# Summer Flounder 2024-2025 Recreational Measures 

## Council and Board

## December 12, 2023



MID-ATLANTIC|


## Council/Board Objectives

- Identify percent change needed under Percent Change Approach and associated harvest target
- Adopt either:
- Coastwide measures (bag, size, season)
- Conservation equivalency, with nonpreferred coastwide and precautionary default measures
- Provide any preliminary guidance on adjustments to state measures, if desired


## 2023 Recreational Measures

- Regional Conservation Equivalency
- State measures control harvest; federal measures waived
- Non-preferred coastwide measures
- Implemented in federal regulations, but waived
- 18-inches, 3 fish, May 15-Sept. 22
- Precautionary default
- "Deterrent" measures
- 20-inch TL, 2 fish, July 1-August 31


## 2023 State Measures

|  | Min. Size (in) | Bag Limit | Season |
| :---: | :---: | :---: | :---: |
| MA | 16.5 | 5 fish | May 21-September 29 |
| RI | 18 | 4 fish | May 3-December 31 |
| RI shore | 18 | 2 fish* |  |
|  | 17 | 2 fish* |  |
| CT | 18.5 | 4 fish | May 1-October 9 |
| CT Shore sites | 17 |  |  |
| NY | 18.5 |  |  |
| NJ | Slot limit 17-18 | 2 fish ${ }^{\text {b }}$ | May 2-September 27 |
| NJ | 18 | 1 fishb $^{\text {b }}$ |  |
| NJ shore site | 16 | 2 fish |  |
| NJ de bay | 17 | 3 fish |  |
| DE, MD, PRFC, VA | 16 | 4 fish | January 1- December 31 |

## $\mathrm{NC}^{c}$

15
1 fish
September 15-29
${ }^{\text {a }}$ Combined limit of 4 fish, no more than 2 at 17 inches
${ }^{\mathrm{b}}$ NJ slot limit total possession limit of 3 fish: 2 between 17-18; 1 over 18
c NC restrictions to reduce mortality on southern flounder

## Harvest 2009-2022

## With 2023 Waves 1-4



## State vs. Federal Waters Harvest (Ib)



## Harvest (Ib) by mode



Column 1
2024-25 RHL vs expected harvest under 2023 measures

Column 2
Biomass compared to target level (SSB/SSB ${ }_{\text {MSY }}$ )

Very high
greater than $150 \%$ of target High
at least target, but no higher than $150 \%$ of target

## Low

below target stock size

## Very high

greater than $150 \%$ of target

## High

at least target, but no higher than $150 \%$ of target

Low
below target stock size

## Very high

greater than $150 \%$ of target

## High

at least target, but no higher than $150 \%$ of target

## Low

below target stock size

$$
\text { Column } 3
$$

Change in Harvest
Liberalization \% = difference between harvest estimate and RHL, not to exceed $40 \%$

Liberalization \% = difference between harvest estimate and RHL, not to exceed 20\%

Liberalization: 10\%

No liberalization or reduction: 0\%

Reduction: 10\%
Reduction: 10\%
Reduction \% = difference between harvest estimate and RHL, not to exceed 20\%

Reduction \% = difference between harvest estimate and RHL, not to exceed 40\%

## 2024-2025 RHL

- August 2023: Council and Board reviewed 2023 management track assessment (MTA) and adopted 2024-2025 RHL $=6.35 \mathrm{mil} \mathrm{lb}$
- Represents 40\% reduction from 2023 RHL (10.62 mil lb)


## Recap - Stock Status Issues Informing 2024-2025 Limits

- 2023 MTA showed overfishing was occurring in 2022 despite recent underages of the ABCs and OFLs
- Projections from the previous MTA appear to have been overoptimistic
- Minor retrospective pattern (overestimating SSB and underestimating F) compounded by adding 3 years of catch, survey, biological data
- Overoptimistic estimation of 2018 year class contributed
- Changes in productivity
- Declining mean length/weights at age for both sexes
- Declining maturity at age (largest impact for age 1 )
- Recent 12-year period of low (but stable) recruitment


## Percent Change in Rec. Harvest Needed for 2024-2025

Column 1
2024-25 RHL vs
expected harvest

under 2023 measures RHL greater than | upper bound of |
| :---: |
| expected harvest CI |
| (RHL underage |
| expected) |
| RHL within expected |
| harvest CI |
| (harvest expected to be |
| close to RHL) |

- Percent Change Approach Step 1: Compare 2024-2025 RHL to 80\% confidence interval around expected 2024-2025 harvest under current (2023) measures

|  | Median | $\mathbf{8 0 \%}$ CI | 2024- <br> 2025 RHL |
| :---: | :---: | :---: | :---: |
| RDM <br> estimate | 8.88 | $8.10-9.48$ | 6.35 |

- RHL is less than lower bound of this CI

Column 1
2024-25 RHL vs expected harvest under 2023 measures

Column 2
Biomass compared to target level (SSB/SSB ${ }_{\text {MSY }}$ )

Very high
RHL greater than upper bound of expected harvest CI (RHL underage expected)

RHL within expected harvest CI
(harvest expected to be close to RHL)

RHL less than lower bound of expected harvest CI (RHL overage expected)
greater than $150 \%$ of target High
at least target, but no higher than $150 \%$ of target

## Low

below target stock size

## Very high

greater than $150 \%$ of target

## High

at least target, but no higher than $150 \%$ of target

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Reduction \% = difference between harvest estimate and RHL, not to exceed 20\%

Reduction \% = difference between harvest estimate and RHL, not to exceed $40 \%$

## Rec. Accountability Measures: Not Triggered for Summer Flounder

|  | Rec. <br> Harvest <br> $(\mathrm{mil} \mathrm{lb})$ | Rec. Dead <br> Discards <br> $(\mathrm{mil} \mathrm{lb})$ | Dead Rec. <br> Catch $(\mathrm{mil}$ <br> $\mathrm{lb})$ | Rec. ACL <br> $(\mathrm{mil} \mathrm{lb})$ | \% Over/ <br> Under <br> ACL |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{2 0 2 0 ^ { \mathrm { a } }}$ | 10.08 | 2.52 | 12.59 | 11.51 | $+9 \%$ |
| 2021 | 6.82 | 2.20 | 9.01 | 12.48 | $-28 \%$ |
| $\mathbf{2 0 2 2}$ | 8.63 | 2.95 | 11.58 | 14.64 | $-21 \%$ |
| Average | $\mathbf{8 . 5 1}$ | $\mathbf{2 . 5 5}$ | $\mathbf{1 1 . 0 6}$ | $\mathbf{1 2 . 8 8}$ | $\mathbf{- 1 4 \%}$ |

a 2020 MRIP harvest estimate incorporated ~19\% imputed data

## 2024-2025 Harvest Target

- Percent reduction = difference between harvest estimate and RHL, not to exceed 40\%
- Harvest estimate of 8.88 million pounds, reduced down to RHL of $\mathbf{6 . 3 5}$ million pounds
- 28\% reduction in harvest


## Monitoring Committee Recommendations

- Recommend continuation of regional conservation equivalency in 2024-2025 using the same regions as 2023
- Federal measures waived; combination of regional measures designed to achieve harvest target


## Non-Preferred Coastwide Measures

- MC recommends 18.5 inches, 3 fish, May 8-Sept. 30
- See MC summary from 12/7

Comparison of coastwide summer flounder alternatives.

| Alternative | SF bag | SF size | SF season | Median percent change in coastwide harvest <br> pounds $(80 \%$ CIs) |
| :---: | :---: | :---: | :---: | :---: |
| Coastwide 1 | 3 | 19 | May 25 - August 31 | -54.40 <br> $(-56.24,-53.00)$ |
| Coastwide 2 <br> (Status quo NP <br> coastwide) | 3 | 18 | May $15-$ Sep. 22 | -15.46 |
| Coastwide 3 | 3 | 18.5 | May $15-$ Sep. 22 | $(-17.89,-13.62)$ |

Notes: Regulations for scup and black sea bass set at 2023 status-quo values. Lower and upper bounds correspond to the $10^{\text {th }}$ and $90^{\text {th }}$ percentiles of the distribution of model output and represent $80 \%$ confidence intervals.

## Precautionary Default Measures

- MC recommends status quo precautionary default measures of 2 fish, 20 inches, July 1-August 31
- Likely to be sufficiently restrictive in all states
- RDM run of 19 inches, 3 fish, May 25-August 31 resulted in 54\% reduction; status quo precautionary default are notably more restrictive


## AP Comments

- Many advisors concerned and frustrated with 28\% reduction needed
- Magnuson requires socioeconomic impact analysis is this being sufficiently addressed?
- Will particularly hurt for-hire industry and associated shoreside businesses; party/charter vessels will go out of business
- Need to know what regulations will be to achieve this reduction
- Swing from $16 \%$ liberalization 2 years ago to $28 \%$ reduction is "feast or famine" management


## AP Comments

- Impacts amplified by cuts in several other recreational fisheries (e.g., striped bass, scup)
- Some support for sector separation - may help for-hire sector avoid large cuts if managed using their own reported data instead of MRIP data


## AP Comments

- Many states are down in harvest this year compared to last - what is 28\% relative to, and do current year trends factor into regional reduction needed?
- RDM is informed by range of data sources, including current year W1-4 data and last year's data for average catch per trip
- Coastwide reduction of $28 \%$ needed is relative to RDM projection of 2024 harvest under current measures


## AP Comments

- Some concern about 2-year measures especially given large reduction needed
- Are 2-year measures required?
- Clarification that reduction is taken once in 2024, then measures stay the same in 2025
- One recommendation for considering different measures by mode - shore fishing is very different with limited seasonal shore access
- Two noted opposition to increases in size limits/support for reduced size limits
- Size limit increases would increase dead discards


## AP Comments

- Concern about possible future changes to MRIP based on recent pilot study (question order in the Fishing Effort Survey)
- Current survey methodology contributing to issues such as need for large fluke reduction?
- MRIP issues/potential changes should be considered in terms of what represents best available science


## AP Comments

- Question about whether discards are assumed to occur during open season only or accounted for year-round
- Concerned that people are not reporting discards accurately
- Frustration that managers have not considered total length limit for summer flounder management
- Another advisor supported exploration of alternative strategies such as total length limit, or hook size regulations to reduce discards


## AP Email Comments

- To achieve $28 \%$ reduction in DE, MS, VA, cut the bag limit to 3 fish
- "Yoyo effect" of measures/limits increasing and decreasing is demoralizing
- Need to address discards of summer flounder and reduce harvest of larger female fish
- Should change commercial min. size to $13^{\prime \prime}$
- Do not allow states to increase rec. size limits or season length in 2024-2025 (both increase discards)
- Require 7/0 hooks in rec fishery
- Try managing solely on bag limit or total length (no min size); must stop fishing when limit reached


## Summary: MC Recommendations

- Regional conservation equivalency in 20242025
- 28\% reduction taken in 2024 based on Percent Change Approach and RDM projections
- Non-preferred coastwide measures: 18.5 inches, 3 fish, May 8-September 30
- Precautionary default measures: 20 inches, 2 fish, July 1-August 31


## Addendum XXXII - Regional Approach

Measures are developed using a six region approach where measures for all states within a region must consist of the same minimum size limit, possession limit, and season length:

1. Massachusetts
2. Rhode Island
3. Connecticut - New York
4. New Jersey
5. Delaware-Virginia
6. North Carolina

## SUPPLEMENTAL

## Rec. Accountability Measures

1. If the stock is overfished, under a rebuilding plan, or stock status is unknown: Exact overage amount must be paid back as soon as possible. Payback may be evenly spread over 2 years if doing so allows for identical measures for the upcoming 2 years.
2. If biomass is above the threshold, but below the target, and the stock is not under a rebuilding plan:

- If only the ACL exceeded: Adjust bag/size/season, taking into account performance of the measures and conditions that precipitated the overage.
- If most recent F exceeds Fmsy: adjustment to the rec. ACT will be made as soon as possible as a payback that will be scaled based on stock biomass where payback $=($ overage amount $) *(B m s y-B) / 1 / 2$ Bmsy. Payback may be evenly spread over 2 years if doing so allows for identical measures for the upcoming 2 years. If F/Fmsy not available for most recent year of catch data, catch vs ABC comparison will be used.

3. If biomass is above the target: Adjustments to measures will be made, taking into account the performance of the measures and conditions that precipitated the overage.

## Non-Preferred Coastwide Measures

- Identify non-preferred coastwide measures that achieve $\mathbf{\sim} \mathbf{2 8 \%}$ reduction in harvest relative to RDM projection under "status quo measures" $=8.88 \mathrm{mil} \mathrm{lb}$
- Coastwide harvest target: 6.35 mil lb
- "Status quo measures" = current state measures
- Did not manage to totally align current (2023) non-preferred coastwide measures with state measures in terms of expected harvest, so current NP coastwide measures are associated with a reduction


# Recap: Specifying 2023 NonPreferred Coastwide Measures 

- MC recommendation: $10 \%$ liberalization based on November RDM results
- December RDM updates: 10\% reduction needed
- Council and Board adopted status quo state measures due to this conflict
- However, modified the non-preferred coastwide measures given that RDM showed 2022 NP measures too restrictive under either configuration
- Did not have time to analyze measures that more closely "matched" combined state harvest projections


## Coastwide 5: 18.5 inches, 3 fish, May 8September 30

## RDM coastwide alternative 3 projections for 2024 (sent on 11/22/2023)

| Species | Median percent change in coastwide harvest (pounds) = (coastwide5-SQ)/SQ)*100 | Lower bound | Upper bound |
| :---: | :---: | :---: | :---: |
| Black sea bass | -0.78 | -0.85 | -0.71 |
| Scup | -0.11 | -0.12 | -0.10 |
| Summer flounder | -30.12 | -31.54 | -28.78 |
| Notes: lower and upper bounds correspond to the 10th and 90th percentiles of the distribution of model output and represent $80 \%$ confidence intervals. Regulations for summer flounder set at 18.5 -inch minimum size, 3 fish bag limit, and open season of May 8 to September 30. Scup and black sea bass regulations set at 2023 status-quo values. |  |  |  |

Stock Status:
2023 Management Track Assessment

## SSB

- Not overfished in 2022
- 2022 SSB = 40,994 $\mathrm{mt}, 83 \%$ of $\mathrm{SSB}_{\mathrm{MSY}}$
$=49,561 \mathrm{mt}$

E

## - Overfishing is

 occurring in 2022- 2022 F = 0.464, 103\% of $\mathrm{F}_{\text {MSY }}$ proxy
$=0.451$


## SSB and Recruitment 2023 MTA

Spawning Stock Biomass (SSB) and Recruitment (R)


## Fishing Mortality 2023 MTA

Total Catch and Fishing Mortality (F)


## OFL and ABC Performance

| Year | Total <br> dead <br> catch | OFL | OFL <br> over/under | ABC | ABC <br> over/under |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2014 | 22.27 | 26.76 | $-17 \%$ | 21.94 | $+2 \%$ |
| 2015 | 18.22 | 27.06 | $-33 \%$ | 22.57 | $-19 \%$ |
| 2016 | 17.16 | 18.06 | $-5 \%$ | 16.26 | $+6 \%$ |
| 2017 | 12.00 | 16.76 | $-28 \%$ | 11.30 | $+6 \%$ |
| 2018 | 12.65 | 18.69 | $-32 \%$ | 13.23 | $-4 \%$ |
| 2019 | 21.63 | 30.00 | $-28 \%$ | 25.03 | $-14 \%$ |
| 2020 | 24.60 | 30.94 | $-21 \%$ | 25.03 | $-2 \%$ |
| 2021 | 21.82 | 31.67 | $-31 \%$ | 27.11 | $-20 \%$ |
| 2022 | 25.61 | 36.28 | $-29 \%$ | 33.12 | $-23 \%$ |
| 2023 | -- | 34.98 | -- | 33.12 | -- |

Limits/catch values in millions of pounds

## Fishery Landings \& Discards 1989-2022




## Recreational Fishery Performance

|  | MRIP <br> version | Rec <br> harvest | RHL | RHL <br> over/ <br> under | Rec. <br> dead <br> disc. | Rec <br> dead <br> catch | ACL | ACL <br> over/ <br> under |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{2 0 1 8}$ | OLD <br> MRIP | 3.35 | 4.42 | $-24 \%$ | 0.97 | 4.32 | 5.53 | $-22 \%$ |
| 2019 |  | 7.80 | 7.69 | $1 \%$ | 3.04 | 10.84 | 11.51 | $-6 \%$ |
| 2020 |  | 10.07 | 7.69 | $31 \%$ | 2.52 | 12.60 | 11.51 | $9 \%$ |
| 2021 | NEW <br> MRIP | 6.82 | 8.32 | $-18 \%$ | 2.20 | 9.02 | 12.48 | $-28 \%$ |
| 2022 |  | 8.83 | 10.36 | $-17 \%$ | 2.95 | 11.58 | 14.64 | $-21 \%$ |
| 2023 |  | -- | 10.62 | -- | -- | -- | 14.90 | -- |

## 2023 Preliminary Estimates

| Species | 2023 prelim. W1-4 <br> harvest (mil lb) | 2023 RHL <br> (mil lb) | of 2023 <br> RHL |
| :---: | :---: | :---: | :---: |
| Summer <br> flounder | 6.96 | 10.62 | $66 \%$ |
| Scup | 9.46 | 9.27 | $102 \%$ |
| Black sea <br> bass | 4.86 | 6.57 | $74 \%$ |

