

Summer Flounder, Scup, and Black Sea Bass Board Meeting







ASMFC Winter Meeting

Presentation Overview

- Background
- Timeline
- Technical Committee (TC) recommendations on methodology for adjusting 2022 recreational measures for summer flounder
- TC progress on developing standardized reduction tables for black sea bass
- Thompson Tau outlier analysis on MRIP harvest data for black sea bass
- Board Consideration:
 - Approval of methodologies for developing regional proposals for SF and BSB 2022 recreational measures
 - Discuss outlier analysis

Background

- December 2021: Board/Council adopted conservation equivalency for 2022 summer flounder and black sea bass recreational management
 - Summer Flounder: 16.5% liberalization in regional measures
 - Black Sea Bass: 28% reduction in regional measures
- Board/Council approved a one-inch increase in the scup rec minimum size for 2022
 - Expected to achieve a 33% reduction in harvest

Timeline



- **December:** Board/Council decided to pursue regional conservation equivalency to achieve the RHL.
- January: TC met to recommend guidelines for the states to use in developing regional proposals
- January-February: States in the process of collaborating to develop regional proposals.
- January Commission Meeting: Board approves a methodology for the states to use in developing regional proposals
- February 21: Regions submit proposals
- Late-February: TC reviews proposals
- Early March SFSBSB Board Meeting: Board reviews regional proposals, TC recommendations, and establishes final measures.
- March: Commission sends a letter to the Regional Administrator certifying the Board-approved measures, in combination, will achieve but not exceed the RHL.

Addendum XXXII: Summer Flounder

THE STATES COMMENDE

- 6 regions (MA, RI, CT-NY, NJ, DE-VA, NC)
- Rec measures for all states within a region will consist of the same size limits, bag, and season
- Measures should be adjusted unidirectionally
- Aim for minimal discrepancy in measures between bordering states

TC Recommendations on Summer Flounder Proposal Criteria

- Consider adjustments to bag, min or max size, season, and gear modifications.
- Liberalizations calculated in lbs
- Rec data should be pooled across 2018-2021
 2021 data should be included if available
- Measures may be split by mode
- Non-compliant harvest data still assumed to occur under new regulations

Summer Flounder Proposal Criteria

- TC recommends calculating liberalizations sequentially by measure change.
 - If liberalizations are calculated independently, the following interaction equation should be used:
 Total Liberalization = X% + Y% + (X% * Y%)

Example:

Lower min size increases harvest by 20%

Higher bag increases harvest by 15%

Final increase in harvest = 38%

Addendum XXXII: Black Sea Bass

LA FIRES COMMESS

- 3 regions (MA-NY, NJ, DE-NC)
- TC recommends how the coastwide harvest reduction is distributed among the regions
- States develop measures in a manner that ensures each state takes an equitable reduction.
- The Board should reduce interregional differences between measures when possible, taking into account regional differences in availability.

TC Recommendations on Black Sea Bass

- Tranting Common
- TC recommends restrictions to recreational regulations for black sea bass be applied equally across regions.
- TC recommends standardizing the reduction analysis to support coordination between states within regions.

Black Sea Bass Reduction Tables



- TC in the process of developing tables to standardize methodology for calculating reductions
- Final tables will apply the following criteria:
 Reductions are calculated in lbs
 - Analysis uses rec data from 2018-2020
 - 2021 may be used to inform length-frequency distributions
 - Non-compliant harvest assumed to still occur
 - Reductions are calculated sequentially (interaction equation not needed).



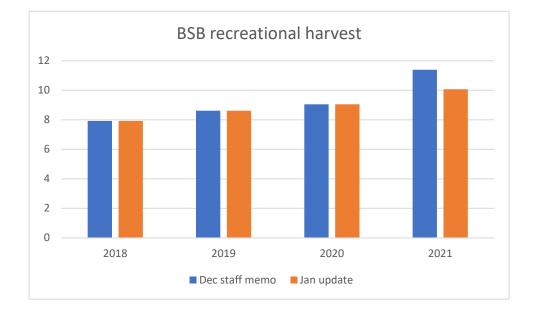
Summer Flounder, Scup, Black Sea Bass Management Board January 25, 2022

Background

- Rating Comments
- Board / Council motion to reduce recreational BSB harvest by 28% to achieve 2022 RHL (6.74M lbs)
- TC developing standardized methods to evaluate recreational management options
- Received updated 2021 harvest projections
- Noticed some apparent anomalies with MRIP harvest estimates
- Both could affect magnitude of required harvest reduction

2021 harvest projections

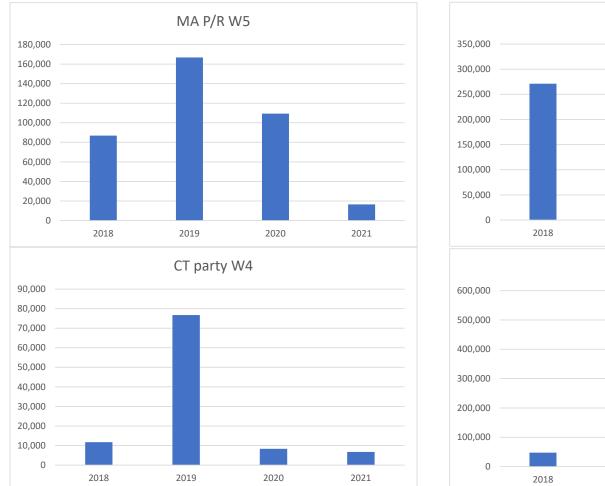
- Preliminary W5 data made available
- Replace previous W5 projection; re-estimate W6 projections

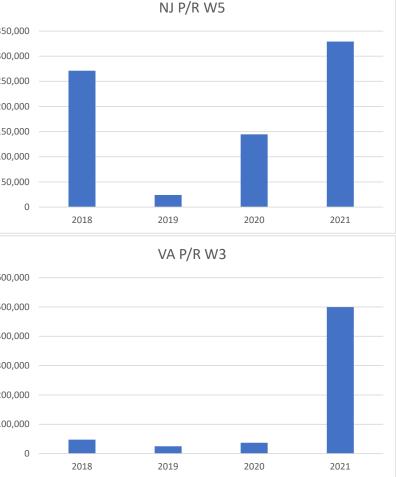


	Harvest (M lbs)		
	Dec staff memo	Jan update	
2018	7.92	7.92	
2019	8.61	8.61	
2020	9.05	9.05	
2021	11.33	10.07	
2022 RHL	6.74	6.74	
Redux needed	27.0%	24.4%	

Data evaluation

• Visual inspection of raw MRIP data identified potentially anomalous estimates





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Data considerations

 Regulations remained relatively unchanged from 2018 – 2021

 Expectation that harvest would be similar across years

- Possible reasons for anomalous values
 - Stock abundance / availability
 - Angler behavior
 - Sample size

Identification of outliers

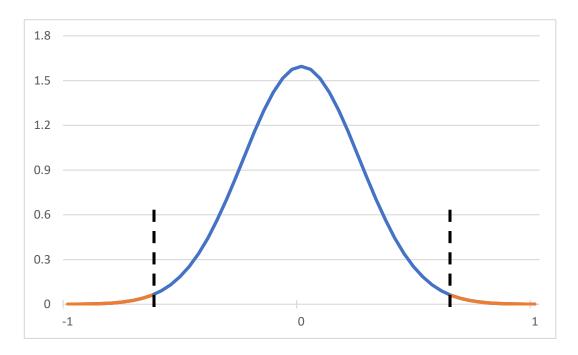
 Consider quantitative / statistical methods to identify outliers

 Revisit previous TC analysis to rescale NY and NJ 2017 party/charter estimates
 March 2018 meeting materials

• Modified Thompson's tau analysis

Thompson's tau

- Modified Thompson's tau analysis
 - Based on student's t-distribution
 - Identifies both high and low values
 - Can set probability level for detection



Treatment of outliers

- Thompson's tau only *identifies* outliers
- Several options for how to treat them
 - Keep them
 - Remove them entirely
 - Replace them
- If replacing them, need objective method to determine replacement value
- Have investigated several replacement methods, but still deliberating

Methods

- MRIP harvest data 2018-2021
 2021 W6 projected
- State/year/wave/mode
 - Consistent with 2017 analysis
 - Scaled values can be used in development of state management options
- Outliers evaluated at 80%, 90%, and 95% probabilities
- Replacement
 - Probability distributions that include/exclude outlier value
 - Next closest value, with/without scaling

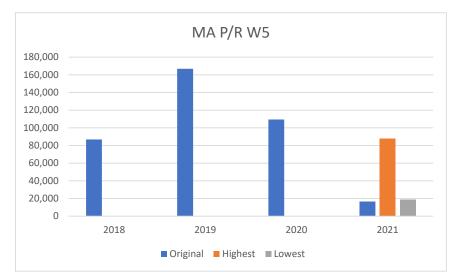
Preliminary results

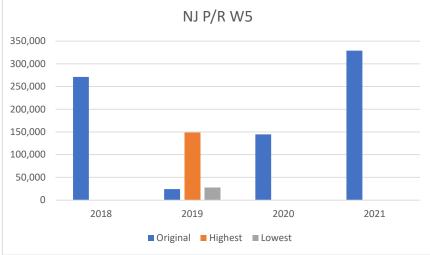
Number of outliers by year							
Year	Good	High	Low	Grand Total			
2018	110	1	10	121			
2019	111	3	9	123			
2020	110	6	4	120			
2021	99	8	12	119			

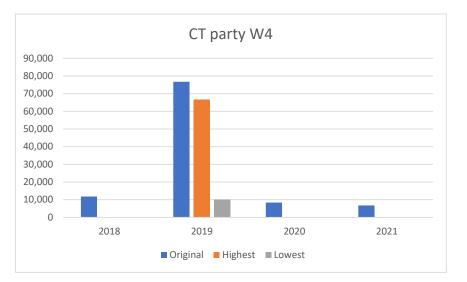
	Number of outliers by wave					
Wave	Good	High	Low	Grand Total		
1	3	1		4		
2	19		1	20		
3	115	8	9	132		
4	111	3	5	119		
5	107	2	11	120		
6	75	4	9	88		

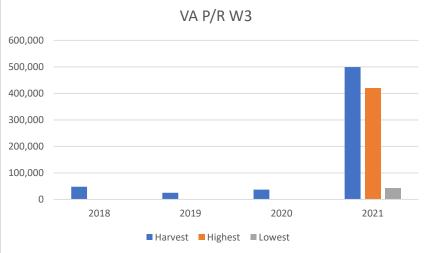
	Number of outliers by mode			
Mode	Good	High	Low	Grand Total
Charter Boat	119	5	12	136
Party Boat	119	4	9	132
Private/Rental	132	5	11	148
Shore	60	4	3	67

Preliminary results



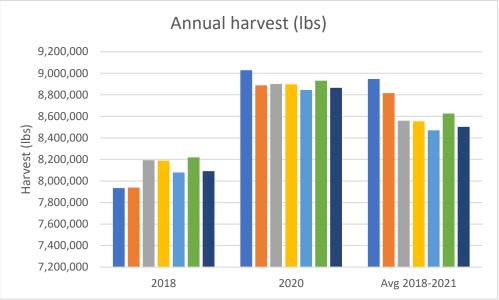


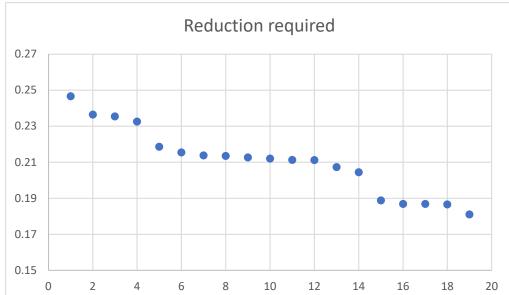






Preliminary results





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Items ready for Board consideration

- THE COMMS
- Consider approval of TC criteria for developing regional proposals for SF and BSB 2022 recreational measures
- Consider rescinding the December 2021 BSB recreational management motion
 - Consider tasking TC to discuss the Thompson Tau outlier and smoothing analysis and recommend a new reduction percentage for BSB

Revised Timeline for BSB

- Taitines counts
- **December:** Board/Council decided to pursue regional conservation equivalency to achieve the RHL.
- January: TC met to recommend guidelines for the states to use in developing regional proposals
- January Commission Meeting: Board approves methodology for developing regional proposals. Board rescinds December motion for BSB, and tasks TC with determining new percent reduction recommendation for BSB
- Late-January: TC meets to review outlier analysis and recommend a new percent reduction for BSB
- **February:** Board considers TC analysis and approves new reduction target % for BSB (via email vote/webinar meeting/defer to TC recommendation)
- February 8th Council Meeting: Council considers rescinding December motion
- February 21: Regions submit proposals
- Late-February: TC reviews proposals
- Early March SFSBSB Board Meeting: Board reviews state proposals, TC recommendations, and establishes final measures.
- March: Commission sends a letter to the Regional Administrator certifying the Board-approved measures, in combination, will achieve but not exceed the RHL.



Questions??

