

#### **NOAA** FISHERIES

Southeast Fisheries Science Center

## **SEFSC Weight Estimation**

South Atlantic Fishery Management Council meeting

March 5, 2020

### **SEFSC** weight estimation

- Ensures consistent weight estimation methodology across all years
- General methodology documented in SEDAR 22-DW-16 and SEDAR 32-DW-02
  - calculate average weights by strata
  - strata hierarchy: species, region, year, state, mode, wave, and area fished.
- Currently use new MRIP size datasets, including weights imputed by the survey program- since November 2018
- Change in minimum sample size from 30 to 15- Fall 2019



#### **Evaluation of minimum sample size**





#### Change in minimum sample size timeline

- New methodology presented to SA SSC at the MRIP Workshop- August 2019
- Incorporated into ACL files- September 2019
- Submitted to SEDAR 67 Gulf of Mexico vermilion snapper (SEDAR67-WP-06)- October 2019
- SEDAR 38 King Mackerel Update- Weight estimates provided using 15 minimum sample size-November 2019



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MRIP — SEFSC\_15 — SEFSC\_30



#### **Summary**

- Using a 30 minimum weight threshold does not significantly improve the standard error of weight estimates within strata compared to using 15.
- Using a 15 minimum weight threshold will result in more precise weight estimates within strata, as this will require less aggregation from coarser strata.
- The change from 30 to 15 will not lead to any systematic bias in weight estimates.



# Questions



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