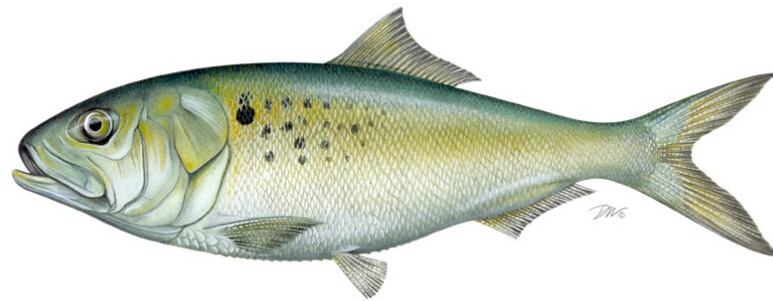




# 2020 Fishery Management Plan Review for Atlantic Menhaden



Atlantic Menhaden Management Board

May 2021

# Overview



- Status of the FMP
- Status of the stock
- Status of the fishery
- Compliance requirements for 2020
  - Quota, biological sampling, Bay Cap
- PRT Recommendations
  - Bio-sampling requirement, NC Pound net data collection, and incidental catch



# Status of FMP



## 2020 fishery operated under Amendment 3 (Nov 2017)

Changes from previous years:

- Chesapeake Bay reduction fishery cap set at 36,000 mt due to 2019 overage
- Menhaden-specific ERPs were approved for management in August 2020
- Board set TAC for 2021-2022 at 194,400 mt
  - Based on approved ERPs
  - TAC is estimated to have 58.5% and 52.5% probability of exceeding the ERP  $F$  target in 2021 and 2022, respectively

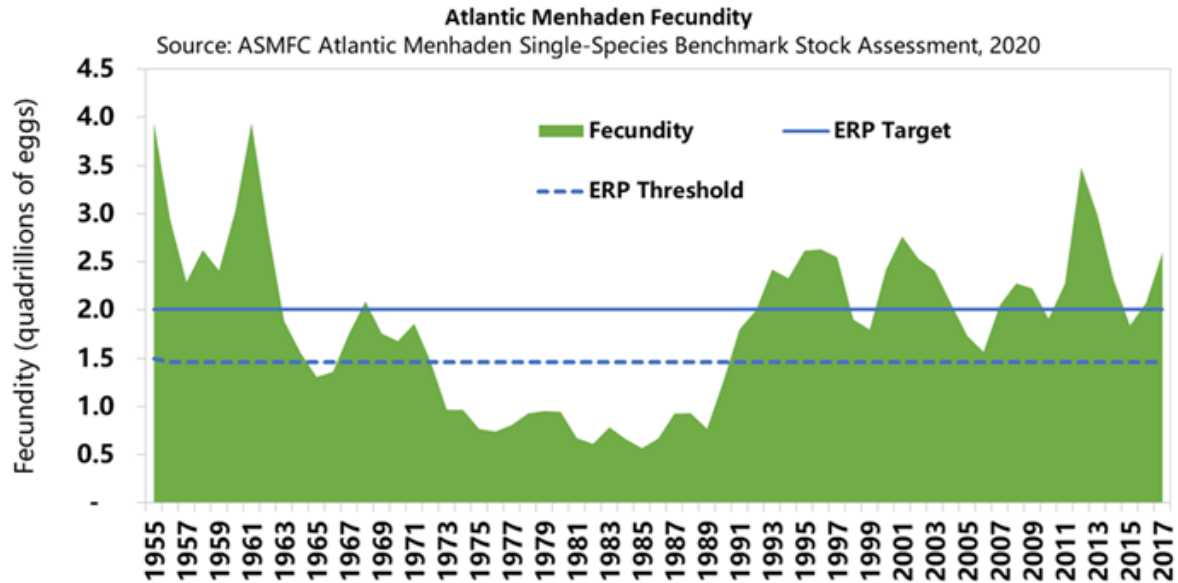
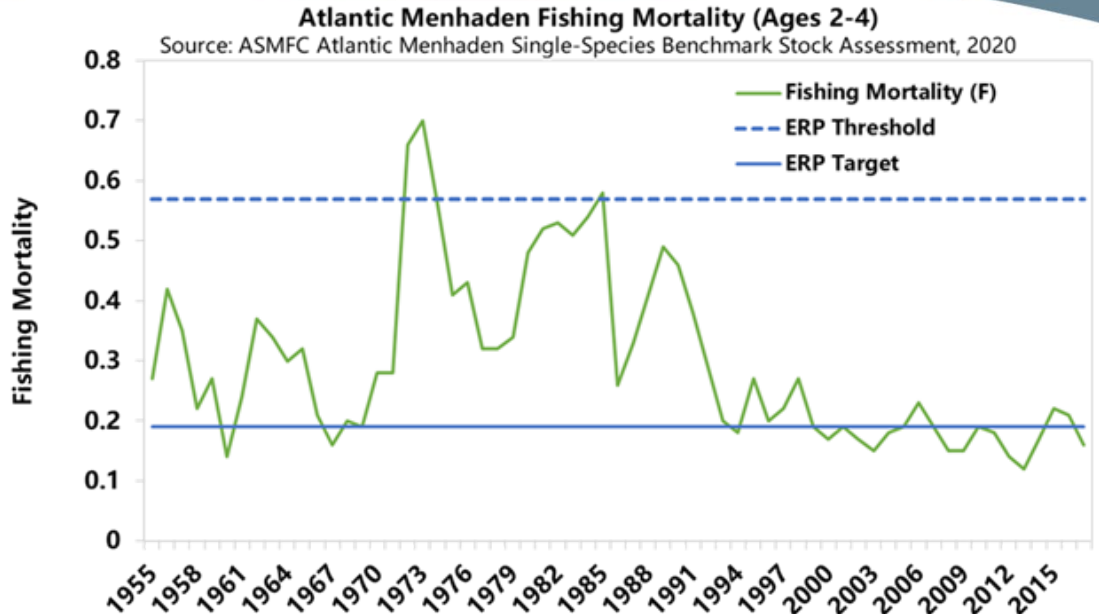


# Status of the Stock



Ecological Reference Points	Benchmark	Current value (2017)
$F_{(threshold)}$	0.57	0.16
$F_{(target)}$	0.19	
$FEC_{(target)}$	2,003,986	2,601,550
$FEC_{(threshold)}$	1,492,854	

- 2019 Benchmark
- Stock is not overfished and overfishing is not occurring



# Status of the Fishery, 2020



**Total landings: 184,150 mt (405 mil pounds)**

- 12% decrease from 2019

**TAC: 216,000 MT (476.2 mil pounds)**

- Directed harvest = 177,827 mt (392 mil pounds)
  - 13% decrease from 2019
  - 18% under the TAC

**Incidental Catch: 6,330 mt (13.9 million pounds)**

- 30% increase from 2019
- Does not count towards TAC



# Status of the Fishery, 2020 (cont.)



## **Reduction fishery: 124,600 mt (274.7 million pounds)**

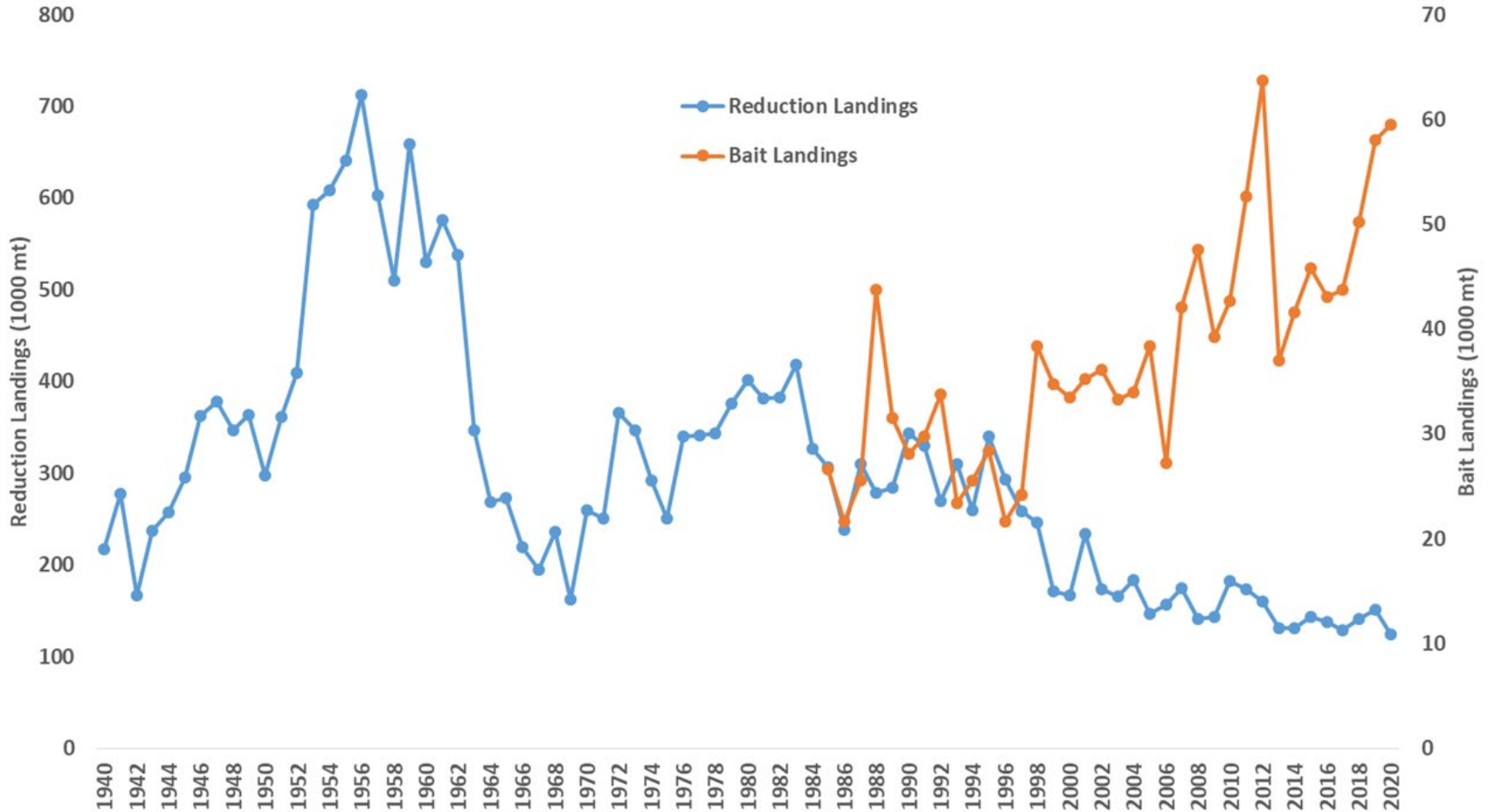
- 17% decrease from 2019 (332.5 million pounds)
- 11% below the previous 5-year average

## **Chesapeake Bay Reduction Harvest and Cap**

- 2020 Cap = 36,000 MT
- 2020 harvest= ~27,000 MT



# Atlantic Menhaden Landings



# 2020 Incidental Fishery (cont.)



**Table 4. Incidental fishery landings, 2013-2020**

Year	Landings (pounds)	Number of Trips	Number of states landing
2013	4,377	2,783	6
2014	6,831	5,275	8
2015	5,992	4,498	9
2016	2,581	2,222	9
2017	7,407	2,108	7
2018	3,310	1,224	3
2019	10,751	3,113	1
2020	13,957	3,565	4
Time-series average	6,900	3,130	





# Episodic Events Set Aside

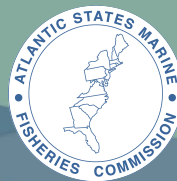


- 2020 EESA = 2,160 mt (4.76 million pounds)
- 2020 EESA landings = 2,080 mt (4.5 million pounds)
  - ME and MA were the only participating states
  - 80 mt (176,771 pounds) redistributed in Fall 2020

Year	States Declared Participation	EESA Quota (1% of TAC)	Landed (MT)	% EESA Quota Used
2013		1,708	-	-
2014	RI	1,708	134	7.8%
2015	RI	1,879	854	45.5%
2016	ME, RI, NY	1,879	1,728	92.0%
2017	ME, RI, NY	2,000	2,129	106.5%
2018	ME	2,031	2,103	103.6%
2019	ME	2,160	1,995	92.4%
2020	ME & MA	2,160	2,080	96.3%



# Quota Transfers



- 16 quota transfers for 2020 fishing season
  - Slightly less than 2019 (18)

Transfers	Transfer Date	ME	NH	MA	RI	CT	NY	NJ	PA	DE	MD	PRFC	VA	NC	SC	GA	FL
1	1-Jul	1,000,000				-1,000,000											
2	7-Jul	1,700,000								-100,000				-600,000			-1,000,000
3	8-Jul			600,000										-600,000			
4	16-Jul		750,000														-750,000
5	21-Jul			900,000													-900,000
7	18-Aug	250,000	1,000,000		-250,000	-1,000,000											
8	25-Aug			600,000										-600,000			
9	26-Aug	1,000,000		250,000	-250,000						-1,000,000						
10	27-Aug		350,000								-350,000						
11	25-Sep		400,000														-400,000
12	14-Oct		800,000		-800,000												
13	21-Oct	500,000			-500,000												
14	2-Nov	1,000,000	-1,000,000														
15	20-Nov						500,000		-500,000								
16	13-Apr-21			20,000										-20,000			
<b>Total</b>		5,450,000	2,300,000	2,370,000	-1,800,000	-2,000,000	500,000	0	-500,000	-100,000	-1,350,000	0	0	-1,820,000	-1,650,000	0	-1,400,000



# 2020 Bio Samples (Table 9)



State	#10-fish samples required	#10-fish samples collected	Age samples collected	Length samples collected
ME	38	37	370	370
NH	6	7	70	70
MA	6	10	104	104
RI	13	0	0	0
CT	0	1	30	30
NY	7	8	75	75
NJ	75	105	*	1040
DE	1	1	30	30
MD	6	16	293	777
PRFC	5	3	45	45
VA	10	22	240	240
NC	1	2	20	252
<b>Total</b>	<b>163</b>	<b>212</b>	<b>1257</b>	<b>3023</b>



# *De minimis*



- To be eligible for *de minimis* status, a state's bait landings must be less than 1% of the total coastwide bait landings for the most recent two years
- The states of Pennsylvania, South Carolina, Georgia, and Florida requested and qualify for *de minimis* status for the 2021 fishing season



# PRT Comments & Recommendations



- **Biological Sampling Requirement**
  - Maine, Massachusetts, and PRFC fell short in 2020
    - COVID-19 Pandemic prevented collecting all samples
  - PRT notes that substituting samples from fishery-independent sources may not be appropriate
  - PRT recommends this requirement be evaluated either in next management document or during next stock assessment
  - SAS: lengths should only come from fishery-dependent; ages could come from fishery-independent
- **Catch and Effort data from Pound net fishery**
  - NC does not collect effort data; developed a proxy method
  - PRT: Board clarify whether NC is exempt from this data collection



# PRT Comments & Recommendations



- Landings in the Gulf of Maine continue to increase
  - Maine: 25 million pounds in 2020, 316% increase from 2016
  - Massachusetts and New Hampshire landings continue to increase
  - In addition to EESA, quota transfers and incidental catch has increased in recent years
  - Driver appears to be reduced quota of Atlantic herring



# PRT Comments & Recommendations cont'd

- Incidental Catch
  - PRT notes coastwide incidental catch has increased in recent years
  - Current volume may not reflect intention of provision
  - State quota management can create instances where incidental catch occurs prior to state Quota being met
  - PRT recommends these issues be addressed in future management document



# Board Actions for consideration



- Provide guidance on evaluating incidental catch annually
- Provide guidance on NC pound net data collection
- Approve the 2020 FMP Review and state compliance
- Approve *de minimis* status for New Hampshire, Pennsylvania, South Carolina, Georgia, and Florida





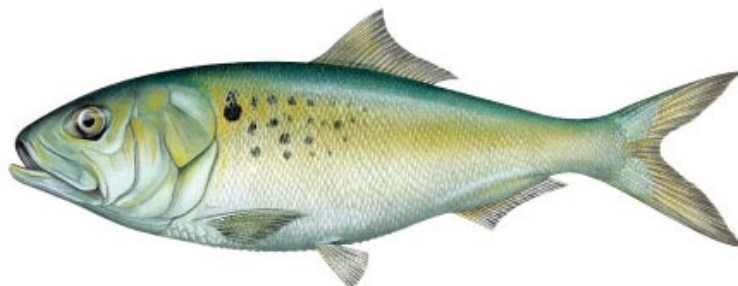


# Questions?





# Recent Menhaden Quota and Landings Information



Atlantic Menhaden Board

May 4, 2021

# Background



- Amendment 3 (2017)
  - Set current Quota Allocations
  - 0.5% fixed minimum and remainder allocated on 2009-2011
  - Allocations to be revisited every 3 years (2018-2020)
- Today
  - Review additional information requested in February
    - Relinquished Quota 2018-2021
    - Quota Transfers (previously presented)
    - Jurisdiction Total Landings as % of Coastwide 2016-2020
    - Incidental Catch 2017-2020
    - EESA Landings 2018-2020
  - **Consider whether to initiate management action**

# Relinquished Quota



- First implemented under Amendment 3 (2017)
- Delaware is the only state to relinquish quota every year

<b>State</b>	<b>2018 Relinquished Quota</b>	<b>2019 Relinquished Quota</b>	<b>2020 Relinquished Quota</b>	<b>2021 Relinquished Quota</b>
Delaware	2,000,000	2,000,000	2,100,000	1,700,000
South Carolina	2,347,183			
Georgia	2,357,183	2,357,183	2,357,183	
Total	6,704,366	4,357,183	4,457,183	1,700,000

# Quota Transfers



Jurisdiction	2018	2019	2020	3 Year Net Total	3 Year Average
Maine	5,400,000	6,573,592	5,450,000	17,423,592	<b>5,807,864</b>
New Hampshire	0	3,373,592	2,300,000	5,673,592	1,891,197
Massachusetts	0	1,300,000	2,350,000	3,650,000	1,216,667
Rhode Island	0	-400,000	-1,800,000	-2,200,000	-733,333
Connecticut	-500,000	-2,400,000	-2,000,000	-4,900,000	<b>-1,633,333</b>
New York	-1,000,000	-1,900,000	500,000	-2,400,000	<b>-800,000</b>
New Jersey	0	0	0	0	0
Pennsylvania	0	0	-500,000	-500,000	-166,667
Delaware	-150,000	0	-100,000	-250,000	-83,333
Maryland	-1,500,000	-1,000,000	-1,350,000	-3,850,000	<b>-1,283,333</b>
PRFC	0	0	0	0	0
Virginia	-1,000,000	-1,000,000	0	-2,000,000	-666,667
North Carolina	0	-600,000	-1,800,000	-2,400,000	-800,000
South Carolina	0	-2,347,184	-1,650,000	-3,997,184	-1,332,395
Georgia	0	0	0	0	0
Florida	-1,250,000	-1,600,000	-1,400,000	-4,250,000	<b>-1,416,667</b>

# Landings as % of Coastwide Total



State	Amendment 3 Directed Landings Allocations (%)	% of 2016 CW Landings	% of 2017 CW Landings	% of 2018 CW Landings	% of 2019 CW Landings	% of 2020 CW Landings
Maine	0.52%	1.2%	2.3%	3.5%	4.9%	6.3%
New Hampshire	0.50%				1.0%	*
Massachusetts	1.27%	0.8%	1.0%	1.4%	1.5%	2.2%
Rhode Island	0.52%	0.1%	0.5%	0.2%	0.0%	0.0%
Connecticut	0.52%	0.0%	0.1%	0.2%	0.0%	0.0%
New York	0.69%	0.4%	0.4%	0.2%	0.3%	1.0%
New Jersey	10.87%	11.5%	12.2%	11.9%	11.0%	12.3%
Pennsylvania	0.50%					
Delaware	0.51%	0.0%	0.0%	0.0%	0.0%	0.0%
Maryland	1.89%	1.4%	0.8%	0.7%	0.7%	0.6%
PRFC	1.07%	0.6%	0.5%	0.8%	0.5%	0.5%
Virginia	78.66%	83.9%	82.1%	80.8%	79.9%	75.7%
North Carolina	0.96%	0.1%	0.2%	0.2%	0.1%	0.1%
South Carolina	0.50%					
Georgia	0.50%					
Florida	0.52%	0.1%	0.1%	0.1%	0.1%	0.1%

\* NH landed more than its initial 2020 allocation

# Incidental Catch



- First implemented under Amendment 2 (2013)
- Majority of catch is on trips of >1,000 lbs (37%) or between 5,000-6,000 (34%)
- 2017- 2020: Majority of landings by gear is purse seine (80%)
- PRT recommendations: re-evaluate program

State	2017 Incidental Catch	2018 Incidental Catch	2019 Incidental Catch	2020 Incidental Catch
Maine	5,373,940	2,995,145	10,750,929	13,605,497
Massachusetts	0	0	0	49,350
Rhode Island	135,748	0	0	0
Connecticut	126,986	0	0	0
New York	807,392	0	0	282,169
New Jersey	0	204,240	0	20,190
Delaware	29,285	0	0	0
PRFC	670,447	0	0	0
Virginia	0	110,281	0	0
Florida	263,643	0	0	0
Total	7,407,441	3,309,666	10,750,929	13,957,206

# Episodic Event Set-Aside Program

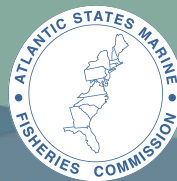


- First implemented under Amendment 2 (2013)
- 1% of the TAC set aside annually
- Initially intended to address ‘episodic’ events
- Available for states if quota is met prior to September 1
- Eligible states: Maine-New York
- Unused EESA redistributed based on accounting as of October 1
- Challenges: in-season vs. finalized landings for evaluating EESA

<b>Year</b>	<b>State</b>	<b>EESA Landings</b>	<b>Coastwide Total</b>
2018	Maine	4,636,020	-
2019	Maine	4,397,826	-
2020	Maine	4,223,729	4,585,214
	Massachusetts	361,485	



# Considerations



- Re-allocation can be completed through an Addendum
- Purpose and scope of the Addendum will be important
  - Re-allocation ideas/options are helpful and should link to purpose of the action
  - If other specific provisions (quota transfers, incidental catch, EESA) in the FMP are to be adjusted, that should be clear in motion
- Confidentiality will pose issues for landings data included in management document

# Next Steps



- Consider whether to initiate management document on re-allocation
  - If ‘yes’, PDT will need to be populated
    - PDT will need to obtain confidential data access
  - ACCSP landings data from 1985-2020 will be available this month
    - Reminder: data confidentiality poses challenges for public documents
  - Clarity on purpose and scope is important to develop any document in a timely manner



**Questions?**