>			<b>8,335</b>			<b>740</b>			<b>6,946</b>			<b>630</b>			<b>285</b>			<b>13</b>		

**2023 Willapa Bay CHINOOK Broodstock Summary**

FishBooks updated 8/24/2023  
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 (prior to spawning)			CHINOOK surplus to-date		
									Females	Males	Jacks	Females	Males	Jacks
5,000,000	500,000	5,500,000	3,000	1,833	0	1,833	240	0	27	17	1	0	0	0
									Total	45		Total	0	

**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 (prior to spawning)			CHINOOK surplus to-date		
									Females	Males	Jacks	Females	Males	Jacks
3,300,000	330,000	3,630,000	3,000	1,210	0	1,210	0	0	0	0	0	0	0	0
									Total	0		Total	0	

**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 (prior to spawning)			CHINOOK surplus to-date		
									Females	Males	Jacks	Females	Males	Jacks
400,000	40,000	440,000	3,000	147	0	147	0	0	0	0	0	0	0	0
									Total	0		Total	0	

Preliminary draft

		2023 MSF Chinook																						
Stat Wk	Dates	Catch Areas																				Total Basin Landed Catch	Basin NOR Origin Landed	Basin HOR Origin 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			
33	Aug 13 - 19	Closed																						
34	Aug 20 - 26	Closed				Closed				48	NA	48	0	NA	0	246	NA	246	294	0	294			
35	Aug 27 - sept 2	Closed				Closed					NA	0		NA	0		NA	0	0	0	0			
36	Sept 3 - 9	Closed																						
37	Sept 10 - 16		NA	0		NA	0		NA	0		NA	0		NA	0		NA	0	0	0	0		
38	Sept 17 - 23		NA	0		NA	0		NA	0		NA	0		NA	0		NA	0	0	0	0		
39	Sept 24 - 30		NA	0		NA	0		NA	0		NA	0		NA	0		NA	0	0	0	0		
40	Oct 1 - 7		NA	0		NA	0		NA	0		NA	0		NA	0		NA	0	0	0	0		
41	Oct 8 - 14		NA	0		NA	0		NA	0		NA	0		NA	0		NA	0	0	0	0		
42	Oct 15 - 21	Closed																						
43	Oct 22 - 28	Closed																						
44	Oct 29 - Nov 4		NA			NA			NA			NA			Closed				0	0	0			
45	Nov 5 - 11		NA			NA			NA			NA				NA			NA		0	0	0	
46	Nov 12 - 18		NA			NA			NA			NA				NA			NA		0	0	0	
47	Nov 19 - 25		NA			NA			NA			NA				NA			NA		0	0	0	
48	Nov 26 - 30		NA			NA			Closed				Closed					NA		0	0	0		
<b>TOTAL LANDED</b>		<b>0</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>48</b>		<b>48</b>	<b>0</b>		<b>0</b>	<b>246</b>		<b>246</b>		<b>246</b>	<b>294</b>	<b>0</b>	<b>294</b>			

2N, M, R, & T: Tangle Net Weeks 34-38      
 2U: Tangle Net Weeks 37-41    
 MSF & Small Mesh: Weeks 39-41, 44-48

Notes:  
 In Season Management actions:  
 1 E-reg: Open 2M and 2R on Aug 20, 2023 AND Close ALL commercial fishing on Aug 25, 2023



2023 Willapa Bay CHINOOK Impacts

COMMERCIAL

Preliminary draft

Stat Wk	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
	33	Closed										0	0	0
34	Closed		Closed		2	2	0	0	11	10	12	12	34	34
35	Closed		Closed										35	69
36	Closed												0	69
37													92	161
38													124	285
39													73	358
40													41	399
41													16	415
42	Closed												0	415
43	Closed												0	415
44									Closed				0	415
45													0	415
46													0	415
47													0	415
48					Closed		Closed						0	415
<b>TOTALS</b>	0	0	0	0	0	0	0	0	0	0	12		415	

Tangle Net  
MSF

0
0

0
0

2
0

0
0

10
0

2023 Willapa Bay COHO Commercial Catch and Impacts

Blue = Preliminary draft

Stat Wk	2T				2U				2N				2R				2M				WB In-season			WB PRESEASON Predicted																			
	Total Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	Total Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	Total Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	Total Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	Total Landed Catch	UnMarked %	Estimated NOR	Estimated HOR	NOR	HOR	Total	NOR	HOR	Total																	
33	Closed																							0	0	0																	
34	Closed				Closed				0	0.000	0	0	0	0.000	0	0	6	0.000	0	6	0	6	6	7	6	13																	
35	Closed				Closed						0	0							0	0				17	7	24																	
36	Closed																																								0	0	0
37											0	0							0	0				882	2,557	3,439																	
38			0	0			0	0			0	0							0	0				3,503	13,190	16,693																	
39			0	0			0	0			0	0			0	0			0	0				3,272	11,803	15,075																	
40			0	0			0	0			0	0			0	0			0	0				3,021	7,596	10,617																	
41			0	0			0	0			0	0			0	0			0	0				2,564	3,296	5,860																	
42	Closed																																				0	0	0				
43	Closed																																				0	0	0				
44																	Closed							894	434	1,328																	
45			0	0			0	0			0	0												513	342	855																	
46			0	0			0	0			0	0							0	0				555	326	881																	
47			0	0			0	0			0	0							0	0				13	7	19																	
48	Closed										Closed																7	4	11														
<b>TOTALS</b>	0		0	0	0		0	0	0		0	0	0		0	0	6		0	6	0	6	6	15,248	39,567	54,815																	
<b>Tangle Net</b>	0		0	0	0		0	0	0		0	0	0		0	0	6		0	6																							
<b>Small mesh</b>	0		0	0	0		0	0	0		0	0	0		0	0	0		0	0																							
	0		0	0	0		0	0	0		0	0	0		0	0	6		0	6																							

