#### **Recreational Crab and Shrimp Advisory Board Meeting**





March 11, 2021

Aaron Dufault, Katelyn Bosley, Don Velasquez, Daniel Sund





Aaron Dufault
Puget Sound Shellfish Manager
(360) 584-6195
aaron.dufault@dfw.wa.gov



Daniel Sund Commercial Crustacean Biologist (360) 302-3030 ext. 321 Daniel.Sund@dfw.wa.gov



Katelyn Bosley
Puget Sound Crustacean Lead
(360) 302-3030 ext. 319
katelyn.bosley@dfw.wa.gov



Don Velasquez Recreational Crustacean Biologist (425) 775-1311 ext. 112 Donald.Velasquez@dfw.wa.gov



## **WELCOME!**

#### **Recreational Crab and Shrimp Advisory Committee**

'The RCSAC is a volunteer group that provides a forum for discussion of issues relevant to the recreational crab and shrimp fisheries within Puget Sound. The purpose of the RCSAC is to develop recommendations to help WDFW achieve the overall mission and management objectives for the Puget Sound crab and shrimp fisheries.'



# **Introductions**

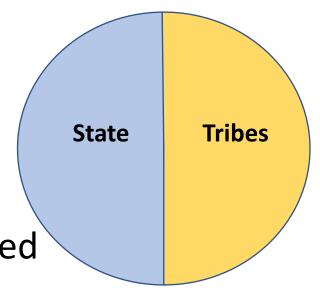
- 1) Where are you from?
- 2) Briefly share one memorable crabbing or shrimping experience in Puget Sound
- 3) One reason you wanted to be a member of the RCSAC



# **Co-Management – Rafeedie Decision**

## **State/Tribal Co-Management**

- US v. Washington, Rafeedie decision (1994)
  - 50/50 sharing of shellfish resources
  - Shellfish Implementation Plan (SIP) last revised in 2002
    - "...provides a framework, principles, and course of action for effective co-management of shellfish resources..."



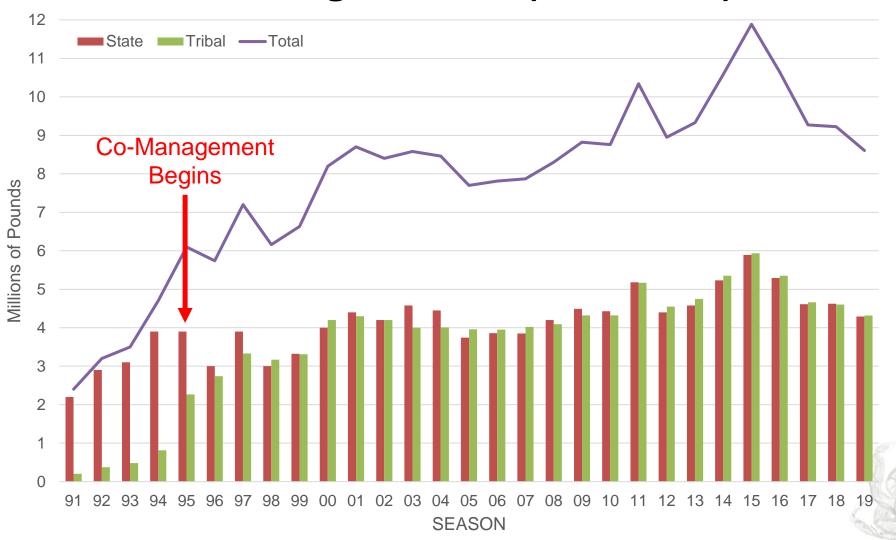


# Co-Management Cont.

#### **State/Tribal Co-Management**

- SIP Cont.
  - Management Plans SIP requires state and tribal comanagers to create management plans – "...opportunity to harvest their respective shares in an orderly manner, consistent with resource protection"
  - Opening a Fishery Without Agreement section 4.6
    - Requires consistent information to be shared to support their regulation
    - Can object (SIP section 4.7) on <u>allocation</u> or <u>conservation</u> basis

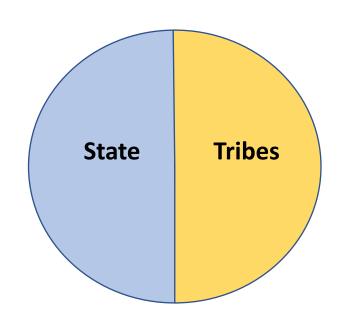
# State and Tribal Dungeness Crab Harvests, from Puget Sound (1991-2019)



# Fish & Wildlife Commission Policies

# Fish and Wildlife Commission (FWC) Policies Recreational priority

- i) Crab policy (C-3609)
- Base recreational seasons for PS
- Regional rec/commercial priority (no commercial fisheries in regions 4,5,6)





# Fish & Wildlife Commission Policies Cont.

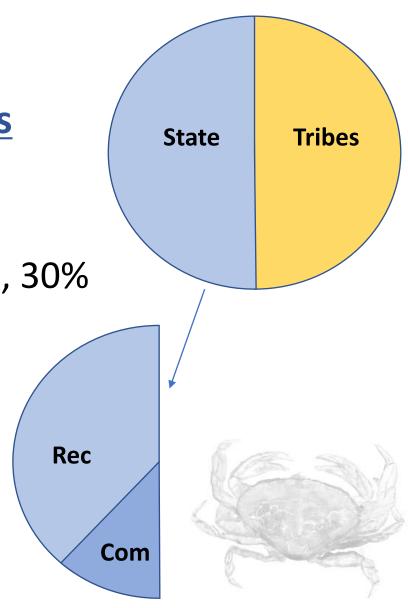
#### Fish and Wildlife Commission (FWC) Policies

#### Recreational priority

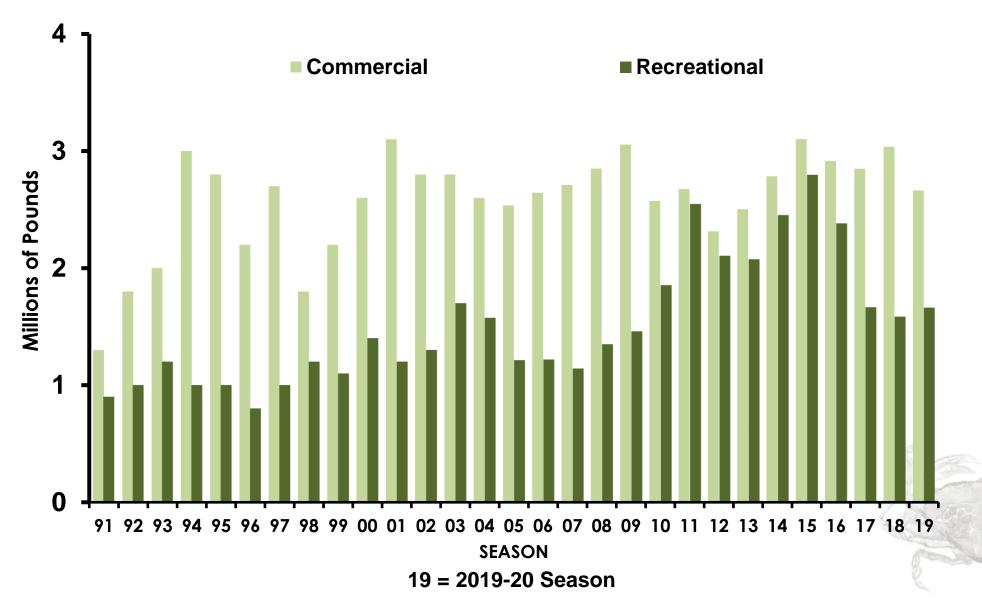
ii) Shrimp policy (C-3610)

Harvest Allocations – 70% recreational, 30% commercial (sound-wide)

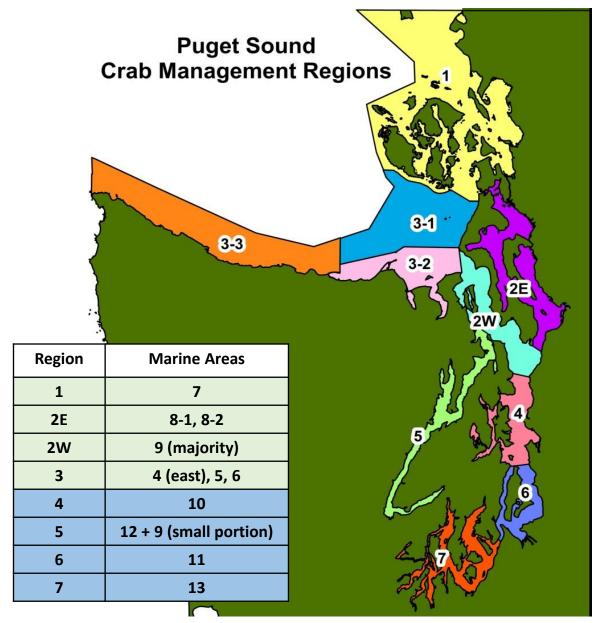
Region-specific harvest allocations

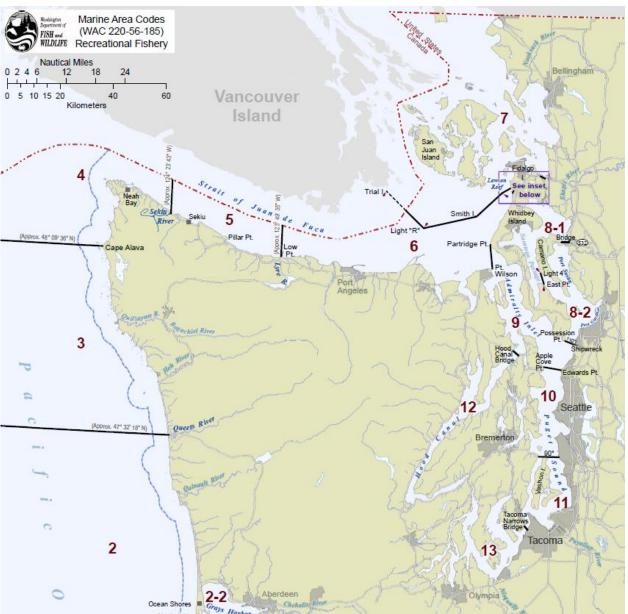


# **Dungeness Crab Harvests for State Fisheries** in Puget Sound (1991-2019)

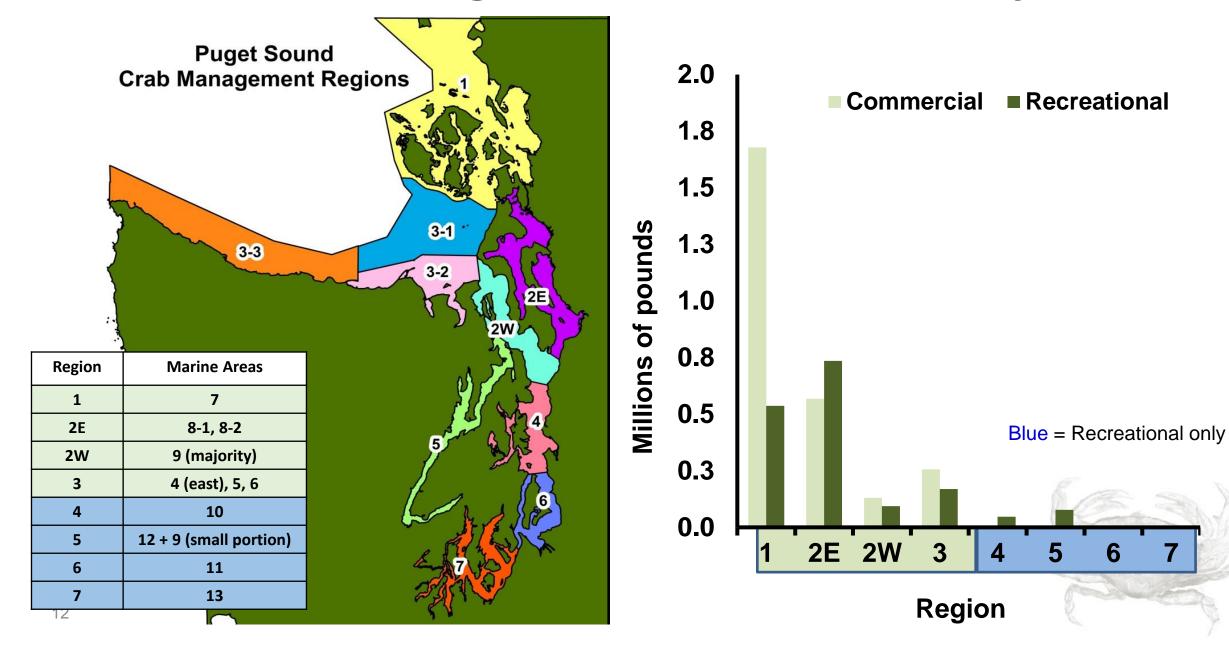


# **Co-Management and FWC Policy**





# **Co-Management and FWC Policy**



# PS Crab Policy – 2010 Revision

<b>Marine Areas</b>	Old Policy (2/2000)	New Policy (9/2010)
	"Quality" recreational with summer focus.	Full summer and winter rec priority.
	"Stable" commercial with target % begins 10/1.	Commercial harvests any remainder beginning 10/1.
4 east, 5, 6	Protected bays have recreational priority.	
	"Quality" recreational with summer focus.	Full summer and winter rec priority.
7 South	"Stable" commercial with target % begins 10/1.	Commercial harvests any remainder beginning 10/1.
	"Quality" recreational with summer focus.	Full summer and winter rec priority.
7 North	"Stable" commercial with target % begins 10/1.	Commercial harvests any remainder beginning 10/1.
	"Quality" recreational with summer focus.	
	"Stable" commercial with target % begins 10/1.	Full summer and winter rec priority.
8-1, 8-2, 9	Port Townsend Bay has recreational priority.	Commercial harvests any remainder beginning 10/1.
10, 11, 12, 13	Entirely recreational	Entirely recreational.



# **PS Shrimp Policy – New Regional Allocations**

#### **Spot Shrimp**

General Area	Marine Areas	Old Policy (1/2003)	New Policy (12/2012)
Straits	4 east, 5, 6 (majority)	15% Rec	22% Rec
San Juans	7	15% Rec	80% Rec
Central/South Puget Sound	8-1, 8-2, 9 10, 11, 13	60% Rec	100% Rec
Hood Canal & Discovery Bay	6 (portion), 12	100% Rec	100% Rec
All	All	No target %	70% Rec

#### Non-Spot Shrimps

General Area	Marine Areas	Old Policy (1/2003)	New Policy (12/2012)
All	All	No target %	20% Rec

# **RCSAC** Roles and Responsibilities

**RCSAC Charter**: **New** for the 2021-2023 advisory board *Outlines:* 

- Authority of the group
- Responsibilities of members
- Ground rules for conduct and communication

**View Draft CHARTER** 



# **RCSAC** Roles and Responsibilities

## **Next Steps:**

- 1) Finalize Charter Document
  - Receive feedback by end of March
  - Finalize and sign
- 2) Provide contact information for Roster/Website

March 8, 2021



#### PUGET SOUND RECREATIONAL CRAB AND SHRIMP ADVISORY COMMITTEE CHARTER

DRAFT

#### Group Purpose and Authorit

The current Puget Sound Crab Fishery Policy (C-3609) went into effect on September 30, 2010 and the Puget Sound <u>Shrimp Fishery Policy (C-3610)</u> went into effect on December 14, 2012. These polices contain explicit guidelines for meeting the objective of promoting healthy and sustainable populations of crab and shrimp in Puget Sound and work cooperatively with the Tribal Co-Managers in structuring management measures to ensure a healthy and sustainable resource and achieves a fair sharing of the harvestable resource. Formerly two separate advisory groups, the Puget Sound Recreational Crab and Shrimp Advisory Committee (RCSAC) was formed in 2013. The RCSAC is a Volunteer group that provides a forum for discussion of issues relevant to the recreational crab and shrimp fisheries within Puget Sound. The purpose of the RCSAC is to develop recommendations to help WDFW achieve the overall mission and management objectives for the Puget Sound recap and shrimp fisheries.

The RCSAC does not create rules or policies although the committee can have significant impact on the management of Puget sound crab and shrimp resources. This group provides insight, recommendations and advice to the Puget Sound crustacean program staff regarding potential policy changes, management actions, harvest seasons, regulations, education and outreach opportunities and stakeholder communication.

#### Committee Membership

The RCSAC is comprised of up to 12 members who represent the recreational community in various Puget Sound Marine Areas. WOPM trives to construct a committee with a broad knowledge and experience in the recreational crab and shrimp fishery and that represents the demographic diversity of the recreational crabber and shrimper community throughout the Puget Sound region. Committee members must have the ability to address issues in a thoughtful and productive manner, willingness to engage in the management process, and ability to communicate with fishery managers and other recreational and commercial fishers or organizations.

Puget Sound RCSA Committee

ift Charter

1|Page



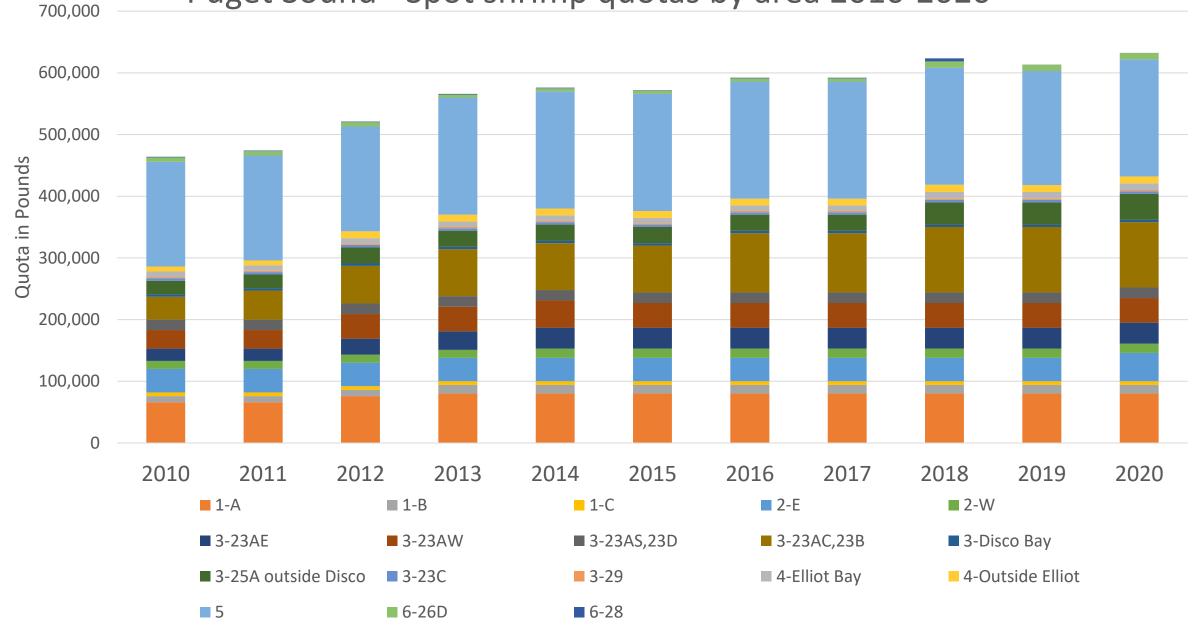
## **Overall Goals:**

- Keep harvests within the agreed-to quota
  - Sharing & conservation objectives
- Reduce/eliminate unregulated harvest (illegal activity)
- Manage the fishery in line with the FWC policies
  - Defined seasons and allocations

# **Setting Quotas:**

- Typically based on recent harvest (3- or 5-year average)
- Test Fisheries Pre- and Post Season
- Often in-season adjustments for crab
  - Based on fishery performance and catch metrics
  - Indicators suggest enough resource available

#### Puget Sound - Spot shrimp quotas by area 2010-2020



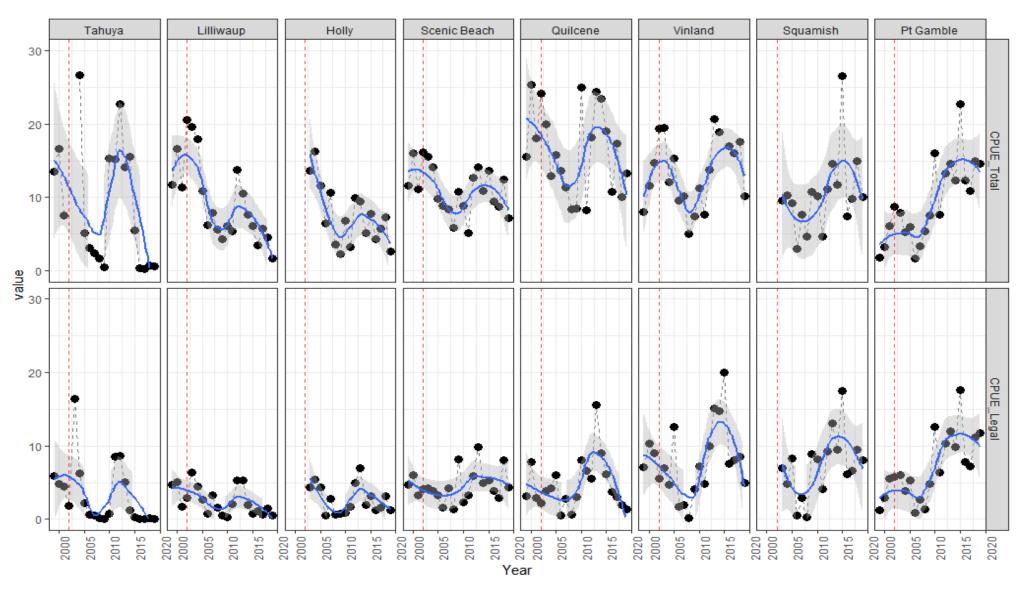
# **PS Crab and Shrimp Test Fisheries**

- Takes place in most Marine Areas
  - HC, PT Bay for crab
  - All areas for shrimp
- Size, sex and abundance data collected
- Long-Running time series
  - Since the 1980s in HC

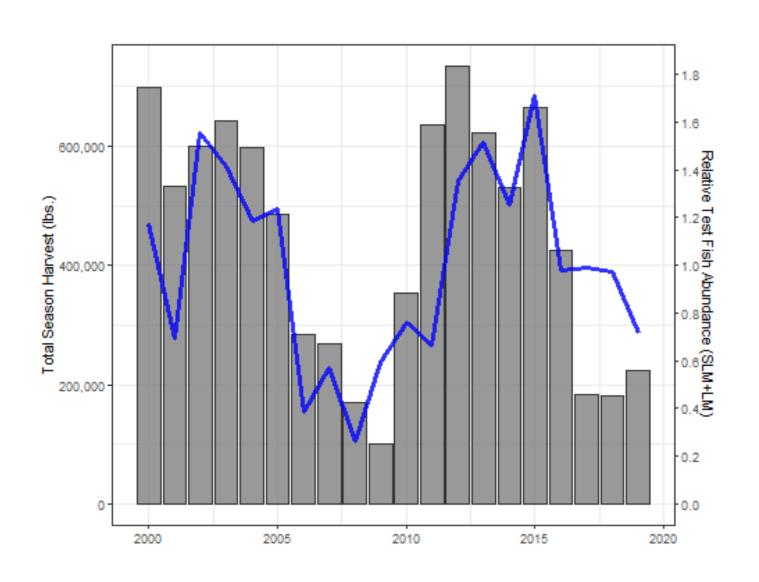


#### 1999-2020

# **HC Crab Test Fishing**



# **HC Crab Test Fishing**



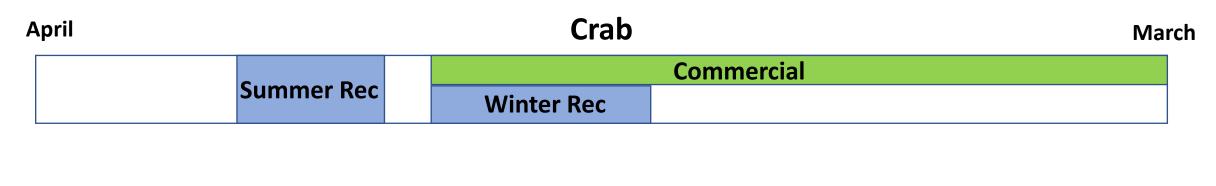
- Testing fishery
   abundance generally
   tracks with harvest in
   Hood Canal
- 10-year cycle in abundance

# **Crab and Shrimp Test Fisheries - 2021**

Dates	Region(s)	Marine Areas	Sites
Crab			Chambers Bay, Filucy Bay, Oro Bay, N McNeil Is, Tolmie State Park, Zangle
Feb 22-26	6	13	Cove, Nisqually Reach, Wollochet Bay
Crab			
March 1-4	4	10	Alki Point, Shilshole, 4 Mile Rock, Murden Cove, Port Madison, Kingston
Shrimp			Speiden Is., Boundary Pass, Pt. Disney, Jones Is., Pt. Caution, Parks Bay,
March 16-18	1, 3	6, 7	Salmon Bank, Iceberg Pt., Smith Is., Eastern Bank
Shrimp			
March 23-24	6	11, 13	Brace Pt., Pt. Beals, Pt. Heyer, N. Ketron Is., NE McNeil Is., SE Anderson Is.
Shrimp			Onamac Pt., Cama Beach, Greenbank, Clinton, Gedney Is., Mukilteo,
March 30- April 1	2E, 2W, 4	8, 9, 10	Possession Pt., Browns Bay, Edmonds, Skiff Pt., Yeomalt Pt., Blakely Rocks
Shrimp			Jackson Cove, Zelatched, Nellita, McDaniel Cove, Capstan Rocks, Red
April 7-15	5	12	Bluff, Lilliwaup, Musqueti, Hoodsport
Shrimp			
April 20-21	3	6	Discovery Bay

## **Managing Fisheries in PS**

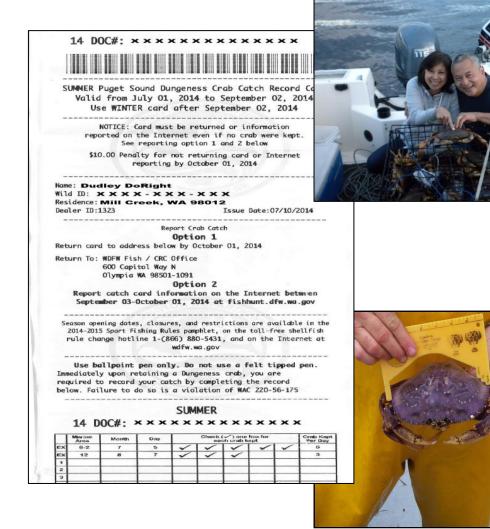
- Limited resources LOTS of users
- Managing recreational and commercial fisheries simultaneously



# Shrimp Commercial Rec - Spot Rec - Non-Spot

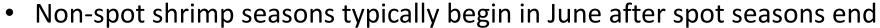
# **State Recreational Crab Fisheries**

- Harvest of Dungeness crab requires a Crab Endorsement
  - > 200,000 endorsements sold per year
- Dungeness catch reporting required via Catch Record Cards (CRCs)
  - Separate CRCs for summer and winter
  - Submitted by 1 month after season
- Dungeness crab are the primary target,
   but also Red Rock and Southern Tanner
- About 30-33% of crabbers each year are "new"



# **State Recreational Shrimp Fisheries**

- Spot shrimp seasons typically begin in May depending on tides
  - Minimum 1 inch mesh gear required
  - Daily limit is usually 80 spot shrimp
  - Each boat limited to 4 shrimp pots
  - Each pot must have yellow buoy(s) properly marked
  - Good amount of creel and effort data
  - All harvests done by Sept 15



- Minimum ½ inch mesh pots now allowed
- Daily limit is usually 10 lbs in aggregate/spots must be released.
- Each boat limited to 4 shrimp pots
- Each pot must have yellow buoy(s) properly marked
- \*Only in some Marine Areas with depth restrictions
- Very little creel and effort data
- All harvests done by Oct 15

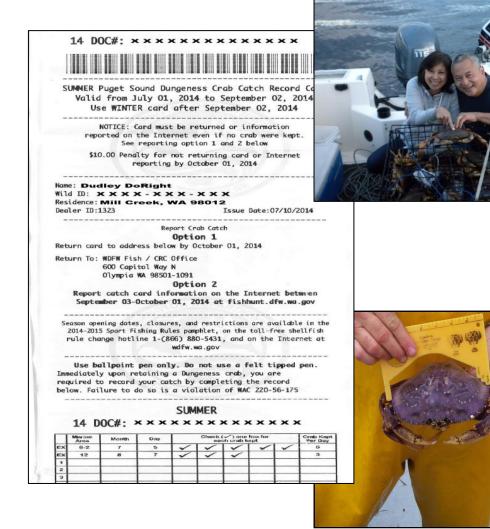






# **State Recreational Crab Fisheries**

- Harvest of Dungeness crab requires a Crab Endorsement
  - > 200,000 endorsements sold per year
- Dungeness catch reporting required via Catch Record Cards (CRCs)
  - Separate CRCs for summer and winter
  - Submitted by 1 month after season
- Dungeness crab are the primary target,
   but also Red Rock and Southern Tanner
- About 30-33% of crabbers each year are "new"



# **State Commercial Crab Fishery**

- Limited Entry Fishery
- 249 Licenses since 1980
  - 132 License owners
  - Maximum of 100 pots per license
  - Maximum of 3 licenses per boat
- All landings must be recorded on a Fish Ticket
- Season runs from October 1 April 15



# **State Commercial Shrimp Fisheries - Pot**

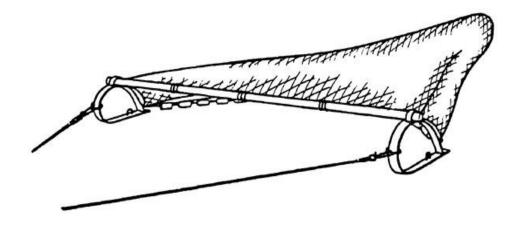
- Limited Entry Fishery
- 18 Licenses currently
  - 18 License owners
  - Maximum of 100 pots per license
  - Maximum of 2 licenses per boat
    - Only licenses own by the same person can be stacked
    - Stacking a license reduces the harvestable amount by 50%
- All landings must be recorded on a Fish Ticket
- Season runs from May 1 September 15
- Targets spot shrimp and non-spot shrimp (with smaller mesh gear)



# **State Commercial Shrimp Fisheries - Trawl**

- Limited Entry Fishery
- 5 Licenses currently
  - 5 License owners
- Beam Trawl
  - < 60 ft Beam in the Strait of Juan de Fuca</li>
  - < 25 ft Beam in the San Juan Islands</li>
- All landings must be recorded on a Fish Ticket
- Season runs from May 1 October 15
- Targets non-spot shrimp
  - Pink Shrimp in the Strait
  - Coonstripe Shrimp in the San Juan Islands





- Season Planning:
- Coordinating harvest among 3 fleets
  - State Recreational, State Commercial, Tribal\*
- Not a simple process
  - Consider provisions in the management plans
    - biological/life history
  - Gear conflicts
  - User group priorities

- Running fisheries and enforcing the rules:
  - Catch accounting/reporting
  - Gear restrictions
  - Season restrictions
  - Area closures
  - Effort reductions/limitations

- Monitoring and catch estimation:
  - Commercial
    - Harvests is almost 100% reported on FRT
  - Recreational
    - Crab CRC system
    - Shrimp
      - Punctuated openings
      - Effort surveys of boats/buoys during open days
      - Ramp sampling to get catch information

**Catch per Unit Effort \* Effort = Catch** 

#### **Recreational Harvest Estimation Methods - Shrimp**

MA	Method
7W	Aerial:Buoy
7E	Aerial:Buoy
<b>7</b> S	Aerial:Buoy
6 - 25A1	Aerial:Buoy
6 - outside 25A1	Aerial:Buoy
6 - Discovery Bay	Vessel:Buoy
8-1/8-2	Aerial:Boat
9	Aerial:Boat
10 – Elliot Bay	Vessel:Boat
10 – Outside Elliot Bay	Vessel:Boat
11	Vessel:Boat
12	Aerial:Boat

- Methods are chosen to produce the most accurate estimate possible
- Logistics of each fishery are considered when determining most appropriate methods
  - Timing and duration, geography, other fisheries, harvester density, etc.

#### Comparison in 2W from 8/12:

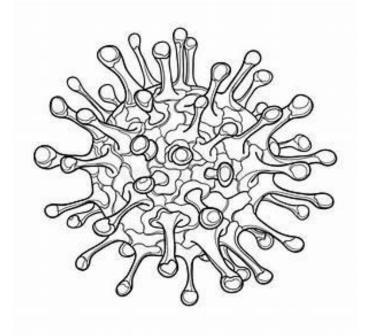
*Aerial:Boat* – 2,932.95

*Aerial:Buoy* – 2,924.49

#### **Review of 2020 Fisheries**

- Delayed Season
- Unexpectedly high effort
- Test fisheries cancelled
- Challenges in fisheries monitoring
- Regional county/health guidelines and considerations

#### COVID-19



# Current State Crab Harvest - 2020-21 Season

MANAGEMENT REGION	MARINE AREA	REGIONAL STATE SHARE	STATE RECREATIONAL SUMMER HARVEST*	Summer Estimated Unreported Catch (EUC)	STATE RECREATIONAL WINTER HARVEST*	Winter Estimated Unreported Catch (EUC)	STATE COMMERCIAL HARVEST	STATE COMMERCIAL EUC	TOTAL STATE HARVEST TO DATE	STATE BALANCE TO DATE
1	7	2,400,000	424,038	25,442	71,520	4,291	1,689,575	16,896	2,231,762	168,238
2E	8-1,8-2	1,100,000	724,933	43,496	67,570	4,054	277,661	2,777	1,120,491	-20,491
2W	9	225,000	66,678	4,001	13,074	784	82,268	823	167,628	57,372
3-1	6, N	45,000	1,802	108	272	16	37,002	370	39,571	5,429
3-2	6, SE	350,000	110,811	6,649	16,743	1,005	122,355	1,224	258,786	91,214
3-3	4, 5, 6 W	25,000	5,431	326	483	29	10,891	109	17,269	7,731
4	10	38,682	35,615	2,137	285	17	0	0	38,054	628
5	12	na	62,636	3,758	14,334	860	0	0	81,588	88,635
6	11	37,500	26,585	1,595	65	4	0	0	28,249	9,251
7	13	0	101	6	36	2	0	0	145	-145
STATE HARVEST	TOTALS	4,221,182	1,458,630	87,518	184,382	11,063	2,219,752	22,198	3,983,542	

<sup>\*</sup> Will discuss crab in greater detail next meeting

## Recreational Shrimp Seasons – Dates and Times

Shrimp	"Spot"		"Non-spot"	Max
Management Area	Seasons	Hours	Seasons	Depth
4	6/20-9/15	All	9/16 - 10/15	200
5	6/20-9/15	All	9/16 - 10/15	200
6 - Outside Disco Bay	5(28) 6(1-13, 18-21, 25-28) 8(12,13,15,16)	All	7/2 - 10/15	200
6 - Discovery Bay	6(11,15)	7 am - 3 pm	None	
7 East	5(28) 6(1,11,15,26,28,30) 8(12,13,15,16) 9(10-14)	All	7/1 - 10/15	200
7 South	5(28) 6(1,11,15,26,28,30)	All	None	
7 West	5(28) 6(1-13, 18-21, 25-28) 7(2-5) 8(12,13,15,16,20-23) 9(10-14)	All	None	
8-1 and 8-2	6/11	7 am - 1 pm	6/16 - 10/15	150
9	6(11) 8(12)		6/16 - 10/15	150
10 - Elliot Bay	6/11	7 am - 1 pm	None	
10 - Outside Elliot Bay	6/11	7 am - 11 am	None	
11	6/11	7 am - 1 pm	6/16 - 10/15	150
12	6(11,15,26,28) 7(15)	9 am - 1 pm	None	
13	None		6/1 - 10/15	200

#### **2020 State Shrimp Shares and Harvest**

#### **Spot Shrimp**

POT SHRIMP MANAGEMENT REGIONS 2020 STATE HARVEST FOR THE POT FISHERY SPOT SHRIMP								
Spot Shrimp Management Regions	QUOTA	State Adj. Quota	Rec. Harvest	Comm. Harvest	Total	Remaining	Method	
1A/20B, 22A (west)	80,000	39,137	28,754	8,390	37,144	1,993	Buoy/Creel	
1B/20B, 22A (east), 21A	14,000	6,652	4,578	646	5,224	1,428	Buoy/Creel	
1C/20A, 21A, 21B, 22B	6,000	3,000	1,000	1,791	2,791	209	Set Aside	
REGION 1 TOTALS	100,000	48,789	34,332	10,827	45,159			
2E/24A-D, 26A-E (Skagit - Mukilteo)	46,000	11,814	15,026	0	15,026	-3,212	Boat Count	
2W/25B-D, 26AW (Edmonds - Admiralty Inlet)	15,000	7,500	5,238	735	5,973	1,527	Boat Count	
REGION 2 TOTALS	61,000	19,314	20,264	735	20,999			
3/23A-E (S Lopez I-Iceberg Pt, etc)	34,000	17,000	9,104	8,608	17,712	-712	Buoy /Creel	
3/23A-W (S San Juan I-Salmon Bank, etc)	40,000	20,000	247	20,564	20,811	-811	Buoy /Creel	
3/23A-C, 23B (Straits-Hein, Eastern Bank, Smith I)	106,000	53,000	9,237	45,130	54,367	-1,367	Buoy /Creel	
3/23A-S, 23D (Straits-NE of P.A.)	17,000	8,500	2,000	6,152	8,152	348	Set Aside	
3/23C (Straits-Sekiu to P.A.)	4,000	2,000	800	168	968	1,032	Set Aside	
3/25A Outside District 1 (North of Protection Is.)	36,000	14,504	6,207	7,757	13,964	540	Buoy/Creel	
3/25A,25E (Inside Disco. Bay SD)	4,000	1,127	1,702	0	1,702	-575	Boat Count	
3/29 (Straits - Neah Bay)	2,000	1,000	500	0	500	500	Set Aside	
REGION 3 TOTALS	243,000	117,131	29,797	88,379	118,176			
4/26B-1, 26C (Seattle - Bainbridge Is.)	11,000	5,500	5,785	0	5,785	-285	Boat Count	
4/26B-2 (Elliott Bay)	11,000	5,500	7,907	0	7,907	-2,407	Boat Count	
REGION 4 TOTALS	22,000	11,000	13,692	0	13,692			
5/27A-C (Hood Canal)	190,000	95,000	95,653	0	95,653	-653	Boat Count	
REGION 5 TOTALS	190,000	95,000	95,653	0	95,653		Boat Count	
6/26D (Vashon Island)	10,000	5,000	4,285	60	4,345	655	Boat Count	
6/28A-D (South Puget Sound)	300	150	0	0	0	150		
REGION 6 TOTALS	10,300	5,150	4,285	60	4,345			
ALL REGIONS GRAND TOTAL	626,300	296,384	198,023	100,001	298,024			

#### **2020 State Shrimp Shares and Harvest**

#### Non-Spot Shrimp – Pot Fishery

NON-SPOT MANAGEMENT REGIONS	2020 STATE HARVEST FOR THE POT FISHERY NON-SPOT SHRII					HRIMP
Non-Spot Shrimp Management Regions		State Adj. Quota	Rec. Harvest	Comm. Harvest	Total	Remaining
Region 1/20A-B, 21A-B, 22A-B	74,900	30,400	1,500	28,933	30,433	-33
Region 2 East/24A-D, 26AE	38,000	19,000	1,000	17,963	18,963	37
Region 2 West/25B-D, 26AW	10,000	5,000	500	1,430	1,930	3,070
Region 3/23A-D, 25A, 29 (Outside Disco Bay SD)*	48,000	24,000	1,000	10,245	11,245	12,755
Region 3/25A, 25E (Disco. Bay Shrimp District)	4,000	2,000	CLOSED	CLOSED	CLOSED	0
Region 4/26B, 26C	2,000	1,000	0	0	0	1,000
Region 6/26D	1,000	500	0	0	0	500
Region 6/28A-D	2,000	1,000	0	0	0	1,000
NON-SPOT MANAGEMENT TOTALS	179,900	82,900	4,000	58,571	62,571	

Set Aside Set Aside Set Aside Set Aside

#### **2020 State Shrimp Shares and Harvest**

#### Non-Spot Shrimp – Trawl Fishery

TRAWL MANAGEMENT REGIONS	OR THE SHRIMP TRA	AWL FISHERY		
Trawl Management Regions	QUOTA	Remaining		
Region 1B/22A, 21A "triangle"	116,000	56,000	55,986	14
Region 1B/20B	30,000	15,000	14,940	60
Region 1C/20A	20,000	3,000	2,271	729
Region 3/23AE, 23B, 25A (Straits-Hein Bank, etc)**	1,130,000	565,000	406,954	158,046
3/23AW, North of Port Angeles**	113,000	56,500	0	56,500
3/23C (Port Angeles - Sekiu)	200,000	100,000	0	100,000
3/29 (Sekiu-Neah Bay)	25,000	12,500	0	12,500
TRAWL MANAGEMENT TOTALS	1,634,000	808,000	480,151	

<sup>\*395</sup> pounds spot shrimp bycatch in 25A applied to spot catch

# Current and Future Challenges

- Catch estimation
  - Creel staffing and timely data
- Effort limiting and dispersing
- Season setting and fishery coordination
- Notification to the public
- Enforcement
  - During open season
  - During closures
- Resource abundance
  - Level of enforcement
  - Developing enforceable rules
- Climate Change Biotoxin

# 2021 Spot Shrimp Season Planning - Dates

- What are the adviser's preferences?
- Historical practice of opening on first 'good tide' Saturday in May
  - Fished in June 2020 due to Covid concerns
  - Last year the short fisheries occurred on a weekday, not a weekend

#### **Open Discussion**

# 2021 Spot Shrimp Season Planning - Challenges

#### **COVID**

- Changes to Creeling shrimp weights
- Coordination with County Health Departments

#### **Increased Effort/Reduced Quotas**

- In 2020 increased effort across most WDFW fisheries including shrimp
  - Anticipating similar effort for 2021 planning
- Elliott Bay (MA 10) State over-harvest in 2020
  - ~3,100 lbs for 2021 quota (5,500 lbs in 2020)
- **2E (MA 8.1, 8.2)** State over-harvests since 2015
  - ~19,788 for 2021 quota (11,814 lbs in 2020)



# 2021 Spot Shrimp Season Planning Cont.

#### Management Tools to impact/reduce harvest

• Limiting effort – currently no mechanism to limit effort in shrimp fisheries (open or closed)

#### **Regulation Changes**

- Bag limit 80 shrimp/person
- Fishery Hours 4 hrs
- Gear/Pot Limit 4 pots/boat

#### **Additional Considerations**

- Enforceability consistency across 1-day fisheries
- Effort shifts closing Elliott bay will shift effort to MA 10





# **Next Steps**

Finalize Charter – RSCAC member edits to WDFW by
 3/31

- Planning to announce shrimp dates by early April
- When to meet next? Late May?



