



**NOAA**  
**FISHERIES**

# SEFHIER

Better Data, Better Management

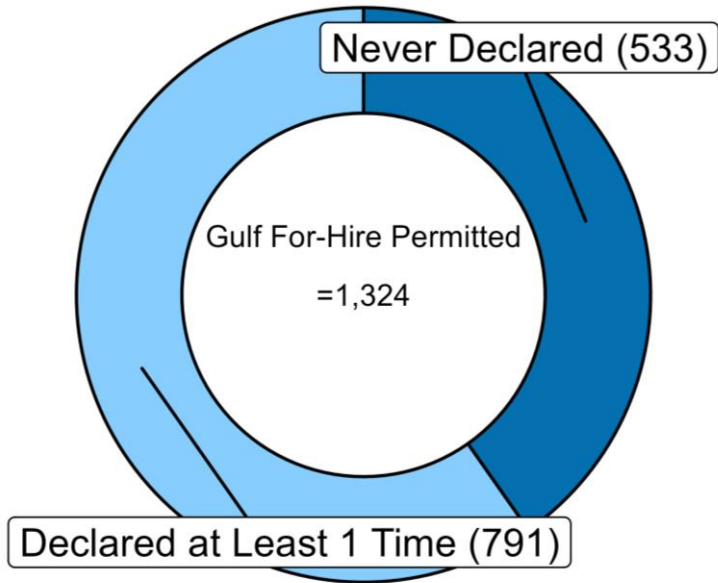
Michelle Masi, PhD  
NMFS|Southeast Regional Office  
[Michelle.Masi@noaa.gov](mailto:Michelle.Masi@noaa.gov)

# < 2021: Total SEFHIER Data

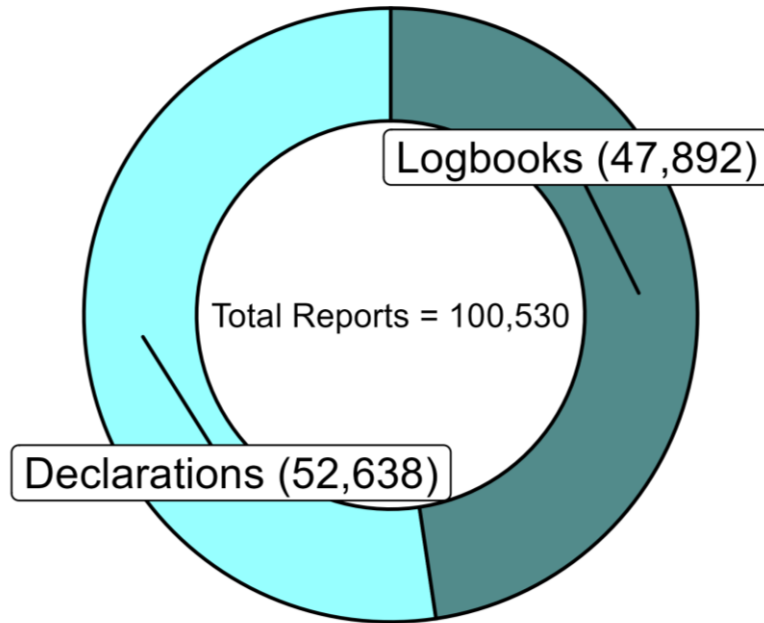


# Number of SEFHIER Reports (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)

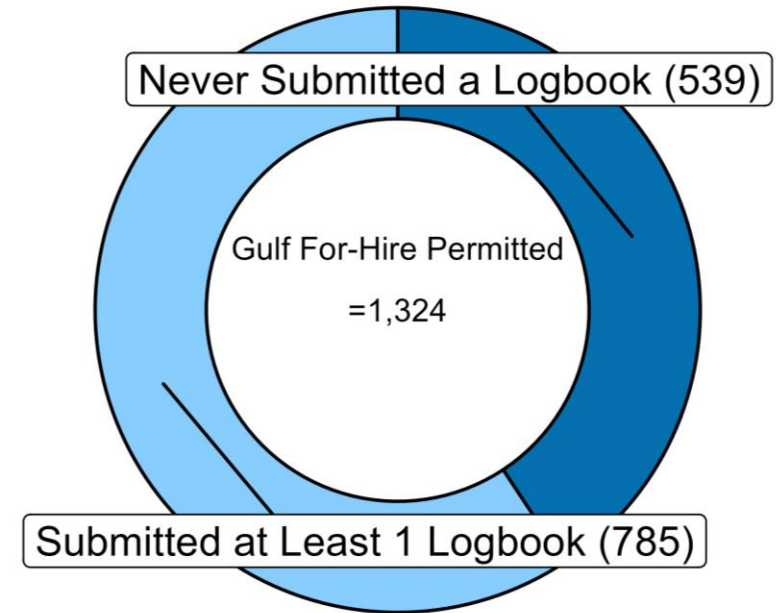
Gulf Permitted Vessels  
That Declared At Least 1 Time



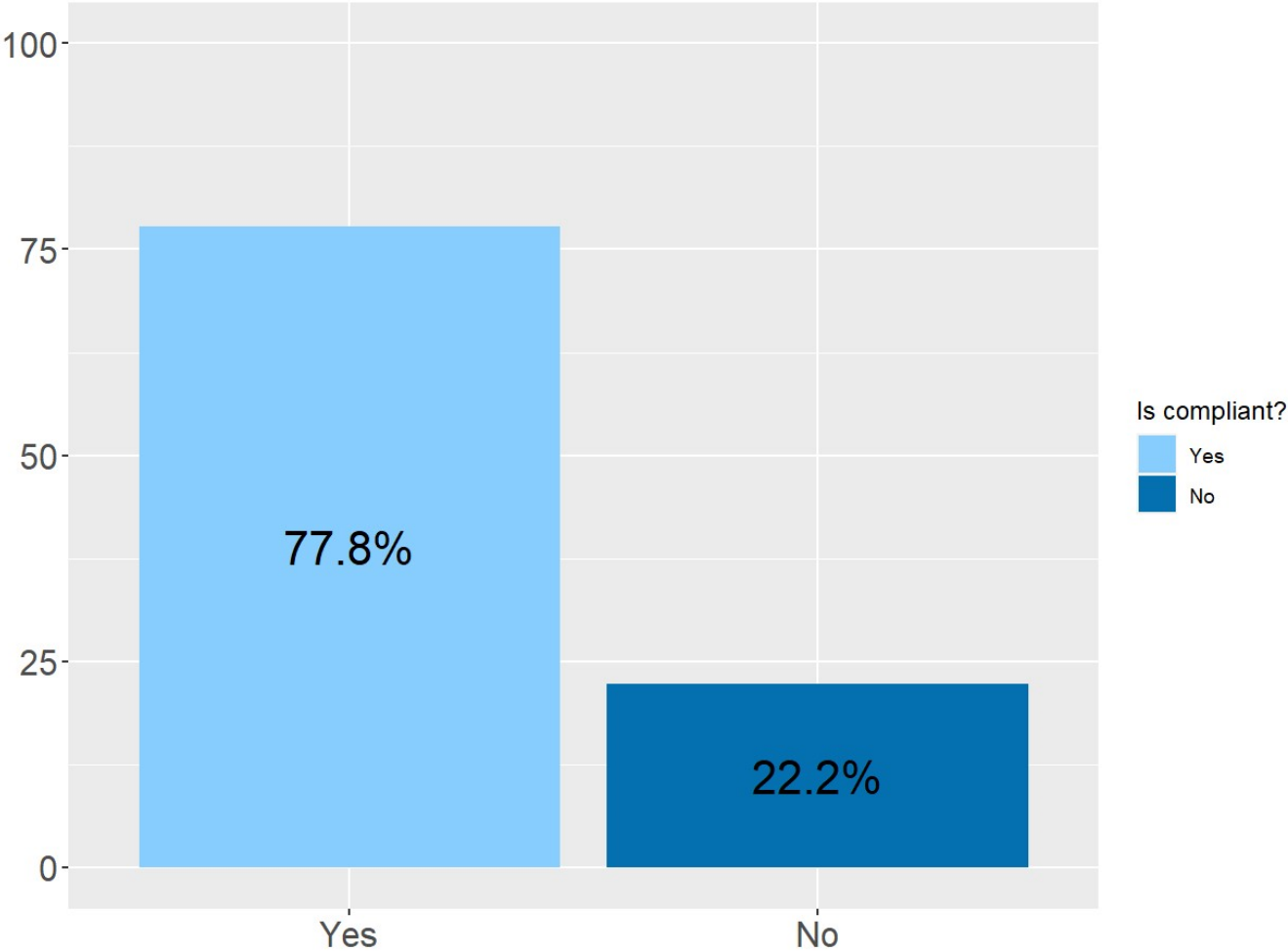
SEFHIER Reports  
(from Gulf For-hire Permitted)

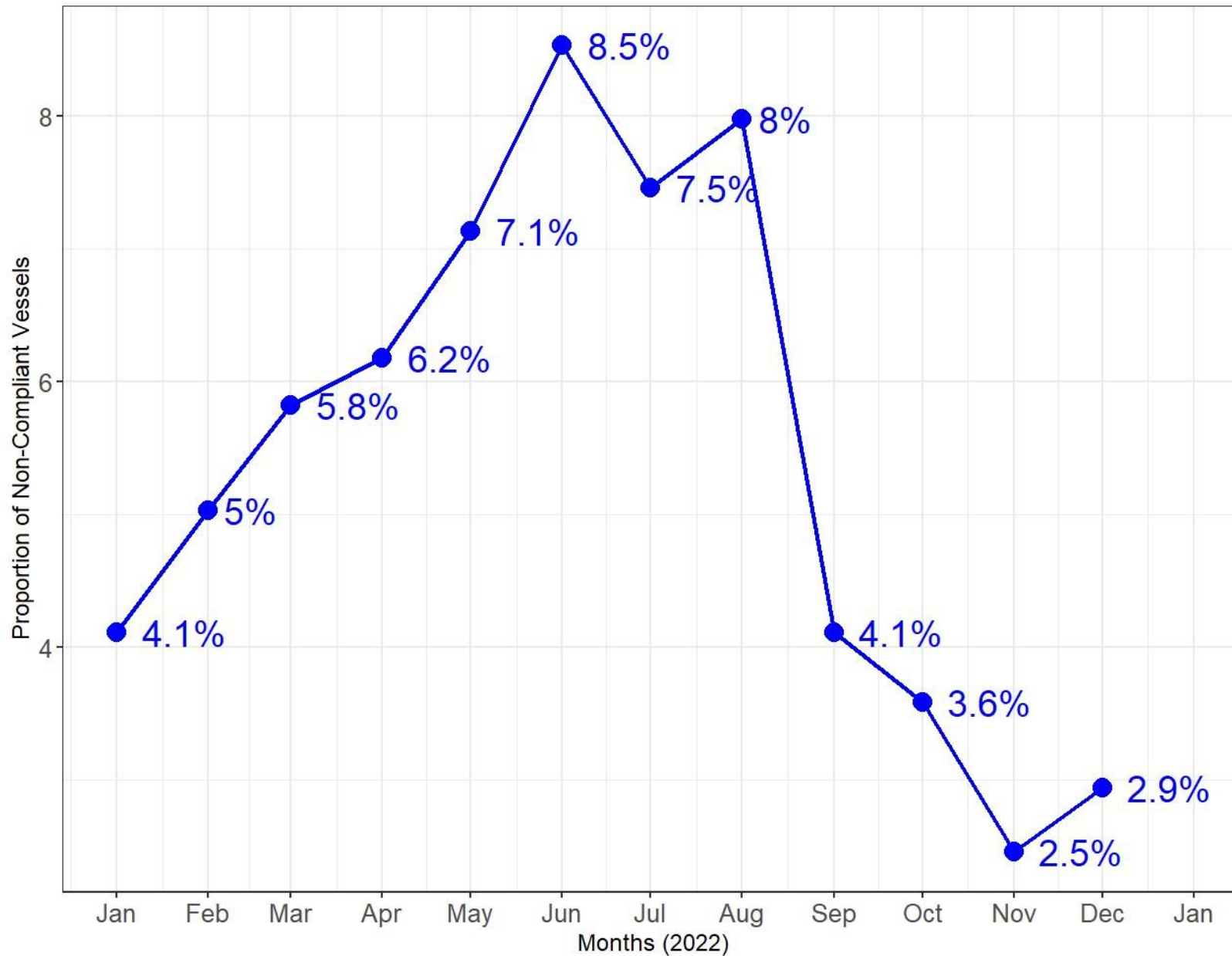


Gulf Permitted Vessels  
Fishing and Not Fishing



# Percentage of Compliant vs Non-Compliant Vessels, with Regard to Reporting (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)





## Percent Non-Compliant Vessels, by Month

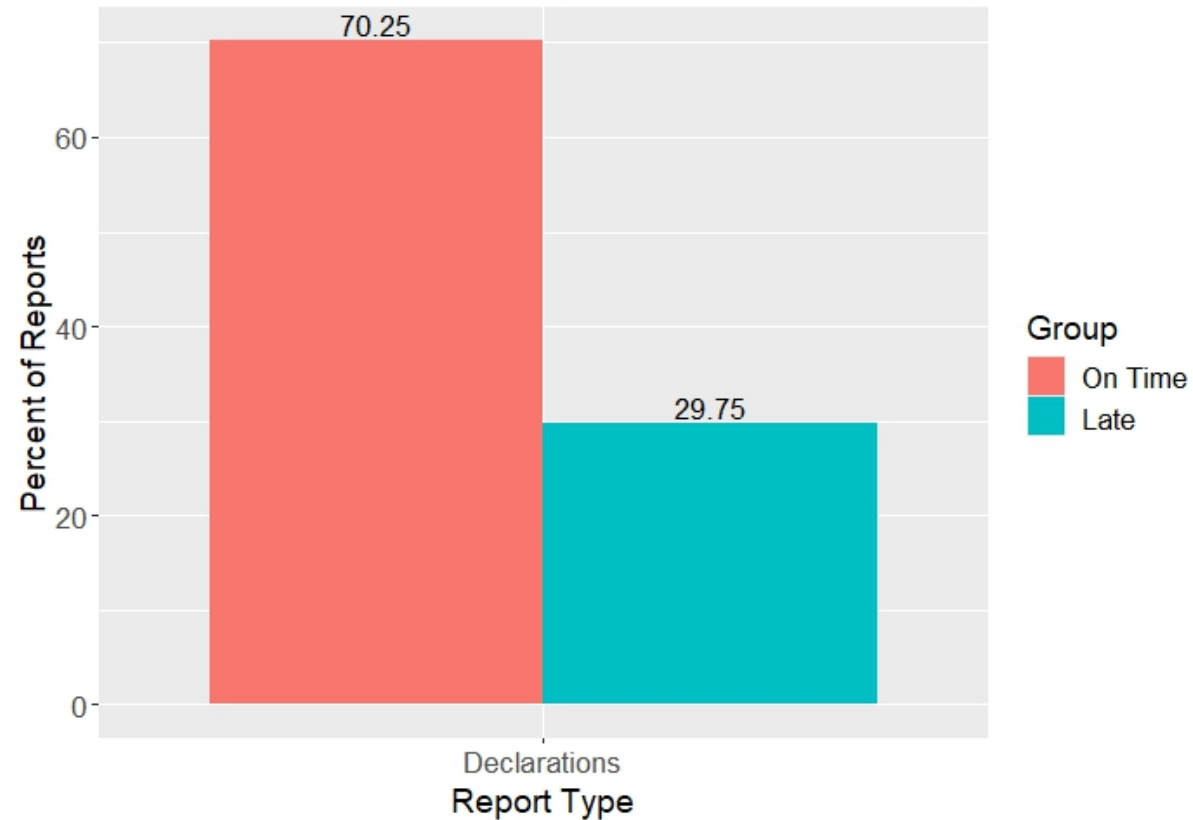
\*Out of ~1300, Gulf Permitted Vessels



# Analyzing Late Reporting (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)

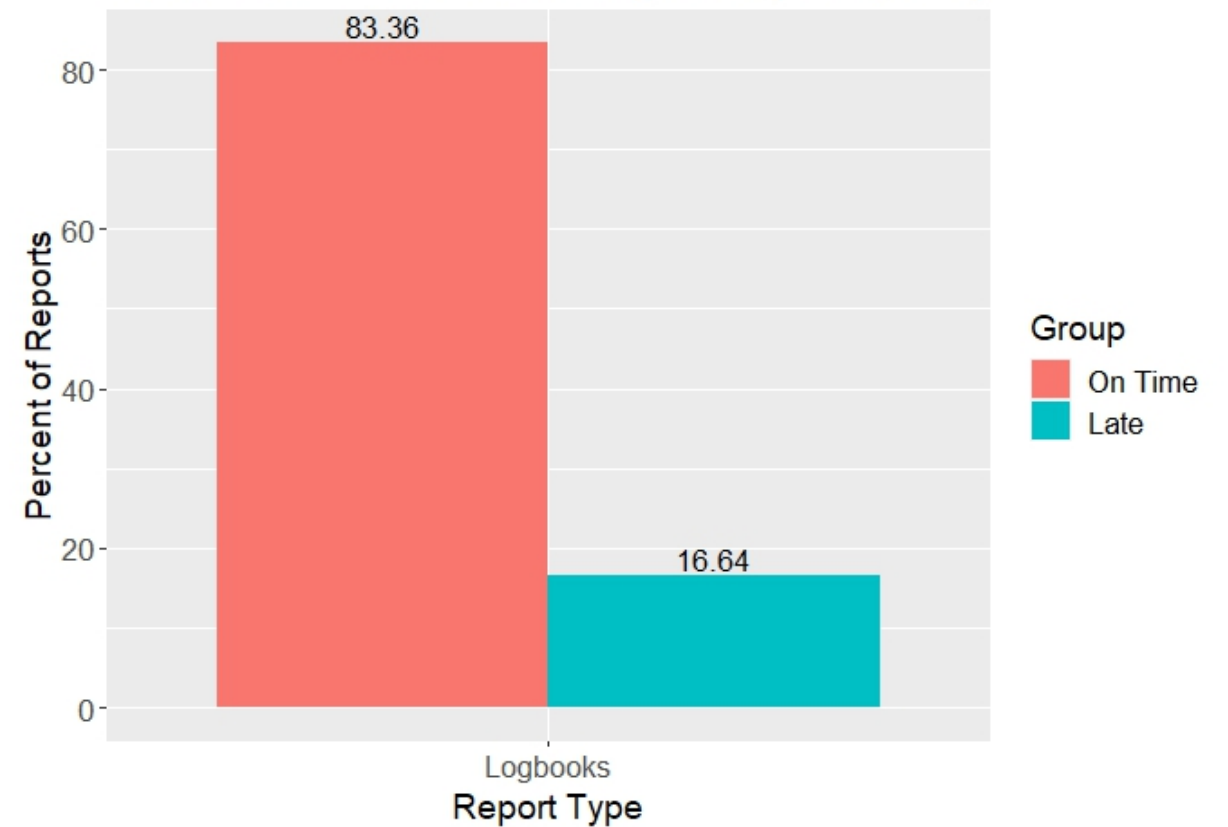
\*Late = transmission > trip start date/time

Percent of On Time vs Late Declarations (GOM, 2022)

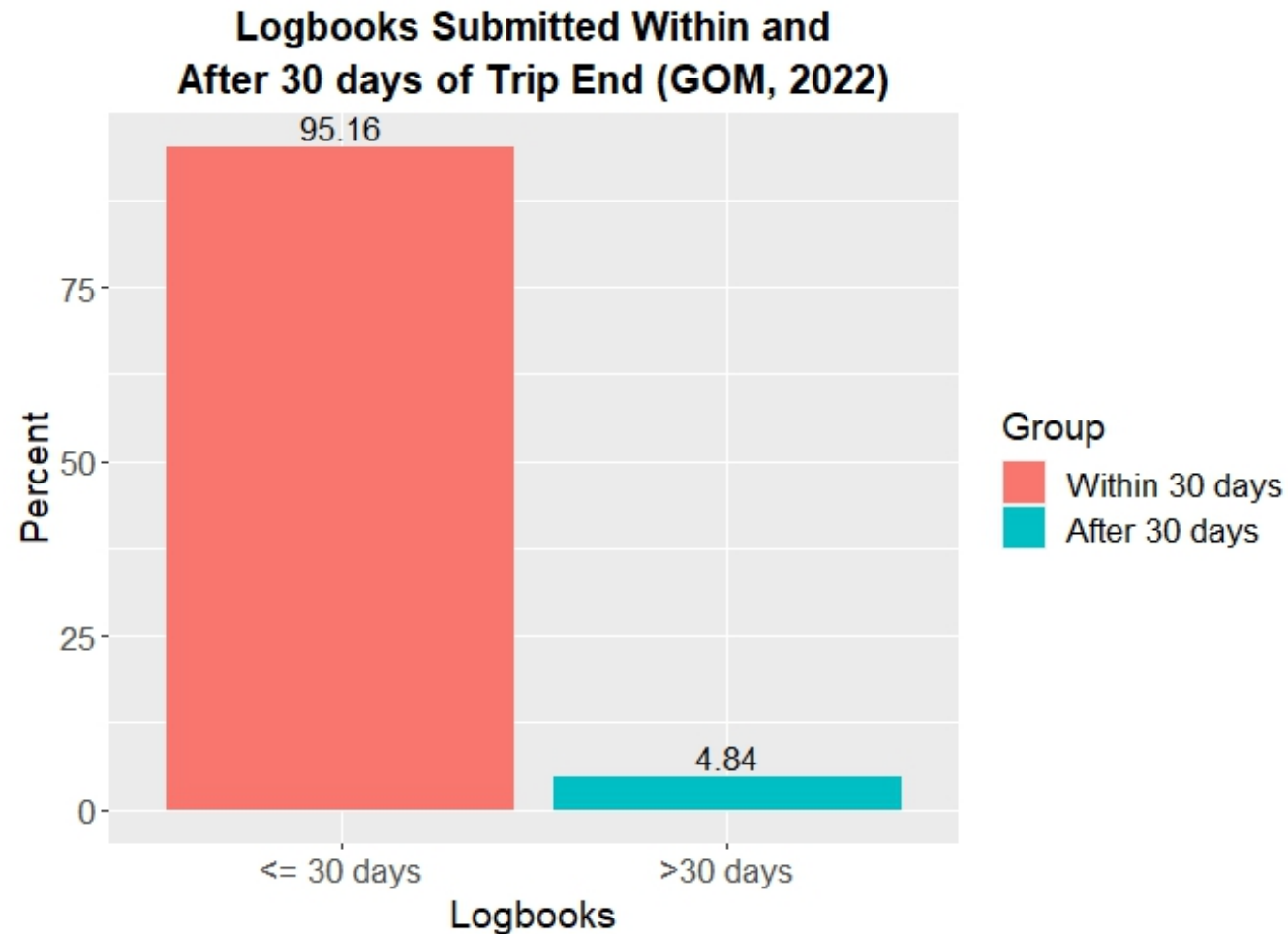


\*Late = transmission > 24 hours after trip end date/time

Percent of On Time vs Late Logbooks (GOM, 2022)

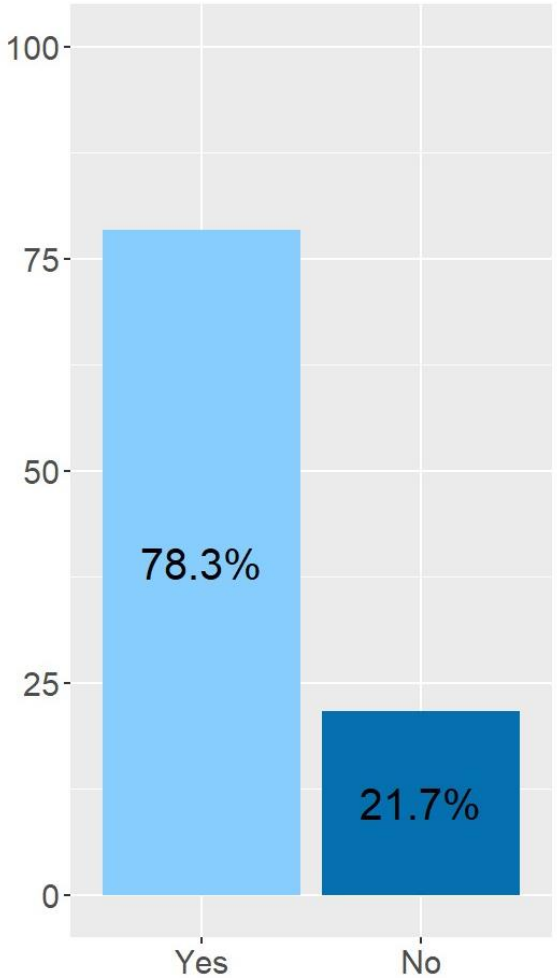


# Percentage of Logbooks Submitted > 30 days of the Trip Ending (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)

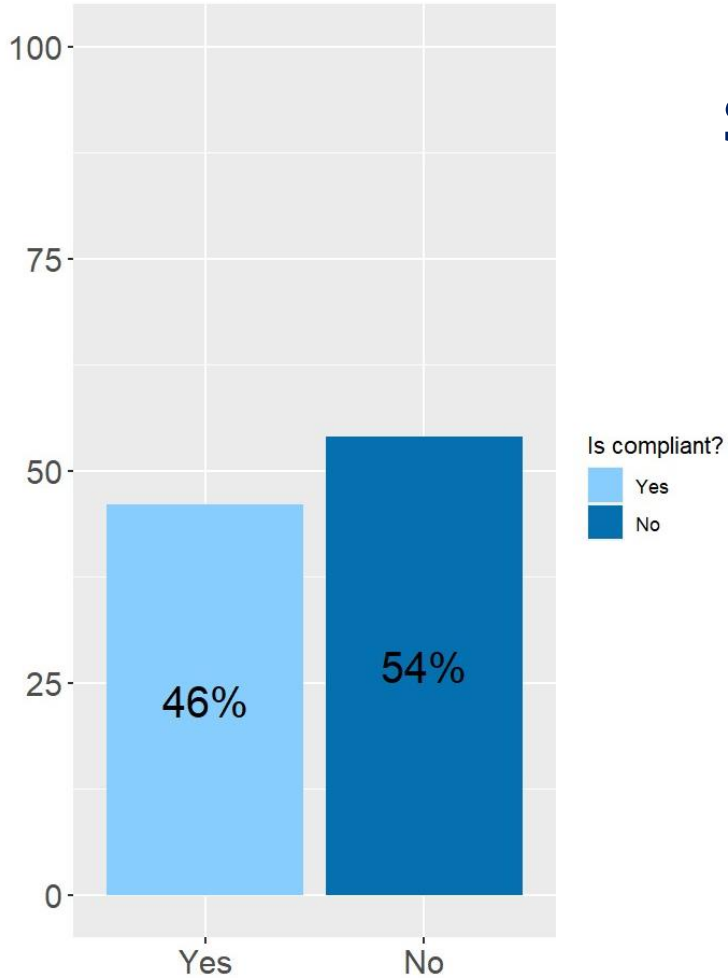


# Comparing Gulf SEFHIER Compliance to the South Atlantic SEFHIER Program (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)

Gulf Program  
\*(~1300 permits)

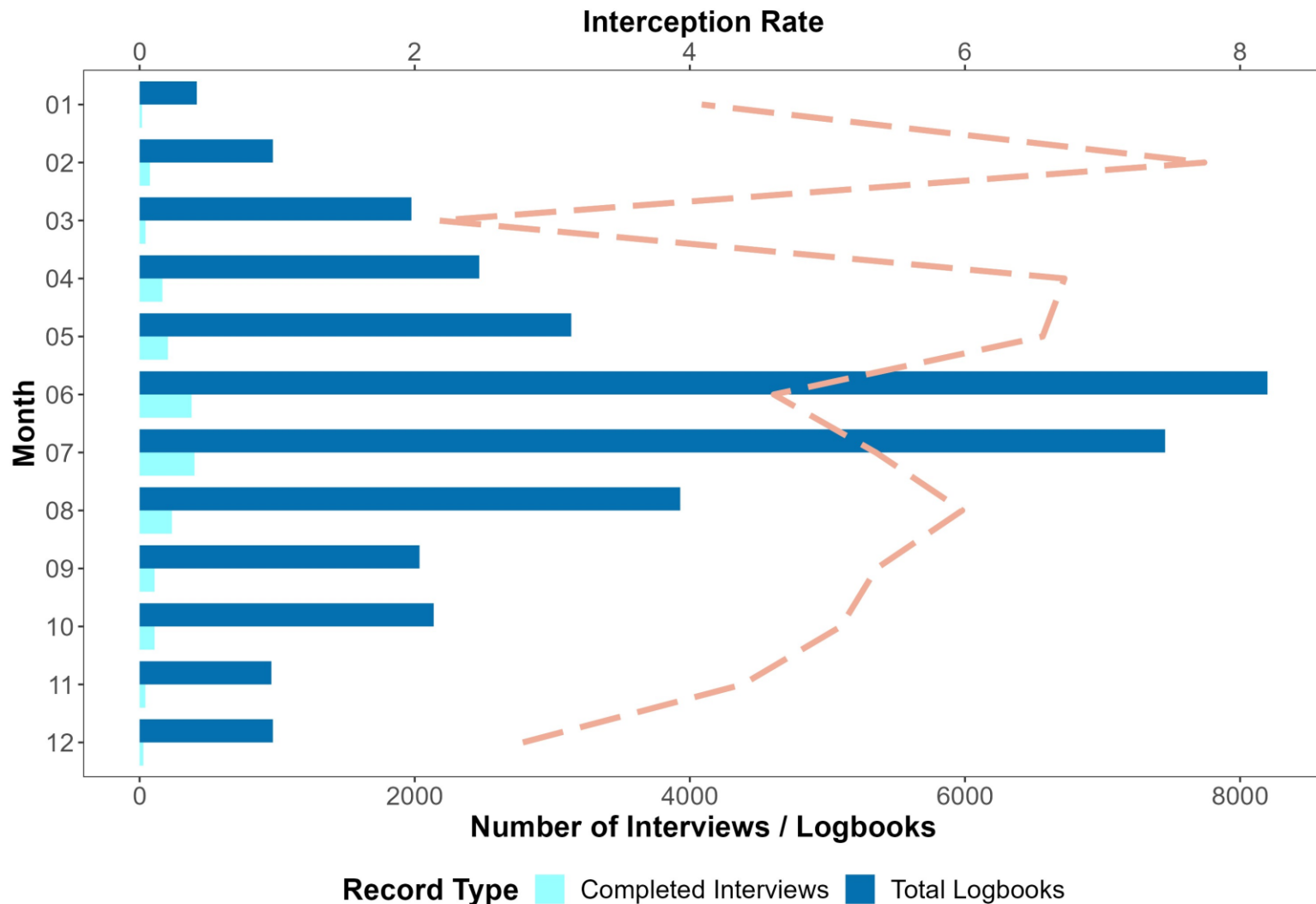


South Atlantic  
Program  
\*(~2200 permits)



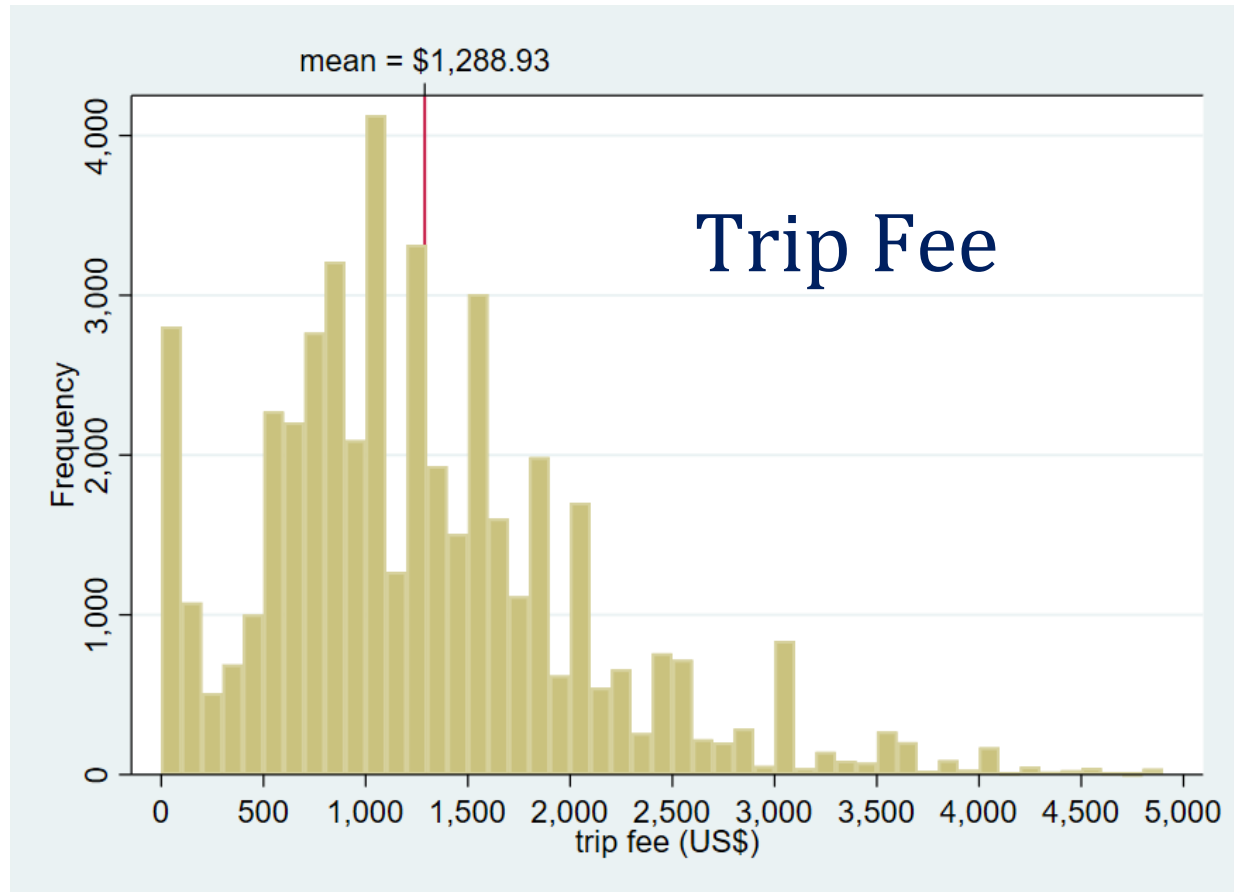
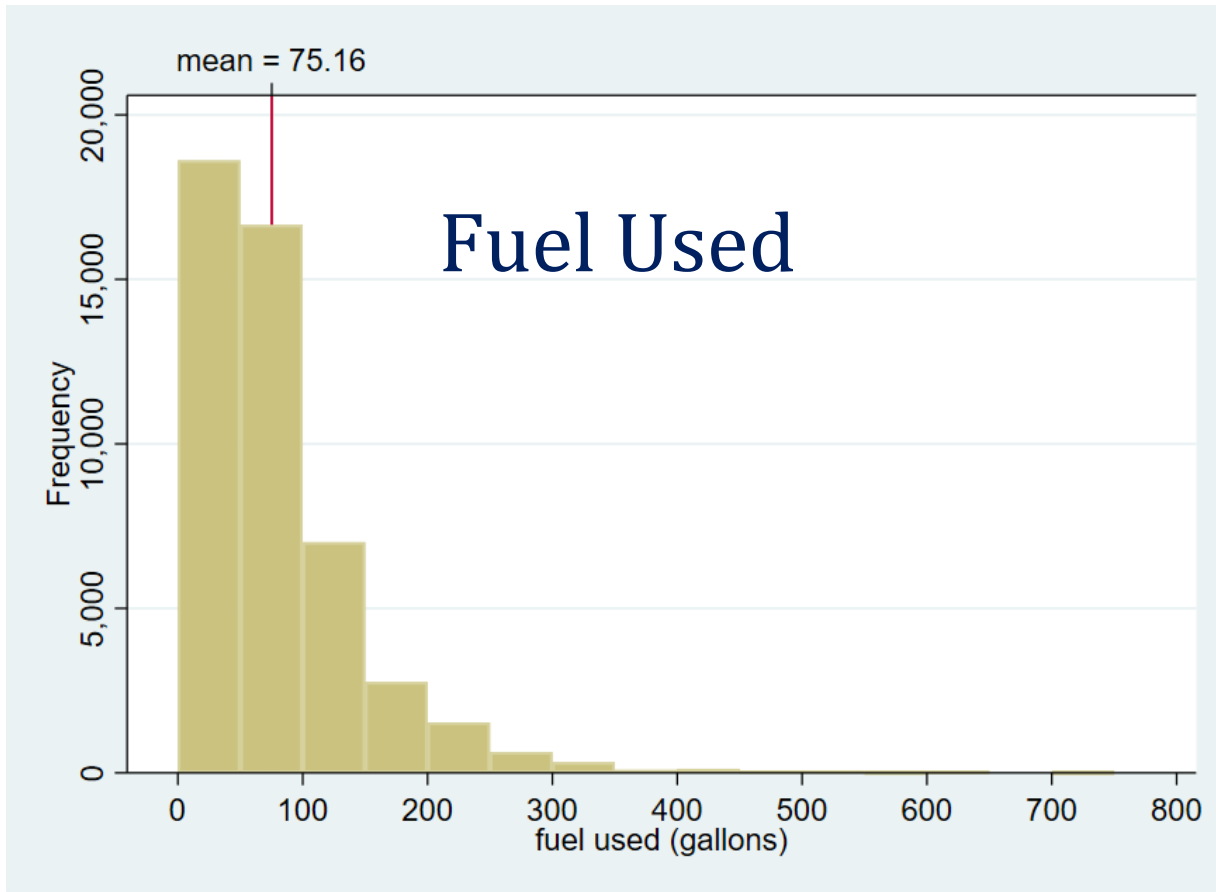


# Completed Validation Survey Interviews, Out of Total Logbooks (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)



**2022 SEFHIER  
Validation Survey  
Interception Rate:  
5.2%**

# Frequency of Values Reported, for Economic Data Fields (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)



\*Data values reported by < 3 vessels were removed, for privacy



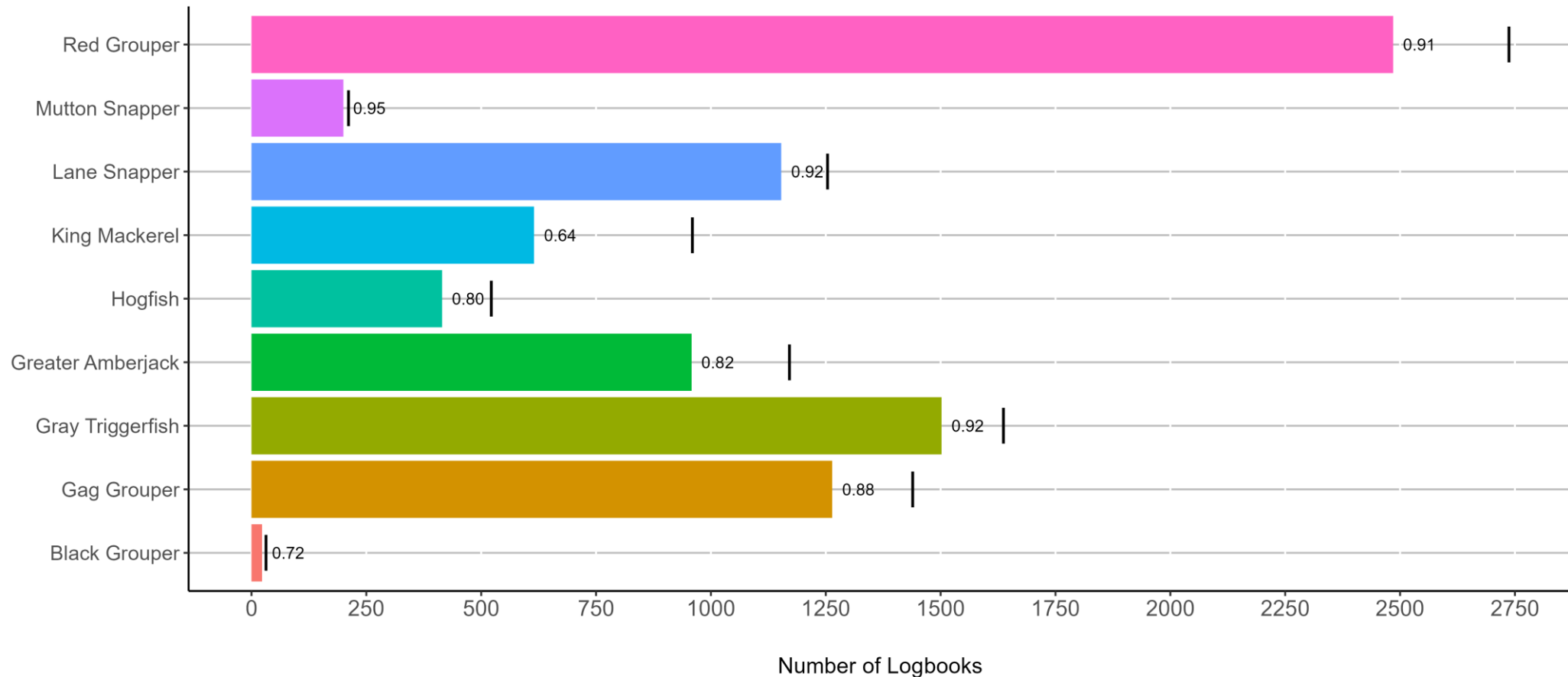
## *SEFHIER Data Analysis Caveats*

- ❖ Analyses are using raw SEFHIER data – no accounting of missed or non-reported trips
- ❖ SEFHIER data has not been calibrated to, or validated against, MRIP
- ❖ SEFHIER data only includes federal data, whereas MRIP includes all for-hire data (including state-only permitted charter trips)
- ❖ The following SEFHIER effort data is provided in units of “vessel-trips”, whereas MRIP effort is given in units of “angler-trips” – therefore these analyses are not directly comparable to MRIP

# Of the Trips Targeting a Species, Did They Catch That Species? (an approximation of relative effort; where caught = retained + discarded)

## 2022: Number of Logbooks Catching a Species, Out of the Total Logbooks Targeting that Species

\*(Bar = Number Caught ; Vertical Line = Number Targeted)



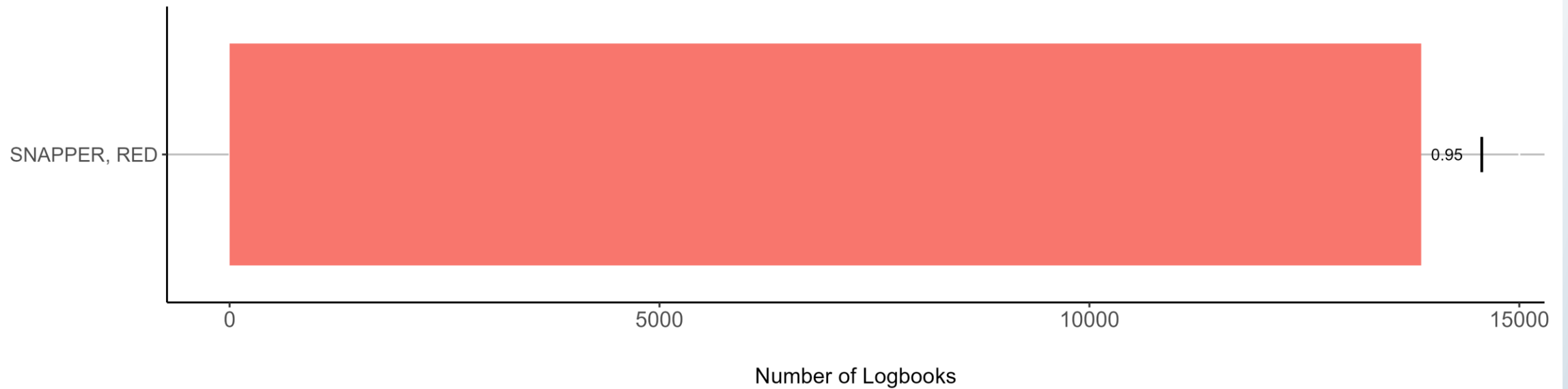
(Based on Gulf permitted vessel logbooks, from 2022)



# Of Trips Targeting Red Snapper, Did They Catch Red Snapper? (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)

## 2022: Number of Logbooks Catching Red Snapper, Out of the Total Logbooks Targeting Red Snapper

\*(Bar = Number Caught ; Vertical Line = Number Targeted)

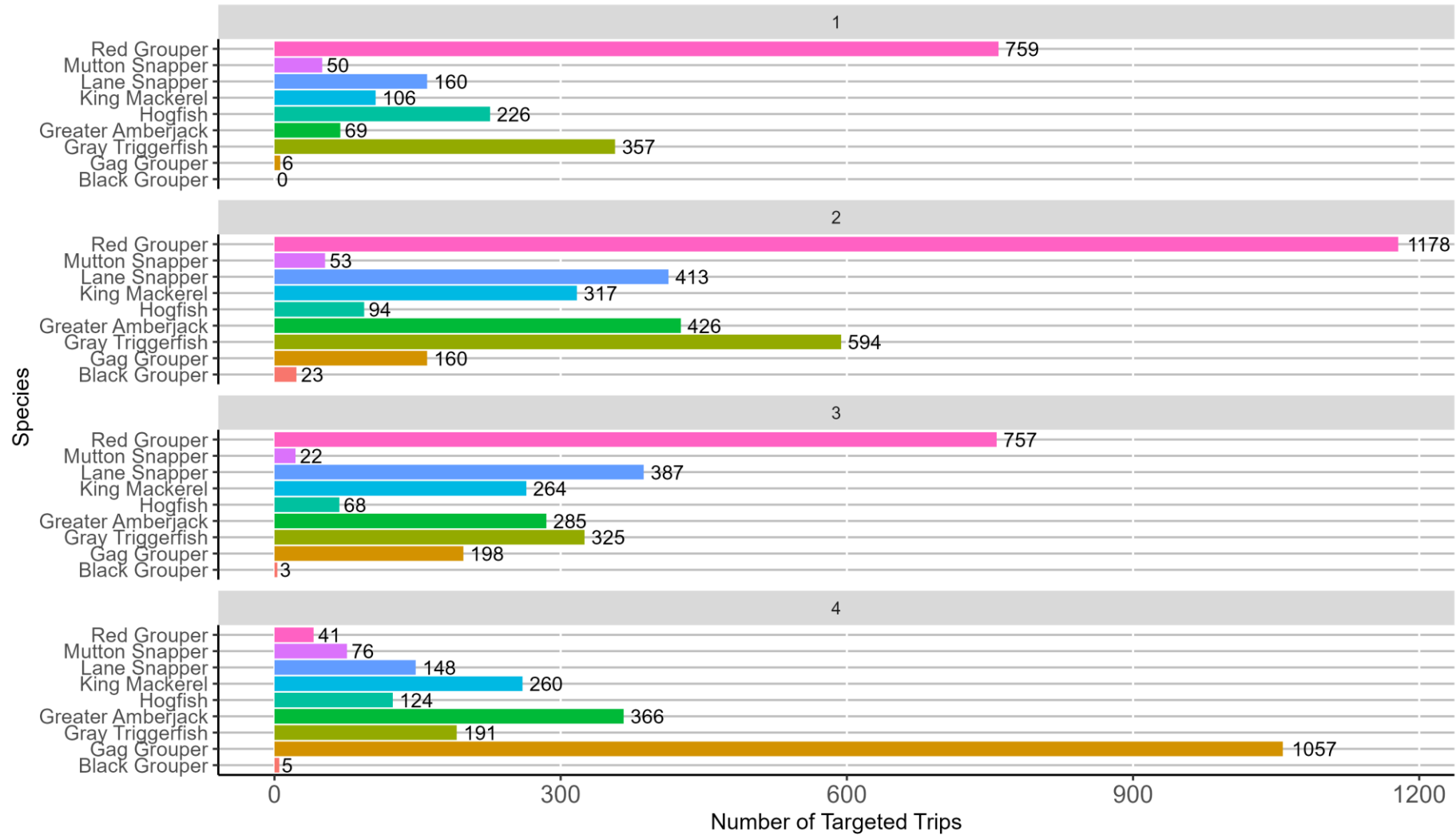


(Based on Gulf permitted vessel logbooks, from 2022)



# Number of Targeted Trips, by Species & Quarter

## (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)

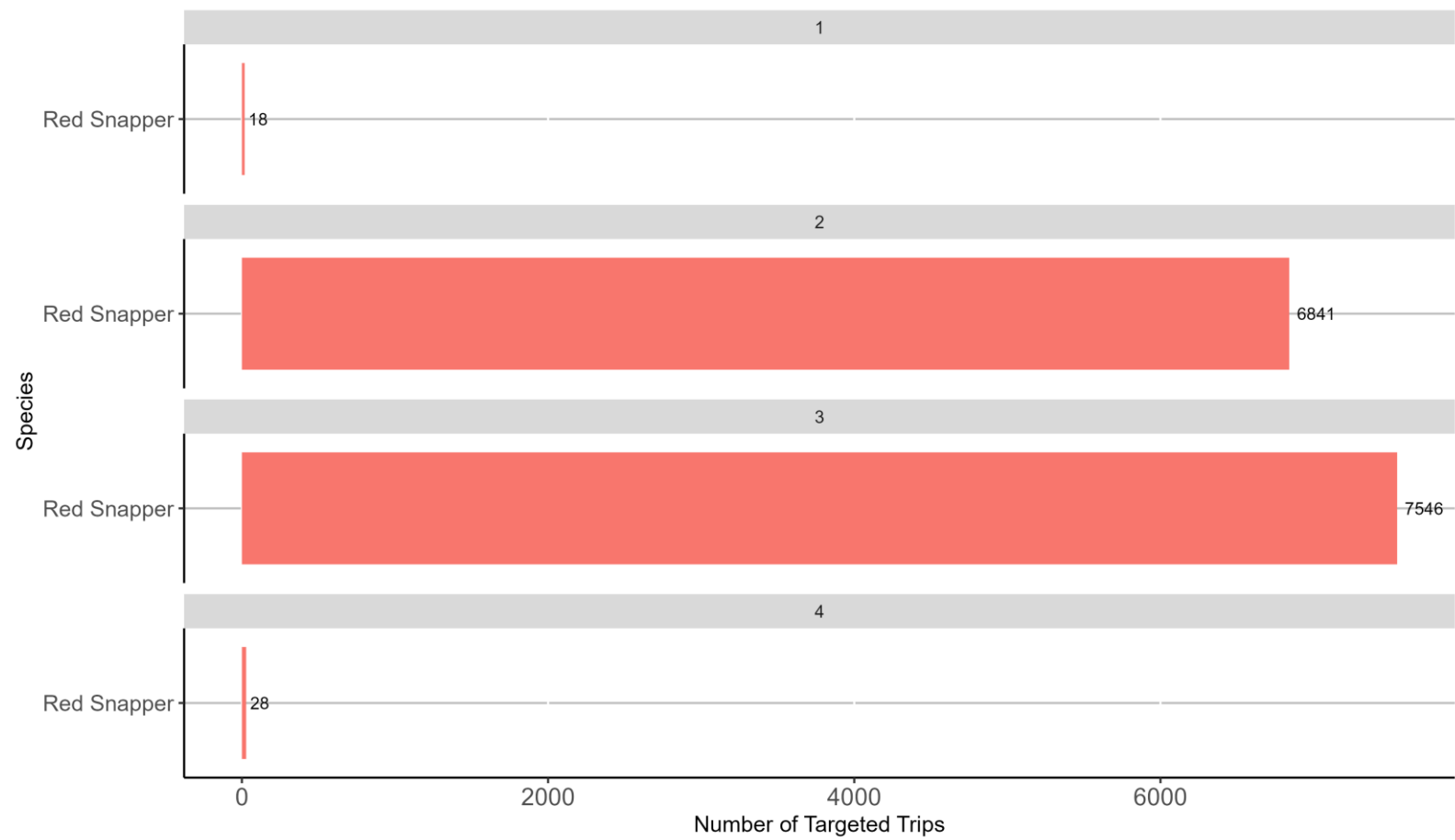


(Based on Gulf permitted vessel logbooks, from 2022)



# Number of Targeted Trips, by Species & Quarter

## (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)

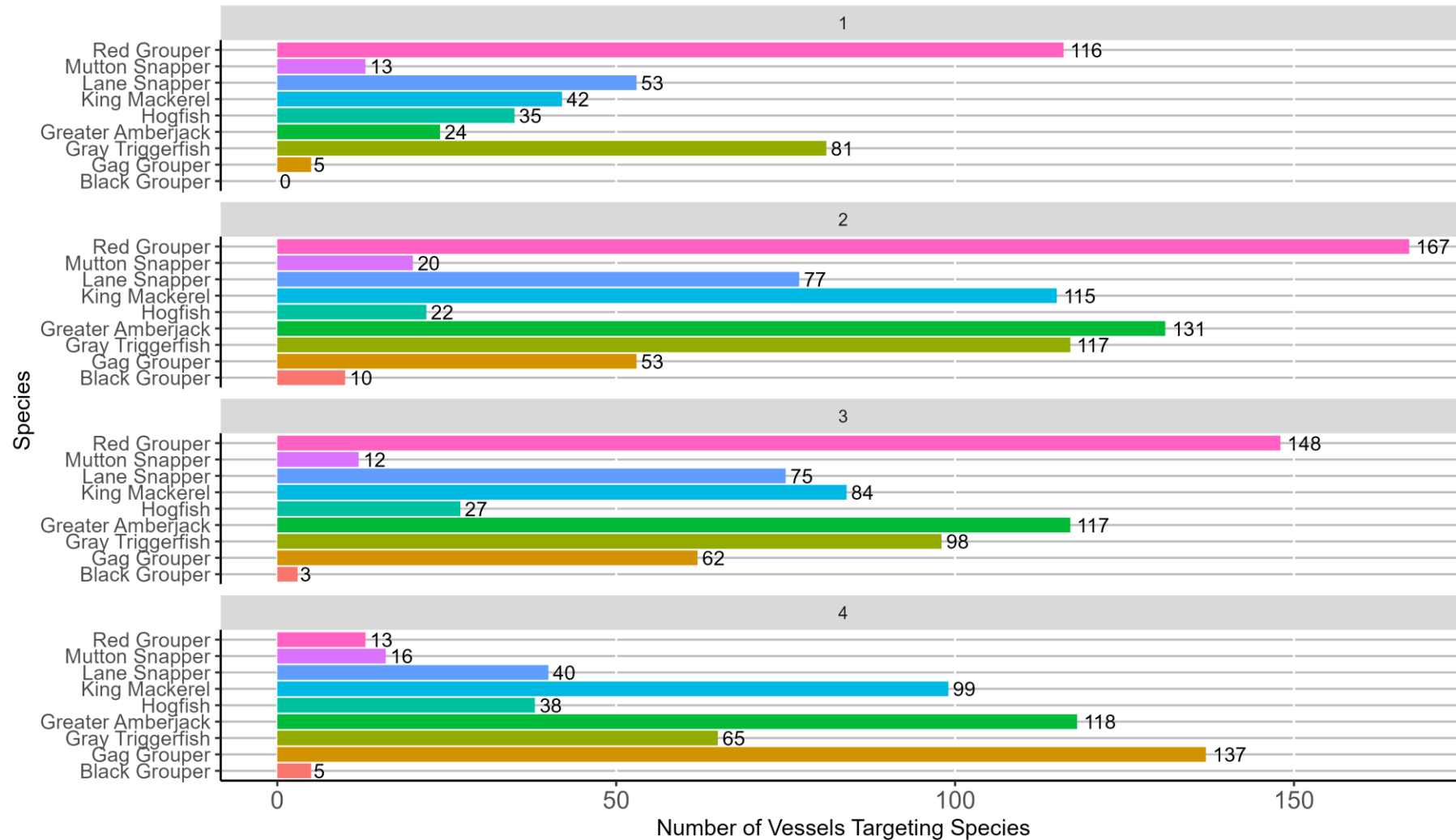


(Based on Gulf permitted vessel logbooks, from 2022)



**NOAA**  
FISHERIES

# Number of Vessels Participating in Each Fishery, by Quarter (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)

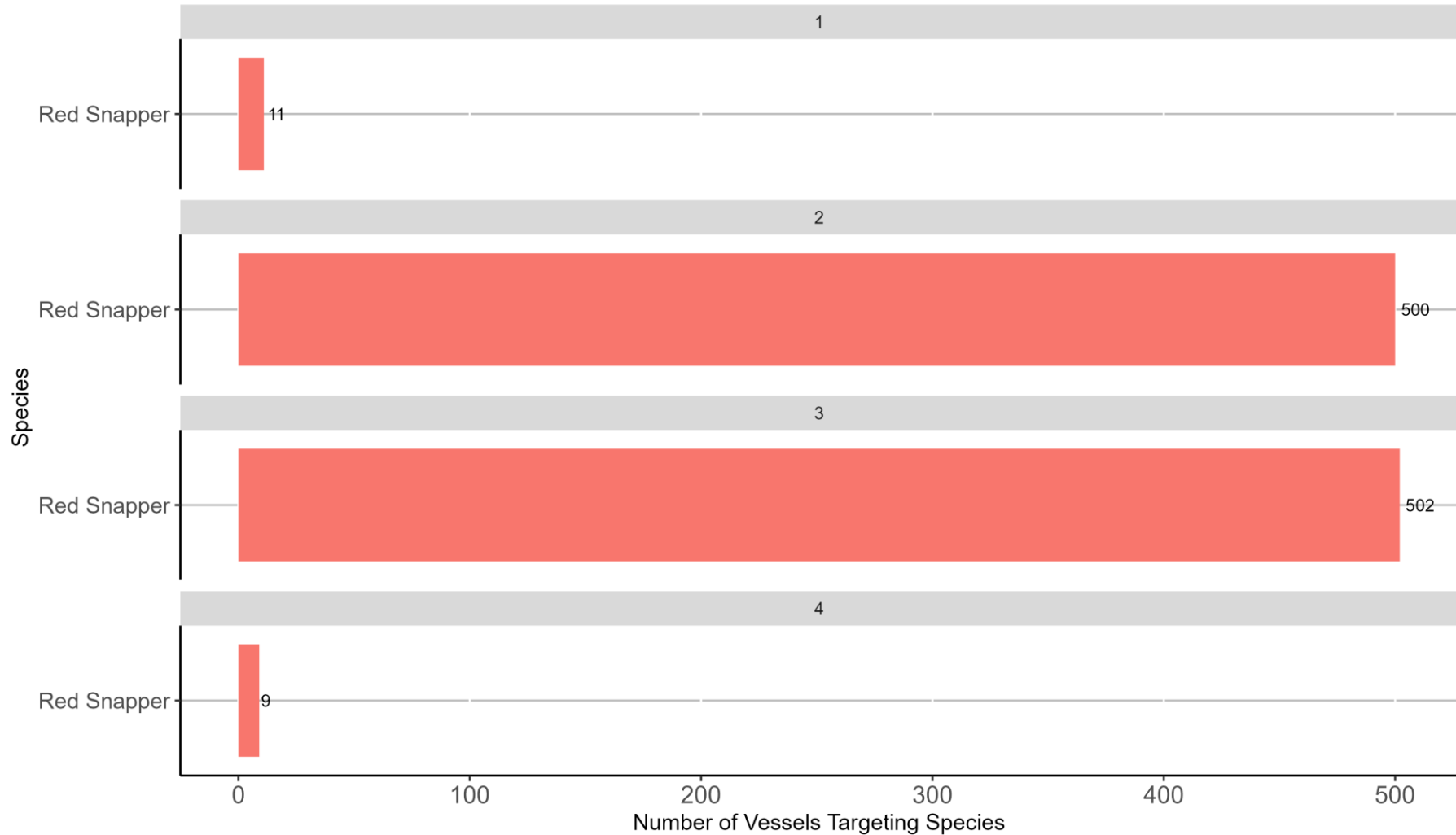


(Based on Gulf permitted vessel logbooks, from 2022)





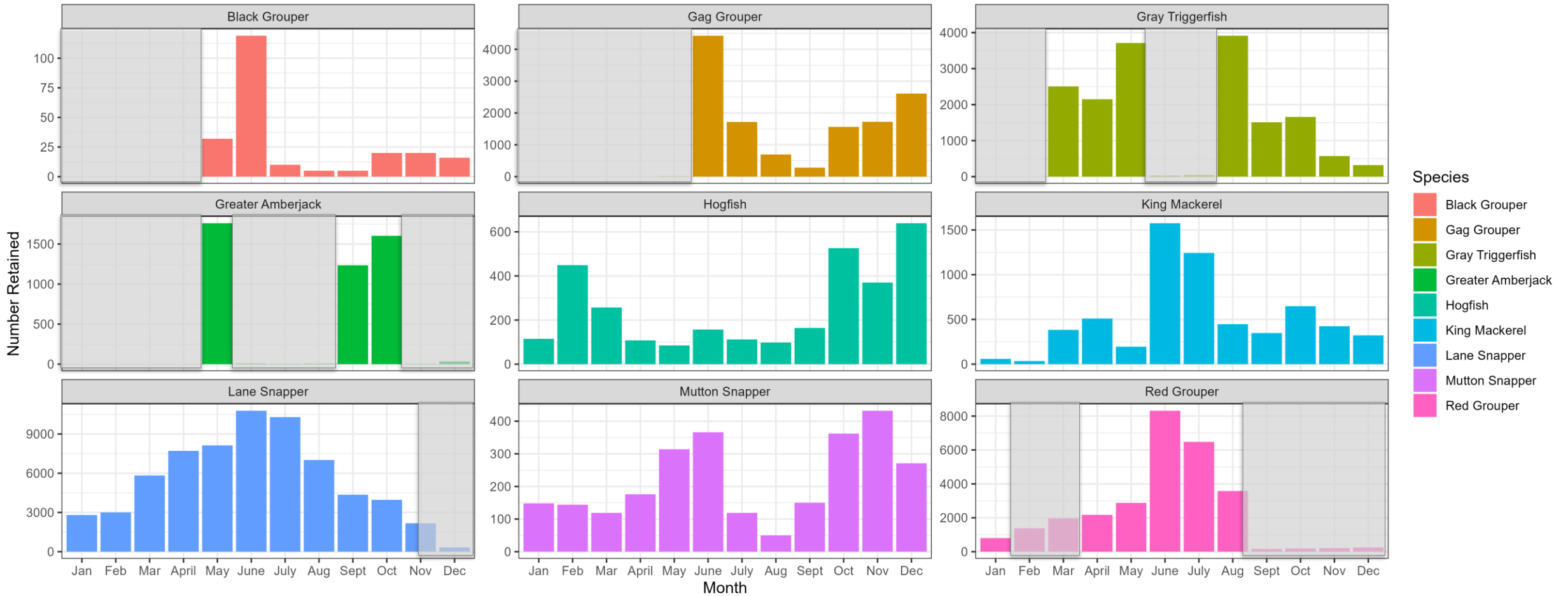
# Number of Vessels Participating in Red Snapper Fishery, by Quarter (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)



(Based on Gulf permitted vessel logbooks, from 2022)

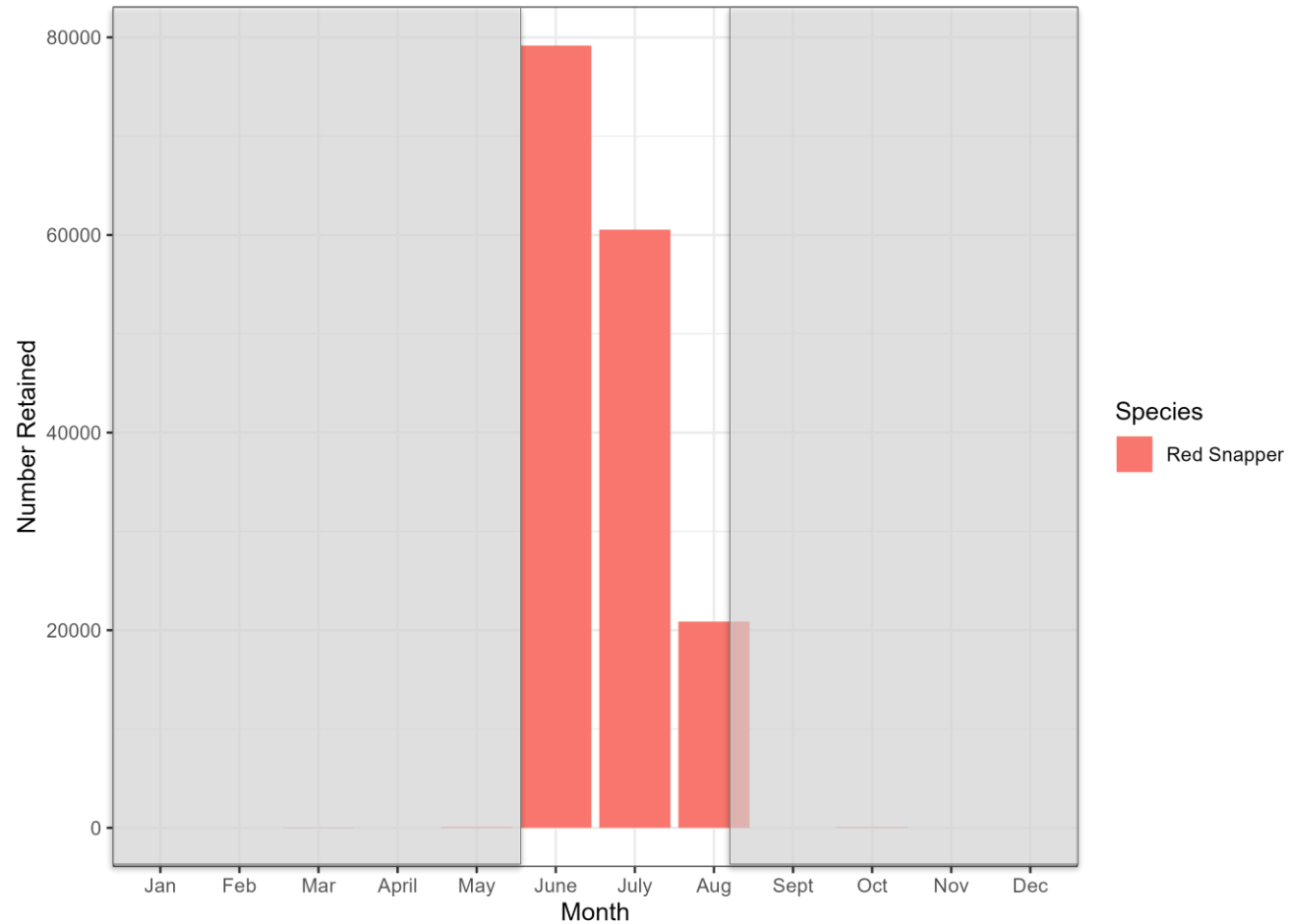


# Trend in Retained Catch (Numbers), Across Months (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)



(Based on Gulf permitted vessel logbooks, from 2022, removing months with < 3 vessels reporting)

# Trend in Retained Red Snapper (Numbers), Across Months (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)

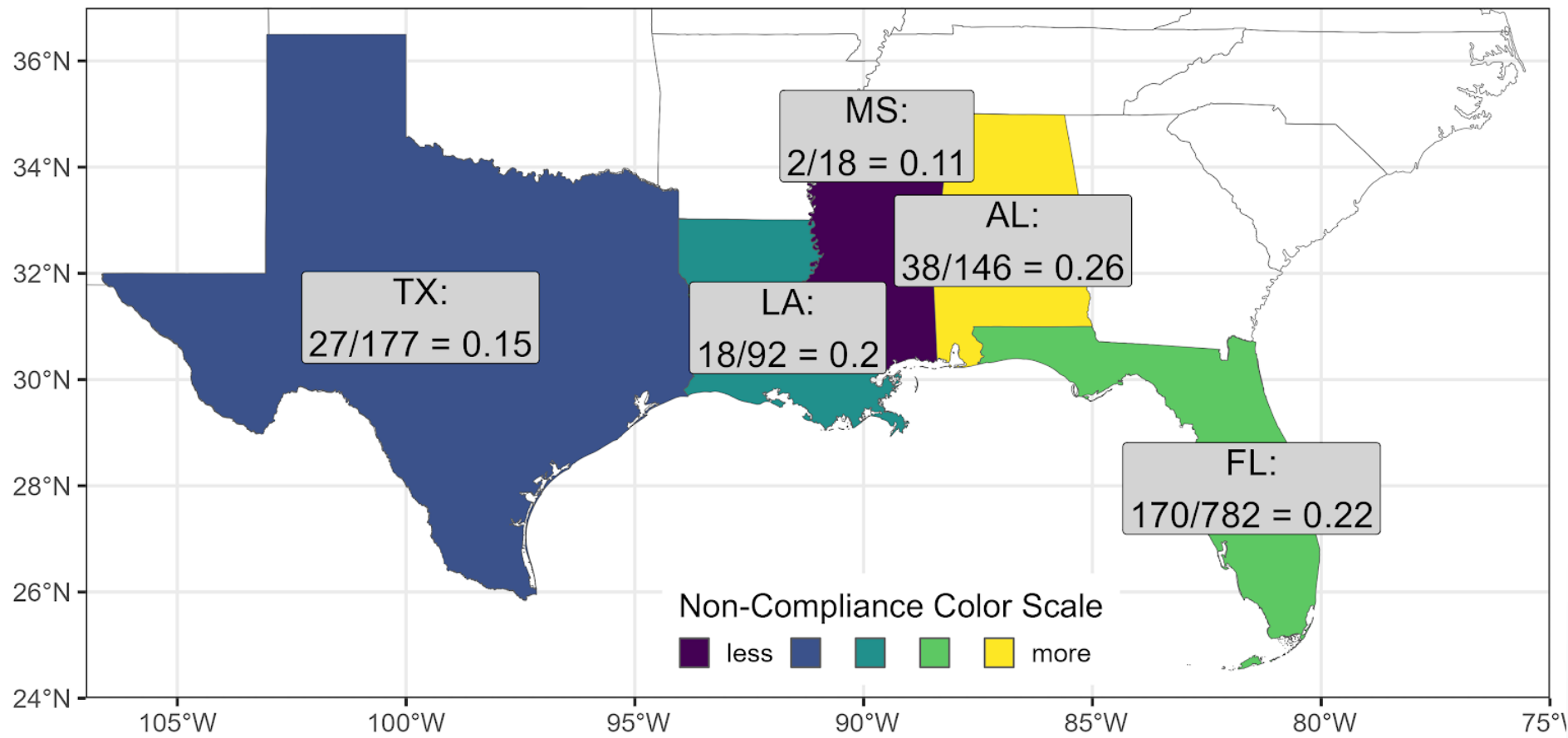


(Based on Gulf permitted vessel logbooks, from 2022, removing months with < 3 vessels reporting)



# Gulf Council Requested Analyses: Areas of Non-Compliance (2022 Logbook Data: Gulf SEFHIER Permitted Vessels)

Proportion of Non-compliant, Gulf Permitted SEFHIER Vessels by Homeport State



# Gulf Council Requested Analyses: Vessel Movement Patterns

## (Homeport County/State/Region to End Port County/State/Region)

*Data Caveats: Homeport is based on permit information, pulled on 1/2/24. Not all homeports are within a coastal county. Analysis is by vessel, not by trip – vessels are counted if at least 1 trip occurred outside a homeport region.*

- ❖ How many vessels have a different homeport county than end port county?
  - Numbers, by quarter: 25 (Q1); 109 (Q2); 102 (Q3); 50 (Q4)
  - The higher values in the 2<sup>nd</sup> and 3<sup>rd</sup> quarter may be from an increase in participation (tourist season), or an increase in vessels relocating to tourist “hot spots”
- ❖ How many vessels have a different homeport state than end port state?
  - Numbers, by quarter: 3 (Q1); 31 (Q2); 27 (Q3); 10 (Q4)
  - In general, most differences were between adjacent states, though large geographical differences may be due to permit transfers that occurred within 2022
- ❖ How many vessels have a different homeport region (Gulf) than end port region (S. Atlantic)?
  - 3 vessels, in 2022
  - Analysis excludes vessels with homeports in Monroe County

# Gulf Council Requested Analyses: Vessel Movement Patterns

(Based on Data Reported in the Area Fished Field, from Gulf Permitted Vessel Logbooks)

*Data Caveats: Homeport is based on permit information, pulled on 1/2/23. Not all homeports are within a coastal county.  
Analysis is by vessel, not by trip – vessels are counted if at least 1 trip occurred outside a homeport region.*

*This analysis counts a vessel if it made at least one trip in the Gulf and at least one in the South Atlantic, in 2022.*

- ❖ How many Gulf permitted SEFHIER vessels fish in both the Gulf and South Atlantic?
  - Numbers, by quarter: 13 (Q1); 14 (Q2); 15 (Q3); 13 (Q4)
  - There are ~281 dual Gulf and South Atlantic/Atlantic permitted for-hire vessels in 2022



# Key Takeaways

## ❖ 2022 = Overall, Gulf SEFHIER program compliance was reasonably good

- >100k trip reports received
- >91% of vessels were compliant each month
- 83% of logbooks submitted within 24 hours of trip ending
- <5% of logbooks submitted >30 days of trip ending
- 84% of vessels were VMS compliant (by the end of 2022)



## ❖ The South Atlantic SEFHIER program, has a much higher % of non-compliant vessels (54%), in 2022

## ❖ Without VMS, a comprehensive trip validation program is needed to determine non- or misreporting vessels

# Special Thanks!!



## ❖ Data Analysts:

Jenny Ostroff, Anna Shipunova, Dominique Lazarre & David Records (SERO)

## ❖ Gulf For-Hire Electronic Reporting IPT members

## ❖ Our SEFHIER constituents!

SEFHIER customer service: 1-833-707-1632 (8:00-4:30 pm EST) or [selelectronicreporting@noaa.gov](mailto:selelectronicreporting@noaa.gov)





# Questions ?