



Washington Department of
FISH and WILDLIFE

Recreational Crab & Shrimp Advisory Committee Meeting

October 17, 2024

10:00 am – 1:00 pm

Meeting Topics



Break

- **Housekeeping**

- **2024 Shrimp Season Recap**

- Final recreational/commercial harvests
- Shrimp creel data summary
- Season performance
- Rec changes to consider for 2025

- **Co-management Projects**

- Negotiating management plans
- Technical Working Group (Crab)

- **Electronic Catch Record Card**

- Products
- Rollout and timeline
- Key functions (editing and validation)
- Database work and estimation methods

- **2024 Crab Season Update**

- Preliminary estimates/reporting
- Summer creel project
- MA 10/11 winter prospects
- Upcoming partitioning surveys
- South Sound update
- Derelict and closed season gear

- **Misc. Updates**

- Pacific Northwest Crab Research Group (PCRG)
- Advisor feedback, comments, and ideas

Housekeeping

- **Advisor terms expire in February**
 - New applications will be accepted for positions beginning in early January
 - Form will be available on the RCSAC web page
 - Applications are due by January 19, 2025.
- **Up to 11 advisors will comprise the RCSAC**
 - Seeking to have representation from all Puget Sound Marine Areas
 - Seeking to have representation from various demographic groups/sectors
 - Affiliations with organized groups not required

2024 Shrimp Season Recap

Area	Number of Days	Dates	Projected Harvest (lbs)
MA 4	123	May 16 through Sept 15.	500
MA 5	123	May 16 through Sept 15.	800
MA 6 Discovery Bay	2	May 17 and May 30.	1,645
MA 6 outside Disco Bay	13	5/16-5/18, 5/30-6/1, 6/13-6/16, 6/28-6/30	27,039
MA 7 South	9	5/16-5/18, 5/30-6/1, 6/13-6/15	17,343
MA 7 East	6	5/16-5/18, 5/30-6/1	4,625
MA 7 West	12	5/16-5/18, 5/30-6/1, 6/13-6/15, 6/28-6/30	38,320
MA 8-1, 8-2	4	5/16, 5/30, 6/13, 7/10	20,709
MA 9	2	5/216, 6/13	6,763
MA 10 inside Elliott Bay	3	5/16, 6/13, 7/10	5,490
MA 10 outside Elliott Bay	2	5/16, 6/13	2,195
MA 11	1	5/16	710
MA 12	5	5/17, 5/18, 5/30, 6/15, 6/28	95,819
ALL AREAS TOTAL			221,958

2024 Shrimp Season Recap

SPOT SHRIMP MANAGEMENT REGIONS	STATE HARVEST FOR THE POT FISHERY SPOT SHRIMP							Percent Allocation	
Spot Shrimp Management Regions	Quota	Total State Quota	Adjusted State Share	Rec. Harvest	Comm. Harvest	Total	Remaining	Recreational	Commercial
1A/20B, 22A (west)	80000	40000	38630	38320	3451	41771	-3141		
1B/20B, 22A (east), 21A	16800	8400	4459	3625	833	4458	1		
1C/20A, 21A, 21B, 22B	6000	3000	3000	1000	2000	3000	0		
REGION 1 TOTALS	102800	51400	46089	42945	6284	49229	-3140	93.18%	6.82%
2E/24A-D, 26A-E (Skagit - Mukilteo)	46000	23000	21529	20709	702	21411	118		
2W/25B-D, 26AW (Edmonds - Admiralty Inlet)	15000	7500	7381	6763	512	7275	106		
REGION 2 TOTALS	61000	30500	28910	27472	1214	28686	224	95.03%	4.97%
3/23A-E (S Lopez I-Iceberg Pt, etc)	42000	21000	16309	14843	2039	16882	-573		
3/23A-W (S San Juan I-Salmon Bank, etc)	40000	20000	20000	2500	17470	19970	30		
3/23A-C, 23B (Straits-Hein, Eastern Bank, Smith I)	127000	63500	63500	5872	57623	63495	5		
3/23A-S, 23D (Straits-NE of P.A.)	17000	8500	8500	2000	6290	8290	210		
3/23C (Straits-Sekiu to P.A.)	4000	2000	2000	800	902	1702	298		
3/25A Outside District 1 (North of Protection Is.)	42000	21000	18265	19167	1027	20194	-1929		
3/25A,25E (Inside Disco. Bay SD)	4000	2000	2000	1645	0	1645	355		
3/29 (Straits - Neah Bay)	2000	1000	1000	500	0	500	500		
REGION 3 TOTALS	278000	139000	131574	47327	85351	132678	-1104	35.97%	64.03%
4/26B-1, 26C (Seattle - Bainbridge Is.)	11000	5500	5176	2195	432	2627	2549		
4/26B-2 (Elliott Bay)	13000	6500	6500	5490	652	6142	358		
REGION 4 TOTALS	24000	12000	11676	7685	1084	8769	2907	65.82%	34.18%
5/27A-C (Hood Canal)	200000	100000	100000	95819	4177	99996	4		
REGION 5 TOTALS	200000	100000	100000	95819	4177	99996	4	95.82%	4.18%
6/26D (Vashon Island)	10000	5000	5000	710	0	710	4290		
6/28A-D (South Puget Sound)	300	150	150	0	0	0	150		
REGION 6 TOTALS	10300	5150	5150	710	0	710	4440	13.79%	86.21%
ALL REGIONS GRAND TOTAL	676100	338050	323399	221958	98110	320068	3331	68.63%	31.37%

2024 Shrimp Creel Summary

- **Almost all data is now being entered by creelers into iForm**
- **Vast majority of shrimping boats are harvesting spot shrimp**
- **Only 42 boats of 3,898 interviewed in 2024 data show non-spot harvest**
- **Average count of non-spots (when retained) was 32**
- **% of harvesters removing heads in the field similar to last year**
- **Rule change encouraged more people to remove heads initially**
- **In 2024 about 33% of boats (where weights were taken) left heads on**
- **Shrimp weight samples were obtained from 1,018 boats of the 3,898 interviewed**
- **This represents ~26% of the boats interviewed**
- **In 2023 weights were obtained from ~19% of the boats interviewed**

2024 Shrimp Creel Summary

Creel Site	Boats Interviewed	Creel Site	Boats Interviewed
Bellingham Ramp	167	Misery Point	183
Camano Island State Park Ramp	68	Pleasant Harbor Marina	215
Cape George Marina	19	Point Defiance Ramp	77
Cornet Bay State Park Ramp	713	Port Angeles Boat Haven Ramp	36
Cushman Ramp	128	Port of Friday Harbor Marina	50
Don Armeni Ramp	125	Port Townsend Boat Haven Ramp	64
Ediz Hook Ramp	61	Roche Harbor Marina	12
Edmonds Marina	20	Salsbury Point County Park Ramp	222
Everett Ramp	404	Shilshole Ramp	62
Gardiner Ramp	34	Triton Cove SP Boat Ramp	155
Griffin Bay Ramp	12	Twanoh State Park Ramp	284
John Wayne Marina Ramp	662	Washington Park Ramp	103
Kingston Ramp	22		
Total Boats		3,898	

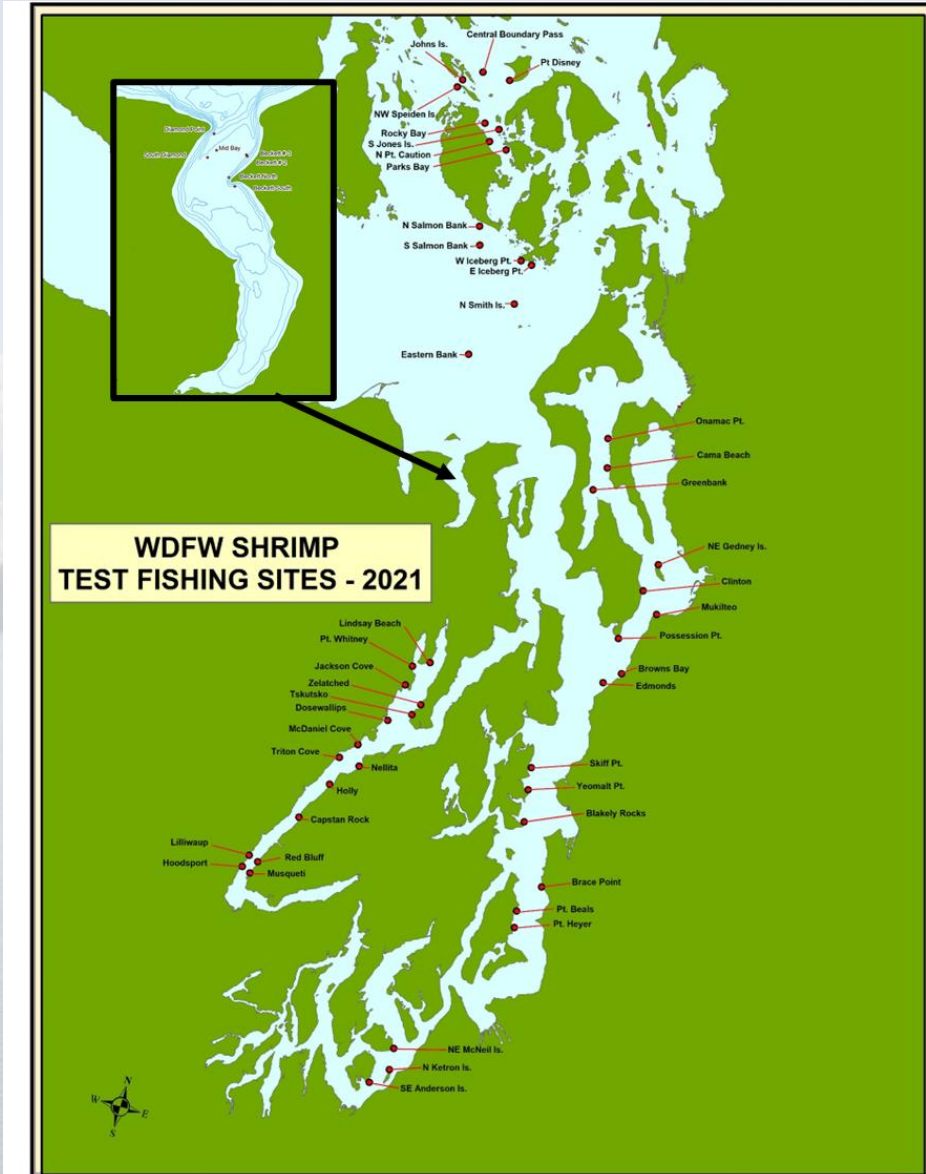
Quota Area / Creel Area	Description	No. of Boats	No. of Pots Fished	No. of Shrimp Fishers	No. of Spot shrimp Retained	Pots Per Boat	Shrimpers Per Boat	Spot Shrimp Per Boat	% Change from 2023
MA 6 22A-13	Lawson Reef Area	51	166	144	9,096	3.25	2.82	178	-13%
MA 6 23AC	Eastern Bank, Hein Bank, S. McArthur Bank	39	136	132	10,141	3.49	3.38	260	10%
MA 6 23AS	Central Strait	3	7	7	560	2.33	2.33	187	-59%
MA 6 23B-1	Smith, Partridge Bank	74	245	226	16,053	3.31	3.05	217	17%
MA 6 23C-1	West of Port Angeles	1	4	4	320	4.00	4.00	320	
MA 6 23D-1	Port Angeles Harbor	108	294	235	12,889	2.72	2.18	119	34%
MA 6 25A-1	Protection, Dungeness Bank, Dallas Bank	674	2,205	2,122	153,206	3.27	3.15	227	10%
MA 6 Disco 25A-2,25E-1	Discovery Bay	64	196	173	11,738	3.06	2.70	183	9%
MA 7E 20A-1	Canadian Border to northern San Juans	3	9	10	466	3.00	3.33	155	
MA 7E 20B-1	Matia, Sucia, NE Orcas	37	124	114	5,931	3.35	3.08	160	-27%
MA 7E 21A-1	N. Lummi								
MA 7E 22A-11	Cypress, Blakely, E. Lopez	29	91	102	4,686	3.14	3.52	162	-31%
MA 7E 21A-2	S. Lummi	27	89	84	4,249	3.30	3.11	157	-24%
MA 7E 22B-1	Huckleberry								
MA 7S 22A-12	Biz Pt., Pt. Colville	48	144	135	6,281	3.00	2.81	131	-30%
MA 7S 23AE	Iceberg Pt., N. McArthur Bank	463	1,508	1,502	109,442	3.26	3.24	236	6%
MA 7S 23AW	Salmon Bank, False Bay, Mineral Pt., Eagle Pt.	9	24	34	1,928	2.67	3.78	214	11%
MA 7W 20B-2	N. Speiden, Waldron, NW Orcas	115	377	386	26,450	3.28	3.36	230	-18%
MA 7W 22A-21	Rocky Bay, Pt. Caution, Friday Hbr, Jones, Yellow	166	503	567	32,746	3.03	3.42	197	-18%
MA 7W 22A-22	S. Speiden, NW San Juan	17	52	57	3,559	3.06	3.35	209	2%
MA 8-1, MA 8-2	Everett, Port Susan, E Whidbey	408	1,394	1,226	60,138	3.42	3.00	147	0%
MA 9	Admiralty Inlet	126	451	432	27,964	3.58	3.43	222	-1%
MA 10 inside Elliott	Elliott Bay	146	518	495	22,103	3.55	3.39	151	-14%
MA 10 outside Elliott	MA 10 outside Elliott Bay	43	137	118	3,257	3.19	2.74	76	-56%
MA 11	N. Vashon to Tacoma Narrows	59	185	165	2,383	3.14	2.80	40	-39%
MA 12	Hood Canal	1,188	4,327	4,382	301,520	3.64	3.69	254	1%
ALL AREAS		3,898	13,186	12,852	827,106	3.38	3.30	212	

2024 Shrimp Creel Summary

Marine Area	Pounds per Shrimp	Count per Pound
6 North part outside Disco	0.076	13.2
6 South part outside Disco	0.073	13.7
6 Discovery Bay	0.067	14.9
7 West	0.072	13.9
7 East	0.078	12.8
7 South	0.078	12.8
8-1/8-2	0.090	11.1
9	0.073	13.7
10 inside Elliott Bay	0.094	10.6
10 outside Elliott Bay	0.083	12.0
11	0.080	12.5
12	0.073	13.7

**Range
10.6 -14.9
per pound**

2024 Shrimp Test Fisheries



- Post-season sampling underway currently
- Re-organized the database and summary application



2024 Post-Season Shrimp Tests - Schedule

Marine Area(s)	Dates	Notes
6 and 7	October 9-11	Recent MA 6 catches quite good, recent MA 7 catches ?
8, 9, and 10	October 15-17	MA 9 and 10 catches near 0 in fall 2023, MA 10 poor in spring 2024.
11 and 13	October 22-24	Recent spot catches have been very poor, particularly Beals Pt.
12	October 28-31	Recent spot abundance has been very good.
Discovery Bay	Nov 4-5	CPUE has been static for a few years.

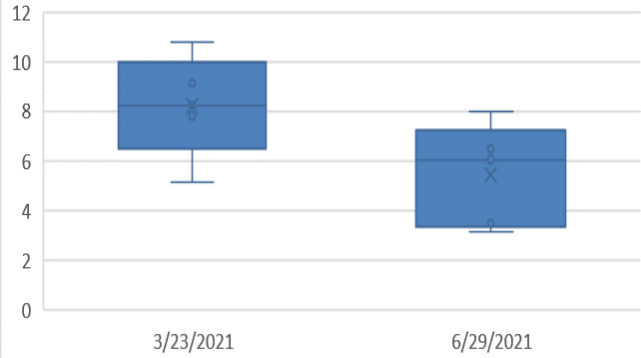


2024 Shrimp Tests – Results MA 11 (lbs/pot)

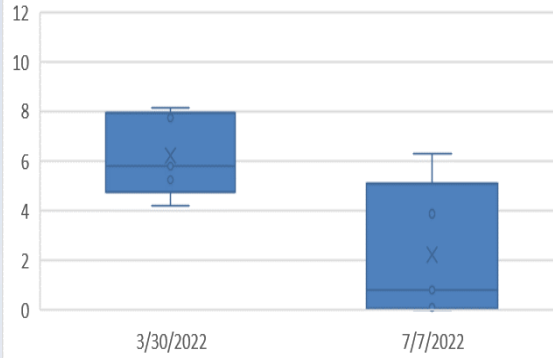
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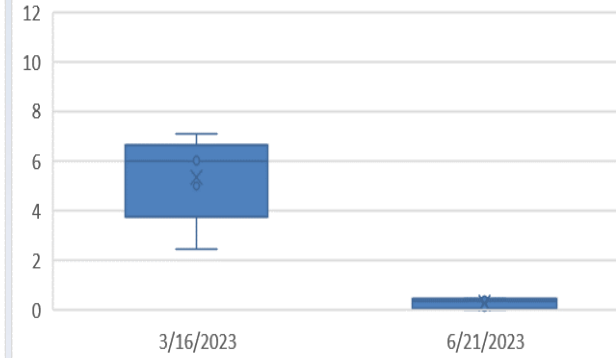
2021 Shrimp Test Fishery Results - N Beals Pt.



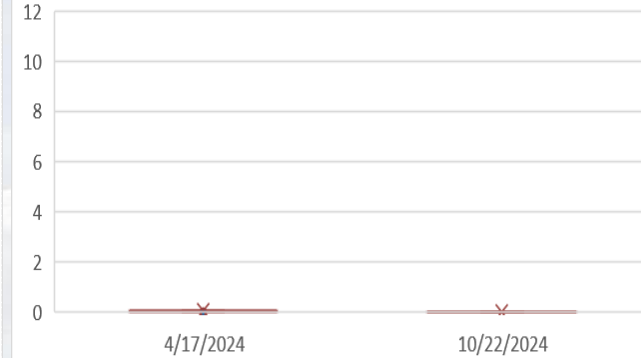
2022 Shrimp Test Fishery Results - N Beals Pt.



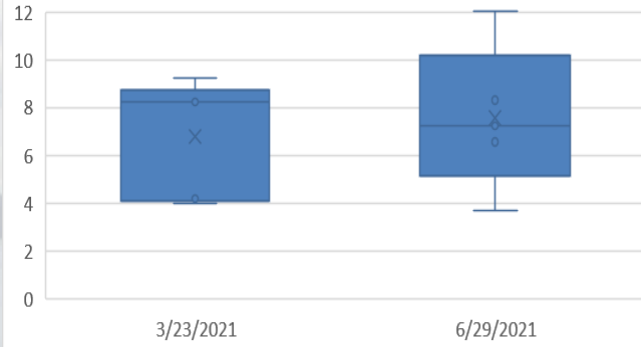
2023 Shrimp Test Fishery Results - N Beals Pt.



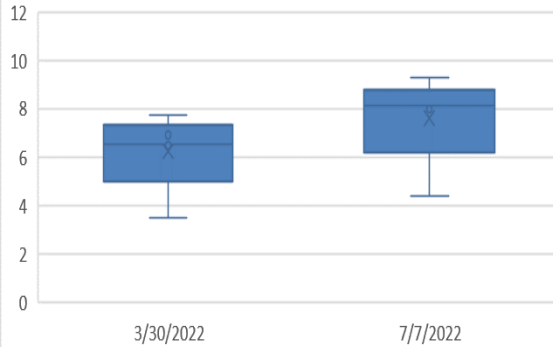
2024 Shrimp Test Fishery Results - N Beals Pt.



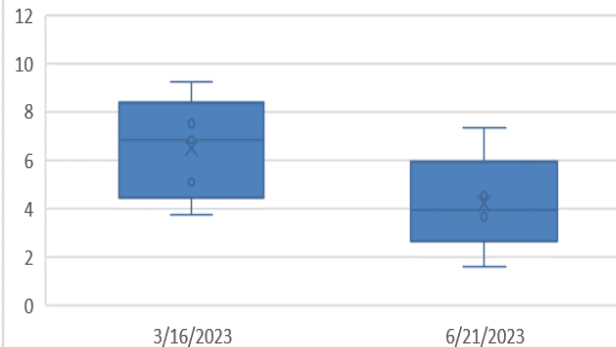
2021 Shrimp Test Fishery Results - Pt. Heyer



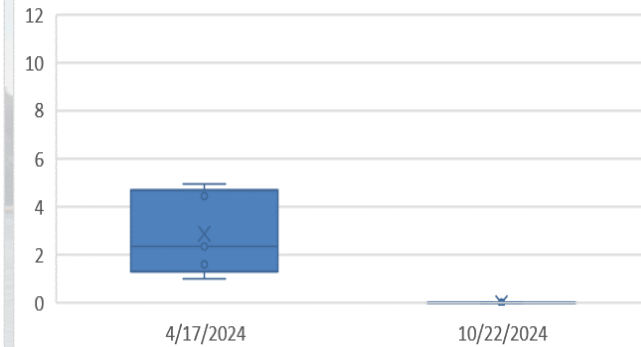
2022 Shrimp Test Fishery Results - Pt. Heyer



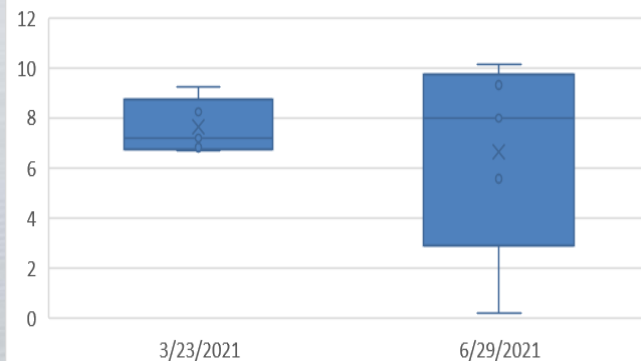
2023 Shrimp Test Fishery Results - Pt. Heyer



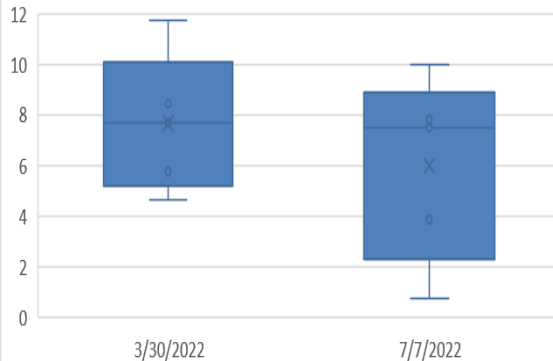
2024 Shrimp Test Fishery Results - Pt. Heyer



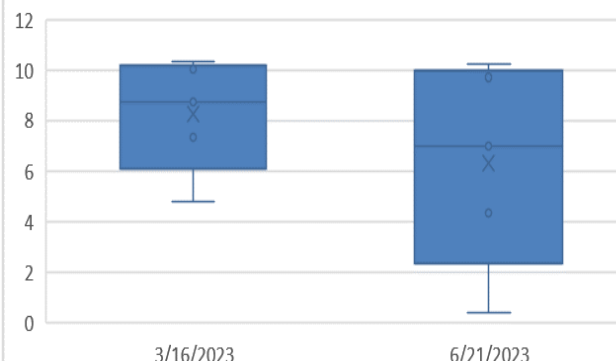
2021 Shrimp Test Fishery Results - S Brace Pt.



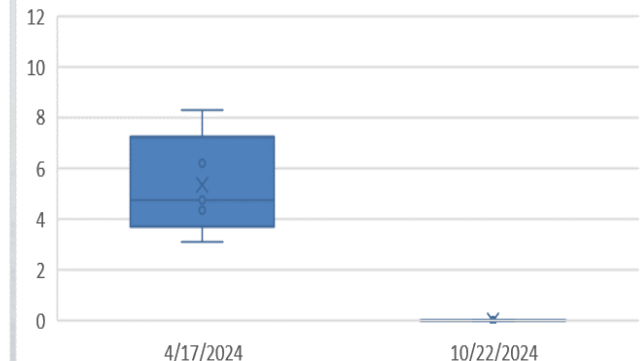
2022 Shrimp Test Fishery Results - S Brace Pt.



2023 Shrimp Test Fishery Results - S Brace Pt.



2024 Shrimp Test Fishery Results - S Brace Pt.

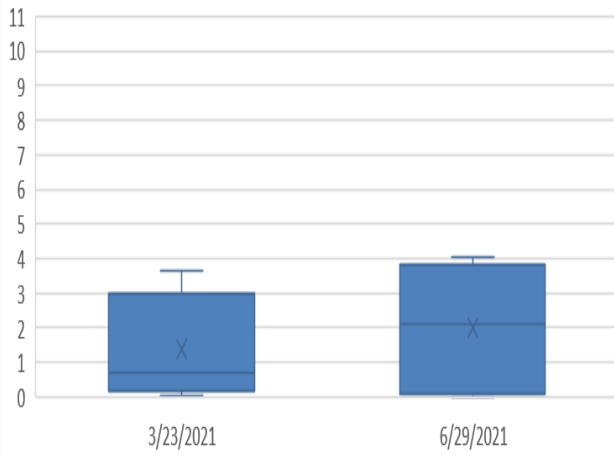


2024 Shrimp Tests – Results MA 13 (lbs/pot)

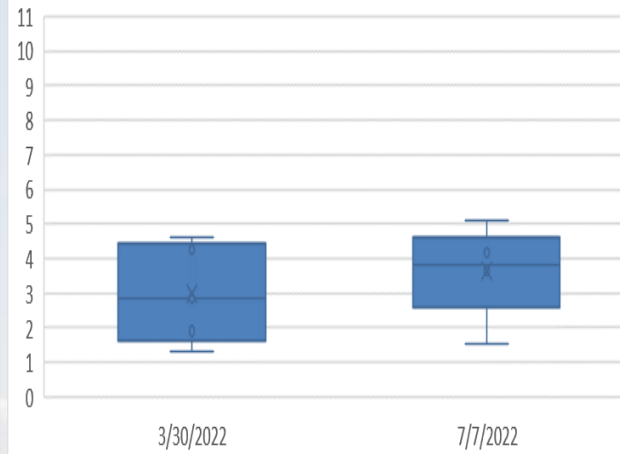
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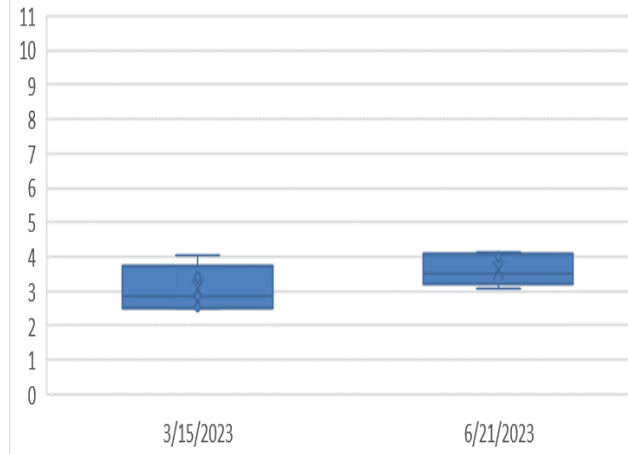
2021 Shrimp Test Fishery Results - NE McNeil



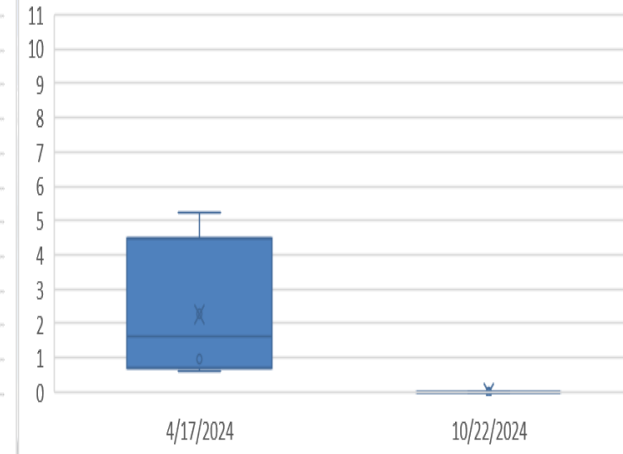
2022 Shrimp Test Fishery Results - NE McNeil



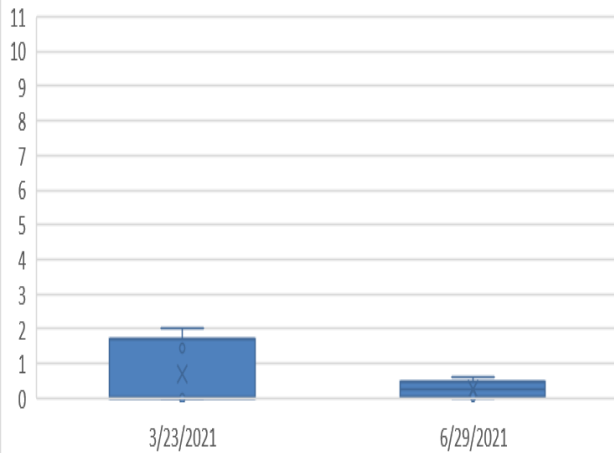
2023 Shrimp Test Fishery Results - NE McNeil



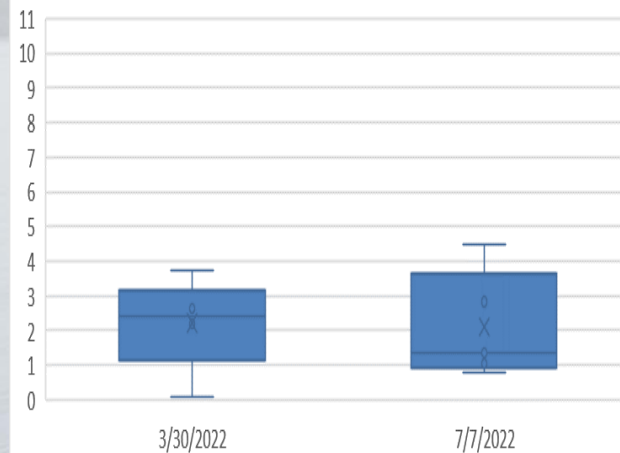
2024 Shrimp Test Fishery Results - NE McNeil



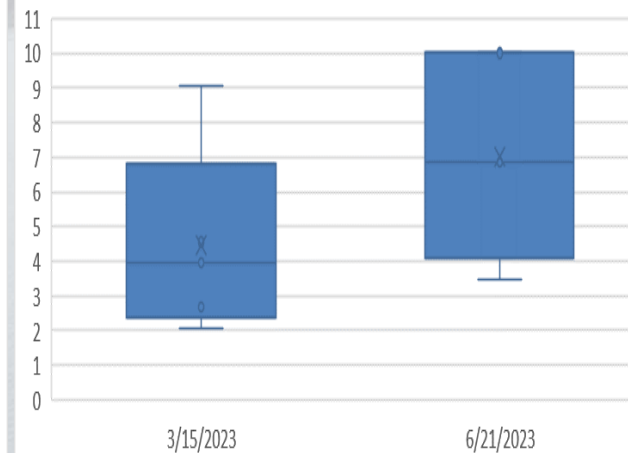
2021 Shrimp Test Fishery Results - SE Anderson



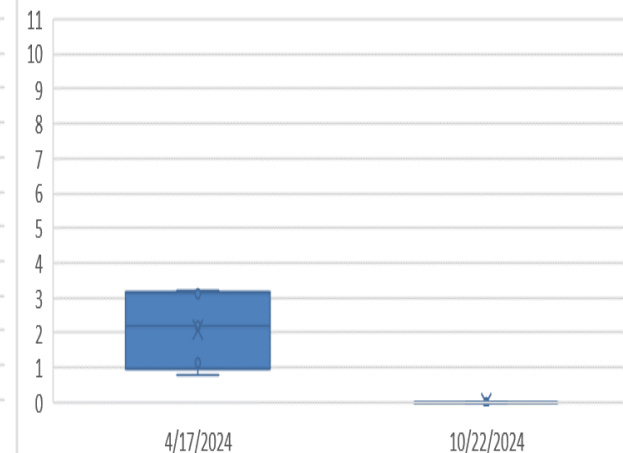
2022 Shrimp Test Fishery Results - SE Anderson



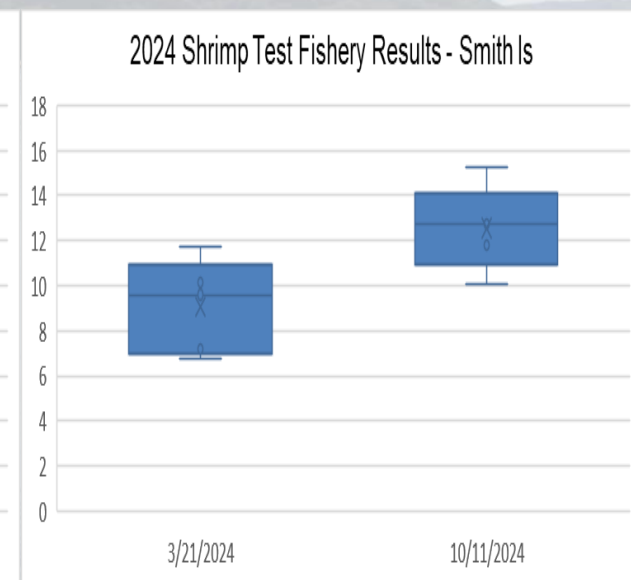
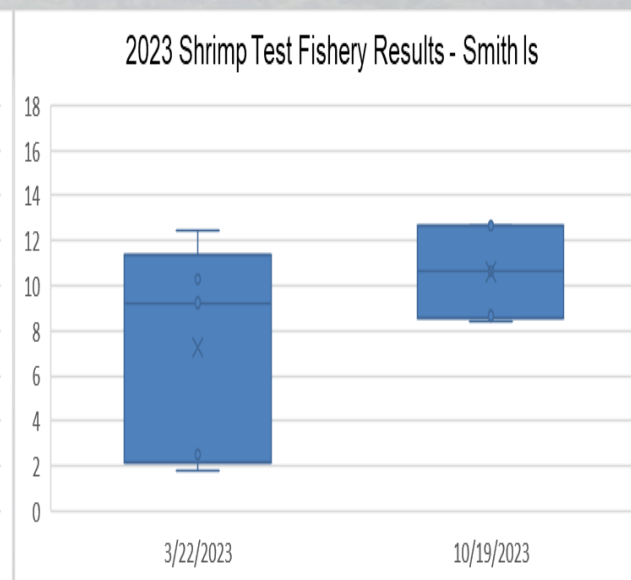
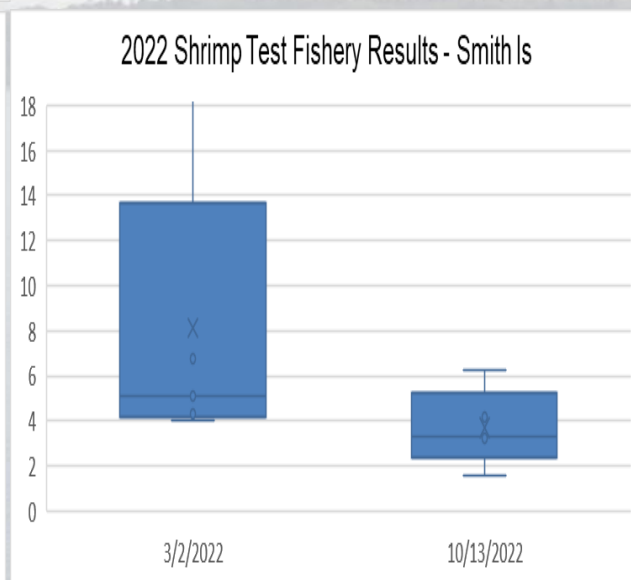
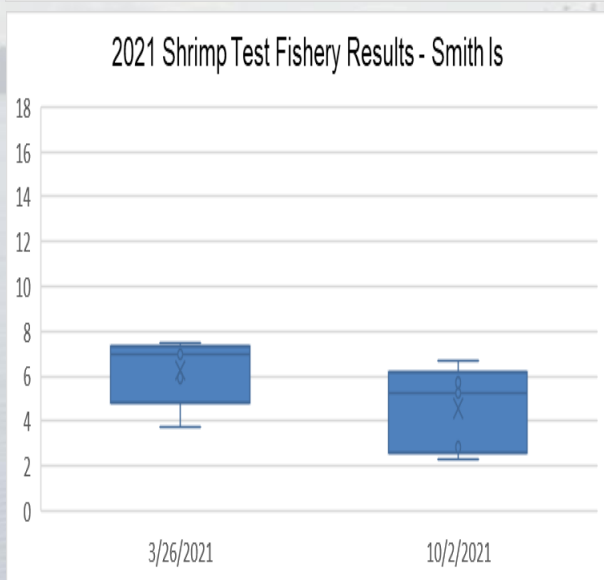
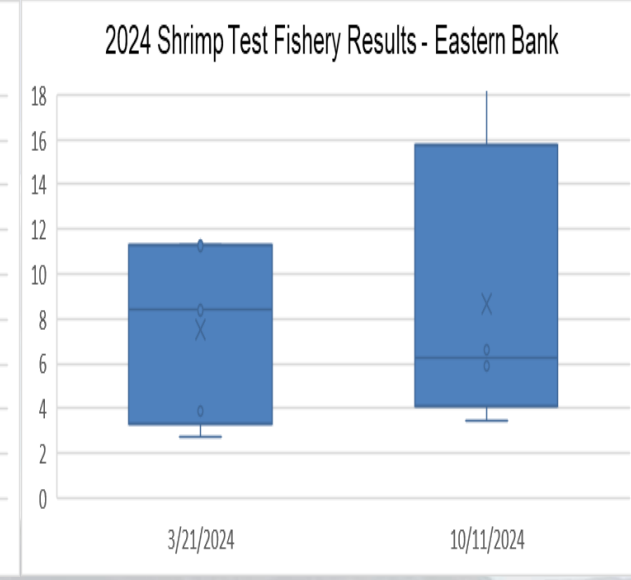
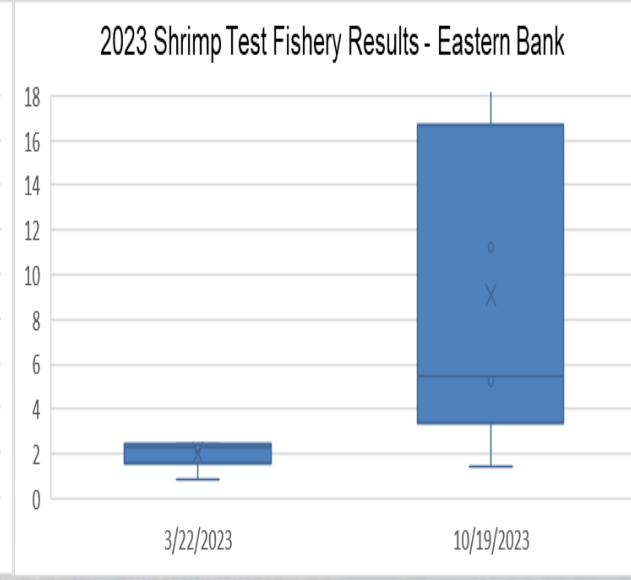
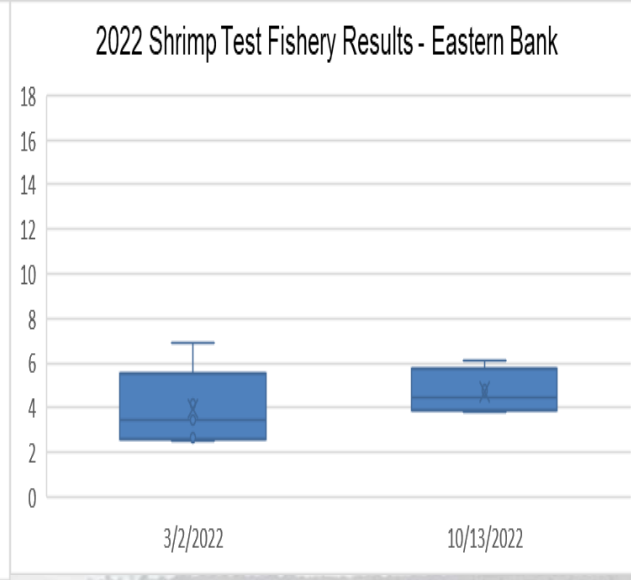
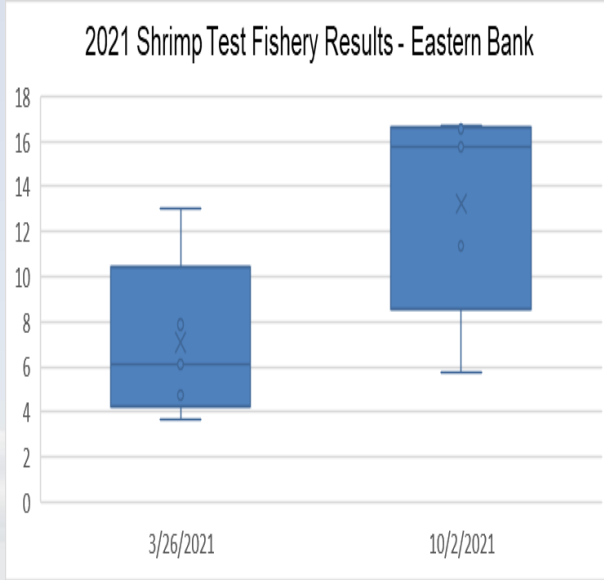
2023 Shrimp Test Fishery Results - SE Anderson



2024 Shrimp Test Fishery Results - SE Anderson



2024 Shrimp Tests – Results MA 6 (lbs/pot)



Shrimp 2025 – Changes to consider

- Re-evaluating number of announced "certain" dates and "if quota allows" dates
- Having MA 6 and MA 7 openings include 3 consecutive days and not 4 in a week to include more weeks with opportunity.
- Targeting the week of May 22 (Thursday) in 2025 to start because of tides.

Co-management Projects – Negotiating Plans

○ **Shrimp**

- Most plans were finalized for 2024 except Region 1 (MA 7)
- Region 4 (MA 10) and Region 6 (MA 11 & 13) may need discussions about lowering spot shrimp quotas

○ **Crab**

- Only Region 7 (MA 13) plan signed for 2024
- Agreement on all 2025 plans in question
- The primary issue is disagreement over the recreational estimates
- Other issues involve generating estimates for crab lost to derelict gear and recreational Red Rock crab catch accounting

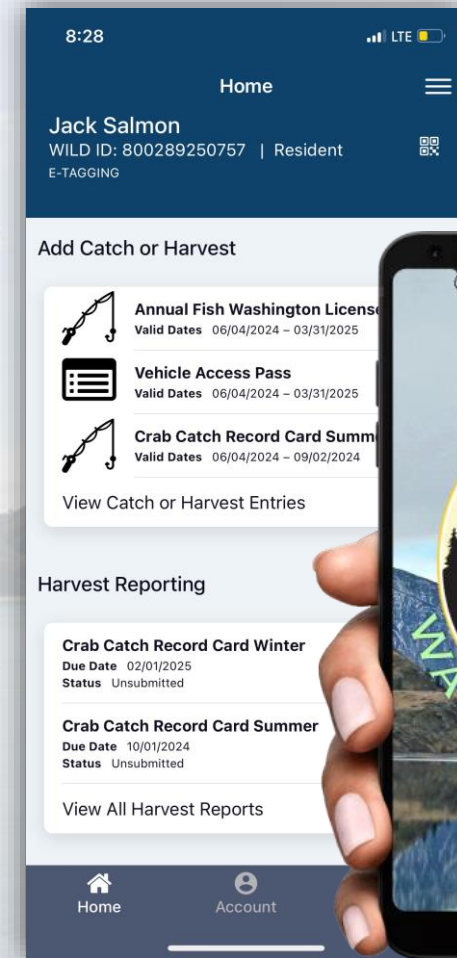
Co-management Projects – Technical Working Group (Crab)

Technical Working Group's first project is working on documenting the process and details from the collection of raw CRC data to the generation of the estimates. This work has been performed for years by the CRC unit but is not well documented. Topics of focus include:

- How CRC data is collected
- How CRC data is reported and archived
- How CRC data is error-checked
- How unknowns (incomplete reports) are included in catch
- How duplicate reports (mail and internet) are dealt with
- How non-reported CRCs are accounted for in the final estimates
- How Marine Areas are partitioned into subareas for managers
- What is done with late reports and if those have a different catch profile from reports submitted on time

Electronic Catch Card (eCRC) – Mobile Applications

- Releasing Two Applications:
- **MyWDFW**– purchase and manage fishing and hunting licenses, harvest reporting (hunting tags/fish eCRCs), enforcement view
- **FishWA** (update) – harvest reporting (eCRCs only) and regulations
 - FishWA currently used by many anglers (200k+ annually) for regulation information
- Available on iOS or Android devices



eCRC Implementation – Priorities

- Planned Winter rollout of MyWDFW application
- eCRCs will start with the 2025/26 licensing year – April - effective deadline to develop new database structure
- **CRC Species and Work Priorities**



Salmon/steelhead, Sturgeon, and halibut catch currently not *solely* dependent on CRC data



PS Crab entirely dependent on CRC data for catch estimation

- Initial priority Puget Sound crab -> development changes will be applicable for all species – easily build in species-specific changes later

eCRC Implementation – Legislative Request

- **Critical resources are still needed for successful eCRC implementation!**
 - Previous funding only supported application development
- WDFW "Mobile Application Support" Decision Package includes:
 - Fish Program Biometricians – support catch and eCreel methods
 - IT App Development and Licensing Customer Support
 - Puget Sound Shellfish – Expand summer and winter recreational crab creel technicians and biologist support;

eCRC Implementation – Expectations

- The **complete** application will be available for download at rollout
- No public beta testing - logistically unfeasible to utilize members of the public to test the application
- While not official beta – we will be utilizing creel staff to collect data during creel interviews to test application and eCreel methods->used in method development process

• Year 1 Implementation Expectations



Salmon/steelhead, sturgeon, and halibut will continue to rely on current creel estimation procedures for in-season harvest estimation and collect all the necessary data to produce in-season estimate from CRCs using newly developed eCreel methods



PS Crab will also collect all the necessary data to produce daily in-season harvest estimates from CRCs – can't commit to producing in-season estimates

Communication – Comanager and Public

Comanager – Methods development process

- Engaging with tribal comanagers/biometricians during methods development
- Species specific technical working groups engaging to develop eCRC methods

Public - Outreach Plan

- Formal outreach plan developed by WDFW CAPE team
- Engaging with license dealers (currently ~75% of WDFW license sales) starting in Nov. through spring
- Engage license holders directly starting in Nov. via email, news release, additional media content

MyWDFW – User Interface PS Crab

Record Harvest

8:32 LTE

Catch Harvest Report

Crab Catch Record Card Summer

06/04/2024 TALLY **2** SEASON TALLY **2**

Summer Crab
8-1 - Deception Pass, Hope Island, and Skagit Bay
1 Marine Area: 8-1 - Deception Pass, Hope Island, and Skagit Bay | Catches: 2
06/04/2024 8:30 AM

ADD CATCH **CLOSE**

8:30 LTE

Catch Harvest Report

Crab Catch Record Card Summer

Immediately upon retaining a Dungeness crab, you are required to record your catch by completing the record below. Failure to do so is a violation of Washington State Law.

Marine Area
8-1 - Deception Pass, Hope Island, and Skagit Bay

Catch count for this entry (each selection represents 1 catch):

SAVE **CANCEL**

Harvest Summary

8:37 LTE

Catch Harvest Report

Crab Catch Record Card Summer

Synced Harvests
Summer Crab:2

Unsynced Harvests
Summer Crab:0

Records

Summer Crab ✓
8-1 - Deception Pass, Hope Island, and Skagit Bay
13 - South Puget Sound
Count: 1
06/04/2024 08:37 AM PDT

Summer Crab ✓
8-1 - Deception Pass, Hope Island, and Skagit Bay
13 - South Puget Sound
Count: 2
06/04/2024 08:30 AM PDT

Home Account Enforcement

Enforcement View

8:29 LTE

Enforcement

Mobile License Holder (as of 06/04/2024)

Wild ID: **800289250757**

Jack Salmon
DOB: **01/01/2000**
HGT: **6' 0"** WGT: **180 lb**
EYES: **Brown** SEX: **Male**
LIC#: **Not Provided**

1111 Washington St
OLYMPIA, Washington 98504
United States

(564) 669-3710 Cell

Account and device up to date

Active Privileges


Licenses

Annual Fish Washington License
ISSUED: **06/04/2024**
VALID: **06/04/2024 - 03/31/2025**

Home Account Enforcement

Application Functionality – Harvest Reporting Rules

Over-harvest Reporting

- No over-harvest reporting for:
 -  Logistically unfeasible
- Decision making considerations: data quality, education, eCreel validation (to ensure no effect on estimates!), supporting data



Closed Area Reporting

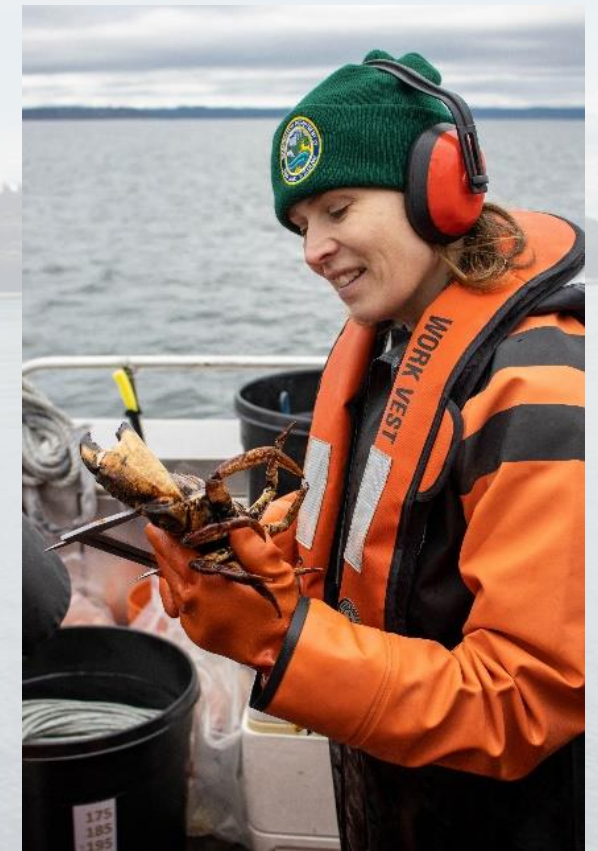
- Recording harvest on eCRC will require the license holder to enter catch area – same as paper CRC – no phone geolocation requirement
- Youth legal privacy concerns primary motivation – build into future app enhancement

Data Editing

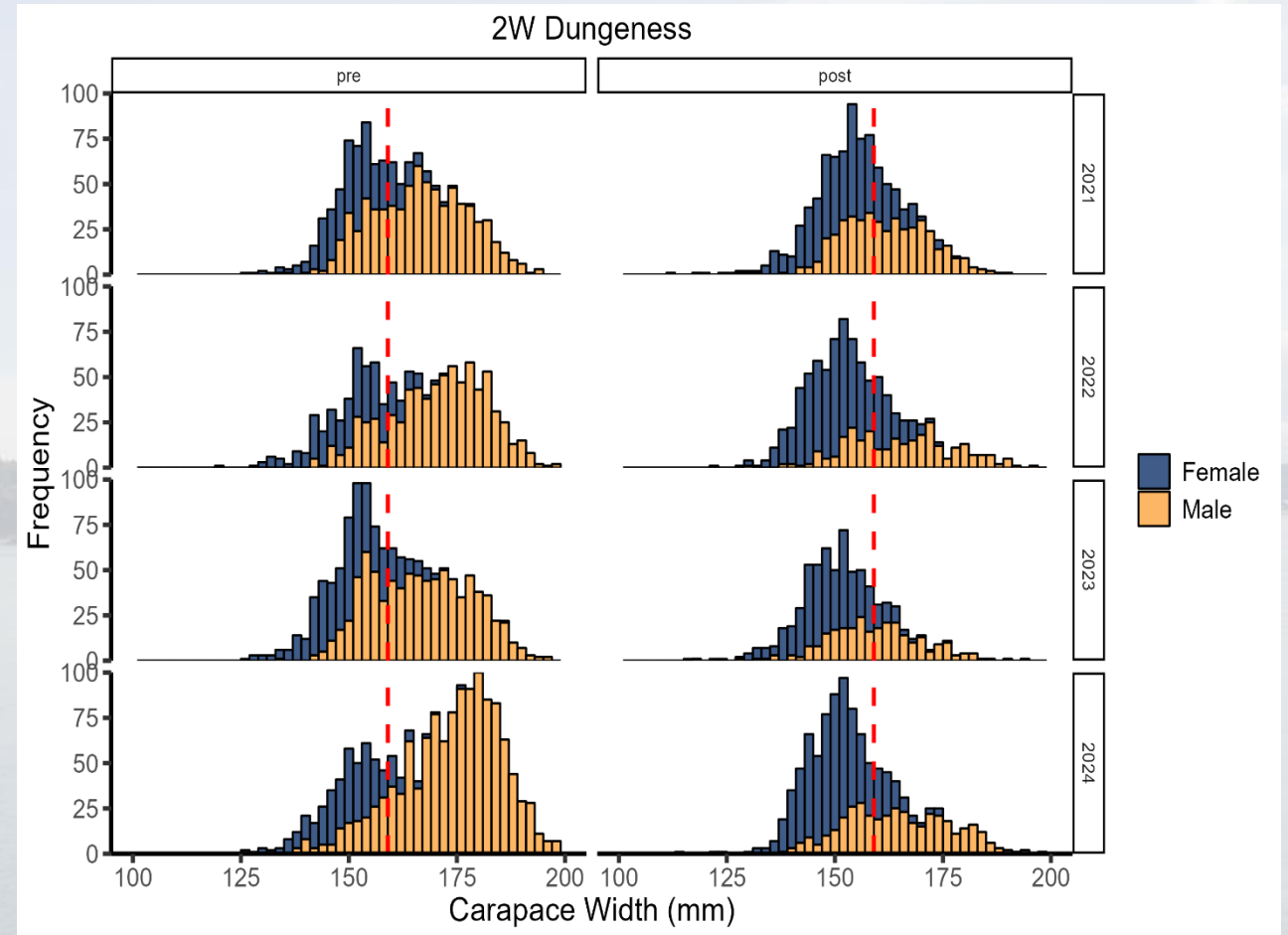
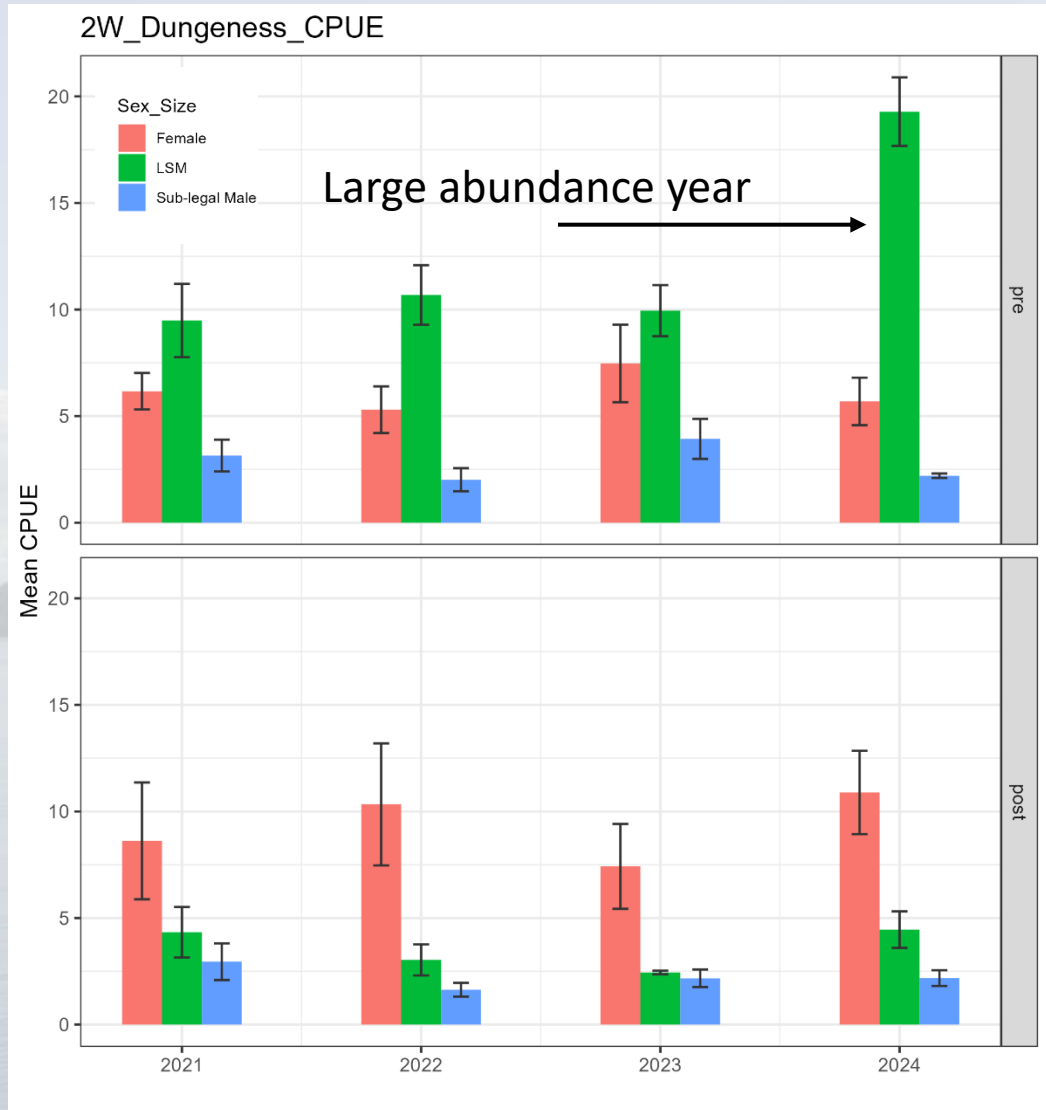
- Once a catch record is saved/submitted, it cannot be edited without contacting WDFW support.
- Currently developing internal process to determine data editing process/rules/guidelines

2024 Post-Season Crab Tests - Schedule

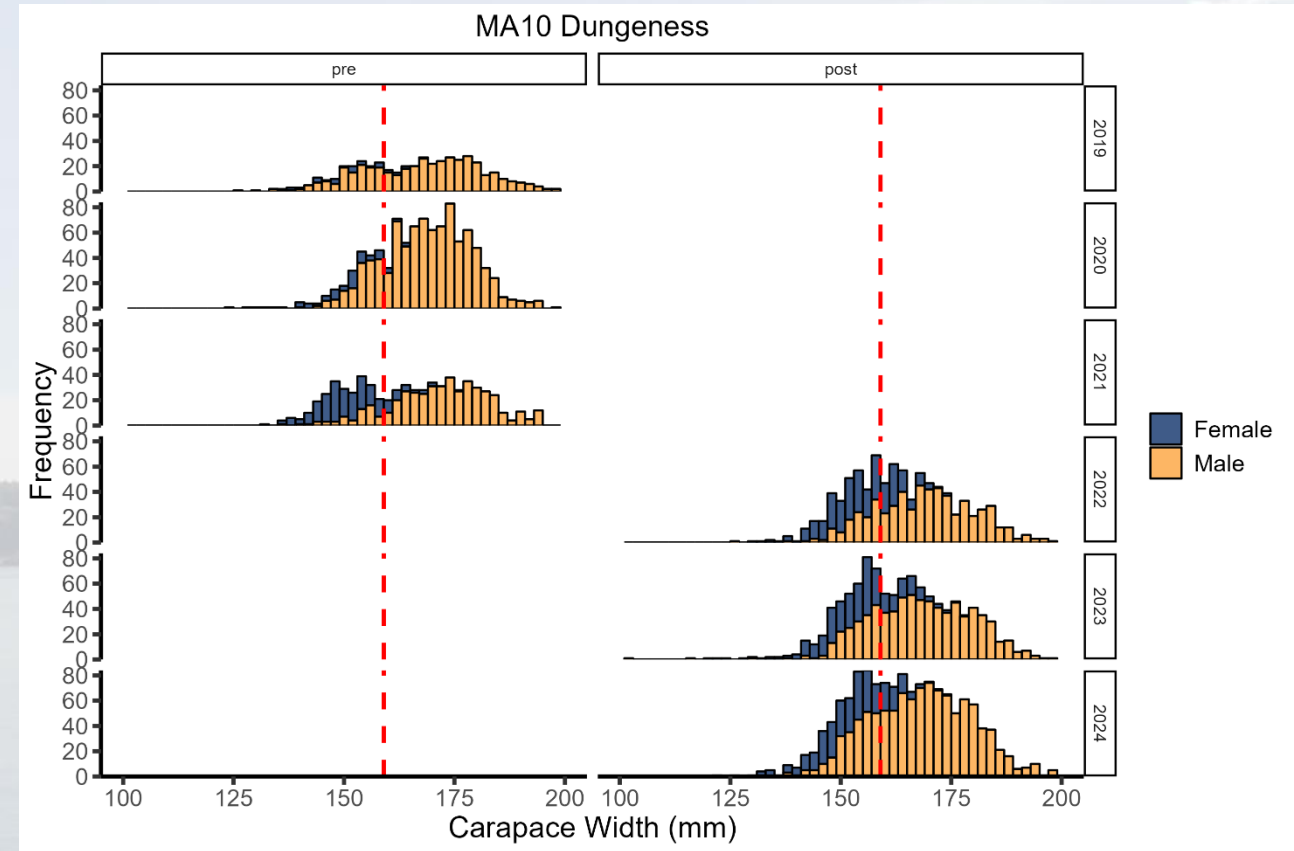
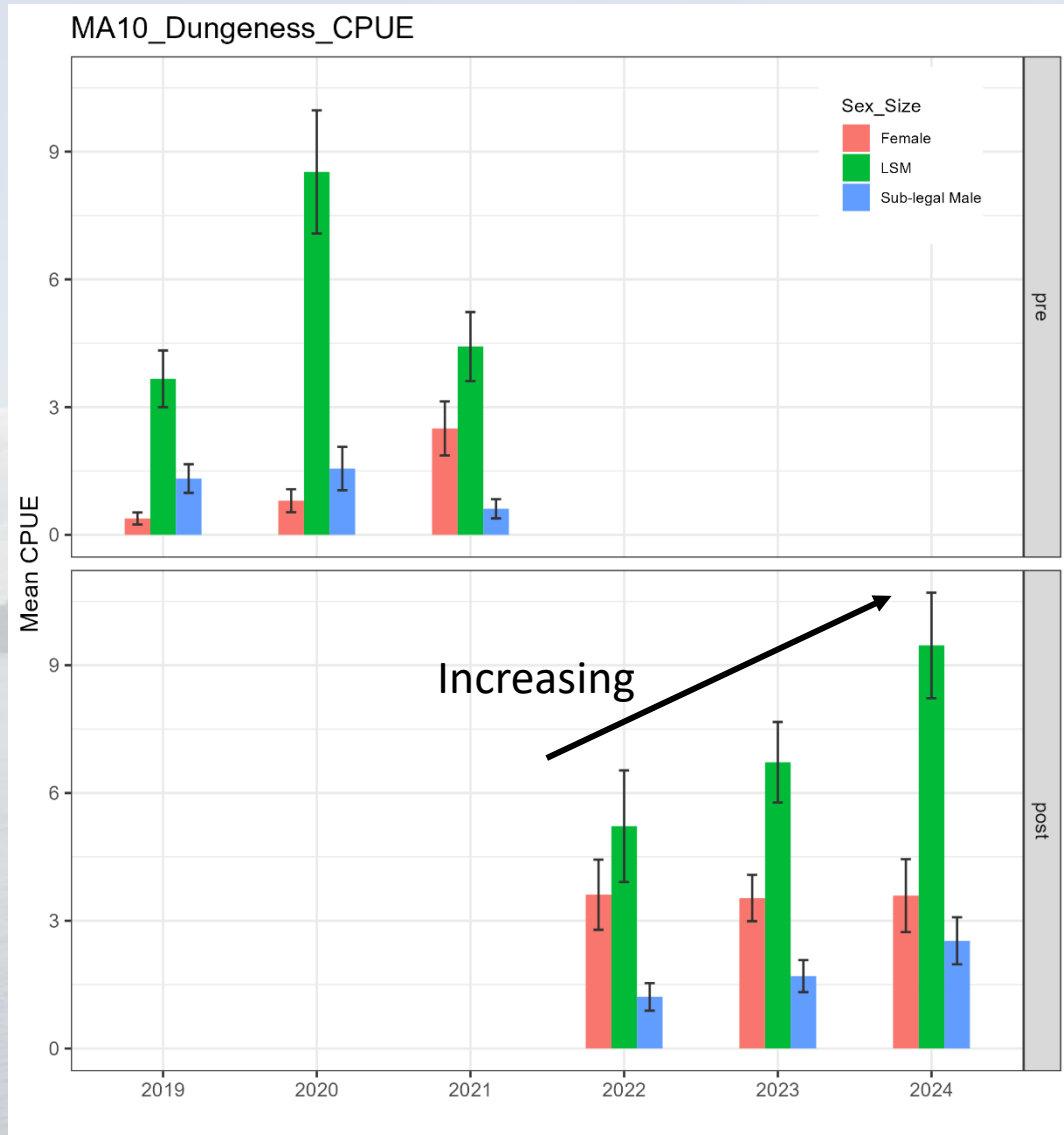
Marine Area(s)	Dates	Notes
12	September 9-13	Completed. Low CPUE of LSM, high CPUE for females.
9	September 16-18	Completed. High CPUE of LSM post summer.
10	September 23-26	Completed. High CPUE of LSM post summer.



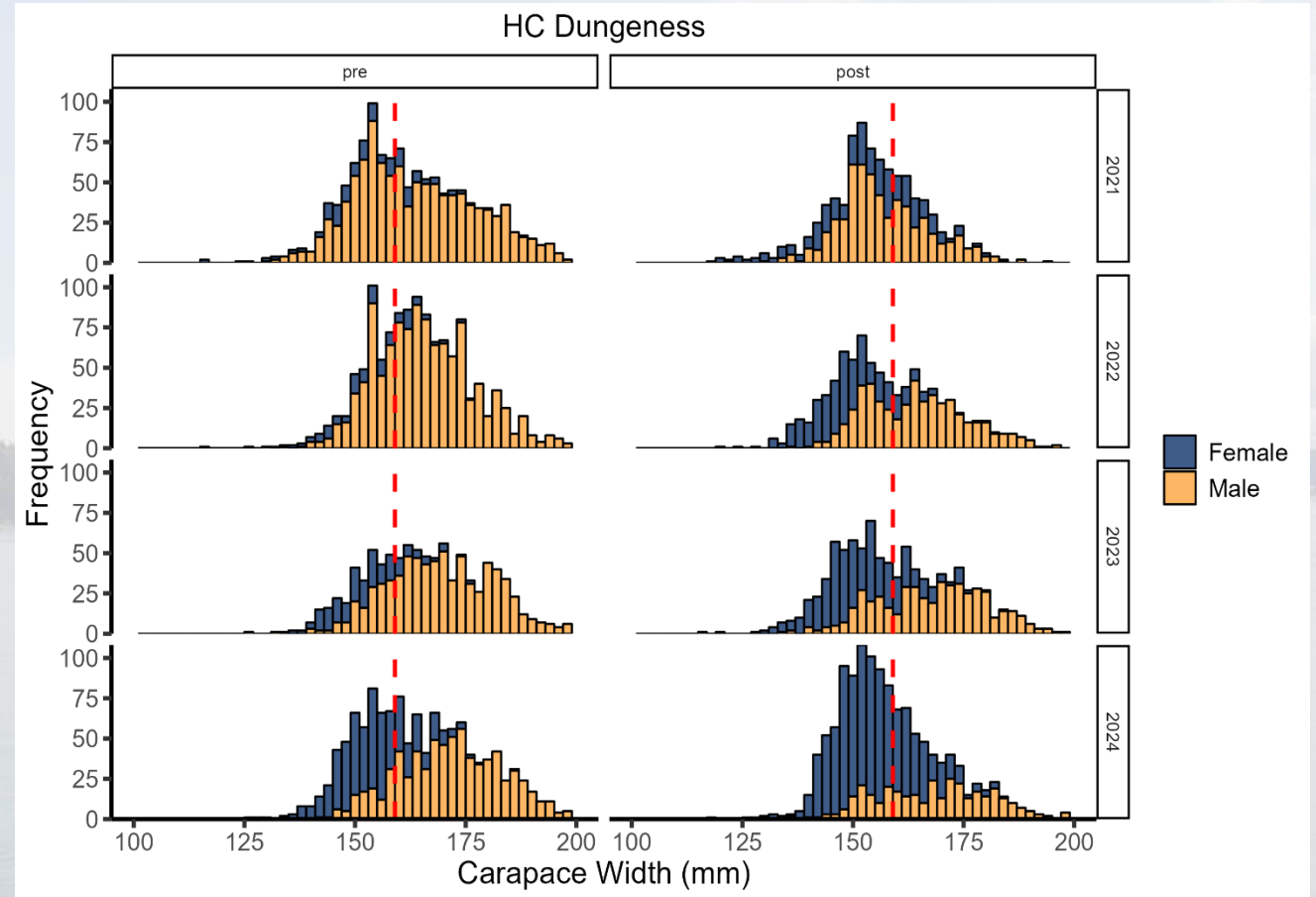
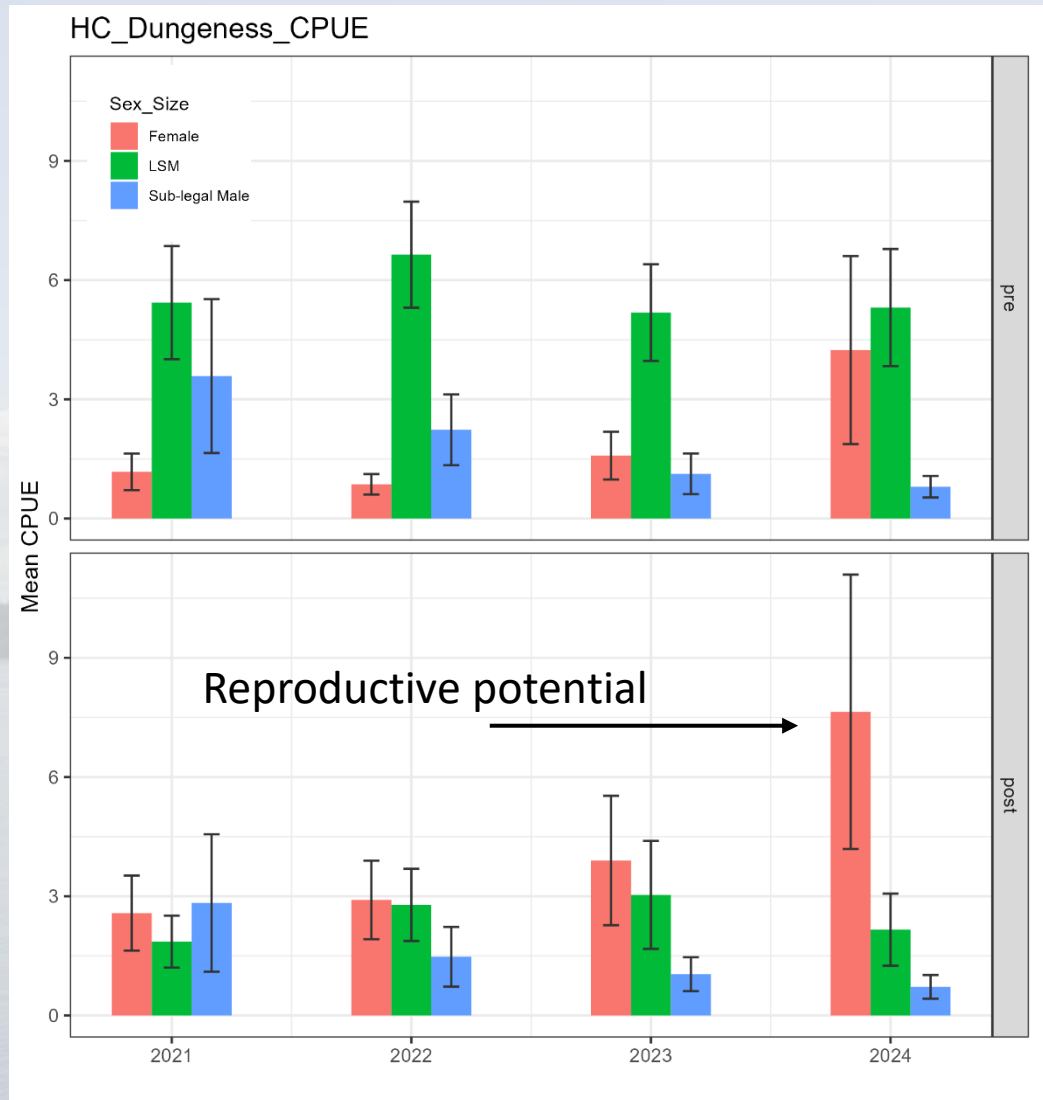
2024 Post-Season Crab Tests - Marine Area 9



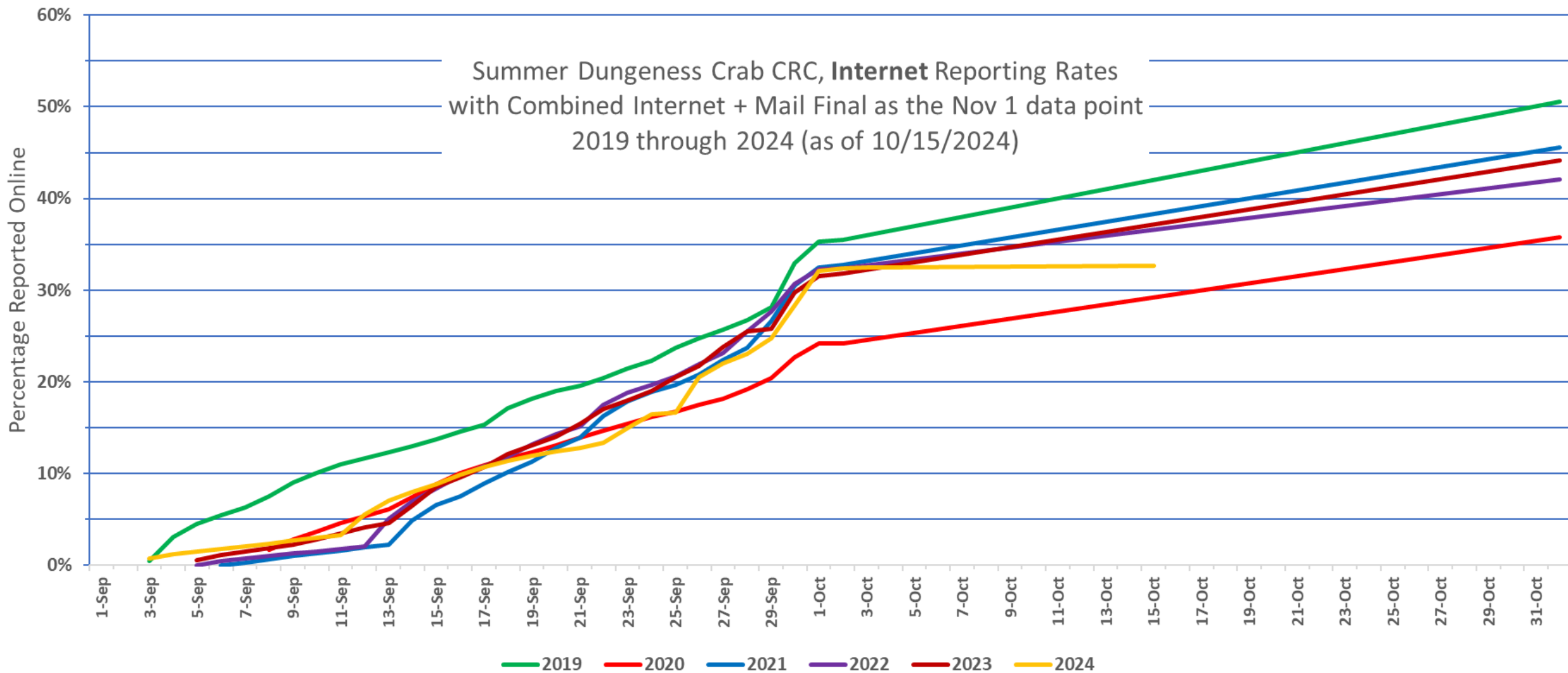
2024 Post-Season Crab Tests - Marine Area 10



2024 Post-Season Crab Tests - Marine Area 12



2024 Crab Season – Summer CRC Reporting in recent years



2024 mailed reports are 13,656 so far. If we hit the 2023 percentage of mailed reports, we will finish with 23,129 by mail and 44.9% reported overall.

2024 Crab Season – Preliminary Estimates

Management Region	Marine Area	Regional State Share	State Summer Recreational Catch	State Summer EUC	State Winter Recreational Catch	State Winter EUC	State Commercial Harvest	State Commercial EUC	Total State Harvest to-Date	State Balance to-Date
1	7	2,300,000	380,045	37,891	67,137	6,694	521,398	5,214	1,018,379	1,281,621
2E	8-1,8-2	1,171,076	574,502	57,278	89,521	8,925	178,223	1,782	910,231	260,845
2W	9	223,451	99,134	9,884	24,705	2,463	74,871	749	211,806	11,645
3-1	6, N	45,000	1,687	168	507	51	9,703	97	12,213	32,787
3-2	6, SE	375,000	101,646	10,134	30,577	3,048	62,146	621	208,173	166,827
3-3	6, W	15,500	2,109	210	634	63	0	0	3,017	12,483
3-4	4, 5	9,500	5,350	533	1,606	160	0	0	7,649	1,851
4	10	63,289	74,998	7,477		0	0	0	82,476	-19,187
5	12	206,195	74,251	7,403	13,884	1,384	0	0	96,923	109,272
6	11	77,269	53,091	5,293		0	0	0	58,384	18,885
7	13	0	232	23	0	0	0	0	255	-255
STATE HARVEST TOTALS		4,486,280	1,367,046	136,294	228,572	22,789	846,341	8,463	2,609,505	

RED indicates areas without a signed plan and agreed-to quota

*Commercial data through 10/14/2024

*Recreational data shown for winter are placeholders at this time

** Subject to change as we await final recreational estimates

2024 Crab Topics – Creel Data

Was anyone interviewed by our creel staff??

- 1) Trip information** (area of harvest, # of pots fished, etc.)
- 2) Catch information** (# of Dungeness and red rock in possession, weight of catch)
- 3) Compliance information** (CRC recording, possession of female, sub-legal, soft-shell).

2024 Sampling Stats

38 sites surveyed (mostly boat ramps)

318 individual creels conducted

4,712 boats contacted (2023: 1,536)

8,516 CRCs checked for recording compliance
(2023: 2,305)

18,704 Dungeness crab sampled (2023: 7,096)

1,719 Red rock crab sampled (2023: 1,426)



2024 Crab Topics – MA 8 Creel Data

Sampling focused on MA 8-1 and 8-2

MA 8-1 catch stats

904 boats contacted

9.5 Dungeness *per* boat

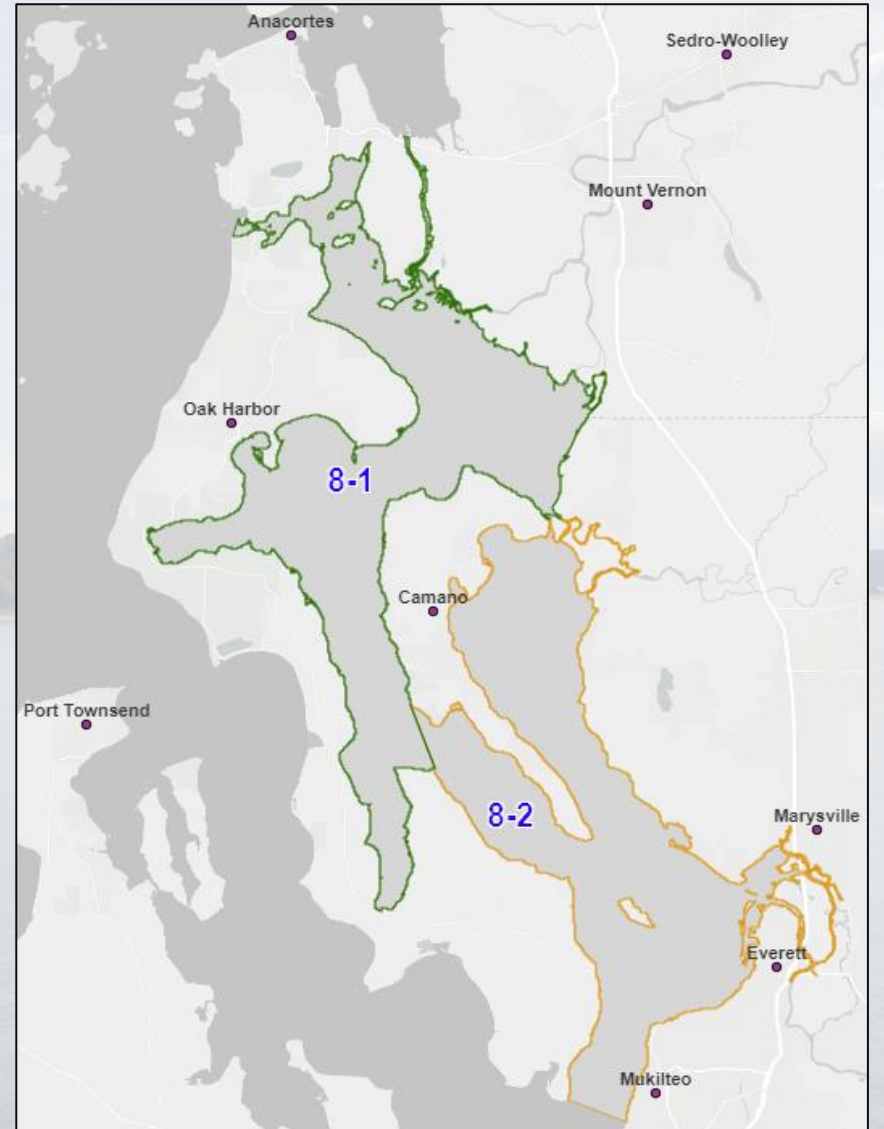
3.3 Dungeness *per* crabber (per boat)

1.88 lbs. per Dungeness crab

Compliance

14% of Dungeness not recorded on CRCs

Few **female**, **sub-legal**, and **soft-shell** crab observed.



2024 Crab Topics – MA 8 Creel Data

Sampling focused on MA 8-1 and 8-2

MA 8-2 catch stats

2,330 boats contacted

7.1 Dungeness *per* boat

2.7 Dungeness *per* crabber (per boat)

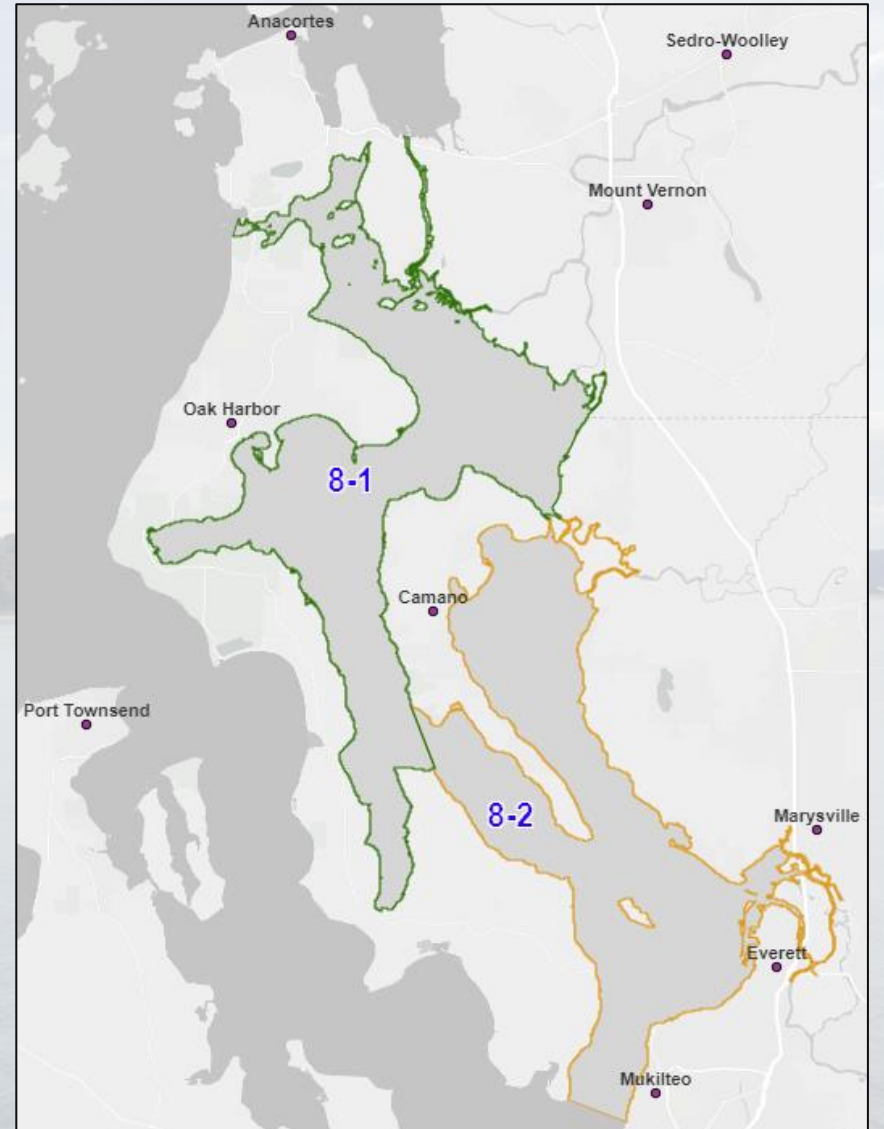
1.75 lbs. per Dungeness crab

Compliance

17% of Dungeness not recorded on CRCs

Few **female** and **sub-legal**.

Soft-shell crab were prevalent (10.5% of total catch).



2024 Crab Topics – MA 8 Creel Data

Sampling focused on MA 8-1 and 8-2

MA 8-2 catch stats

2,330 boats contacted

7.1 Dungeness

2.7 Dungeness

1.75 lbs.

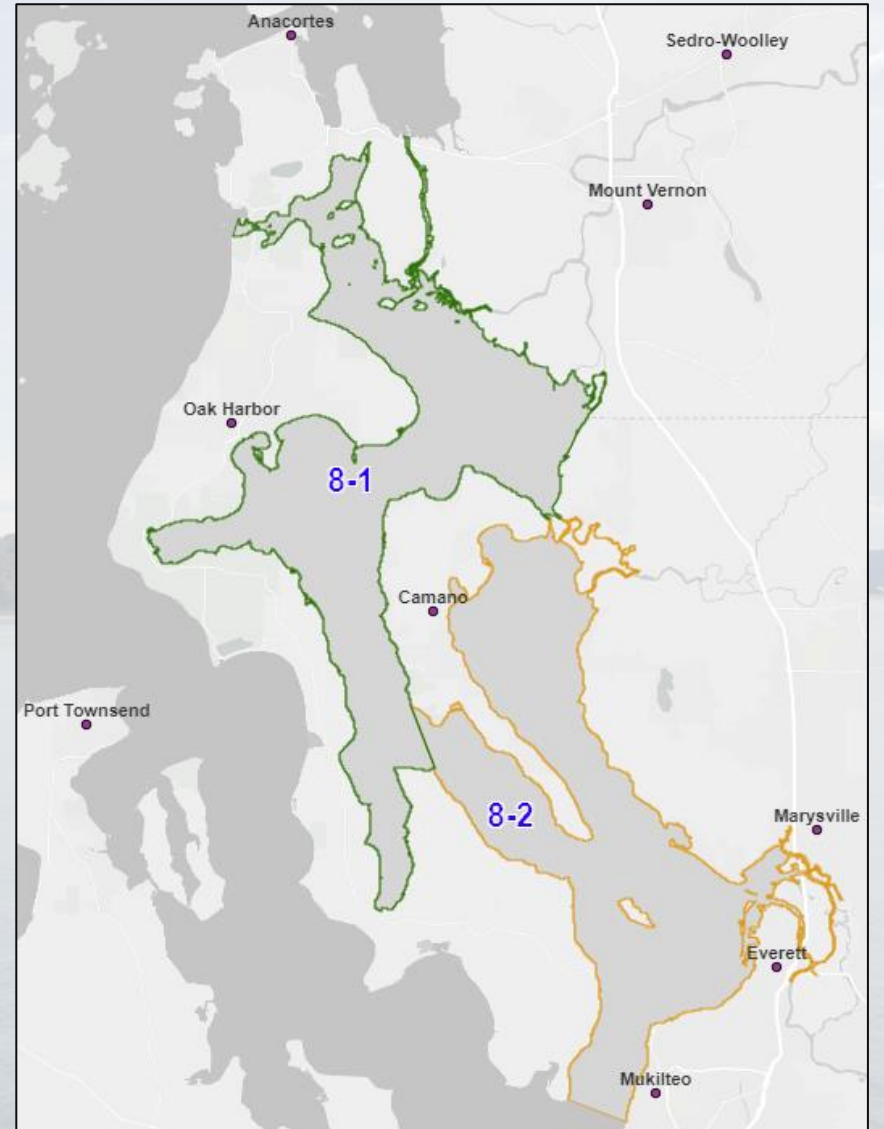
Compliance

17% of D

**Better recreational success,
larger crab, and better
overall compliance in 8-1
than 8-2**

Few female and sub-legal.

Soft-shell crab were prevalent (10.5% of total catch).



2024 Crab Topics – MA 7N Creel Data

MA 7 North catch stats

65 boats contacted

8.4 Dungeness *per* boat

3.3 Dungeness *per* crabber (per boat)

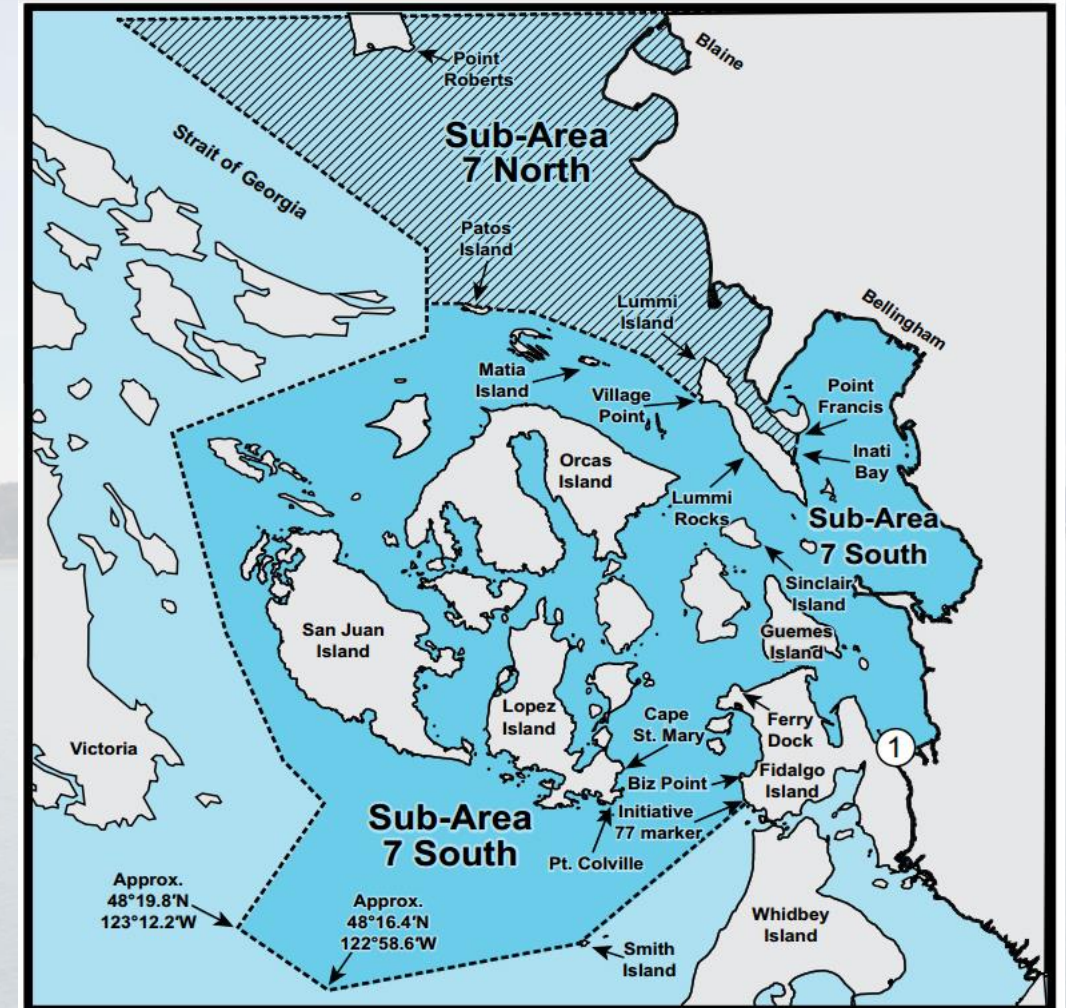
1.75 lbs. per Dungeness crab

Compliance

17% of Dungeness not recorded on CRCs

Very few female, sub-legal, and soft-shell crab.

Good recreational success, near average size crab, recording compliance is poor.



2024 Crab Topics – MA 7S Creel Data

MA 7 South catch stats

65 boats contacted

12.0 Dungeness *per* boat

3.9 Dungeness *per* crabber (per boat)

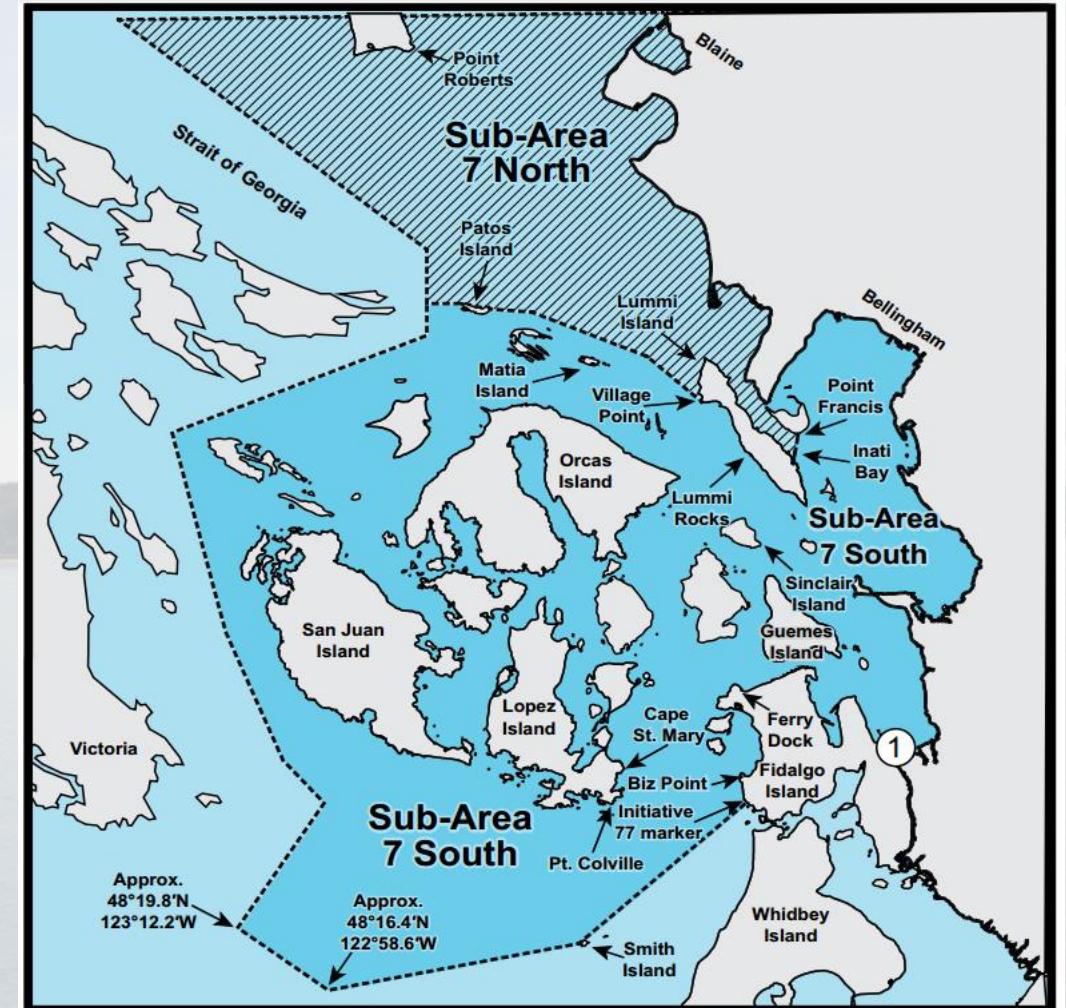
1.75 lbs. per Dungeness crab

Compliance

22% of Dungeness not recorded on CRCs

Very few female, sub-legal, and soft-shell crab.

Great recreational success, near average size crab, recording compliance is very poor.



2024 Crab Topics – MA 6 Creel Data

MA 6 catch stats

418 boats contacted

8.7 Dungeness *per* boat

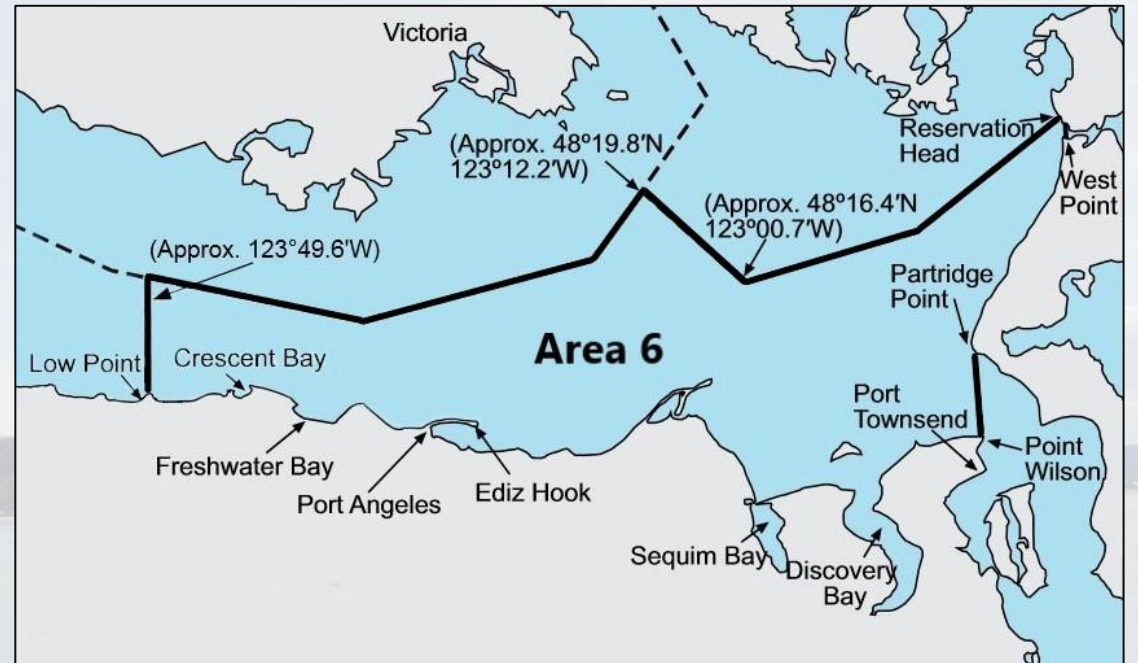
3.1 Dungeness *per* crabber (per boat)

1.93 lbs. per Dungeness crab

Compliance

10% of Dungeness not recorded on CRCs

Very few female, sub-legal, and soft-shell crab.



Great recreational success, large crab, recording compliance is better here than other areas.

2024 Crab Topics – MA 10 Creel Data

MA 10 catch stats

142 boats contacted

6.2 Dungeness *per* boat (fewer crabbers per boat)

3.0 Dungeness *per* crabber (per boat)

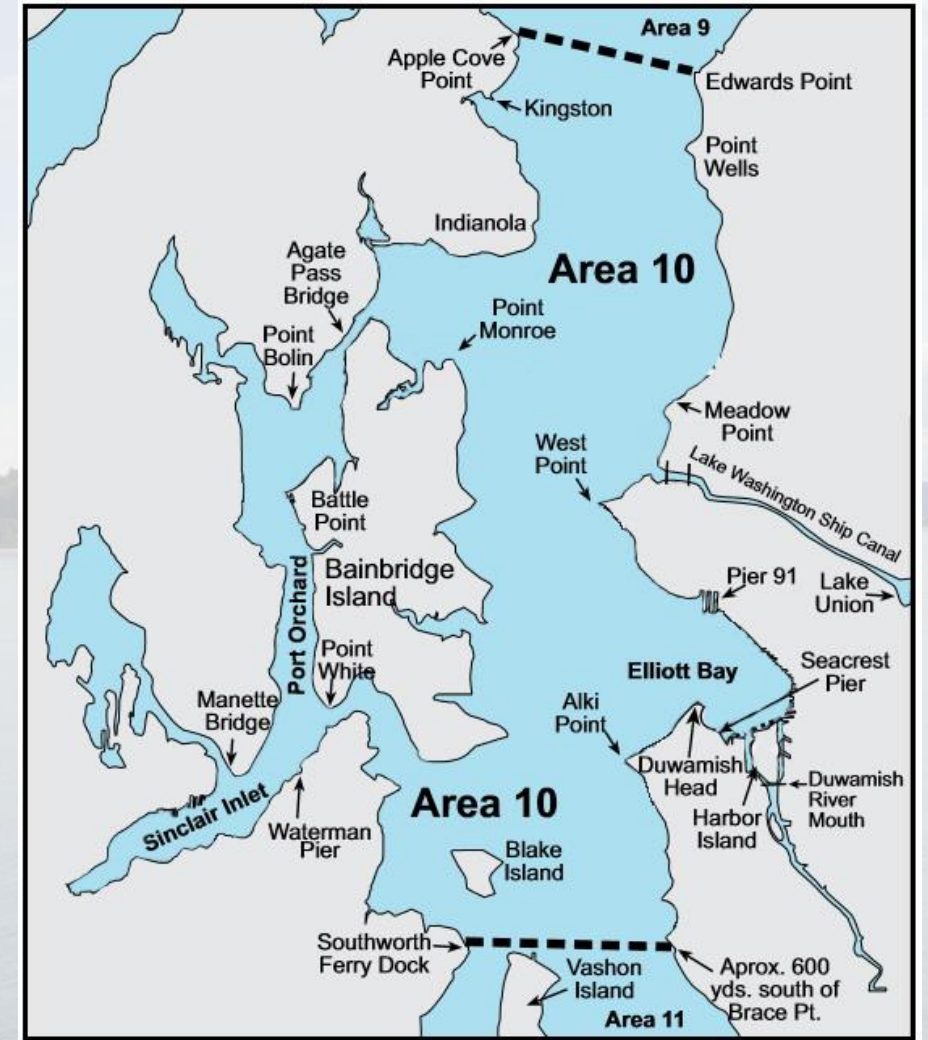
1.8 lbs. per Dungeness crab

Compliance

19% of Dungeness not recorded on CRCs

Very few female, sub-legal, and soft-shell crab.

**Good recreational success,
average size crab, recording
compliance is poor.**



2024 Crab Topics – MA 11 Creel Data

MA 11 catch stats

326 boats contacted

5.0 Dungeness *per* boat (fewer crabbers per boat)

1.9 Dungeness *per* crabber (per boat)

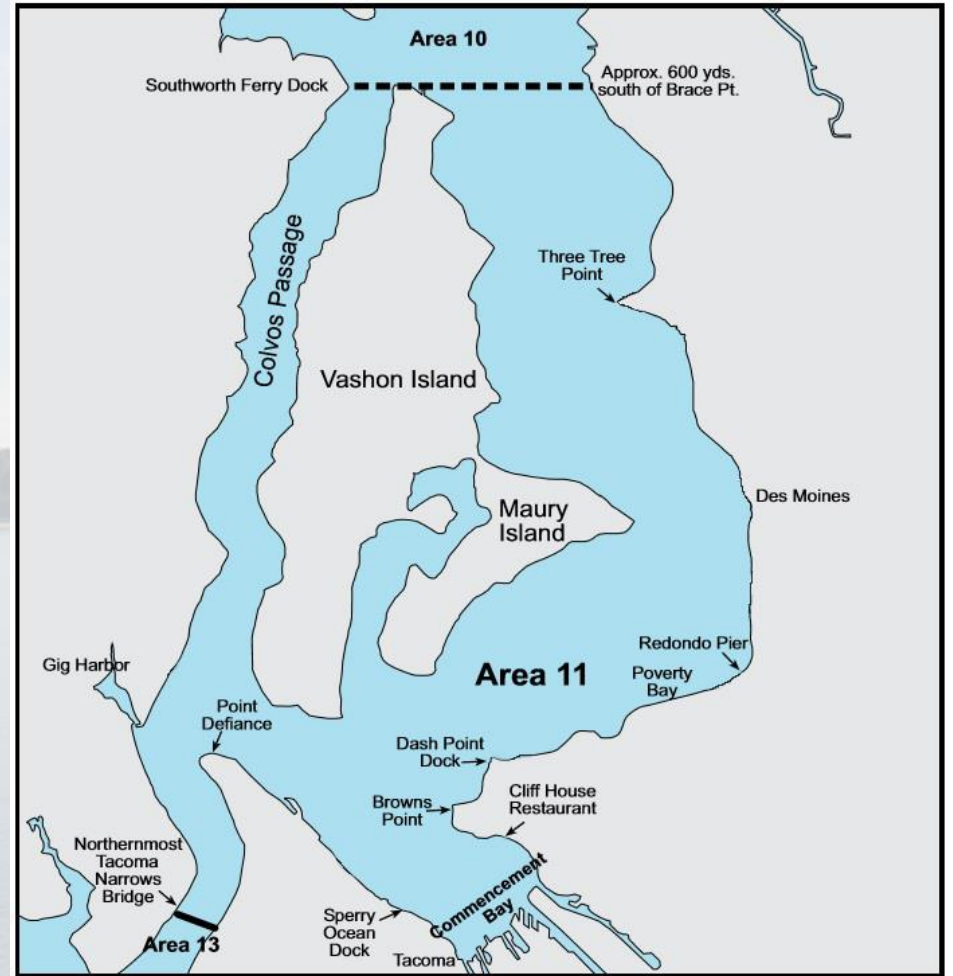
2.0 lbs. per Dungeness crab

Compliance

14% of Dungeness not recorded on CRCs

Few female, sub-legal, and soft-shell crab.

**Very poor recreational success,
large crab, recording compliance
needs improvement.**



2024 Crab Topics – Winter seasons MA 10 & 11

- **MA 10:** Initial State share = 63,289 lbs

Summer harvest (17 days) = 82,476 lbs

Remaining = **19,187 lbs over share**

If quota is increased by agreement, the likelihood is that it will at best offset the current State overage.

- **MA 11:** Initial State share = 77,269 lbs

Summer harvest (17 days) = 58,384 lbs

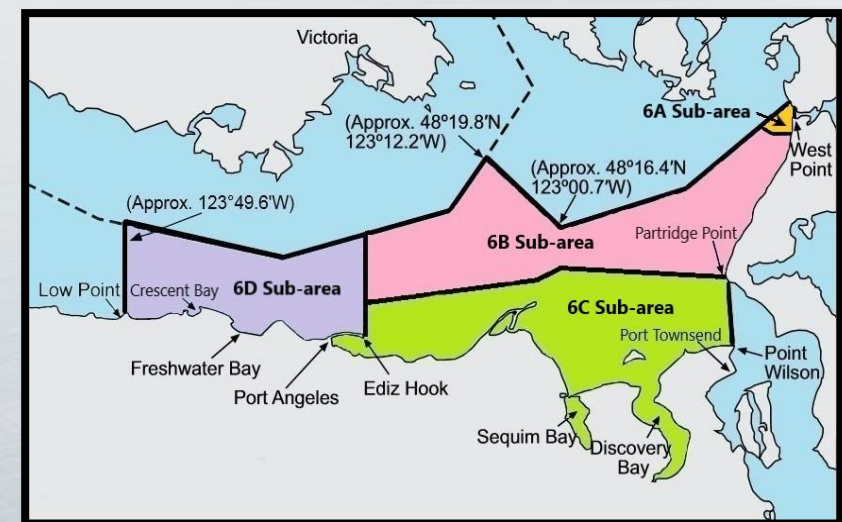
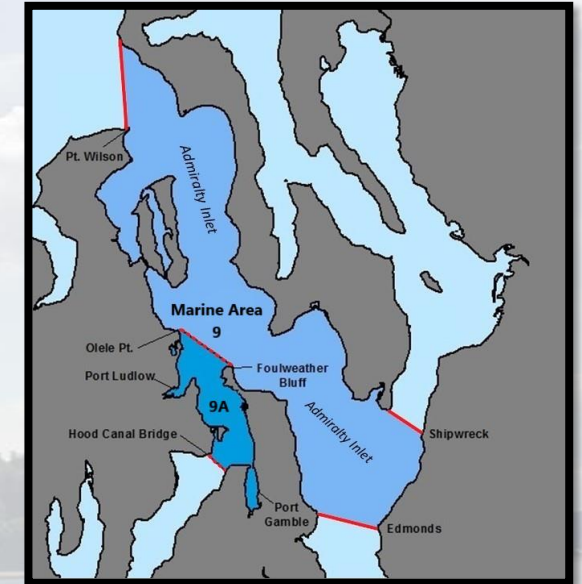
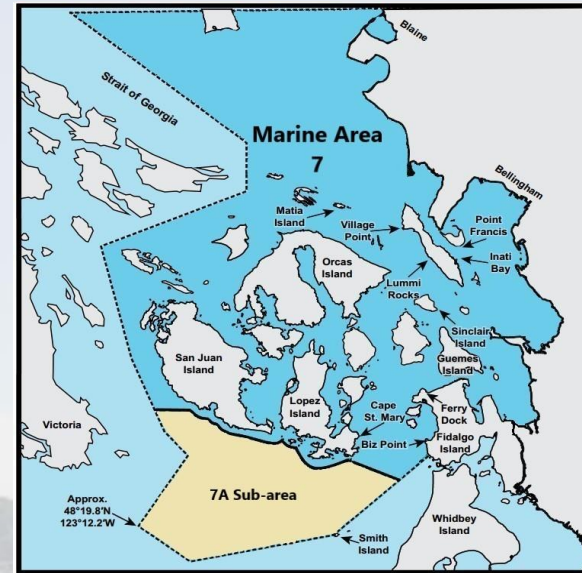
Remaining = 18,435 lbs

Tribes currently 13,167 lbs over their share. Some limited winter season is warranted given current remainder. It could be longer if agreement to increase the initial quota is reached.

The last time winter seasons were offered in these areas was in 2022. Both were open from 11/15 through 12/31. Estimated harvests were 11,772 lbs (MA 10) and 10,041 lbs (MA 11)

2024 Crab Topics – Online Catch Survey

- **Survey Purpose:** Determine the proportion of Dungeness crabs harvested in Marine Areas 6, 7, and 9 that come from several smaller harvest areas.
 - These sub-areas have different quotas used for management.
 - Survey conducted in 2023 for MA6 and MA9.
- **Season:** Survey of recreational catch from the 2024 summer crab season.
- **Who will receive the survey:** Anyone that reported catch from their 2024 summer CRC in Areas 6, 7, or 9.
- **Survey Format:** Online form sent to each crabber's email (only those that reported catch from their summer 2024 CRC).
- **Timeline:** Targeting mid-November.



2024 Crab Topics – MA9 Catch Survey

Background

9A (25C) portion of Marine Area 9 is part of crab management Region 5. All recreational catch from the 9A portion is added to Marine Area 12 (Region 5).

2011

-Phone survey: 28% of rec catch in MA9 comes from 9A.

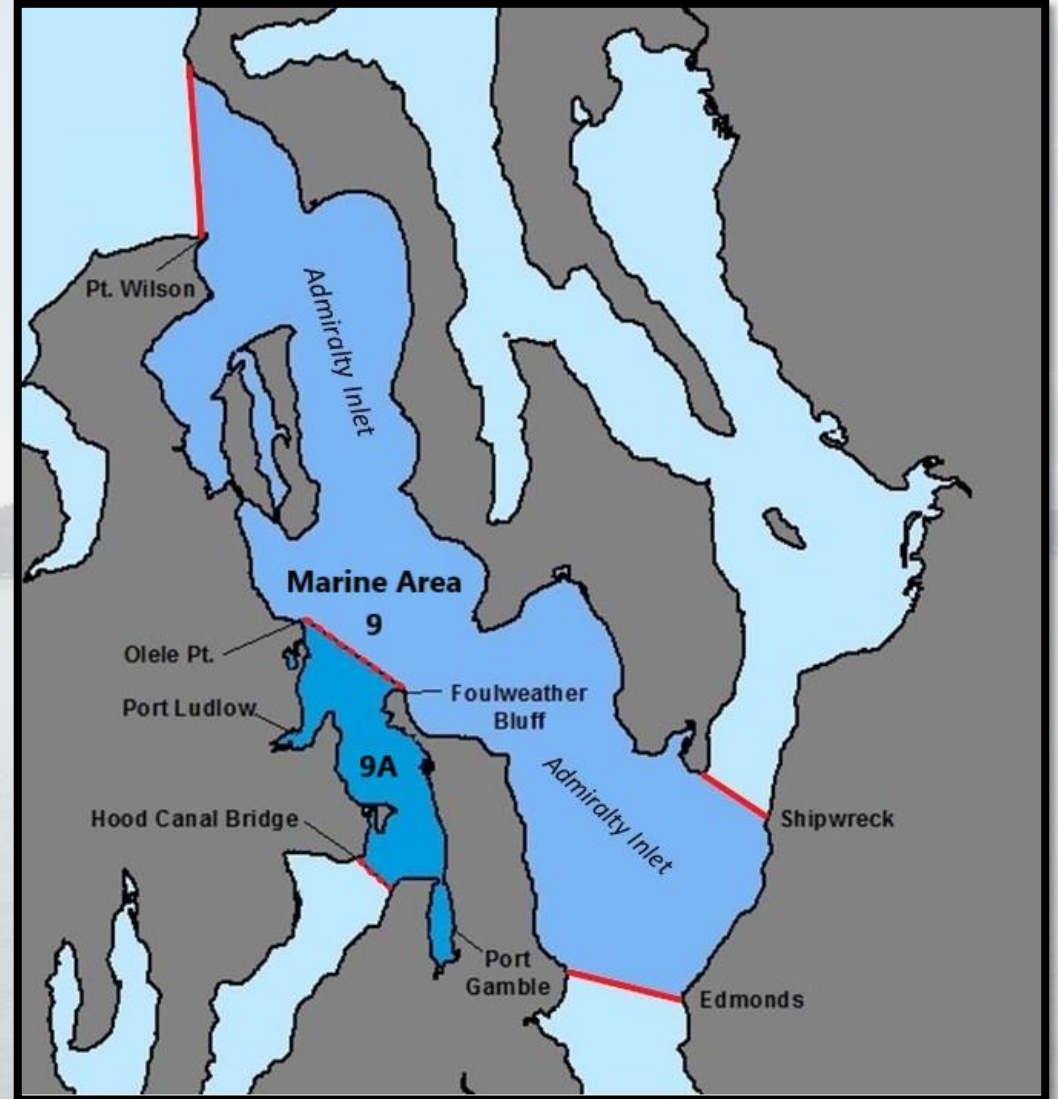
2023

-Online survey: 18% of rec catch in MA9 comes from 9A.

2024

-Planning to repeat 2023 survey (mid-November)

- 1) Number of total crab caught in MA9?
- 2) How many came from the 9A sub-area (see map)?



2024 Crab Topics – MA6 Catch Survey

Background

MA6 is divided into several management regions: **3-1 (6B)**, **3-2 (6c)**, and **3-3 (6D)**, each with different quotas. Total recreational catch in MA6 is divided into these sub-areas based on estimated catch proportions.

2023 (online survey)

6A (Region 1): Not included in survey

6B: 3-1: 12.8%

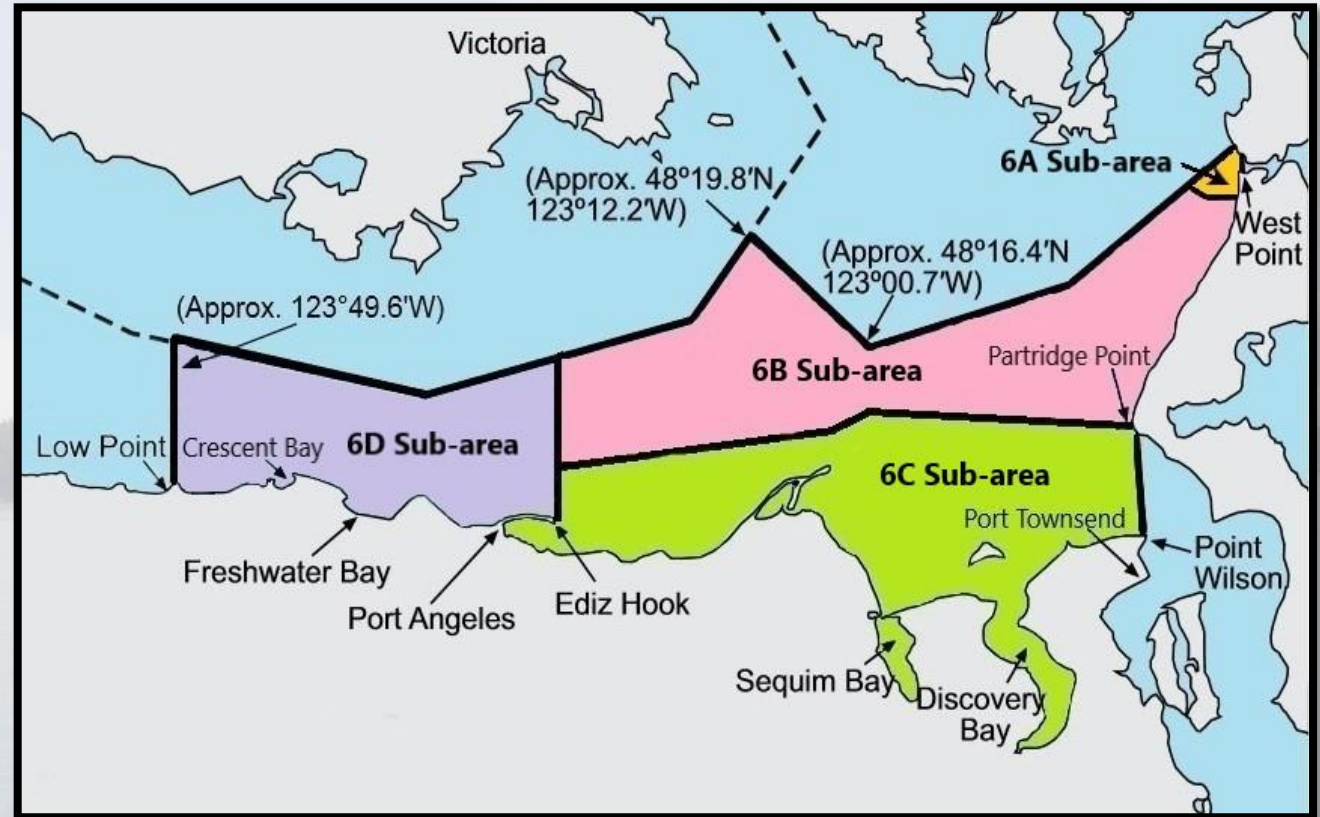
6C: 3-2: 84.8%

6D: 3-3: 2.5%

2024

Planning to repeat 2023 survey (mid-November)

- 1) Number of total crab caught in MA6?
- 2) How many came from each sub-area (see map)?



2024 Crab Topics – MA7 Catch Survey

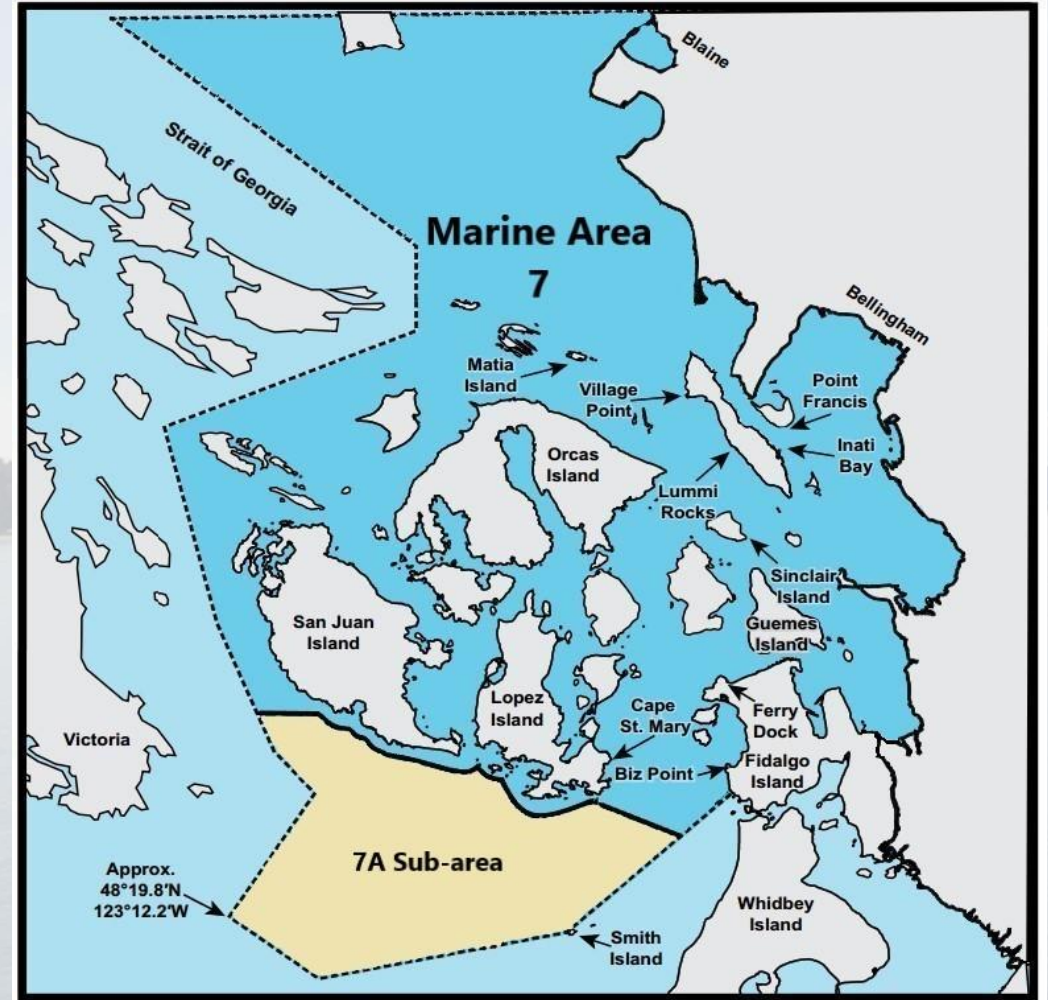
Background

The 7A portion of MA7 is part of crab management Region 3 (3-1). New interest in estimating the portion of recreational catch in Marine Area 7 that comes from the 7A sub-area.

2024

-Planning to conduct survey for first time

- 1) Number of total crab caught in MA7?
- 2) How many came from the 7A sub-area (see map)?



2024 Crab Topics – South Sound status

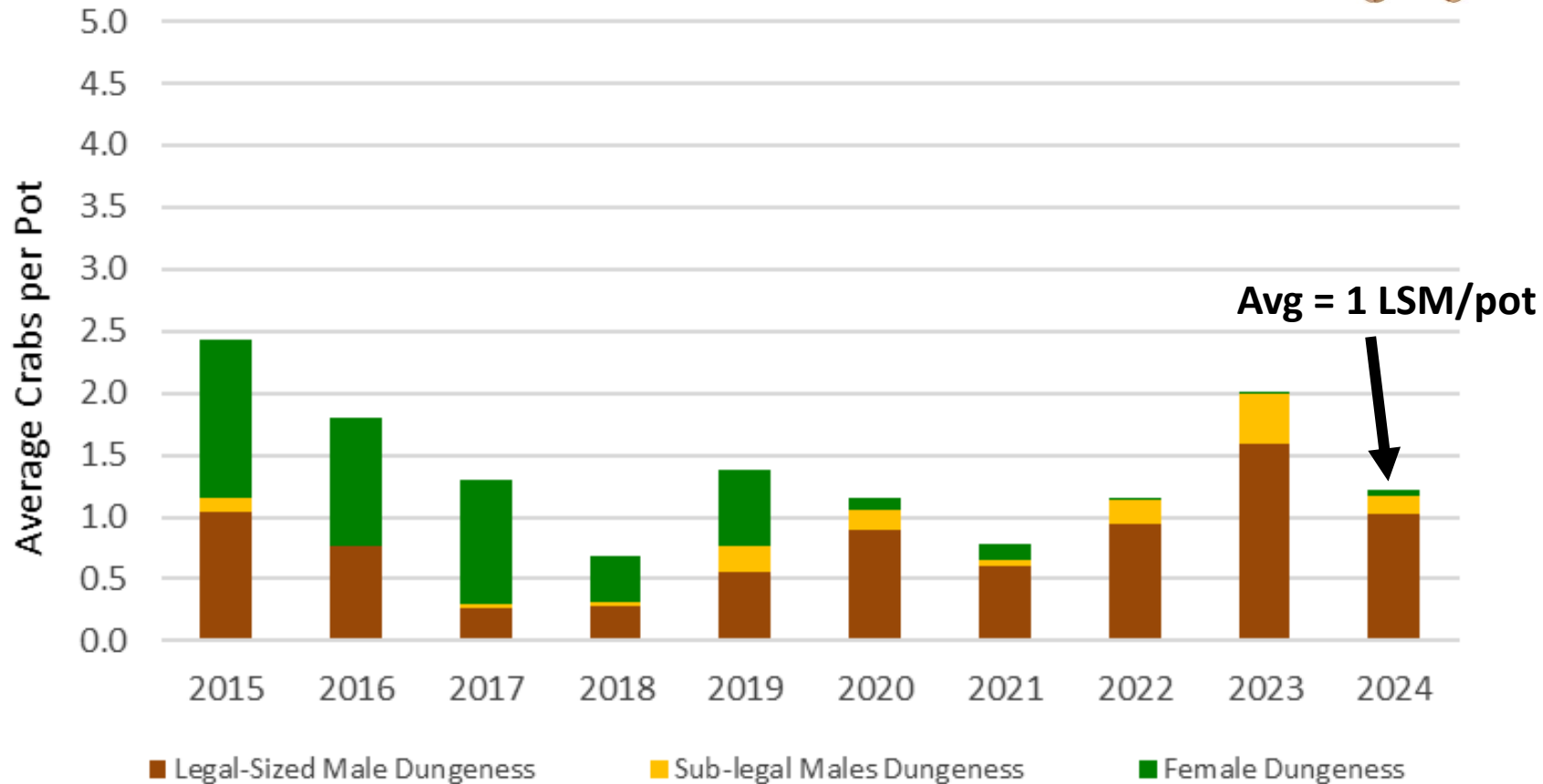


- **WDFW samples this area**
- **8 Index Sites**
- **Depths of 50 ft, 100 ft, 150 ft**
- **Escape rings are closed**
- **Fisheries closed 2018 - Now**

- **2015-2017 = May samples**
- **2018-2023 = Feb samples**
- **2024 = March sample**

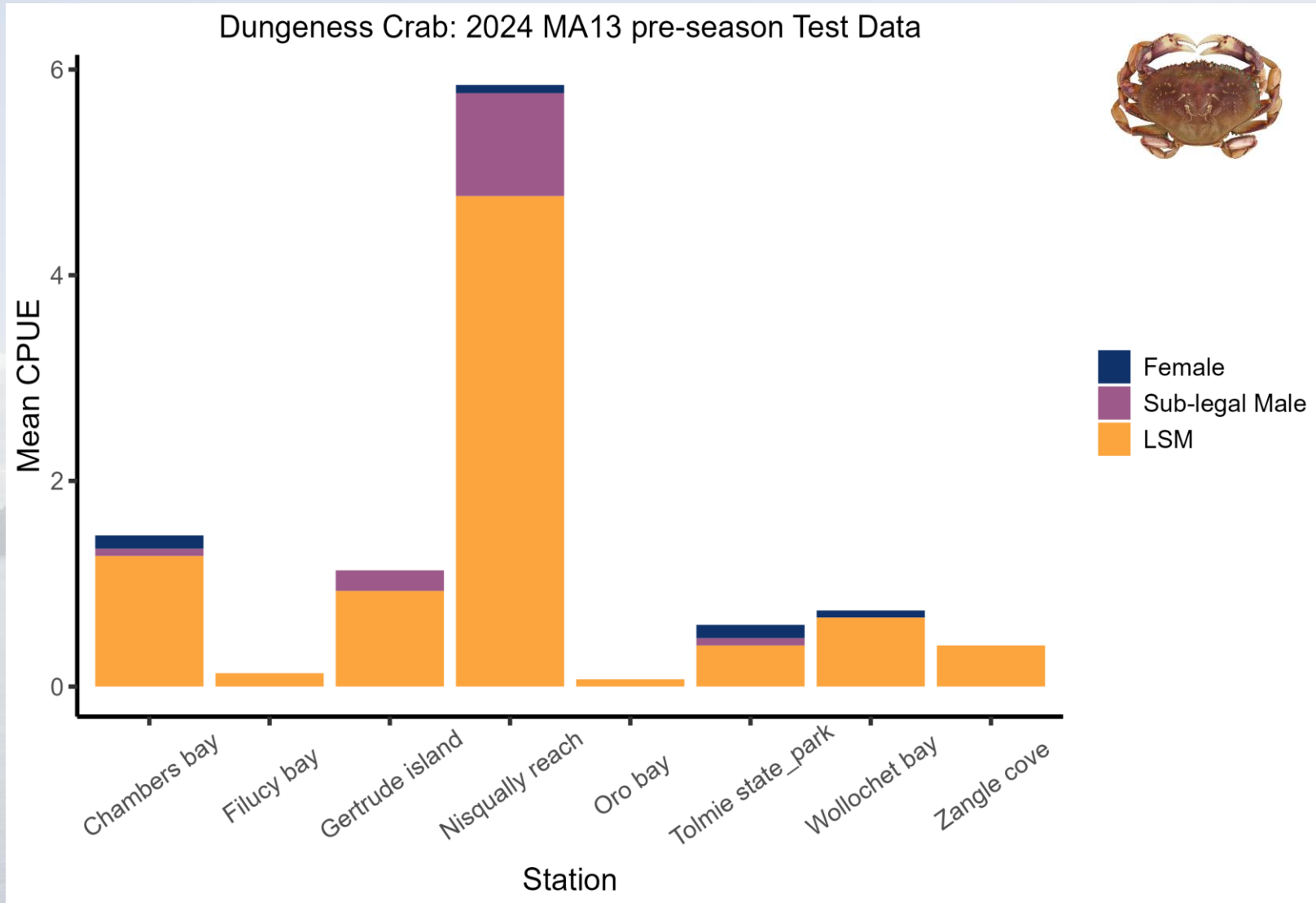
2024 Crab Topics – South Sound status

Dungeness Crab, Catch Per Standard Pot
Marine Area 13 - 2015 through 2024



Test Fishery data shows
a continued lack of LSM
Dungeness crab

2024 Crab Topics – South Sound status

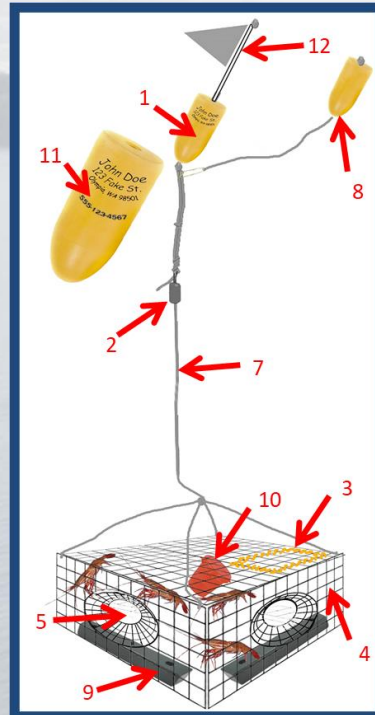
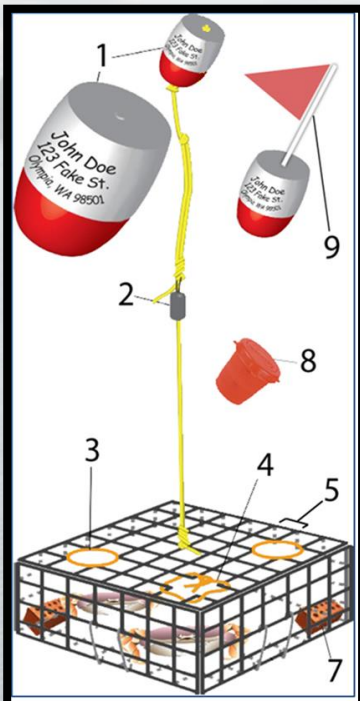


Most LSM and sub-legal abundance in MA 13 found at Nisqually station

2024 Crab Topics – Derelict and closed season gear



- 52 boat based gear sweeps through September
- 29 Enforcement staff participated
- 6 shellfish staff participated
- Recovered traps (~1,100) less than 2023 (1,283)
- Proper marking of buoys continues to get worse



Pacific Northwest Crab Research Group

OUR MISSION

To conduct and support collaborative research on crab populations in the Pacific Northwest

OUR STRATEGY





Research Spotlight: Larval Crab Monitoring

Objectives

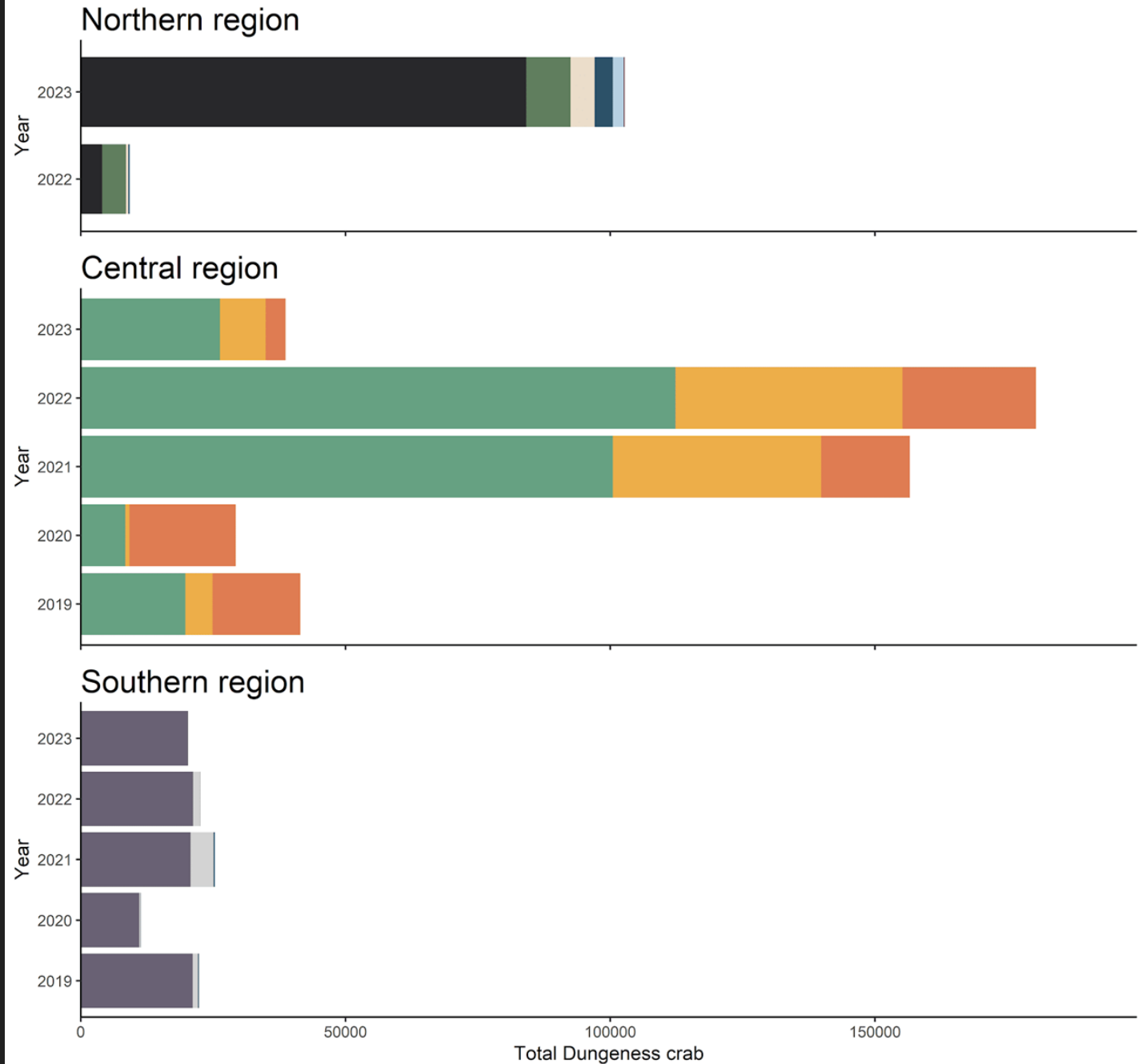
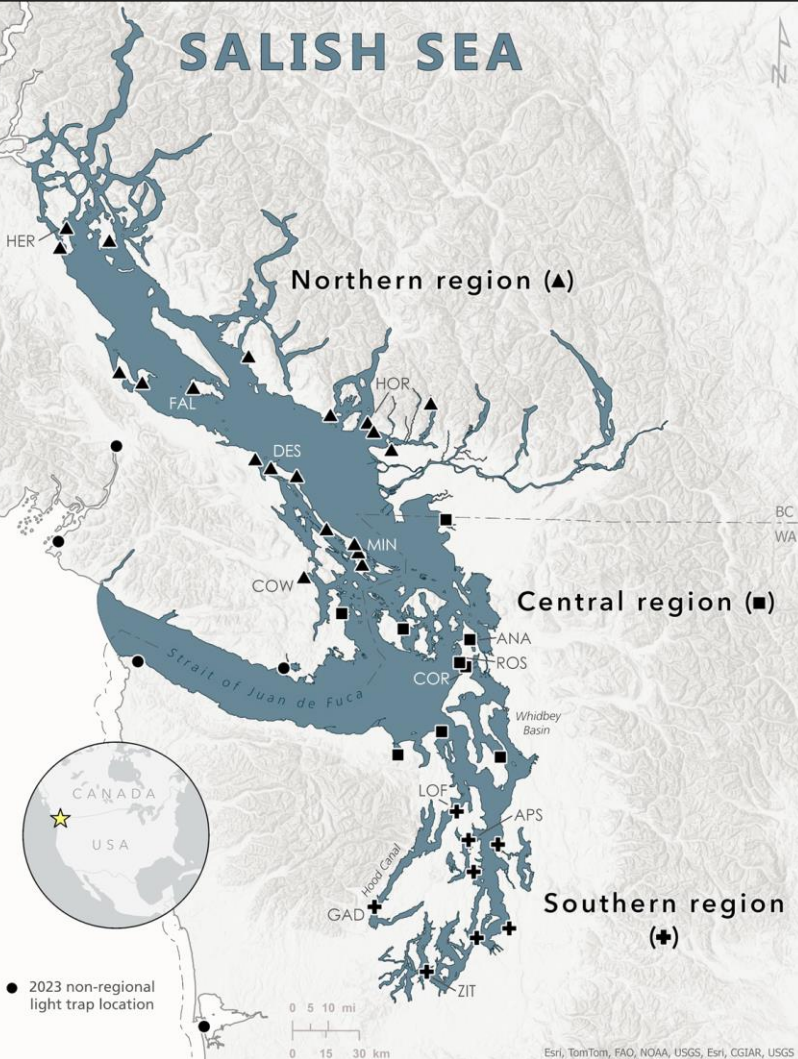
To better understand Dungeness crab recruitment patterns and ocean conditions, population connectivity, and *correlations between larval and adult abundance*.

Data Collection Period (to date)

2019-2023



Larval Dungeness crab abundance across years and sites/regions



Additional Ongoing Work

- Holds annual ‘Crab Research Symposium’ for researchers to connect and to share on-going research in the region
- Maintains active website (www.pnwcrab.com) as a resource for folks interested in learning more about Dungeness crab biology, ecology, and research efforts. *You can sign up to receive blog posts to your email on the ‘Recent Highlights’ page.*
- Analyzing genetics samples from larvae and adults caught across all Puget Sound management regions in 2023 - looking to assess population connectivity and population differentiation.
- Supporting the expansion light trapping to the outer Washington coast (WDFW, Makah, Quinault, Shoalwater)
- Supporting the inclusion of Dungeness crab in the development of benthic invertebrate Vital Sign indicators, using WDFW trawl data

Misc. Topics

Advisor feedback, comments, and ideas



Mark Yuasa and some good size Dungeness crab



AJ Porter and his daughters Lane and Paige

Adjourn Thank you!

