



Modifications to Red Porgy Management

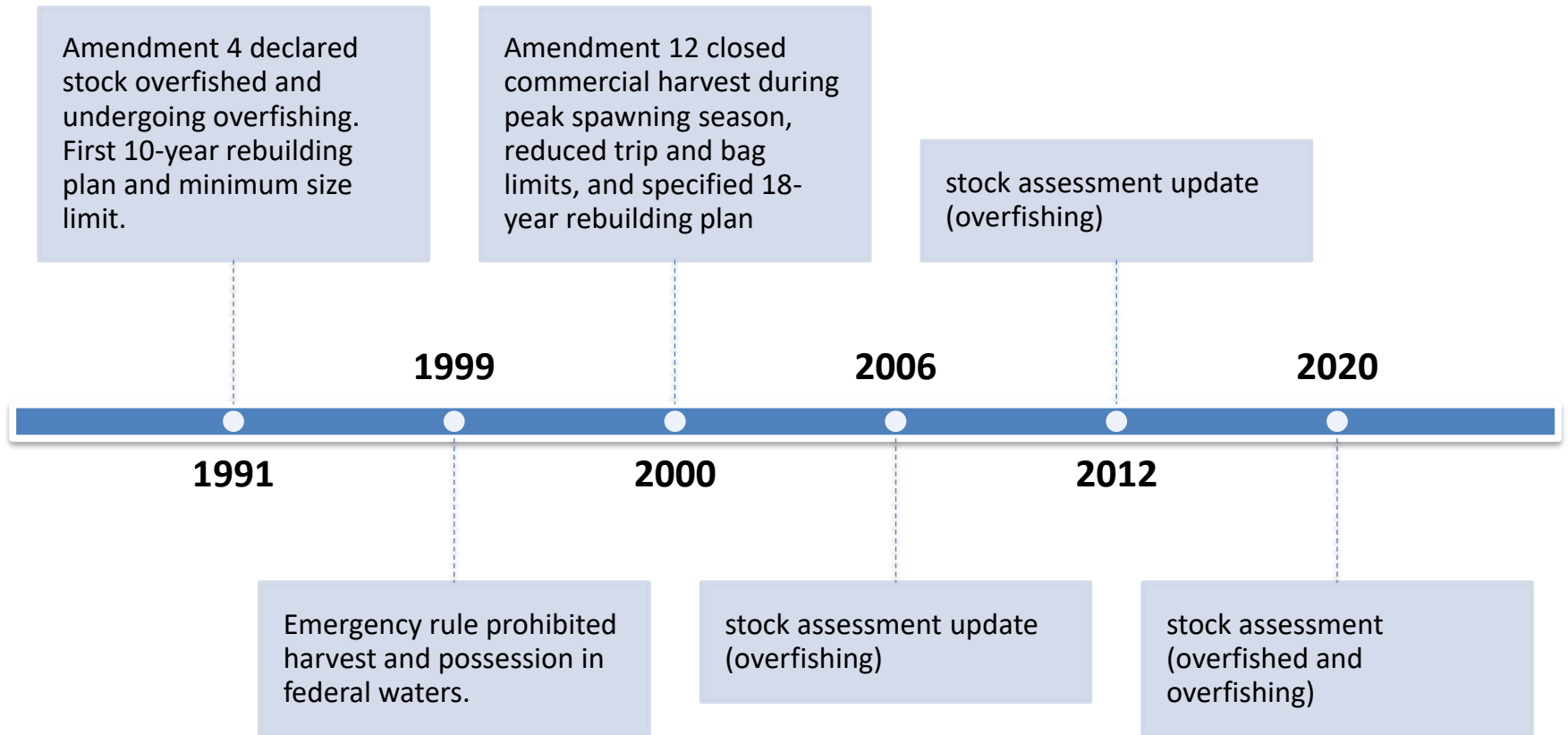
Amendment 50



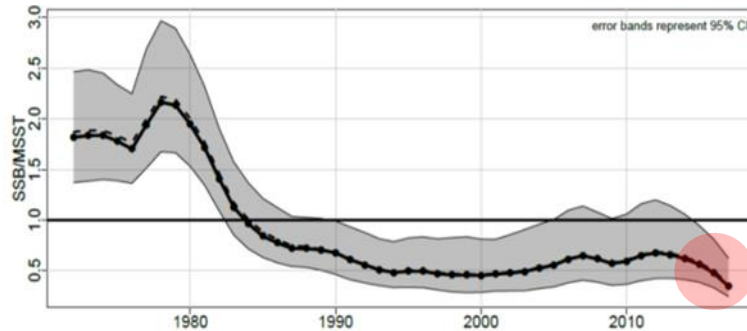
Summary for the Snapper Grouper Advisory
Panel

November 2020

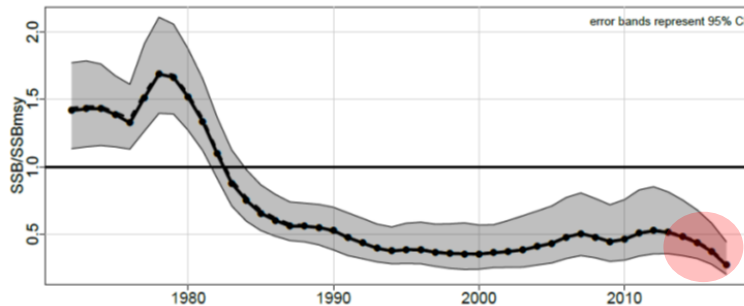
Background



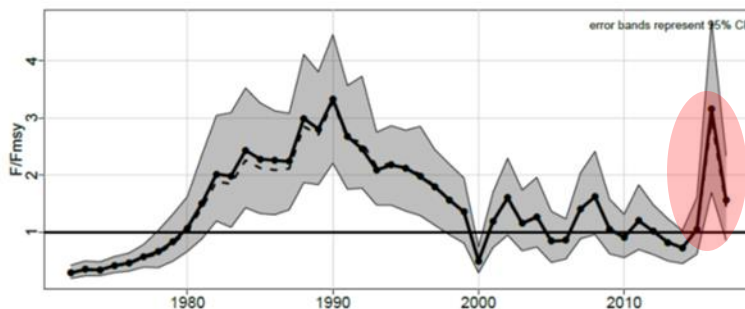
Where Things Are For The Red Porgy Stock



Spawning Stock Biomass relative to the level below which the stock is considered to be overfished (minimum stock size threshold).



Spawning stock biomass relative to the spawning stock biomass needed to produce maximum sustainable yield



Current fishing mortality relative to the fishing mortality that would result in maximum sustainable yield

SSC Recommendations

Overfishing Limit (OFL)		
Year	Landings (lbs ww)	Numbers of Fish
2022	97,000	62,000
2023	102,000	65,000
2024	107,000	67,000
2025	110,000	69,000
2026	113,000	71,000

Acceptable Biological Catch (ABC)		
Year	Landings (lbs ww)	Numbers of Fish
2022	75,000	47,000
2023	81,000	51,000
2024	87,000	54,000
2025	91,000	57,000
2026	95,000	59,000

What Does It Mean?

Significant reductions are needed for Red Porgy based on the SSC's Acceptable Biological Catch Recommendations

Total ACL
328,000 pounds

Current ACL



Total ACL
75,000 pounds

Highest Possible New
ACL



2020 Timing

June 2020: Council received acceptable biological catch (ABC) recommendation from the SSC. Council received notification that the Red Porgy stock is overfished and undergoing overfishing. Statutory deadline June 2022.

September 2020: Council reviewed options paper based on recommended ABC and requested the AP's input of possible modifications to management measures.

December 2020: Council will review preliminary analyses and consider approving for scoping.



Action 1 - Rebuilding

Option	Years	Probability of success
1. No Change	N/A (rebuilding plan ended in 2016)	N/A
2. T _{min} (F=0)	10 years	41%
3. T _{min} x 2	20 years	N/A
4. T _{min} + one generation	16 years	N/A
5. T _{max} (F=75%F _{msy})	26 years	51%



Action 2 - Total ACL

Option	Optimum Yield (lbs ww)	Total Annual Catch Limit (lbs ww)
1. No change	328,000	328,000
2. Total ACL = updated ABC	75,000	75,000
3. Total ACL = 90% of updated ABC	67,500	67,500
4. Total ACL = 80% of updated ABC	60,000	60,000

Based on the current ABC recommendations from the SSC. ACLs are for 2022



Action 3 – Sector allocations

Option	Allocation (comm/rec)	Sector ACLs (lbs ww)
1. No Change	50 / 50	37,500 lbs
2. Allocation formula*	51.43 / 48.57	38,573 / 36,428
3. Remove allocations	N/A	75,000

Note: Based on Council selecting Total ACL=ABC in previous action

The commercial ACL is allocated 30% to Jan-April and 70% to May-December

*Allocation formula - Sector ACL = 50% mean landings 1986-2008) + 50% (mean landings 2006-2008)



Action 4 – Recreational ACT

Annual Catch Targets can be used to prevent catch from exceeding a sector's ACL. Council has not employed ACTs in management but has specified for the recreational sector.

Options to revise the recreational annual catch target

- Current ACT = 117,555 pounds whole weight
- Revise with new catch levels and same formula (20,753 pounds whole weight in 2022)
- Remove



Commercial Landings

Previous Landings (lbs ww)		Proposed ACLs (lbs ww)		
Year	Landings	Year	ABC=ACL and Allocation is 50%	ABC=ACL and Allocation is 51.43%
2019*	104,608	2022	37,500	38,573
2018	126,209	2023	40,500	41,658
2017	126,761	2024	43,500	44,744
2016	124,914	2025	45,500	46,801
2015	153,681	2025	47,500	48,859

*preliminary data

Percent reduction from current catch (2017 to 2019)~ 68.5%

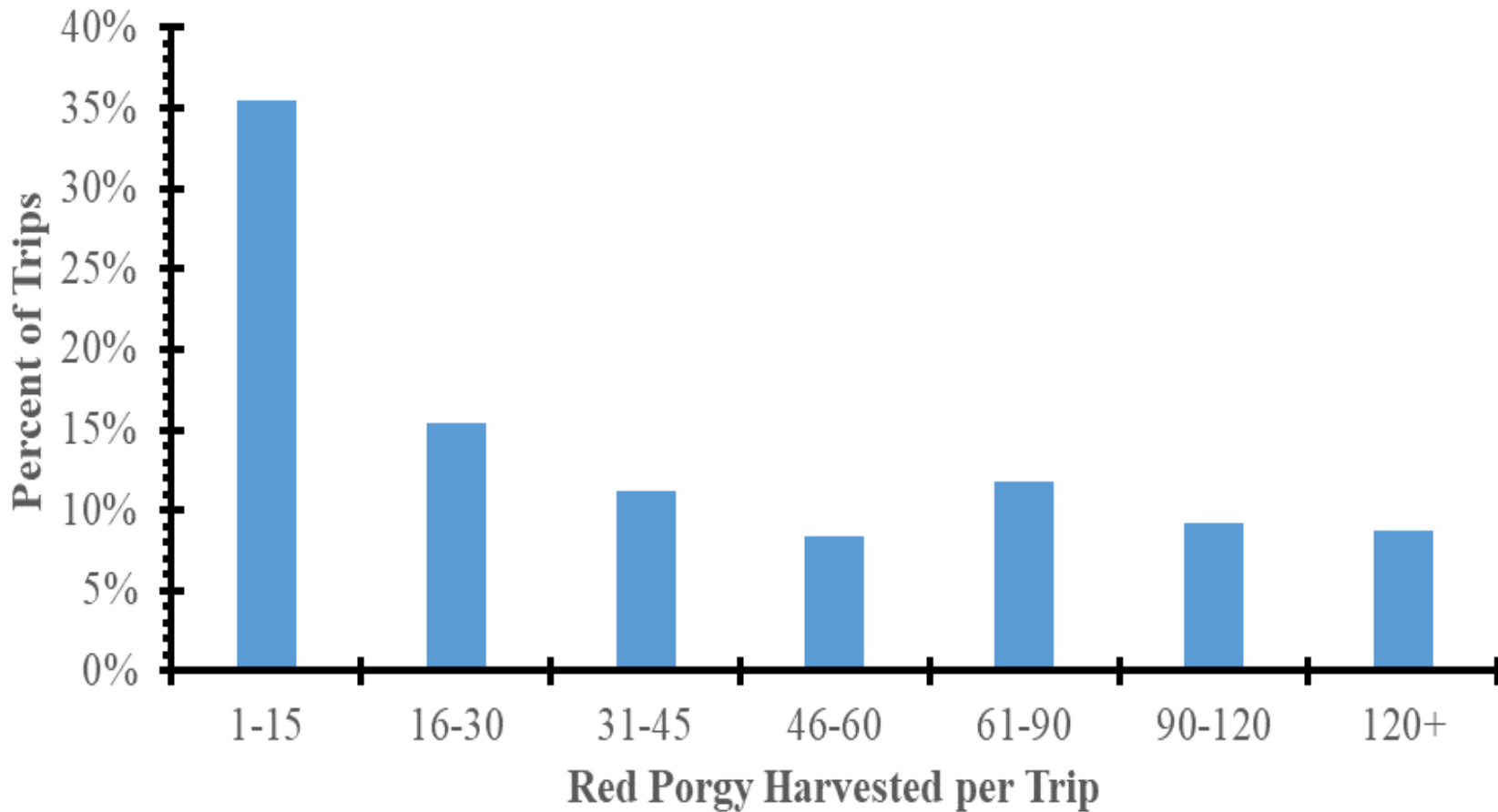


Commercial Regulations

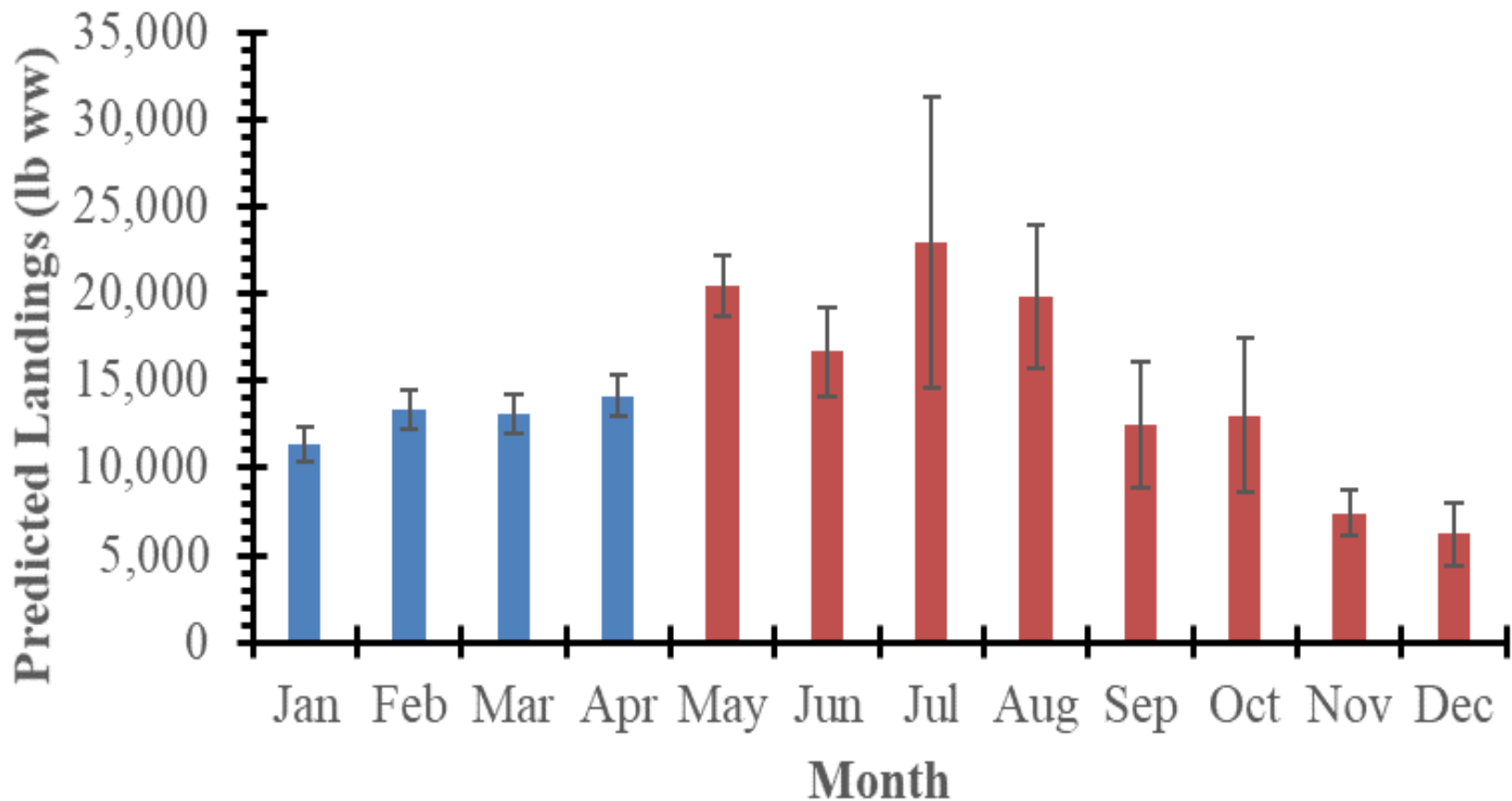
- 14-inch minimum size limit (total length)
- 60 fish trip limit Jan-Apr, 120 fish May-Dec
- ACL allocated 30% Jan-Apr and 70% May-Dec



Percent of trips harvesting Red Porgy



Predicted monthly red porgy commercial landings



* Extrapolated landings in blue



Estimated reductions from projected landings for potential trip limits

Current Trip Limit (# of red porgy)	Potential Trip Limit (# of red porgy)	Change in Landings
60*	45	-16%
60*	30	-36%
60*	15	-63%
120	60	-25%
120	45	-37%
120	30	-52%
120	15	-72%

Table shows the predicted percent change in landings from either the 60-red porgy (January-April) or 120-red porgy (May-December) trip limits

*60-fish trip limit was effective February 26, 2020



Recreational Landings

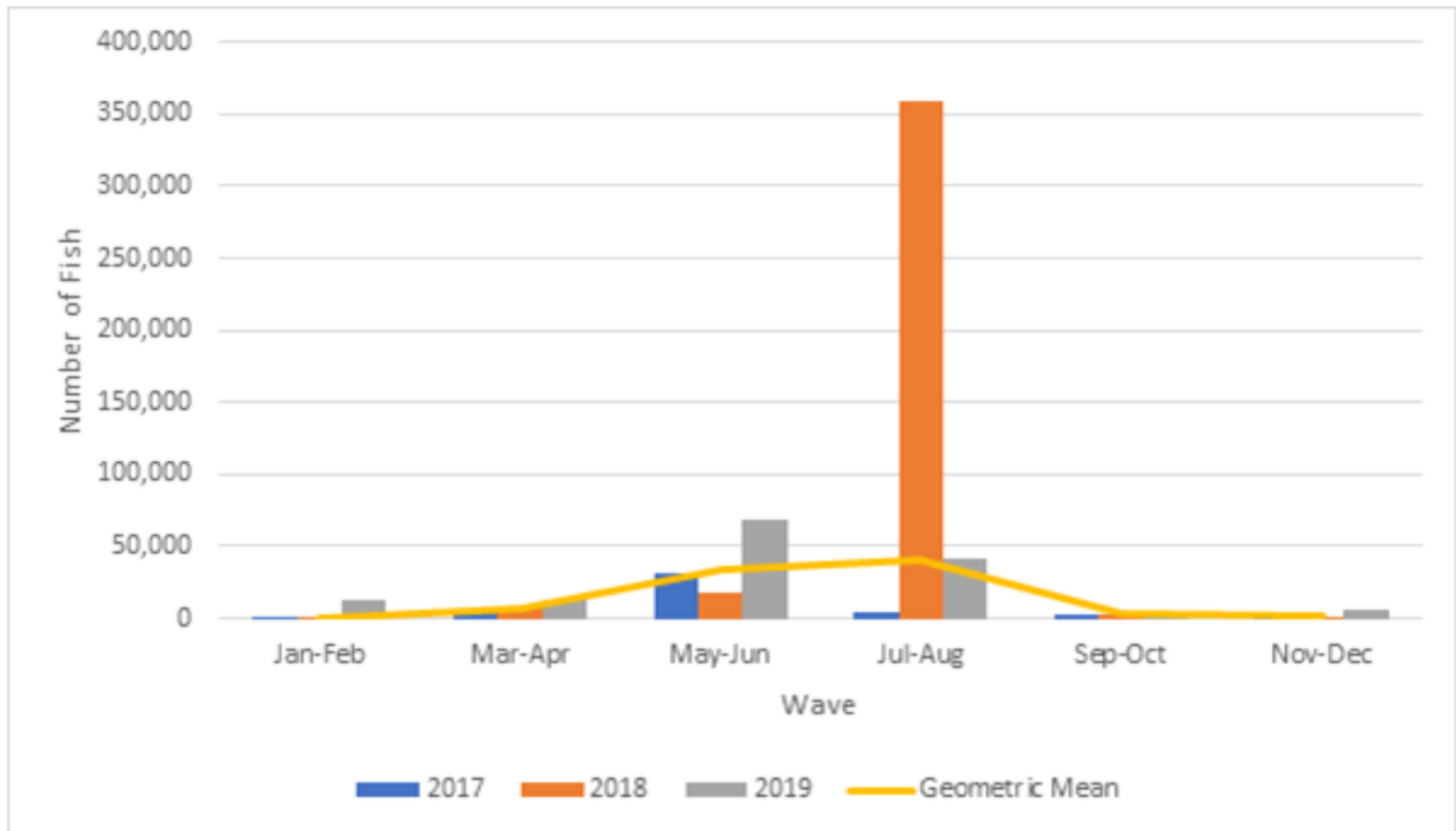
Previous Landings (lbs ww)		Proposed ACLs (lbs ww)		
Year	Landings	Year	ABC=ACL and Allocation is 50%	ABC=ACL and Allocation is 48.57%
2019	45,821	2022	37,500	36,428
2018	387,053	2023	40,500	39,342
2017	145,645	2024	43,500	42,256
2016	581,889	2025	45,500	44,199
2015	162,639	2026	47,500	46,142

Note: estimates based on MRIP using Fishing Effort Survey

Average 2017-2019 = 192,840 pounds whole weight
 Percent reduction from current catch ~ 80%



Red porgy recreational landings by two-month wave and predicted future landings



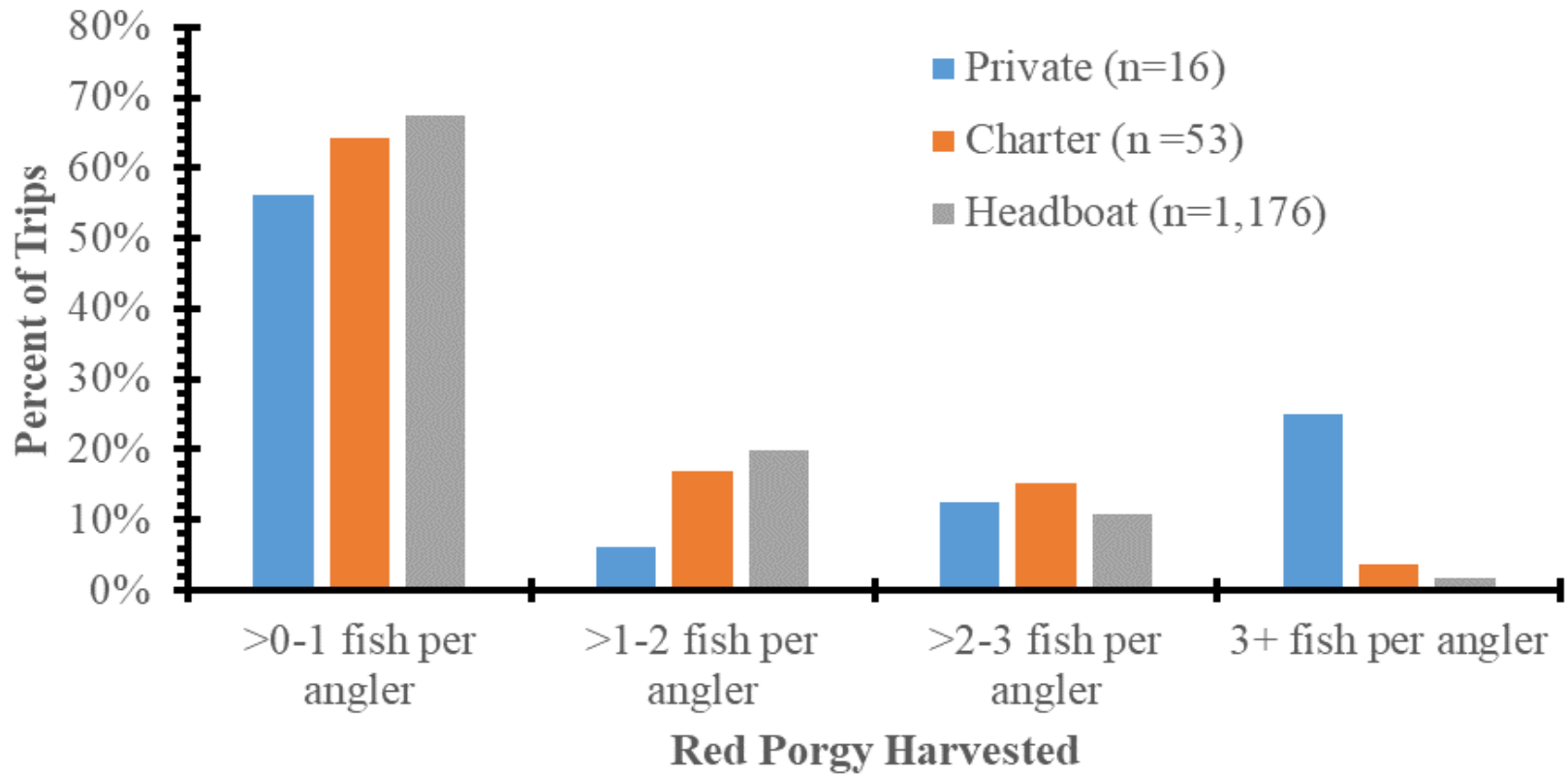
Recreational Regulations



- 3 fish per person per day or 3 per trip, whichever is more restrictive.
- 14-inch (total length) minimum size limit.



Red porgy catch per angler



Estimated reductions from projected landings for potential bag limits

Mode	2-red porgy bag limit	1-red porgy bag limit
Charter	-6.3%	-20.2%
Private	-14.2%	-30.1%
Headboat	-5.5%	-28.2%
Overall	-11.5%	-28.1%





Discussion Questions

Given that there needs to be ~70+% reduction in landings for each sector:

- What does the AP find most important for the commercial sector: season length or trip limit? Or a combination of both? Which months should be avoided if a seasonal closure is implemented?
- Are there additional management measures that should be considered for the commercial sector?



Discussion Questions

- Based on proposed reductions, the recreational season may only span a single two-month wave. When would be the best time to implement a recreational season for Red Porgy?
- Is it more important to keep a certain bag or vessel limit or longer season?
- Are there additional changes in management that should be considered for the recreational sector?

Extra information

<https://data.safmc.net//FPRAll/>

