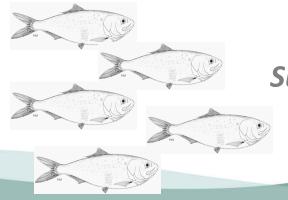




# Consider Extension and Revision to Episodic Events Set Aside Program

Atlantic Menhaden Management Board May 4, 2016



Sustainably managing Atlantic Coastal Fisheries

## Overview



- Consider an extension to the Episodic Event Set Aside Program
  - Review the Program
  - Performance of the program 2013-2015
- Consider a Revision to the Episodic Event
   Set Aside Program
  - Review proposal from New York













# **Episodic Event Set Aside Program**



- Board approved a 1% TAC set aside for episodic events through Amendment 2 (December 2012)
- Board tasked Subcommittee of New England states to further develop episodic events program (February 2013).
- Board approved an episodic events set aside pilot program for 2013 (May 2013)
- At Annual meeting 2013, the Board extended program through 2015, and included a provision to rollover unused set aside on November 1.

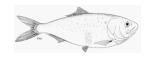












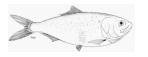
# **Current Eligibility**



- New England States (ME CT)
- States must implement the following:
  - Daily trip level harvester reporting submitted weekly to ASMFC
  - Episodic event harvest must be restricted to state waters only.
  - -States must implement a maximum daily trip limit no greater than 120,000 pounds/vessel.

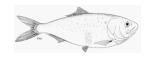












# **Declaring Participation**



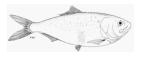
- State monitors landings to determine if an episodic event occurs.
- Episodic events defined as any instances when a qualified state has reached its individual state quota, prior to September 1, and has information indicating the presence of unusually large amounts of menhaden in its state waters.
- If an episodic event is triggered, the state must declare to ASMFC by September 1 that it plans to begin harvesting from the set aside.
- States declaring participation in the episodic event program will not be eligible for *de minimis* status.

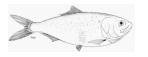
#### Procedure for Unused Set Aside and Overages



- If an episodic event is not triggered by September 1,
  - quota will immediately be rolled into the overall quota and redistributed to the states based on Amendment 2.
- If an episodic event is triggered by September 1,
  - Any unused set aside by October 31, any remaining quota be rolled into the overall quota and redistributed to the states based on Amendment 2.
- Overage: If the episodic event set aside is exceeded, any overages will be deducted from the next year's episodic event set aside amount.

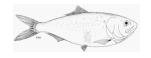












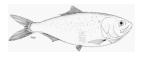
# **Set Aside Performance**



Year	Set Aside (lbs)	Landed (lbs)	% Used		Unused Set Aside Reallocate d (lbs)
icai	(IDS)	(IDS)	/0 USEU	State	u (lb3)
2013	3,765,491	-	-		3,765,491
2014	3,765,491	295,000	8%	RI	3,470,491
2015	4,142,040	1,883,292	45%	RI	2,258,748













#### **Consider Extension of Set Aside Program**



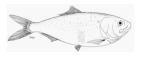
 The Episodic Event Set Aside Program was previously extended through Board Action through 2015.

 The Board may consider another extension of the program through Board action at this meeting.

 The Board may also adjust any provisions of the episodic event set aside through Board action













## Overview



- Consider an extension to the Episodic Event Set Aside Program
  - Review the Program
  - Performance of the program 2013-2015
- Consider a Revision to the Episodic Event Set Aside Program
  - Review proposal from New York













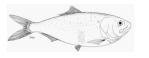
# **New York Proposal**



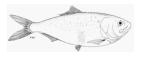
- Request to be included as part of the Episodic Event Set Aside Program
- New York experiencing episodic fish kills in Peconic Bay in both 2015 and 2016
- Fish kills result in enormous clean-up, and socioeconomic impacts
- New York is requesting to land under the set aside
  - Noted geographical proximity to New England













## **PRT Review**

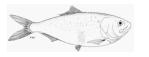


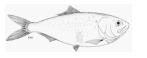
- PRT Reviewed New York's proposal to evaluate mandatory provisions (1) state only harvest (2) daily trip limit 120K/vessel (3) daily trip level reported weekly
- Recommendations:
  - The daily reporting is critical especially given NY's quota overages in 2014 and 2015 assuming they relate to lesstimely reporting.
  - ASMFC may want to consider requesting more frequent than weekly reporting to ASMFC considering 12 vessels at 30,000 lbs/day could land 360,000 lbs daily compared to 4.14 mlb set-aside.

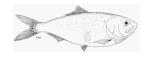












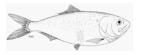
## **Board Possible Actions**



Consider a revision to the Episodic Event
 Set Aside Program to include New York







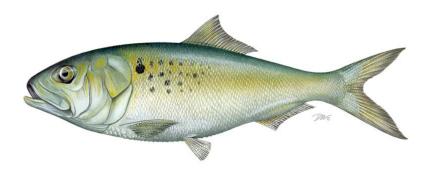








# Draft Addendum I for Public Comment



Atlantic Menhaden Management Board May 4, 2016

Vision: Sustainably Managing Atlantic Coastal Fisheries

# Timeline



- Feb: Board initiated Draft Addendum I to consider revision to Amend 2 bycatch allowance
- May: Board reviews Draft Addendum I for Public Comment
- May-July: Public Comment Period
- Aug: Board Reviews Public Comment and selects final options
- TBD: Provisions implemented

# Menhaden Bycatch Provision



#### How it works:

- All landings prior to a state reaching its quota count toward the quota
- Once a state reaches its quota it closes its fishery and can land 6,000 pounds per vessel/day as bycatch
- However, bycatch provision does not allow two individuals to fish from same vessel to land up to 12,000 pounds bycatch
- They must fish separately and land 6,000 pounds each

## Statement of the Problem



 This creates inefficiencies because in the Ches Bay it is common during open season for pound netters to pool resources and fish together

 PDT examined all stationary multi-species gear to examine if other gear types may benefit from pooling resources

# Performance of Fishery



- From 2013-2015 bycatch averaged 5.63 million pounds
  - Ranged from 4.38-6.58 mil pounds.
- This represents approx 1-2% of coastwide landings
- By Location:
  - Ches Bay accounts for 81% of bycatch total
  - NY, NJ, FL, DE, RI account for remaining
- By Gear:
  - 61% landed by pound nets
  - 24% landed by anchored/staked gillnets

# 2013-2015 Bycatch Analysis



VES COMM										
MD	VA	PRFC	NY	NJ**	FL	DE	RI*	Sum lbs (NonConf)	% of Total	
Stationary Gears While Fishing										
2,306,552	122,913	884,843	128,854	C	-	-	57,231	3,500,393	60.9%	
5,131	1,242,512	•	•	100,202	С	28,998	С	1,376,843	24.0%	
10,001	•	•	С	•	С	С	ı	10,001	0.2%	
С	С	•	•	С	•	-	ı	918	0.0%	
Mobile Gears While Fishing										
С	-	•	183,137	С	163,776	-	С	346,913	6.0%	
16,082	57,794	•	18,175	129,620	•	66,117	ı	287,788	5.0%	
С	5,119	-	206,587	-	-	-	-	211,706	3.7%	
-	-	-	9,733	С	-	-	С	9,733	0.2%	
С	-	-	-	-	С	-	С	278	0.0%	
2,337,766	1,428,339	884,843	546,485	229,822	163,776	95,116	57,231	5,744,572		
40.7%	24.9%	15.4%	9.5%	4.0%	2.9%	1.7%	1.0%			
	Fishing  2,306,552  5,131  10,001  C  16,082  C  -  C  2,337,766	Fishing  2,306,552	Fishing         2,306,552       122,913       884,843       128,854       C       -       -       57,231         5,131       1,242,512       -       -       100,202       C       28,998       C         10,001       -       -       C       -       C       -       -         C       C       -       -       C       -       -       -         Ning       -       -       183,137       C       163,776       -       C         16,082       57,794       -       18,175       129,620       -       66,117       -         C       5,119       -       206,587       -       -       -       C         C       -       -       9,733       C       -       -       C         C       -       -       -       -       -       C         C       -       -       -       -       -       C         16,082       57,794       -       206,587       -       -       -       -       -         -       -       -       -       -       -       -       -       -	Fishing           2,306,552         122,913         884,843         128,854         C         -         57,231         3,500,393           5,131         1,242,512         -         -         100,202         C         28,998         C         1,376,843           10,001         -         -         C         -         C         -         10,001           C         C         -         -         C         -         -         918           ning         C         -         183,137         C         163,776         -         C         346,913           16,082         57,794         -         18,175         129,620         -         66,117         -         287,788           C         5,119         -         206,587         -         -         -         -         2         1,706           -         -         -         9,733         C         -         -         C         9,733           C         -         -         -         -         -         C         9,733           C         -         -         -         -         -         C         278						

## Performance of Fishery



- From 2013-2015 a total of 12,750 trips landed under bycatch allowance
- 8,979 trips were from stationary gears
- Ches Bay accounts for 88% of all stationary gear trips
- Of those trips in the Chesapeake Bay
  - Approx 40% are from MD and PRFC pound nets
  - Approx 59% are from anchored/staked gill nets in VA
- Of stationary trips 60% landed less than 1,000 pounds
- Pound nets were only notable gear that accounted for trips exceeding 3,000 pounds

# 2015 Bycatch Analysis



Bins (LBS)	VA	MD	PRFC	NJ	NY	DE	RI*	FL	Total Trips	Total Bin%
1-1000	71%	35%	31%	85%	88%	91%	53%	100%	5,350	59.6%
1001-2000	13%	12%	21%	10%	9%	4%	14%	0%	1,176	13.1%
2001-3000	7%	8%	15%	3%	С	4%	18%	0%	716	8.0%
3001-4000	3%	7%	10%	1%	3%	1%	4%	0%	426	4.7%
4001-5000	3%	7%	13%	С	С	1%	3%	0%	441	4.9%
5001-6000	2%	14%	10%	С	С	0%	6%	0%	519	5.8%
6000+	0%	16%	0%	С	С	0%	3%	0%	351	3.9%
Total Trips	4672	2057	1138	477	345	165	102	23	8,979	
Total Trips %	52.0%	22.9%	12.7%	5.3%	3.8%	1.8%	1.1%	0.3%		

# 2015 Bycatch Analysis



Bins (LBS)	VA	MD	PRFC	NJ	NY	DE	RI*	FL	Total Trips	Total Bin%
1-1000	71%	35%	31%	85%	88%	91%	53%	100%	5,350	59.6%
1001-2000	13%	12%	21%	10%	9%	4%	14%	0%	1,176	13.1%
2001-3000	7%	8%	15%	3%	С	4%	18%	0%	716	8.0%
3001-4000	3%	7%	10%	1%	3%	1%	4%	0%	426	4.7%
4001-5000	3%	7%	13%	С	С	1%	3%	0%	441	4.9%
5001-6000	2%	14%	10%	С	С	0%	6%	0%	519	5.8%
6000+	0%	16%	0%	С	С	0%	3%	0%	351	3.9%
Total Trips	4672	2057	1138	477	345	165	102	23	8,979	
Total Trips %	52.0%	22.9%	12.7%	5.3%	3.8%	1.8%	1.1%	0.3%		

# **Performance of Fishery**



#### In Summary:

- Bycatch landings are largely from pound net fisheries in MD and PRFC
- As well as anchored gill net fishery in Virginia
- Pound net trips are landing menhaden in amounts that would lend to cooperative fishing behavior
- However, there are other stationary multi-species gear types in all other jurisdictions that land menhaden as bycatch.

### **Stationary Gears and Landings Comp**



- PDT examined catch composition by gear
  - Atl. Menhaden averaged 71% catch in weight for all gears combined
  - Expected because only considers trips catching menhaden
- Pound nets are fixed staked or anchored nets that passively catch menhaden in large schools
- Staked gill nets usually remain in same fixed location
- Anchored gill nets are stationary while set, but can move daily.
- Gill net catch depends on areas being fished
- Pots are not multi-species gear and are usually targeting specific species

#### **Stock Status and TC Review**



- Stock is not overfished and overfishing is not occurring
- TC previously reviewed conservation equivalency from MD and PRFC where they originally proposed modification to bycatch allowance to allow fishing together
- TC agreed that proposal from MD and PRFC would not adversely impact biological status of menhaden because
  - Current healthy stock status
  - Limited amount of bycatch allowance landings
  - MD and PRFC pound net fisheries are limited entry

## 3. Management Actions



- Revises Section 4.2.1.7 of Amendment 2:
- Option A: Status quo
  - Bycatch allowance shall not exceed 6,000 pounds per day/vessel
- Option B: Working together permitted for all stationary multi-species gears.
  - Two authorized individuals fishing stationary multispecies gears are permitted to work together to land up to 12,000 pounds per day.
  - Stationary multi-species gears are defined as: pound nets, anchored/staked gill nets, and fyke nets.
  - Excludes pots because it is not a multi-species gear

# 3. Management Actions



- Option C: Working together permitted for all stationary multi-species gears, operating in limited entry fisheries.
  - Two authorized individuals fishing stationary multispecies gears are permitted to work together to land up to 12,000 pounds per day.
  - Stationary multi-species gears are defined as: pound nets, anchored/staked gill nets, and fyke nets which are limited entry
  - Excludes pots because it is not a multi-species gear

State/Jurisdict	Bycatch Trip Limit	State further define non-directed	Stationary Gear Types that are Limited	
ion	(lbs)	fisheries?	Entry	AIL
ME	6,000	All gears allowed	None that catch menhaden	AINE · NO
NH	6,000	All trips all year regardless of gear type limited to <6,000 lbs	None that catch menhaden	30
MA	1,000	Menhaden harvest not to exceed 5% of trip's entire harvest, by weight	Lobster pot, fish pot, gillnet	
RI	6,000	Non-direct gear are defined as cast nets, floating fish traps, and rod and reel	Floating fish traps, lobster pots, and gillnets are limited entry	
СТ	6,000	All trips all year regardless of gear type limited to <6,000 lbs	None that catch menhaden	
NY	6,000	All gears except purse seine and hook and line	None that catch menhaden	
NJ	6,000	All gears allowed	Cap on license numbers for all gears; non-license holders limited to 100 lb per day	
DE	N/A	bycatch fishery only. no capacity for >6,000 lbs		
MD	6,000 PN, 1,500 other	Pound nets, but 1,500 limit for other gears	All gear is limited entry, no anchor gillnets are allowed in MD portion of Chesapeake Bay	
PRFC	6,000	Pound nets only	Pound nets	
VA	6,000	6,000 All non-purse seine bait gears  Cap on the number of pound in can be set. Gill net permits are entry to allow individuals to set than 6,000 feet of gill nets permits are entry to allow individuals to set than 6,000 feet of gill nets permits are entry to allow individuals to set than 6,000 feet of gill nets permits.		
NC	6,000	Through proclamation when needed	None that catch menhaden	
SC	N/A	No notable landings history	N/A	
GA	N/A	No notable landings history	N/A	

## 3. Management Actions



- Option D: Working together permitted for pound nets only.
  - Two authorized individuals fishing pound nets are permitted to work together to land up to 12,000 pounds per day.
  - Two individual fishing together and reaching current bycatch limit is most commonly documented for pound nets
  - Supported by 2013-2015 bycatch data

# 4. Compliance



 States may implement any applicable changes to their bycatch allowance immediately upon final Addendum approval by the Board

 Note, the Board also initiated Amend 3 to consider ecosystem-based reference points and revisit state-bystate allocations scheduled for completion for 2018.

 Any options selected in Addendum I may be changed through Amendment 3.



# Atlantic Menhaden Stock Projection Setup

May 5, 2016 Alexandria, Virginia



# **Projections Setup**



 Use BAM and follow projection methodology detailed in peer reviewed 2015 stock assessment.

#### <u>Assumptions</u>

- functional forms used to describe population dynamics, selectivity, recruitment
  - e.g., dome shaped selectivity
- Median recruitment over time
- Allocation stays same between Bait and Red
- Fishing mortality occurs throughout the year
- Does the Board want the TC to revisit these assumptions or keep them the same?

# **Projections Setup**



#### Catch Input:

- 2014: TAC was 170,800 mt
- 2015 & 2016: TAC was increased 10% to 187,880 mt
  - TC can update projections using actual catch from 2014 and 2015, and assumed catch in 2016

#### **Projection Timeframe:**

- Was short term 2015 2017
- Reason: maintains at least one age class within projections
- TC can run projections beyond 2017 but will not be informed by observed data (terminal year of assessment was 2013)

## **Projection Runs from 2015**



- 1. Status quo in 2015 was: 170,800 mt
- Other runs: 5, 10, 15, 20% less the reduction from historical landings time period
- 3. Constant TAC to achieve F target in 2017
  - Required assumption about percent risk

	TAC (mt)	2015	2016	2017
Percent Risk	170,800	50%	23%	3%
of exceeding	181,475	57%	28%	9%
	192,150	62%	35.5%	15%
F <sub>target</sub>	202,825	68%	42%	21.5%
	213,500	73%	49.5%	27.5%
Achieve F Target	246,900	84%	72%	50%

# **Projection Runs for 2017?**



- TC can update projections to show different catch scenarios
- 1. Status quo in 2016: 187,880 mt
- 2. The Board can provide guidance on specific TAC level desired for use in projections.
- 3. The Board can specify a TAC that will achieve F target in 2017
  - Board needs to choose risk level
  - TC previously used 50% because Board did not define risk in 2015

# **Projection caveats**



- Projections are highly uncertain
- Did not include structural (model) uncertainty
- Conditional on set of functional forms (e.g., selectivity, recruitment)
- Fisheries were assumed to continue at current proportions of allocation (Bait and Reduction) using current selectivity
  - New mgmt regs that alter the proportions or selectivities would likely affect projection results

# **Projection caveats**



- If future recruitment is characterized by runs of large or small year classes, possibly due to environmental or ecological conditions, stock trajectories may be affected
- Projections apply the Baranov catch equation
  - Assumes mortality occurs throughout the year
  - If assumption is violated (e.g., seasonal closures), additional, unquantified uncertainty will be introduced into the projection results

## **Projection Runs from 2015**



- 213,500 mt = average catch from 2009-2011 prior to implementation of Amendment 2
- 2. 202,825 mt = if 5% reduction from 2009-2011 average catch
- 3. 192,150 mt = if 10% reduction from 2009-2011 average catch
- 4. 181,475 mt = if 15% reduction from 2009-2011 average catch
- 5. 170,800 mt = status quo; 20% reduction from 2009-2011 average catch
- 6. TAC that has a 50% probability of achieving F target in 2017
  - constant catch approach
- 7. TAC that has a 50% probability of achieving F target in every year
  - constant F approach
- Board decided to increase TAC by 10% to 187,880 mt

# Projection Tables Will Be Updated

TAC (mt)

202,825

213,500

<sup>r</sup>threshold

(Overfishing)

2015

3%

4%

2016

< 0.5%

<1%



2017

0%

0%

Percent Risk	170,800	50%	23%	3%
	181,475	57%	28%	9%
of exceeding	192,150	62%	35.5%	15%
F <sub>target</sub>	202,825	68%	42%	21.5%
	213,500	73%	49.5%	27.5%
	TAC (mt)	2015	2016	2017
Percent Risk	170,800	1.5%	0%	0%
of exceeding	181,475	2%	0%	0%
Fthrospold	192,150	2%	0%	0%

## **Projection 6**



- The TAC that has a 50% probability of achieving F target in 2017 (constant catch approach) was 246,900 mt
- TAC would be held constant for a three year time period (2015-2017).

246,900 mt TAC	2015	2016	2017
Percent risk of exceeding F <sub>target</sub>	84%	72%	50%
Percent Risk of exceeding F <sub>threshold</sub>	8.5%	<1%	0%

## **Projection 7**



- TAC that has a 50% probability of achieving F<sub>target</sub> in every year (constant F approach)
- Note the TAC would change each year to ensure a 50% probability of maintaining F at the target.

	2015	2016	2017
TAC (mt)	173,000	223,900	265,900
Percent risk of exceeding F <sub>target</sub>	50%	50%	50%
Percent Risk of exceeding F <sub>threshold</sub>	1.5%	0%	0%

## **Amendment 2**



Amendment 2 Allocation Percentages (rounded to two decimal places)

State	TAC Percentage (%)
Maine	0.04
New Hampshire	0
Massachusetts	0.84
Rhode Island	0.02
Connecticut	0.02
New York	0.06
New Jersey	11.19
Delaware	0.01
Maryland	1.37
PRFC	0.62
Virginia	85.32
North Carolina	0.49
South Carolina	0
Georgia	0
Florida	0.02

## Allocation Table of Projections 1-6

4	C STATE	5
ATLA		DAINE
•	7	•
FISHER		MISSIO

96,845

		IIGNI	5 0111	Ojecti		TO THE COMMISSION
						as com-
MT	170,800	181,475	192,150	202,825	213,500	246,900
Pounds	376,549,096	400,083,415	423,617,733	447,152,052	470,686,370	544,320,678
After Set Aside	372,783,605	396,082,580	419,381,556	442,680,531	465,979,506	538,877,471
ME	146,787	155,962	165,136	174,310	183,484	212,189
NH	112	119	126	133	140	162
MA	3,126,024	3,321,400	3,516,777	3,712,153	3,907,530	4,518,825
RI	66,779	70,952	75,126	79,300	83,473	96,532
СТ	65,034	69,099	73,163	77,228	81,292	94,010
NY	206,695	219,614	232,532	245,451	258,369	298,788
NJ	41,721,164	44,328,737	46,936,309	49,543,882	52,151,455	60,310,043
DE	49,230	52,307	55,384	58,460	61,537	71,164
MD	5,116,874	5,436,678	5,756,483	6,076,287	6,396,092	7,396,698
PRFC	2,314,174	2,458,810	2,603,446	2,748,082	2,892,718	3,345,256
VA	318,066,790	337,945,964	357,825,138	377,704,313	397,583,487	459,781,559
NC	1,836,948	1,951,757	2,066,566	2,181,375	2,296,185	2,655,400
SC	-	-	-	-	-	-

75,370

79,557

83,744

**GA** 

FL

66,995

71,182

## Allocation Table of Projection 7

TIC STATES	
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	• NO
TOTAL S COMME	3

V	2015	2016	2017
Year	2015	2016	2017
Metric Tons	173,000	223,900	265,900
Pounds	381,399,260	493,614,418	586,208,458
After Set Aside	377,585,267	488,678,274	580,346,373
ME	148,678	192,422	228,517
NH	113	147	174
MA	3,166,289	4,097,873	4,866,567
RI	67,639	87,539	103,960
СТ	65,872	85,252	101,244
NY	209,358	270,955	321,781
NJ	42,258,556	54,691,853	64,951,156
DE	49,864	64,535	76,641
MD	5,182,782	6,707,658	7,965,906
PRFC	2,343,982	3,033,628	3,602,687
VA	322,163,669	416,950,551	495,163,696
NC	1,860,609	2,408,036	2,859,745
SC	-	-	-
GA	-	-	-
FL	67,858	87,823	104,298



## **BERP Workgroup Update**

May 4, 2016

## BERP WG Updates



Last update at the Board Annual Mtg 2015

 Board recommended BERP WG move forward with ERP model development

- BERP WG met March
  - Updates on modeling approaches
  - Create general timeline

## **BERP WG Timeline**



Last single-species assessment end of 2014

 BERP WG added anticipated multi-species model assessment for end of 2019

BERP WG will update the Board Spring/Annual meeting yearly

## **BERP WG Timeline**



- Multiple, multi-species models in a singlespecies timeframe
- 2016/2017
  - Modeling workshops
  - Both internal and externally developed models
  - Ultimate decision on package included in benchmark
- 2018
  - Data workshops
- 2019
  - Assessment workshops/benchmark

#### **BERP WG 2016**



July Modeling Workshop

Focusing on Steele-Henderson Model

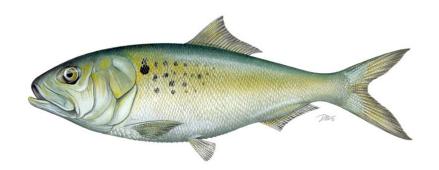
Progress updates from 3 other models

BERP WG update to Board in October



#### Vision: Sustainably Managing Atlantic Coastal Fisheries

# 2016 FMP Review of the 2015 Fishery for Atlantic Menhaden



Atlantic Menhaden Management Board May 4, 2016

## Status of FMP



- Amendment 2, implemented July 2013
- Established coast wide TAC = 376.6 mil pounds in 2013 and 2014 and 414.2 mil pounds in 2015 and 2016
- Episodic Event Set Aside (1% of overall TAC)
- State allocated quotas (2009-2011) landings history
- Transfer of quotas
- 6,000 pound bycatch allowance for non-directed fisheries
- 20% reduction in Chesapeake Bay reduction fishery harvest cap
- Timely reporting to minimize quota overages
- Improved biological monitoring

## Status of FMP



#### October 2013:

- The Board extended the episodic event set aside program through 2015.
- Re-allocation provision; any unused set aside as of October 31 of each year will be re-allocated to the coastwide states.

#### • February 2014:

 The Board passed a motion to manage cast net fisheries for Atlantic menhaden under the bycatch allowance through 2015.

#### May 2016:

- Consider extension of episodic event set aside program
- Consider Draft Addendum I to modify bycatch allowance

## Status of the Stock

**Targets** 



Interim reference points based on maximum spawning potential (MSP)

• Thresholds

- F15%MSP F30%MSP

— FEC15%MSP
FEC30%MSP

2015 Benchmark Assessment Recommended new BRPs

Peer review recommended geometric mean F ages 2-4

- F26%MSP F57%MSP

– FEC26%MSP FEC57%MSP

- Using the new recommended reference points:
  - Stock is not overfished and overfishing is not occurring
- Still using interim reference points while ERPs are being developed

## 2015 Status of the Fishery



- TAC: 414.2 mil pounds
- Total harvest excluding bycatch= 410.6
  - -10.5% increase from 2014
- Bycatch harvest = 5.9 mil pounds
  - -1.4% of coastwide harvest
  - but does not count towards TAC
- Total harvest (including bycatch)= 416.5 mil pounds

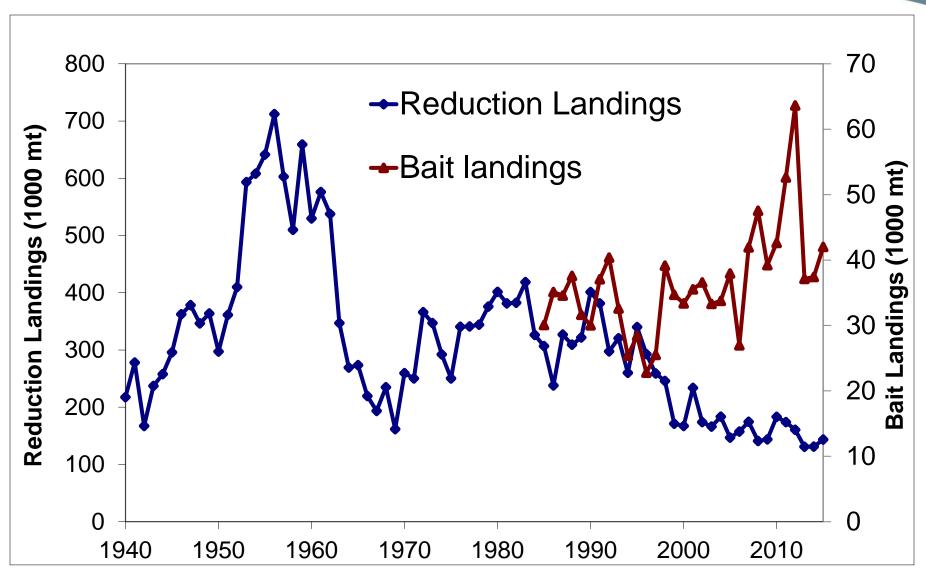
## 2015 Status of the Fishery



- Reduction harvest: 316.2 mil pounds
  - -9.4% increase from 2014
  - —1.8% decrease from previous 5-year average
- Bait harvest: 92.5 mil pounds
  - -10.6% increase from 2014
  - —10.4% decrease from previous 5-year average

## Atlantic Menhaden Landings





## 2013-2015 Bycatch Analysis



									ES COMM
MD	VA	PRFC	NY	NJ**	FL	DE	RI*	Sum lbs (NonConf)	% of Total
Stationary Gears While Fishing									
2,306,552	122,913	884,843	128,854	C	-	-	57,231	3,500,393	60.9%
5,131	1,242,512	•	•	100,202	С	28,998	С	1,376,843	24.0%
10,001	•	•	С	•	С	С	•	10,001	0.2%
С	С	•	•	С	•	-	ı	918	0.0%
ning									
С	-	•	183,137	С	163,776	-	С	346,913	6.0%
16,082	57,794	•	18,175	129,620	•	66,117	ı	287,788	5.0%
С	5,119	-	206,587	-	-	-	-	211,706	3.7%
-	-	-	9,733	С	-	-	С	9,733	0.2%
С	-	-	-	-	С	-	С	278	0.0%
2,337,766	1,428,339	884,843	546,485	229,822	163,776	95,116	57,231	5,744,572	
40.7%	24.9%	15.4%	9.5%	4.0%	2.9%	1.7%	1.0%		
	Fishing  2,306,552  5,131  10,001  C  16,082  C  -  C  2,337,766	Fishing  2,306,552	Fishing         2,306,552       122,913       884,843       128,854       C       -       -       57,231         5,131       1,242,512       -       -       100,202       C       28,998       C         10,001       -       -       C       -       C       -       -         C       C       -       -       C       -       -       -         Ning       -       -       183,137       C       163,776       -       C         16,082       57,794       -       18,175       129,620       -       66,117       -         C       5,119       -       206,587       -       -       -       C         C       -       -       9,733       C       -       -       C         C       -       -       -       -       -       C         C       -       -       -       -       -       C         16,082       57,794       -       206,587       -       -       -       -       -         -       -       -       -       -       -       -       -       -	Fishing           2,306,552         122,913         884,843         128,854         C         -         -         57,231         3,500,393           5,131         1,242,512         -         -         100,202         C         28,998         C         1,376,843           10,001         -         -         C         -         C         C         -         10,001           C         C         -         -         C         -         -         918           ning         C         -         183,137         C         163,776         -         C         346,913           16,082         57,794         -         18,175         129,620         -         66,117         -         287,788           C         5,119         -         206,587         -         -         -         -         211,706           -         -         -         9,733         C         -         -         C         9,733           C         -         -         -         -         -         C         9,733           C         -         -         -         -         -         - <td< td=""></td<>					

# 2015 Bycatch Analysis



Bins (LBS)	# of trips	% of total trips
1-1000	3163	68%
1001-2000	582	12%
2001-3000	316	7%
3001-4000	139	3%
4001-5000	132	3%
5001-6000	196	4%
6000+	140	3%
Total	4668	

## **Episodic Events Set Aside**



- ME, MA, RI qualified
- Implemented mandatory fishery management provisions of the set aside (i.e., daily reporting, 120,000 pound trip limit, restricting harvest to state waters).
- Only RI declared participation in 2015 and harvested less than 1.9 mil pounds.
- Unused set aside was re-allocated to all the coastal states on November 1<sup>st</sup>.

## **2015 Quota Performance**

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Stat		<b>Total 2015</b>			
е	Transfer	Quota	2015 Landings	Overage	<b>2016</b> Quota
ME		162,356	С		161,466
NH		124	0		123
MA	(508,685)	2,948,886	2,932,128		3,438,630
RI	33,685	107,546	107,142		73,457
СТ		71,931	71,537		71,537
NY	475,000	703,617	698,853		227,365
NJ		46,146,129	47,569,115	1,422,986	44,470,349
DE		54,451	54,153		54,153
MD		5,659,572	5,601,853		5,628,568
PRFC		2,559,617	2,283,685		2,545,595
VA		351,801,096	348,490,296		349,873,884
NC		2,031,775	839637		2,020,645
SC		-	С		-
GA				-	-
FL		74,101	75766	1,665	72,030
Total		412,321,201	408,724,164.80	1,424,651	408,637,802

## 2015 Quota Transfers



- Massachusetts transfers:
  - -475,000 pounds to New York
  - -33,685 pounds to Rhode Island
- Overages occurred in 4 states
  - Florida and RI were high daily landings rates relative to small quotas
  - New Jersey had delinquent dealer reports
  - New York reporting on a monthly basis

## 2015 Reporting



- NY has monthly reporting, but has the capability of requiring weekly reporting if needed.
  - NY had a quota overage in 2014 and 2015
- All other states implemented timely reporting.

## 2015 Bio Samples



State	Total Bait Landings (pounds)	#10-fish samples required	#10-fish samples collected	Age samples collected	Length samples collected	Gear/Comments
MA	2,932,128	4	4	40	40	all capture via cast net south of cape cod
RI	177089	0	9	110	110	floating fish trap (8) and purse seine (1)
СТ	77,003	0	2	22	22	gill nets
NY	1,468,165	2	22	190	220	gill nets, pound nets, seines
NJ	47,810,037	72	130	1300	1300	purse seine (119), and other gears (11)
DE	150,542	0	1	10	10	gill net
MD	7,551,430	17	23	277	914	pound net (12 from CBay,11 from Potomac River)
PRFC	2,739,035	6	14	140	140	pound net
VA	34,312,808	78	79	794	794	pound net (9), gill net (9), haul seine (3)
NC	839,637	2	9	120	120	gillnet, seine, trawl
	Total	183	293	3003	3670	

## Adult CPUE Index Requirement



- Amendment 2 requirement
  - -Total pounds landed per day
  - Number of pound nets fished per day

 All states in compliance with an exemption for North Carolina previously issued by Board

 Stock assessment did not end up using any fishery dependent surveys in 2015 assessment.

## Chesapeake Bay Reduction Harvest Cap



 2015 harvest cap for reduction fishery from Chesapeake Bay: 98,192 mt

 Approximate reported 2015 harvest: ~50,000 mt

- 2015 harvest cap: 98,192 mt
  - -Includes 10,976 mt rollover

#### De minimis



 The states of New Hampshire, Pennsylvania, South Carolina, Georgia, and Florida requested de minimis status for the 2016 fishing season.

 All states qualify because their bait landings in 2015 did not exceed 1% of the total coastwide bait landings.

 As a result, the PRT recommends that New Hampshire, Pennsylvania, South Carolina, Georgia, and Florida.

#### **PRT Recommendations**



- Accept the 2015 Fishery Management Plan Review for Atlantic menhaden.
- That the Board:
  - consider the reporting timeframe of New York to minimize future quota overages.
  - consider the de minimis requests from New Hampshire, Pennsylvania, South Carolina, Georgia, and Florida

# 2014 Bycatch Analysis



State	% menhaden % other		Top 3 other Species	Gears				
RI	Unavailable							
NY	67	33	scup, loligo squid, spiny dogfish	fixed nets, cast nets, trawls, gill nets, seines, H&L				
NJ	Unavailable							
DE	spot, American shad, striped bass		1 * '	gill net				
MD	82	18	striped bass, gizzard shad, spot	pound nets, gill nets				
PRFC	80	20	spot, bluefish striped bass	pound nets				
VA	70	30	croaker, bluefish, spot	gill nets, pound nets				
FL	Unavailable							