Current Status and Harvest Trends of Rockfish in the Prince William Sound Area







Brittany Blain-Roth

Prince William Sound Area Manager
Division of Sport Fish
ADF&G Anchorage Office

Martin Schuster

Prince William Sound Area Manager Division of Commercial Fisheries ADF&G Homer Office

Rockfish

• Over 40 species

Assemblages:

- Pelagic (Pelagic Shelf) (black rockfish)
- Nonpelagic (Demersal Shelf/Slope) (yelloweye rockfish)





Rockfish Life History: Challenges to Management

Long-lived

- Black rockfish: 20 40 years (differ by sex)
- Yelloweye rockfish: 60 to 100+ years

Late to mature and skip spawn

Black rockfish

- Different maturity timing between sexes
 - Males mature earlier (5-6 years) than females (10-15 years)
 - Older females missing from the harvest data

Yelloweye rockfish

• 50% mature at 17 years old; nearly all mature at 30 years old

Closed Swimbladder

Issues with resubmerging and discard mortality

Slow growing

- Black rockfish: females grow faster than males
- High fecundity (up to 3 millions eggs)

Give live birth

- Most rockfish release larvae in the summer
- Black rockfish release larvae in the winter



Yelloweye rockfish with barotrauma



ADF&G Statewide Rockfish Initiative (SRI)

Purpose:

• Interdivisional statewide effort to develop short & long-term management & assessment strategies for black and yelloweye rockfish

Issue:

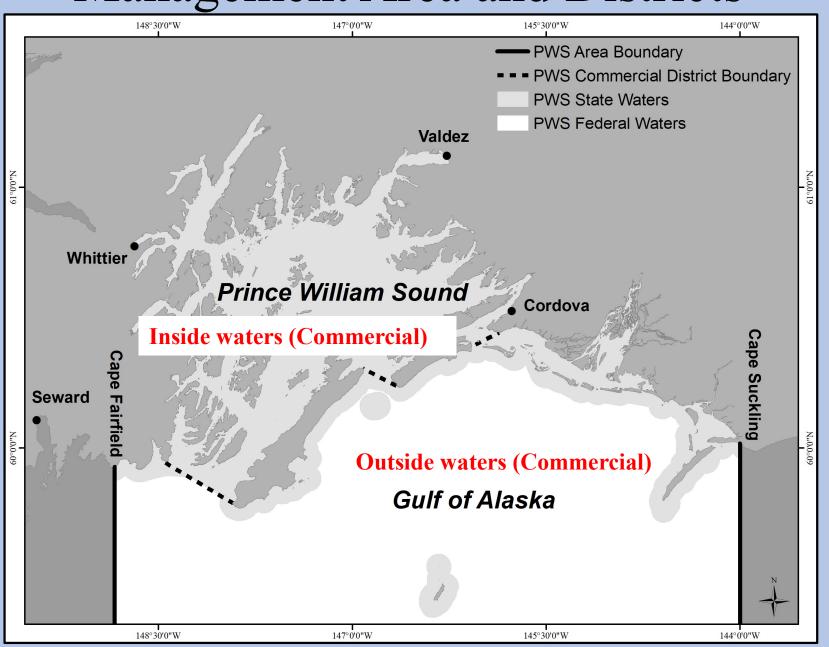
- No overarching management or assessment strategies
- Lack of abundance and harvest rate information
- Vulnerable to overharvest and require long recovery periods
- Growing level of concern harvest trends, changes in size & age

Management Priorities:

- Manage all fisheries under an appropriate harvest level or harvest rate
- Maintain optimum spawning populations

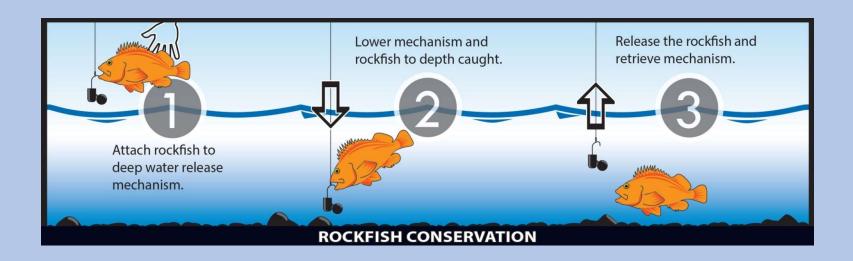
RC 3 & Tab 13

Prince William Sound Management Area and Districts



Sport Fishery

- No management plan or Guideline Harvest Level (GHL)
- Managed by assemblage since 1995 (pelagic and nonpelagic)
- Bag and possession limits:
 - 4 rockfish per day (bag limit), 8 in possession of which only 1 nonpelagic per day and 1 in possession
- Gear: Mandatory use of a Deepwater Release Mechanism (statewide 2020)

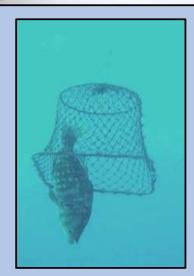


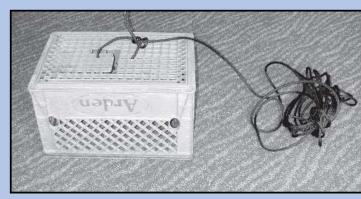




Deepwater Release Options



















RC 3 & Tab 13

Commercial Fishery

Regulations

Prince William Sound Rockfish Management Plan (5 AAC 28.265)

- All harvest occurs as bycatch to directed groundfish and Halibut fisheries
 - Bycatch allowances based on fishery
 - Pollock (0.50%)
 - Pacific cod (5%)
 - Halibut and lingcod (10%)
 - Sablefish (20%)
- 150,000 pound GHL for all rockfish species combined
- 5-day trip limit (all fisheries)
 - 3,000 pounds
- Mandatory retention

RC 3 &Tab 13

Subsistence Fishery

Regulations

- Amount necessary for subsistence of 7,500-12,500 rockfish (5 AAC 01.645(e))
- Gear limited to single hand troll, single hand-held line, or single longline, none of which may have more than 5 hooks
- Bag and possession limits vary by season
 - May 1 to September 15: 4 per day, 8 in possession, only 2 nonpelagic rockfish
 - September 16 to April 30: 8 per day, 8 in possession, only 2 nonpelagic rockfish

How do we get our harvest data?

Commercial Fisheries

- Fish Ticket harvest information
- Port sampling



Household Surveys

Sport Fisheries

- Charter Logbook
- Statewide Harvest Survey
- Port sampling

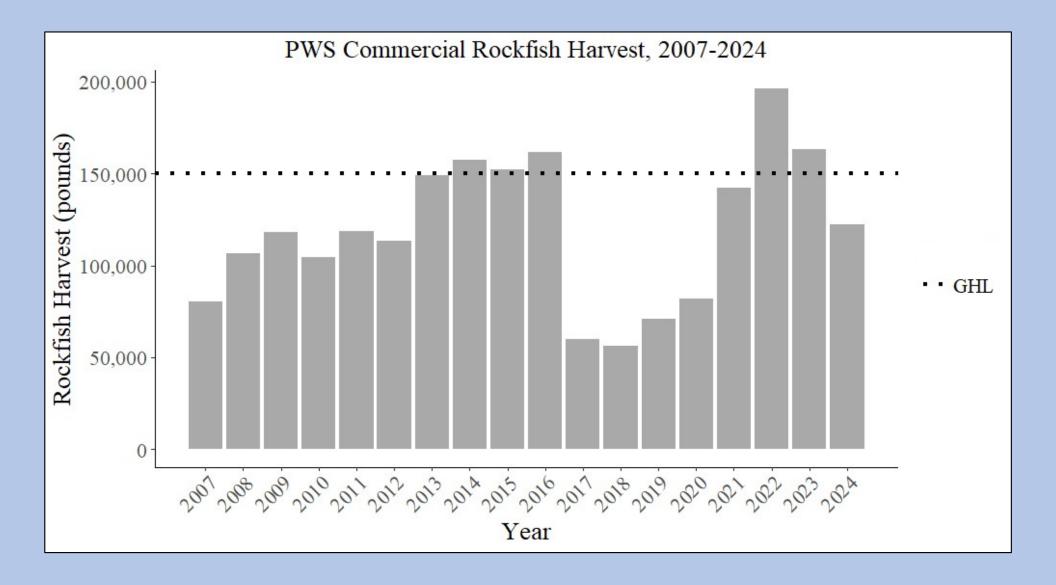


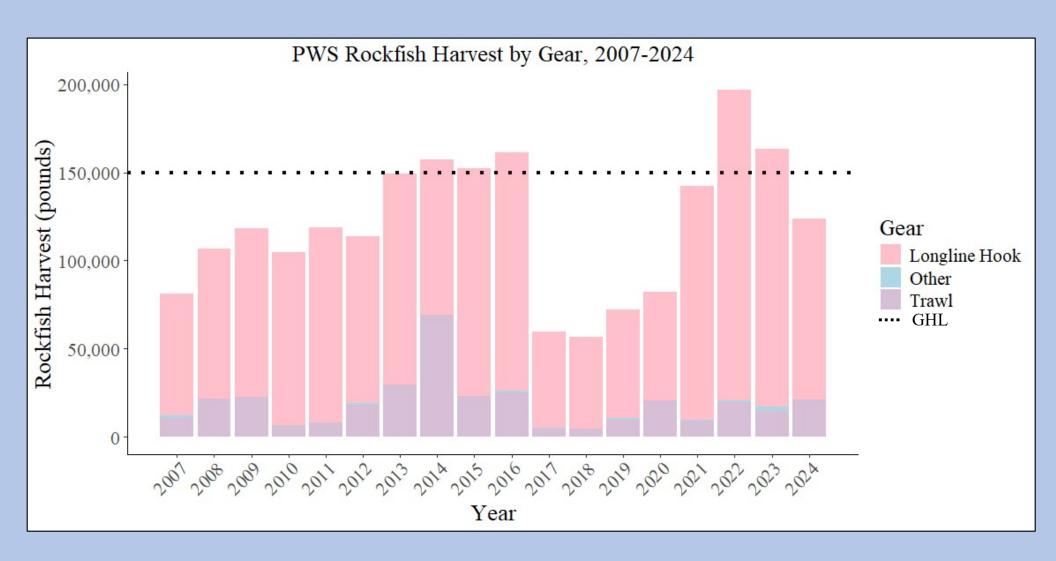


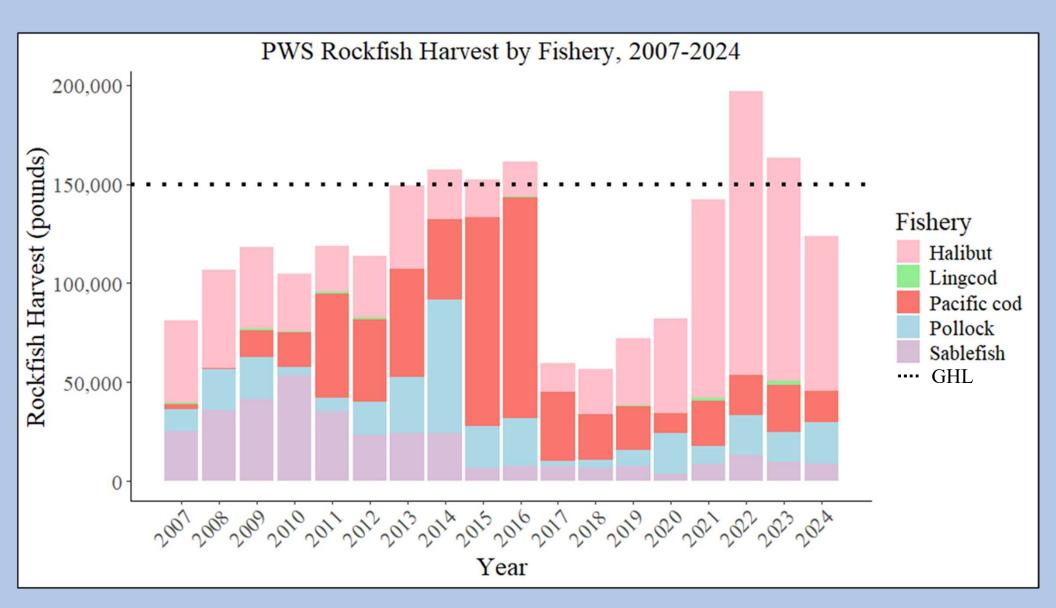


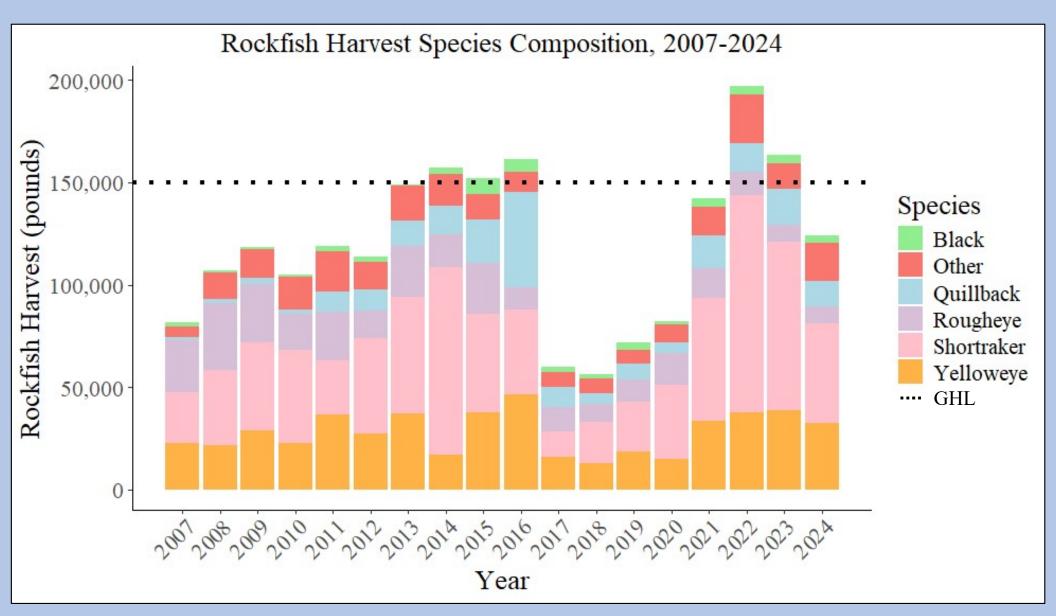


RC 3 & Tab 13





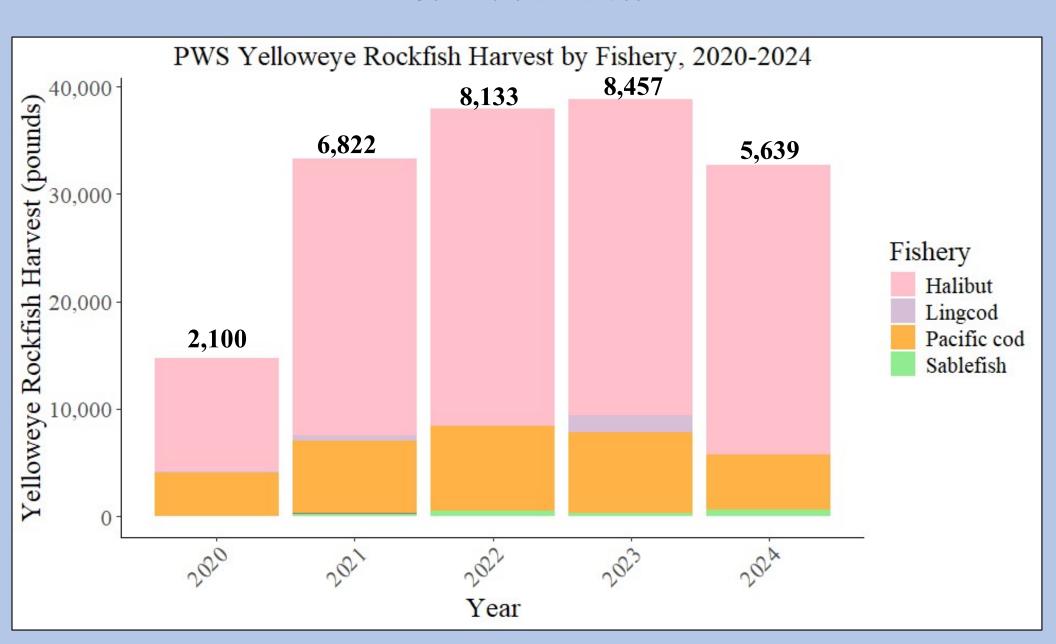






Yelloweye Rockfish

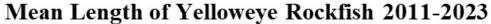
Commercial Harvest

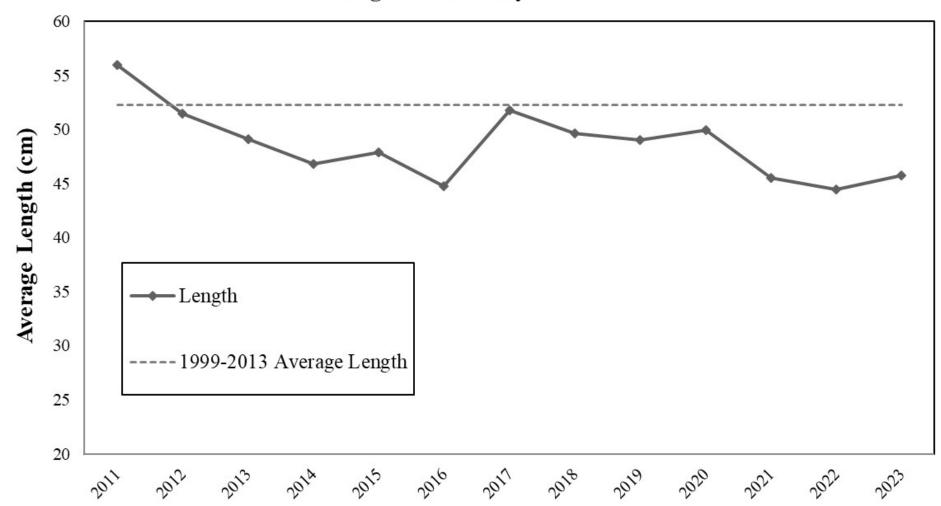




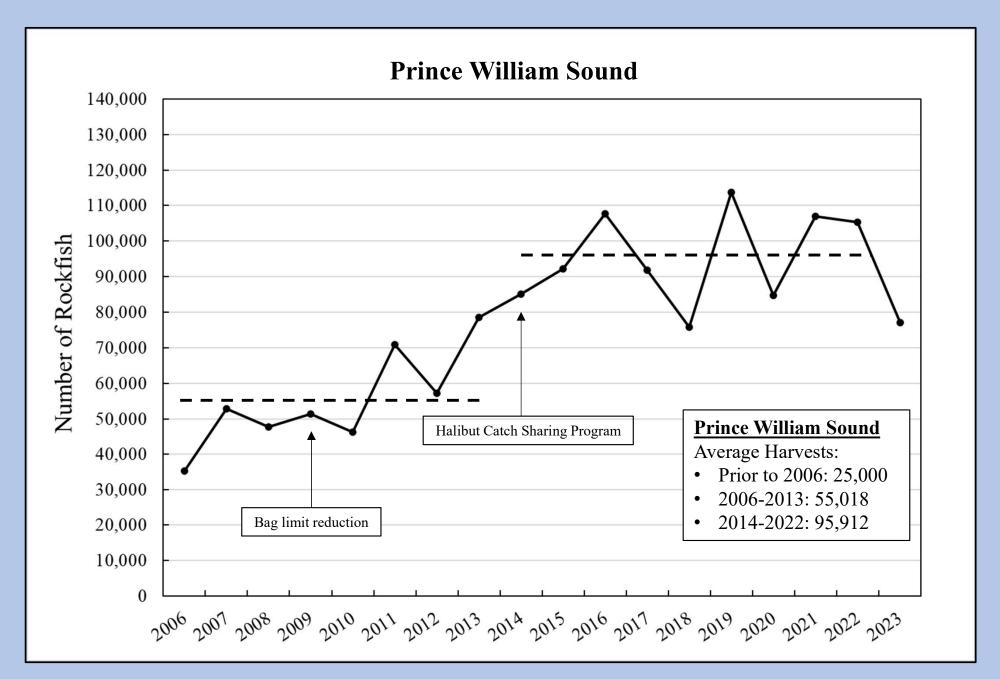
Yelloweye Rockfish

Commercial Harvest

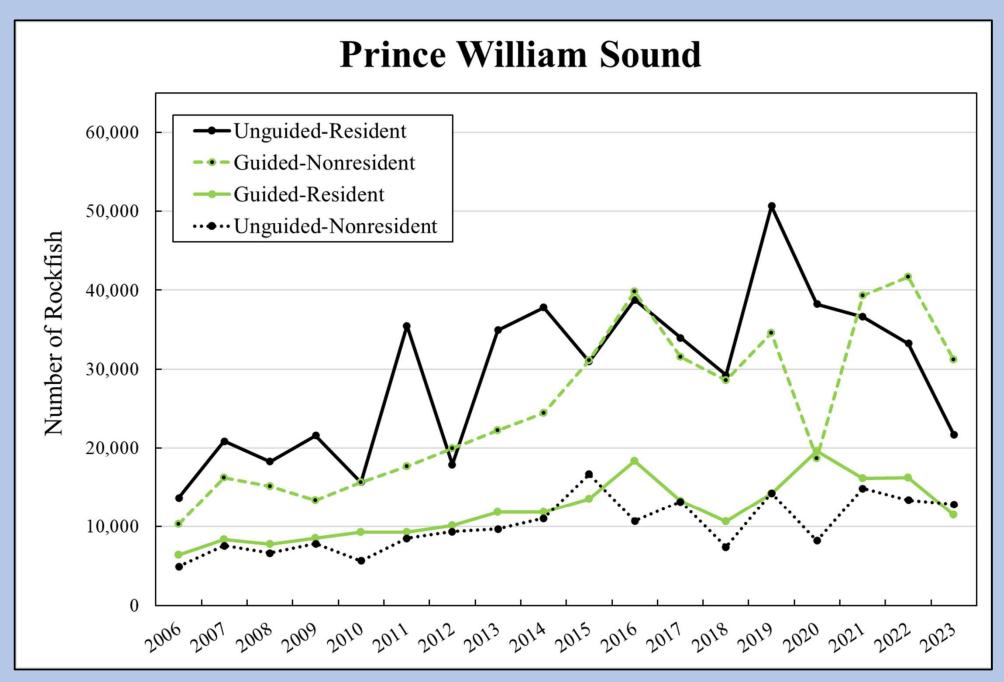




Sport Fishery Harvest–Total Rockfish



Sport Rockfish Harvest by User & Residency



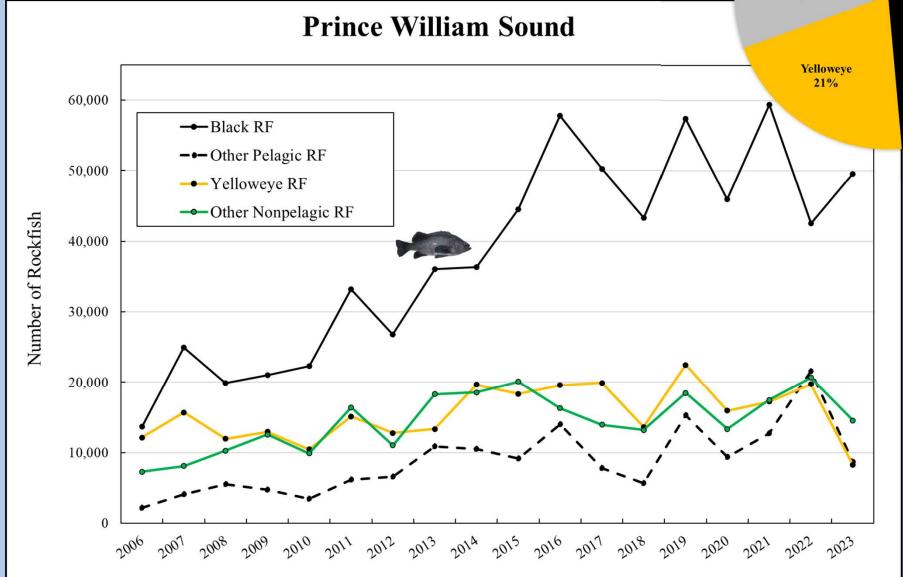
RC 3 &Tab 13 18

Sport Fish Rockfish Harvest: By Species

Other Nonpelagic 19%

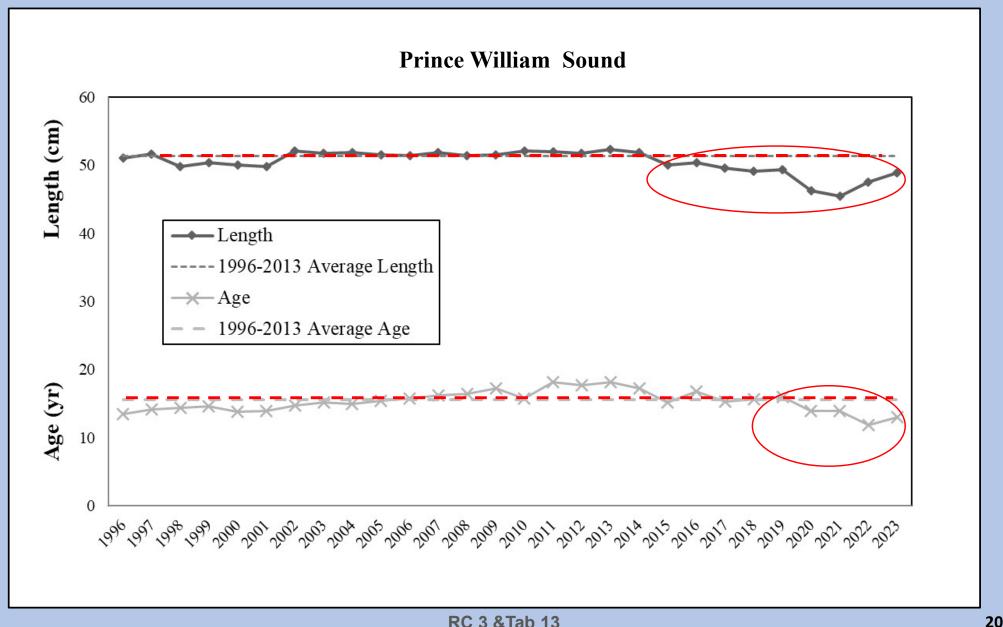
> Black Rockfish 49%

Other Pelagic 11%





Black Rockfish-Sport Harvest Length & Age Compositions



RC 3 & Tab 13

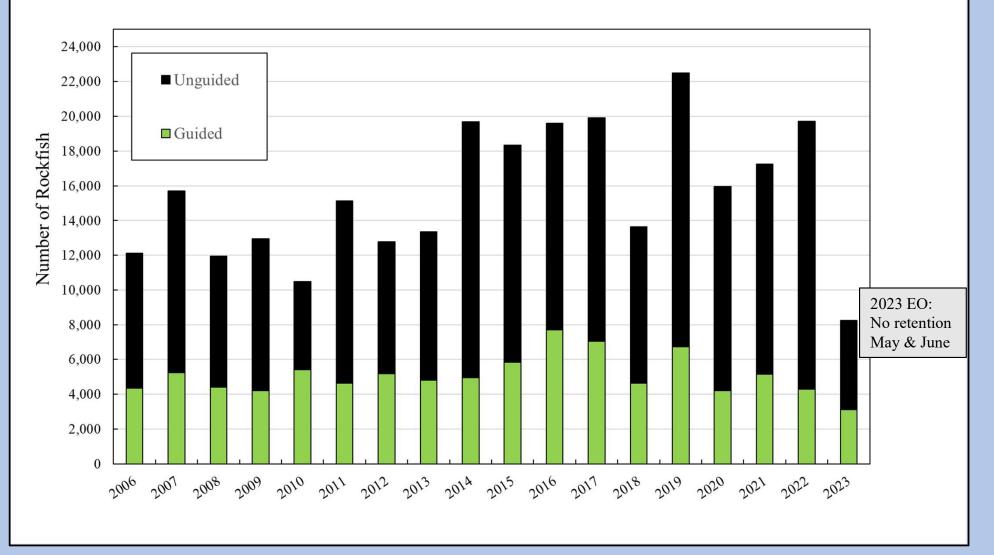


Yelloweye Rockfish–Sport Harvest



Average Harvests

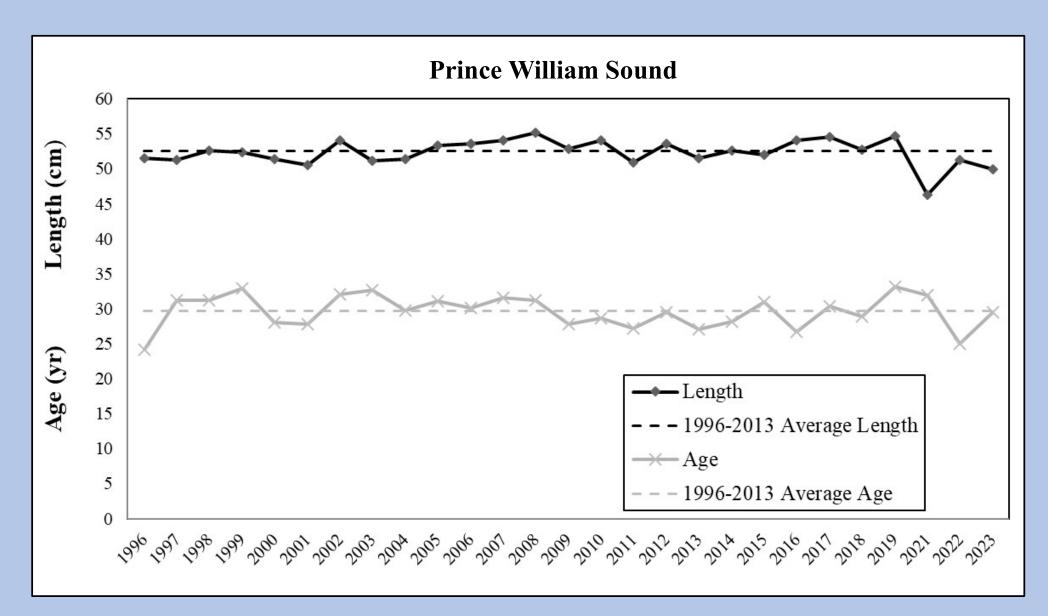
- 2006-2013: 13,061
- 2014-2022: 18,518



RC 3 & Tab 13 21



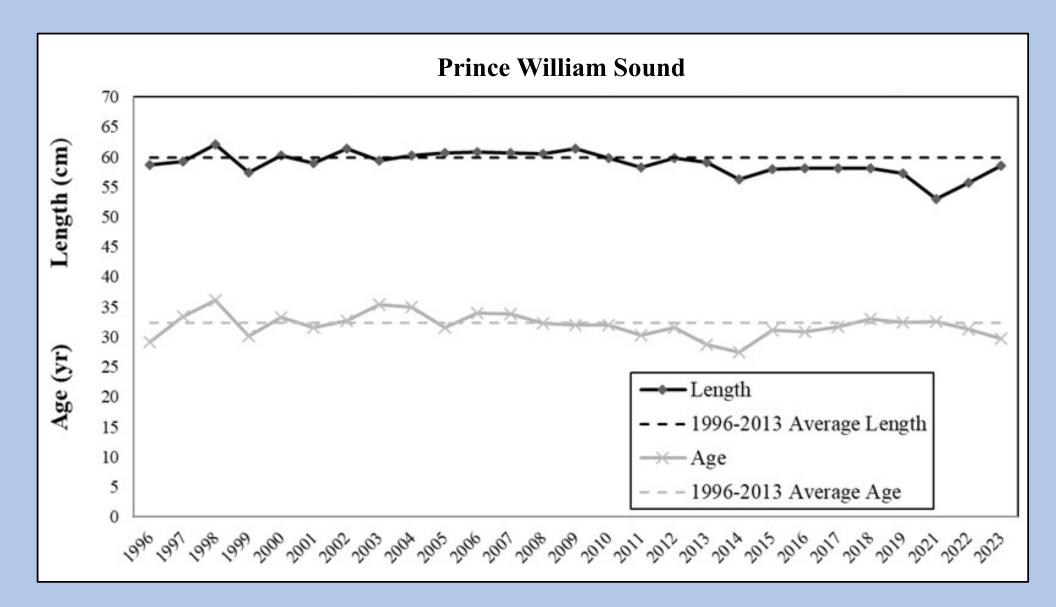
Yelloweye Rockfish—Sport Harvest Length & Age Compositions: **Inside waters**



22



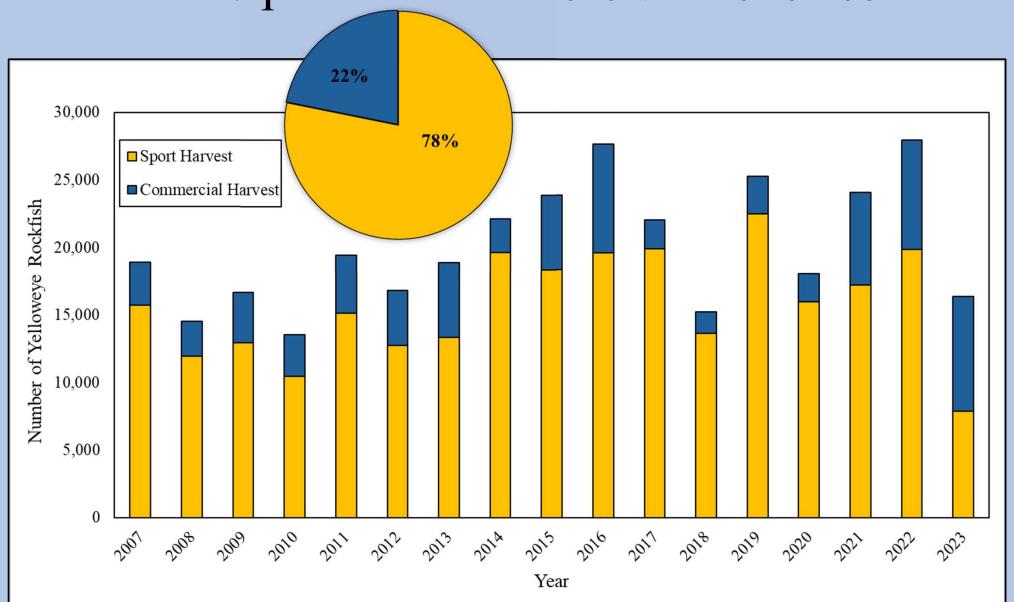
Yelloweye Rockfish—Sport Harvest Length & Age Compositions: Outside waters



23

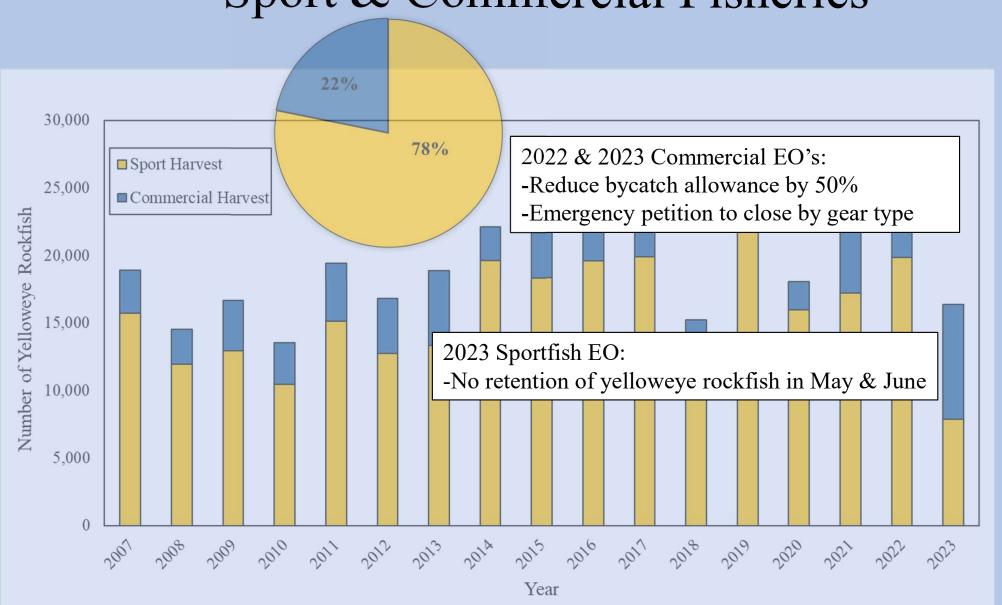


Total Yelloweye Rockfish Harvest: Sport & Commercial Fisheries





Total Yelloweye Rockfish Harvest: Sport & Commercial Fisheries





Yelloweye Rockfish –PWS *Inside* Preliminary Stock Assessment

<u>Department Goal</u>: Develop harvest guidelines that conserve yelloweye rockfish fisheries while providing harvest opportunity based on the sustained yield principle

Preliminary Stock Assessment Results:

- Stock assessment indicates downward trends in mean length and age from the commercial and sport harvests
- Removals have likely been above sustainable levels in most years since 2000

What we have done:

- Sport: reduced harvest with a seasonal closure for yelloweye rockfish in 2023 & 2024
- Commercial: reduced bycatch allowance for all species combined and filed emergency petition and proposal for permanent change during this meeting

By the next PWS BOF meeting:

- Finalize stock assessment
- Determine sustainable harvest levels (all fisheries combined)
- Develop a PWS yelloweye rockfish management plan (all fisheries combined)
- Continue to allow harvest opportunity in the sport fishery and bycatch allowance in the commercial



Sport Fishery Summary



- Annual rockfish harvest is above historical harvest levels
- Effort towards rockfish has increased
- Length and ages are showing declines in the port sampling data
- 2023 &2024 Management Actions
 - *Emergency Order*: Reduced the bag and possession limits for all rockfish in 2023 & 2024 (concurrent with North Gulf Coast and Lower Cook Inlet)
 - Emergency Order: Yelloweye seasonal (spawning) closure: May & June 2023, April–June 2024
 - Preliminary harvest estimates
 - Estimated harvest reduction:
 - 2023 Rockfish: 18%
 - 2023 Yelloweye rockfish: 28%
 - 2024: data not final
- Sport Proposals
 - Proposals: 27& 29: Department proposals to reduce bag limit & provide delegation of authority for yelloweye
 - Proposal 28: Different bag limits for inside and outside waters
 - Proposal 82: Split area into inside/outside for different bag limits



Commercial Fishery Summary



- Rockfish management and harvest by fishery
 - Longline hook fisheries harvest most rockfish
 - Halibut fishery
- Management Actions
 - Reduction of bycatch allowances from 2022–2024
 - Delegation of authority to close areas by gear type in 2023
- Authority to close areas by gear type
 - Proposal 5



Future Work



- Finalizing a yelloweye rockfish stock assessment model to identify sustainable harvest levels
- Develop comprehensive inter-divisional management strategies for rockfish
- Continue and expand port sampling observations of sport and commercial harvest
- Initiate fishery independent surveys (if funding available)

Questions?



Additional information available:

- Statewide Rockfish Initiative: www.adfg.alaska.gov/rockfish
- Sport Fisheries in the Prince William Sound Management Area, 2023 to Inform the Alaska Board of Fisheries in 2024
- Commercial Fisheries Prince William Sound Area Groundfish Management Report, 2021-2023