## Atlantic Bluefish Specifications



Council and Board Meeting August 9, 2023

## Outline and Objectives

- Review recent catch and landings
- AP Fishery Performance Report
- Stock Status
- SSC ABC Recommendations
- 2024-2025 Specifications: MC and AP recommendations

Meeting Objectives:

- Set Commercial and Recreational catch and landings limits for 2024-2025
- Set 2024 recreational management measures


## Management Measures



| Management Measures | 2019 | 2020 | 2021 | 2022 | 2023 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ABC | 21.81 | 16.28 | 16.28 | 25.26 | 30.62 |
| TAL | 19.33 | 12.25 | 12.25 | 17.43 | 18.40 |
| Comm. Quota | 7.71 | 2.77 | 2.77 | 3.54 | 4.29 |
| Comm. Landings | 2.78 | 2.16 | 2.07 | 2.14 | -- |
| Rec. Harvest Limit | 11.62 | 9.48 | 8.34 | 13.89 | 14.11 |
| Rec. Harvest | 15.56 | 13.58 | 12.46 | 11.03 | -- |
| Rec. Possession Limit (\# fish) | 15 | 3: Private <br> 5: For-Hire | 3: Private <br> 5: For-Hire | 3: Private <br> 5: For-Hire | 3: Private <br> 5: For-Hire |
| Total Landings | 18.34 | 15.74 | 14.53 | 13.17 | -- |
| Overage/Underage | N/A* | +3.49 | +2.28 | -4.26 | -- |
| Total Catch | 23.50 | 19.93 | 21.25 | $\begin{gathered} 17.85 \\ \text { (prelim) } \end{gathered}$ | -- |
| Overage/Underage | N/A* | +3.65 | +4.97 | $\begin{gathered} -7.41 \\ \text { (prelim) } \end{gathered}$ | -- |

## Catch: 2023 MTA



## 2022 Rec. Landings by State

## Harvest

State
$\square$
ME
NH

MA
RI
CT 541,930
3,446,600
1,077,834 51,550 213,345 215,999 1,336,592 259,372 35,911
1,957,211
11,354,535

Number
8,326
181
183,470
92,704
105,910
1,710,502

## Average Weight

 (pounds)| 73,697 | 8,326 | 8.9 |
| :---: | :---: | :---: |
| 1,598 | 181 | 8.8 |
| $1,277,203$ | 183,470 | 7.0 |
| 593,444 | 92,704 | 6.4 |
| 541,930 | 105,910 | 5.1 |
| $3,446,600$ | $1,710,502$ | 2.0 |
| $1,077,834$ | 510,820 | 2.1 |
| 51,550 | 38,676 | 1.3 |
| 213,345 | 249,382 | 0.9 |
| 215,999 | 262,360 | 0.8 |
| $1,336,592$ | $1,533,911$ | 0.9 |
| 259,372 | 487,654 | 0.5 |
| 35,911 | 43,335 | 0.8 |
| $1,957,211$ | $1,125,847$ | 1.7 |
| $11,354,535$ | $6,353,078$ |  |

## Harvest by Mode

- 96\% of bluefish harvest by weight occurred in state waters in 2022



## Commercial Fishery

- 2022 Commercial Federal Permits and activity
- 2,324 commercial vessels
- 380 commercial vessels landed bluefish
- 165 permitted dealers
- 137 dealers purchased bluefish


## Commercial Fishery

$\rightarrow$ Adjusted Ex-Vessel Value (\$) $\quad \rightarrow$ Landings (Pounds) $\quad$ Adjusted \$/Pound


## Commercial Fishery

2022 Commercial Bluefish Catch - VTRs


Non-target species caught on bluefish trips (observer data 20182022)

| Species | \% by weight |
| :---: | :---: |
| Smooth dogfish | $10 \%$ |
| Scup | $4 \%$ |
| Striped bass | $3 \%$ |
| Spiny dogfish | $2 \%$ |
| Atlantic bonito | $2 \%$ |
| Black sea bass | $1 \%$ |

## AP Fishery Performance Report

## Environmental factors

- Variability in the average weight of fish landed by state
- Jump from 5 lbs in CT to 2 lbs in NY
- Does not seem realistic
- Varies from year to year
- Snapper fishery (small bluefish, often from dock, very low weight per fish)
- More bluefish this year than last year, last year bf were absent 10-15 miles offshore
- Montauk: fishing is phenomenal this year- many and large fish, RI, MA and NC fishermen agreed, a lot of fish this spring/summer


## AP Fishery Performance Report

## Environmental factors

- MA - a lot of big fish in the area, more so in past few years
- In general big fish come in first to spawn and then move away but size and number of fish are both impressive this year
- Filling a need due to striped bass slot limit regs, clients have wanted to keep bluefish in recent years
- NJ - 2021 and 2022 were great bluefish years from Pt. Pleasant north into Southern NY, size 5-8 lbs. Not seeing the little fish being accounted for by MRIP


## AP Fishery Performance Report

## Market/Economic and Management Issues

- Bag limit change in 2020 corresponds with a decrease in the proportion of overall catch by the shore mode and an increase in private rental mode, while the for-hire mode stayed the same
- Because of more anglers in the private rental mode?
- Availability?
- Boats will switch over to black sea bass until it is closed and then switch back to bluefish


## AP Fishery Performance Report

## Market/Economic and Management Issues

- People tend to hire charter captains for summer flounder, striped bass, and black sea bass
- Bluefish for fun but not to take them home to eat
- Didn't understand why changing the bag limit from 15 fish to 3 fish would have an impact
- NC - last 5-6 years, increased interest in harvesting/eating bluefish.
- Filling the need for customers when other species' regulations don't allow it
- People only want 2-3, don't think bag limit is limiting


## AP Fishery Performance Report

## Market/Economic and Management Issues

- For NY and NJ party boats, very important fishery, brings in a lot of money. Headboats want to see an increase in bag limit, brings passengers, seeing a lot of fish
- Differing bag limits between for-hire and private angler: not thoroughly analyzed, should be pursued through sector separation action
- A lot of target and interest in bluefish without it being classified as a bluefish directed trip, good to keep that in mind/analyze secondary targets
- MA - if you interviewed customers, not say they were targeting bluefish, but catch bluefish on at least $50 \%$ of the trips and on some trips, a lot of bluefish are caught


## AP Fishery Performance Report

## Market/Economic and Management Issues

- Three advisors: continued support for the conservation of bluefish
- No need to increase the bag limit too soon
- As a guide, bluefish are very valuable/reliable. Ensuring that there are still fish in 10-15 years is more important to them than taking home more fish


## AP Fishery Performance Report

## Research Priorities and Data Issues

- Some agreed with recommendation for an updated bluefish post release mortality study
- analyzing mortality on the early fish that are larger and later fish that are smaller would be helpful
- High mortality witnessed in NC aquarium system when fish are handled
- RTA evaluated the discard mortality rate, should be a lower research priority compared with the need to get better data on the larger older bluefish that tend to be offshore
- They are inshore now but we don't know where they came from or where they were in past years, why coming in now
- There are a lot of bunker right now, and bf run with striped bass


## AP Fishery Performance Report

## Research Priorities and Data Issues

- If the stock assessment isn't taking into account commercial bluefish discards in the NC shrimp trawl fishery (state fishery), should be another research rec.
- A member of the public disagreed and stated that there is no bycatch of bluefish in the shrimp trawl fishery
- Asked about the updated bluefish reference points from the recent research track assessment, scaling down of the biomass, interested in SSC's comments on this
- Bioeconomic models for bluefish similar to Summer Flounder, Scup, Black Sea Bass


## Email Comments from Advisors

- Bluefish are thriving this year. Although the general public/charter customers typically don't keep them for the table, the amount of fish around is old school and the fishing is as good as it gets.
- The fish range is sizes from little harbor size all the way up to true "alligators," many year classes have succeeded
- NC: bf haven't been around in the Outer Banks area, patchy, we do hear reports but this May and last May even the small ones weren't there
- MRIP landings from MRIP in NC were substantial last year which is surprising based on what we are seeing


## Email Comments from Advisors

- The 2 lb average weight for NY is because snappers are diluting the average weights,should be considered as a completely different category. Misrepresenting the fishery.
- Fish are now $9-12$ lbs off of Montauk, up to 7 lbs in MA
- Where were these large fish hiding in past years, we are inundated with bluefish.
- CT and the north shore of Long Island should be its own region where the bag/size/season regulations need to stay the same for all rec species
- Next year we should see a good snapper year with all of these larger fish spawning
- Bluefish school together by size, you don't see small fish in a school with the larger fish
- Bluefish are feeding like crazy on the sand eels


## MC Meeting: Uncertainty Tool

- Annually: MC considers whether to apply a buffer for management uncertainty between the ACL and the ACT
- If buffer is warranted, desire for a quantitative approach, met in March 2023 to discuss
- Subgroup developed a tool:
- Combination of quantitative and qualitative categories, assign scores
- Contribute to uncertainty into a quantitative metric, can weight the different categories
- Can serve as a starting point for discussion


## MC Recommendation: ACTs

- Compliance information
- Improvements to estimating discards through RTA, better understanding of catch
- Rec. discards less variable than previous differing estimates
- Recommended no buffer for mgmt. uncertainty

| Management <br> Measure | Year |  | Basis |
| :--- | :---: | :---: | :---: |
|  | 2024 | 2025 |  |
| mil lb. | mil lb. |  |  |
| ABC <br> Commercial <br> ACL=ACT | 17.48 | 21.83 | Derived by SSC |
| Recreational <br> ACL=ACT | 2.45 | 3.06 | ABC $\times 14 \%$ (per FMP) |

## MC: Quota and RHL

| Management <br> Measure | Year |  | Basis |  |
| :--- | :---: | :---: | :--- | :---: |
|  | 2024 | $\mathbf{2 0 2 5}$ |  |  |
| mil lb. | mil lb. |  |  |  |
| ABC | 17.48 | 21.83 | Derived by SSC |  |
| Commercial ACL=ACT | 2.45 | 3.06 | ABC $\times 14 \%$ (per FMP) |  |
| Recreational ACL=ACT | 15.03 | 18.78 | ABC $\times 86 \%$ (per FMP) |  |
| Commercial Discards | 0.02 | 0.02 | 2021-2022 ave. discards (2023 MTA) |  |
| Recreational Discards | 3.08 | 3.08 | 2021-2022 ave. discards (2023 MTA) |  |
| Commercial Quota | 2.42 | 3.03 | Commercial ACT - discards |  |
| RHL | 11.96 | 15.70 | Recreational ACT - discards |  |

No transfer recommended while still rebuilding

## MC: Status Quo Rec. Measures

- 2024 RHL: 11.96 mil lb
- 2021-2022 average rec. harvest: 11.54 mil lb
- Status quo measures for 2024, to be reviewed in 2024 for 2025
- 5 fish (for-hire) and 3 fish (private angler) bag limits
- Allows for continued stability for the sector without a predicted overage
- Liberalization may result in RHL overage


## AP: Status Quo Rec. Measures

- All advisors in attendance spoke in favor of SQ rec. measures
- Need to understand implications of warming water temperatures and available forage
- SQ for 2025 as well - wait for new assessment for changes
- Harvest is more related to availability, may see increase in 2023 under same measures
- Anglers are also potentially switching to bluefish due to other species' regs


## Decision Points

- Set Commercial and Recreational ACTs, RHL, and commercial quota for 2024-2025
- Set 2024 recreational management measures

| Management <br> Measure (mil lb) | Year |  |
| :--- | :---: | :---: |
| Commercial ACL=ACT | 2.45 | $\mathbf{2 0 2 4}$ |
| Recreational ACL=ACT | 15.03 | 18.78 |
| Commercial Quota | 2.42 | 3.03 |
| RHL | 11.96 | 15.70 |
| Rec. Measures | 3 fish (private) <br> 5 fish (for hire) | TBD |



## Extra slides

## Table 5

Percent liberalization or reduction: Iberalization = inverse reduction

| Bag Limit | 3 | 4 | 5 | 6 | 7 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Private Angler | SQ | $7.32 \%$ | $24.69 \%$ | $62.77 \%$ | $*$ |
| For Hire | $-0.21 \%$ | $-0.07 \%$ | SQ | $0.07 \%$ | $0.21 \%$ |
| Total | $-0.21 \%$ | $7.25 \%$ | $24.69 \%$ | $62.84 \%$ | $0.21 \%$ |

Percent liberalization or reduction: regression analysis

| Bag Limit | 3 | 4 | 5 | 6 | 7 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Private Angler | SQ | $7.28 \%$ | $12.36 \%$ | $16.51 \%$ | $20.01 \%$ |
| For Hire | $-0.29 \%$ | $-0.08 \%$ | SQ | $0.22 \%$ | $0.34 \%$ |
| Total | $-0.29 \%$ | $7.20 \%$ | $12.36 \%$ | $16.73 \%$ | $20.35 \%$ |

## Stock Status and BRP Comparison

|  | $\begin{gathered} 2015 \\ \text { SAW/SARC } 60 \end{gathered}$ | 2021 <br> Management <br> Track <br> Assessment | 2022 Research Track Assessment | 2023 <br> Management Track Assessment |
| :---: | :---: | :---: | :---: | :---: |
| Stock <br> Status | Not Overfished, Not Overfishing | Overfished, Not Overfishing | Not Overfished, Not Overfishing | Not Overfished, Not Overfishing |
| $\mathrm{SSB}_{\mathrm{usY}}$ | $\begin{aligned} & 223.42 \mathrm{mil} \mathrm{lb} \\ & (101,343 \mathrm{mt}) \end{aligned}$ | 444.74 mil lb (201,729 mt) | $\begin{gathered} 202.60 \mathrm{mil} \mathrm{Ib} \\ (91,897 \mathrm{mt}) \end{gathered}$ | $\begin{aligned} & 194.30 \mathrm{mil} \mathrm{Ib} \\ & (88,131 \mathrm{mt}) \end{aligned}$ |
| $1 / 2$ SSB $_{\text {MSY }}$ | $\begin{aligned} & 111.71 \mathrm{mil} \mathrm{lb} \\ & (50,672 \mathrm{mt}) \end{aligned}$ | $\begin{aligned} & 222.37 \mathrm{mil} \mathrm{lb} \\ & (100,865 \mathrm{mt}) \end{aligned}$ | $\begin{aligned} & 101.30 \mathrm{mil} \mathrm{lb} \\ & (45,949 \mathrm{mt}) \end{aligned}$ | $\begin{aligned} & 97.15 \mathrm{mil} \mathrm{Ib} \\ & (44,066 \mathrm{mt}) \end{aligned}$ |
| $\mathrm{F}_{\text {MSY }}$ | 0.190 | 0.181 | 0.249 | 0.239 |
| $\begin{gathered} \text { Terminal } \\ \text { Year of } \\ \text { data } \\ \hline \end{gathered}$ | 2014 | 2019 | 2021 | $2022$ |

## 2023 quota monitoring

## 2023 Coastwide Bluefish Landings

## $5,000,000-$

Quota: 4,287,457 lbs
4,000,000-

08
0
0
0
0
0
0
3,000,000-

2,000,000-


## Management Uncertainty Considerations

- Improvements to estimating discards through RTA, better understanding of catch
- Rec discards less variable than previous disparate estimates

| Rec Fishery | Discards <br> (GARFO estimate) | Discards <br> (NEFSC Estimates) | Discards <br> (2023 MTA*) |
| :---: | :---: | :---: | :---: | :---: |
| 2018 | 4.03 | 9.9 | 3.48 |
| 2019 | 4.88 | 15.41 | 3.75 |
| 2020 | 4.19 | 8.3 | 2.76 |
| 2021 | 6.64 | 12.6 | 3.07 |



MID-ATLANTIC

## Rec lengths in top states 2022



## Projections: 2023 Removals = 2023 ABC

| Year | OFL Catch (mt) | OFL SSB (mt) | OFL Ffull |
| :---: | :---: | :---: | :---: |
| $\mathbf{2 0 2 3}$ | 13,890 | $59,135(39,120-89,391)$ | 0.239 |
| $\mathbf{2 0 2 4}$ | 11,734 | $65,030(41,240-102,546)$ | 0.183 |
| $\mathbf{2 0 2 5}$ | 12,467 | $70,974(43,350-116,201)$ | 0.183 |
| Year | ABC Catch (mt) | ABC SSB (mt) | ABC Ffull |
| $\mathbf{2 0 2 3}$ | 13,890 | $59,135(39,120-89,391)$ | 0.239 |
| $\mathbf{2 0 2 4}$ | 7,929 | $66,706(41,439-107,379)$ | 0.121 |
| $\mathbf{2 0 2 5}$ | 9,903 | $75,757(43,303-132,534)$ | 0.137 |

## Management Uncertainty Considerations

## Compliance:

- OLE and USCG reported no rec. bluefish violations from 2019-2022
- State compliance reports:

| Bag Limit <br> Citations | Size Limit <br> Citations | Bag Limit <br> Warnings | Size <br> Limit <br> Warnings | \# of States <br> Reporting <br> Violations |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2020 | 13 | 4 | 8 | 5 | 3 |
| 2021 | 28 | 3 | 12 | 20 | 3 |
| 2022 | 19 | 4 | 9 | 8 | 3 |

## Projections: 2023 Removals = Catch at current Frebuild

| Year | OFL Catch (mt) | OFL SSB (mt) | OFL Ffull |
| :---: | :---: | ---: | :---: |
| $\mathbf{2 0 2 3}$ | 10,827 | $60,471(41,382-88,364)$ | 0.183 |
| 2024 | 12,166 | $67,719(45,503-100,782)$ | 0.183 |
| 2025 | 12,818 | $73,426(46,758-115,304)$ | 0.183 |
| Year | ABC Catch (mt) | ABC SSB (mt) | ABC Ffull |
| 2023 | 10,827 | $60,471(41,382-88,364)$ | 0.183 |
| 2024 | 8,517 | $69,335(45,753-105,074)$ | 0.125 |
| 2025 | 10,450 | $77,982(46,763-130,043)$ | 0.141 |

## 2023 Removals Assumption

| Catch Assumption | Value (MT) | Year | Total Catch |
| :---: | :---: | :---: | :---: |
|  |  |  | 20,194 |
| 2023 ABC | 13,890 | 2014 | 17,473 |
|  |  | 2015 | 19,345 |
| Catch at Frebuild | 10,827 | 2016 | 14,431 |
|  |  | 2017 | 19,297 |
| Recent Catch | Value (MT) | 2018 | 8,548 |
|  |  | 2019 | 9,871 |
| 3-year average | 7,898 | 2020 | 8,294 |
|  |  | 2021 | 7,963 |
| 10-year average | 13,285 | 2022 | 7,436 |

