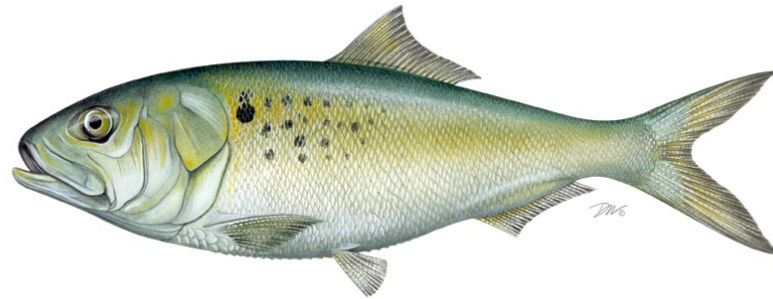




2019 Fishery Management Plan Review for Atlantic Menhaden



Atlantic Menhaden Management Board

August 6, 2019

Overview



- Status of the FMP
- Status of the stock
- Status of the fishery
- Compliance requirements for 2018
 - Quota, biological sampling, Bay Cap
- PRT Recommendations



Status of FMP



2018 fishery operated under Amendment 3 (Nov 2017)

Changes from Amendment 2:

- Maintains single-species reference points until menhaden-specific ERPs are available for management
- State allocations: 0.5% fixed minimum + 2009-2011 average landings
- 6,000 lbs trip limit for incidental catch and small scale fisheries (defined applicable gear types)
- Chesapeake Bay reduction fishery cap set at 51,000 mt; no rollover of unused Cap

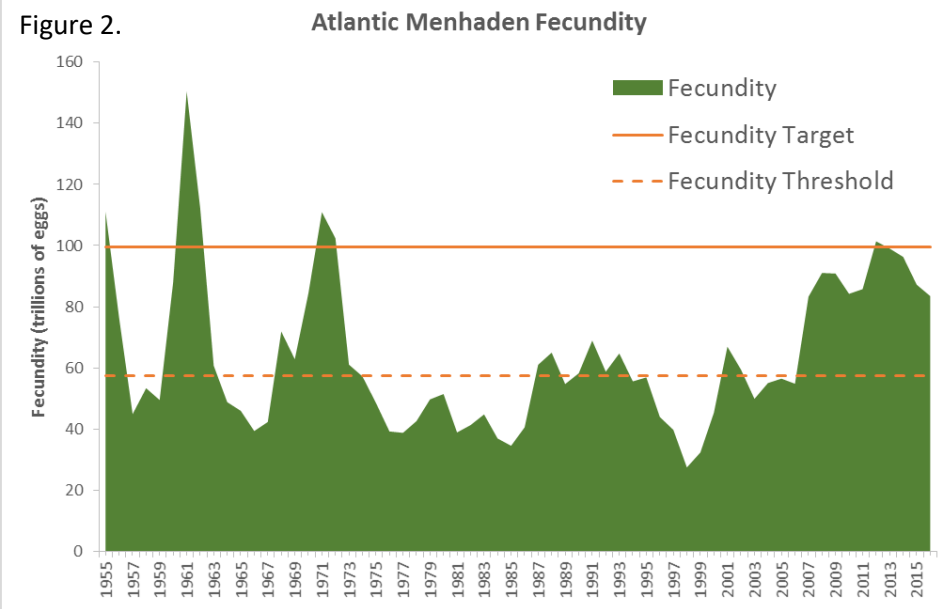
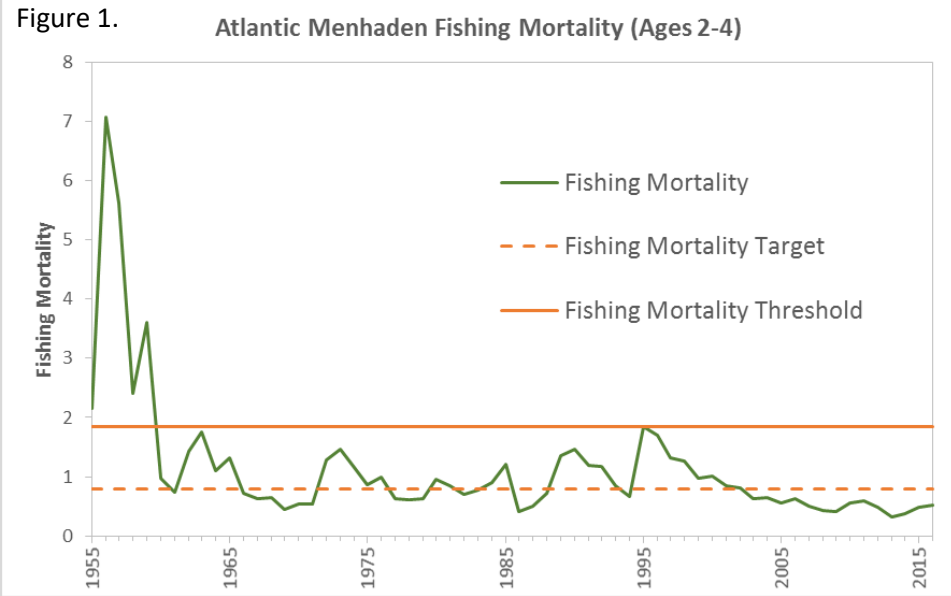


Status of the Stock



Reference Points	Benchmark	Current value
$F_{21\%}$ (threshold)	1.85	0.51
$F_{36\%}$ (target)	0.80	
$FEC_{21\%}$ (threshold)	57,295	83,486 billion eggs
$FEC_{36\%}$ (target)	99,467	

- 2017 SA Update
- Stock is not overfished and overfishing is not occurring
- Menhaden single-species and ecosystem-based benchmark assessments scheduled for peer review in November 2019



Status of the Fishery, 2018



- 2018 TAC = 476.2 million pounds (216,000 mt)
 - Directed landings includes EESA
 - Incidental landings do not count towards the TAC

Landings	2017	2018	Difference
Directed	378.1	418.3	+11%
Incidental	2.73	3.21	+18%
Total	380.9	421.5	+11%

Status of the Fishery, 2018 (cont.)



Bait harvest: 110.0 million pounds

- 14% increase from 2017
- 18% above the previous 5-year average
- NJ, VA, ME, and MA landed the largest shares

Reduction harvest: 311.6 million pounds

- 10% increase from 2017
- 5% above the previous 5-year average

Chesapeake Bay Reduction Harvest and Cap

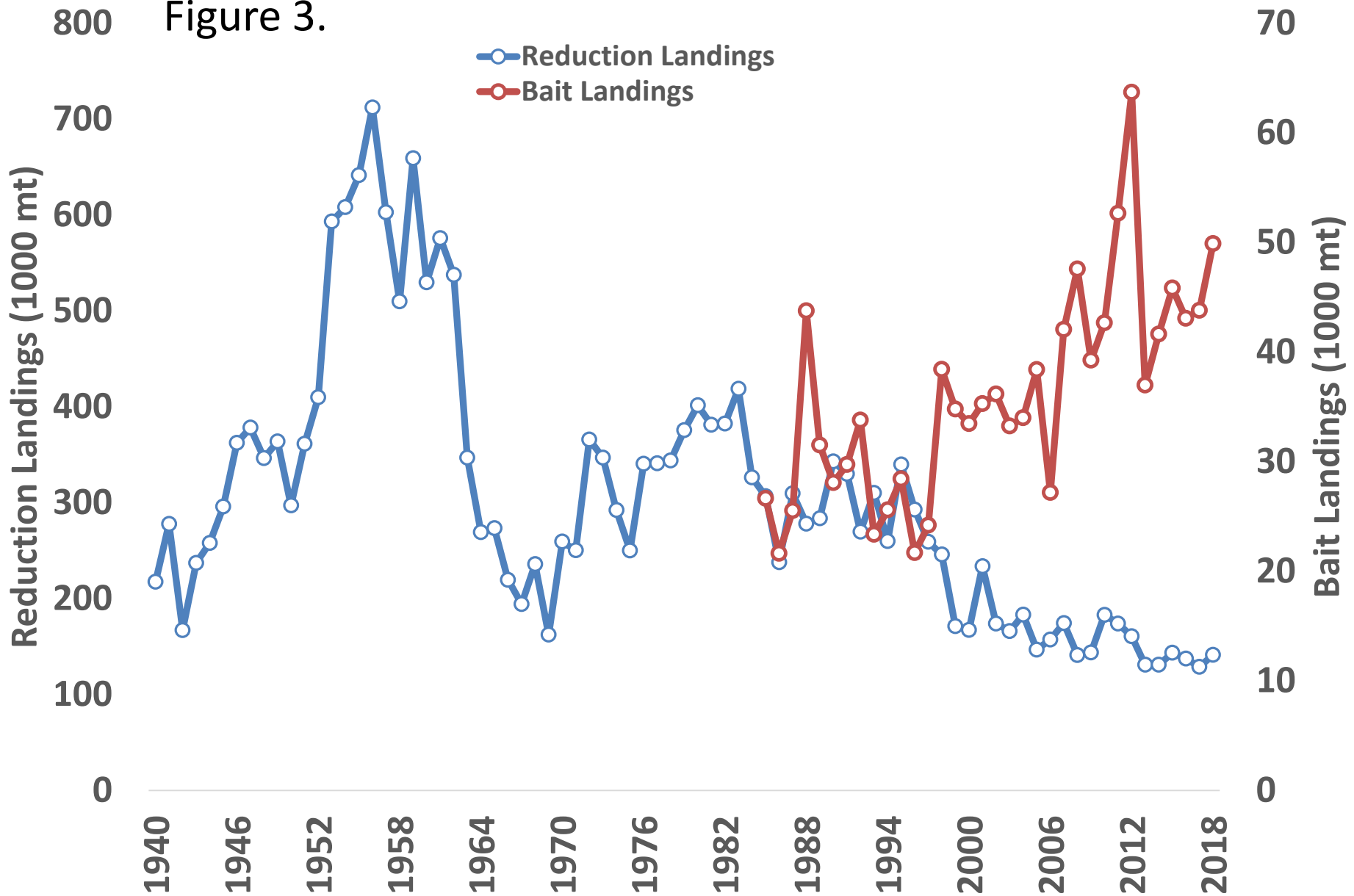
- 2018 Cap was 51,000 MT
- 2018 harvest ~32,000 MT (63% of the Cap)



Status of the Fishery



Figure 3.



2018 Incidental Fishery



Year	Landings (pounds)	Number of Trips	Number of states landing
2013	4,376,741	2,783	6
2014	6,831,462	5,275	8
2015	5,991,612	4,498	9
2016	2,581,272	2,222	9
2017	2,730,055	2,093	7
2018	3,214,690	1,224	3
Prev 5-year average	4,502,228	3,374	



Episodic Events Set Aside



- 2018 EESA quota = 4.48 million pounds
- 2018 EESA landings = 4.64 million pounds
 - ME was the only participating state in 2018
 - 159,433 pound overage paid back by Maine

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%



Quota Performance (Table 7)



State	2018 Base Quotas	Transfers [^]	Final 2018 Quota	Overages	2019 Base Quota
ME	2,439,114	5,240,567	7,679,681	-	2,438,677
NH	2,357,315		2,357,315	-	2,357,314
MA	6,027,724		6,027,724	-	6,045,252
RI	2,366,618		2,366,618	-	2,441,380
CT	2,432,640	-500,000	1,932,640	-	2,432,238
NY	3,270,675	-1,000,000	2,270,675	-	3,265,806
NJ	52,013,736		52,013,736	-	51,749,064
PA	2,357,183		2,357,183	-	2,357,183
DE	415,940	-150,000	265,940	-	416,467
MD	9,002,733	-1,500,000	7,502,733	-	8,967,312
PRFC	5,102,086		5,102,086	-	5,087,456
VA	376,543,328	-1,000,000	375,543,328	-	374,548,891
NC	4,540,560		4,540,560	-	4,528,923
SC	10,000		10,000	-	2,357,183
GA	0		0	-	0
FL	2,443,819	-1,250,000	1,193,819	-	2,443,357
TOTAL	471,323,470		471,164,037		471,436,502



2018 Bio Samples (Table 8)



State	#10-fish samples required	#10-fish samples collected	Age samples collected	Length samples collected
ME	21	21	210	210
MA	8	3	30	51
RI	1	4	43	43
CT	1	1	13	13
NY	2	4	41	41
NJ	76	127	1270	1270
DE	1	1	10	10
MD	7	16	188	688
PRFC	7	9	90	90
VA	67	87	870	870
NC	2	2	20	20
Total	193	275	2785	3306



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 2019 fishing season



Notable Comments



- Landings data suggest that Atlantic menhaden have become increasingly available to the Gulf of Maine fishery in recent years
- Incidental catch provision: does not give guidance for when a state subdivides its quota to different gear types or sectors
 - PRT reports landings following the closure of small scale fisheries as incidental catch
 - PRT recommends the incidental catch provision be readdressed in a future management document



PRT Recommendations



- Approve de minimis status for Pennsylvania, South Carolina, Georgia, and Florida
- The PRT recommends that the incidental catch fishery provision issue be readdressed in a future management document.



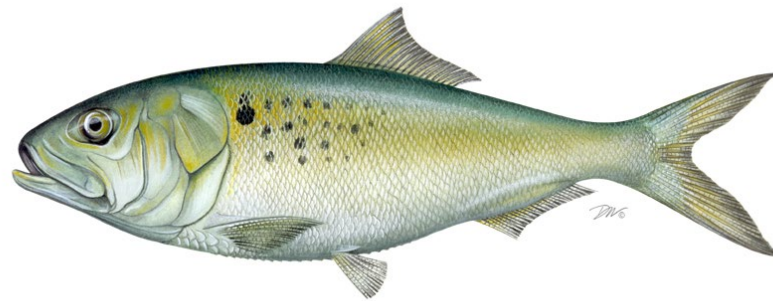


Questions?





Set 2020 Fishery Specifications



Atlantic Menhaden Management Board

August 6, 2019

Background



- The TAC is set through Board action, either on an annual basis or for multiple years, based on the best available science (e.g., projections)
- In Nov 2017, the Board set the TAC for 2018 and 2019 with the expectation that setting of the TAC for subsequent years would be guided by menhaden-specific ERPs
- However, the benchmarks will not be ready for Board review until February 2020



2017 Projections



- In 2017, the TC prepared projections:
 - Based on the 2017 stock assessment update
 - Projections for 2017-2020
 - Assumed constant landings at 200,000 metric tons (2017 TAC) for 2017-2020



2017 Projections



Percent Risk of exceeding F_{target}	TAC (mt)	2018	2019	2020
	200,000	9.5%	0.5%	0%
	210,000	12%	1.5%	0%
	220,000	15.5%	3.5%	0%
	240,000	22.5%	9.5%	2.5%
	260,000	29.5%	20.5%	10.5%
	280,000	37.5%	33%	29%

Percent Risk of exceeding $F_{\text{threshold}}$ (Overfishing)	TAC (mt)	2018	2019	2020
	200,000	0%	0%	0%
	210,000	0%	0%	0%
	220,000	0%	0%	0%
	240,000	0.5%	0%	0%
	260,000	1.5%	0%	0%
	280,000	2.5%	0%	0%



Options for Setting the 2020 TAC



1. The Board can use the existing projections and set the 2020 TAC today
2. The Board can request updated projections based on 2017 SA and set TAC at Annual Meeting
 - Board can revisit the 2020 TAC under Options 1 or 2
3. The Board could defer action on the 2020 TAC until the 2019 benchmarks and peer review reports are presented and new projections based on the best available science at that time are developed.
 - Indecision clause; 2020 TAC = 2019 TAC in the interim



- Questions?

