



## *2016 Stock Status Overview*

Presented to: Marine Fisheries Commission

*DEPARTMENT OF ENVIRONMENTAL QUALITY*

Marine Fisheries

| Tina Moore | August 17, 2017



# *User-Friendly Changes to Annual Stock Status Overview Report*

- Separates state-managed species from species managed cooperatively through federal or interstate management plans
- 14 state-managed stocks
- 23 stocks defer their status to a federal or interstate entity
- Redesigned individual species pages.
- New Fisheries Management, Stock Status Overview, and Species pages



# Updated Website Pages

- [State Fishery Management Plans](#)
- [Species](#)
- [Stock Status Overview](#)
- [Governor's Cup](#)
- [N.C. Saltwater Fishing Tournament Citation Program](#)
- [Fish Tagging Program](#)
- [Carcass Collection Program](#)
- [Rules and Regulations](#)
- [Proclamations](#)
- [Dispute Mediation](#)



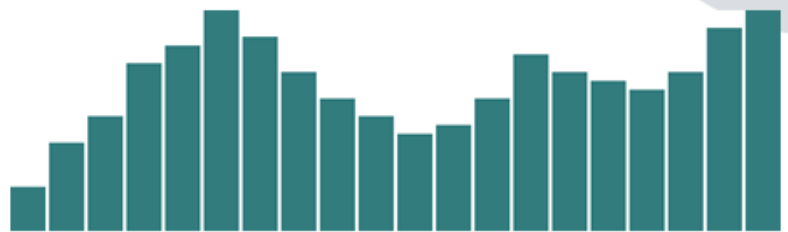
## N.C. Fisheries Management

Fishery managers have a range of goals. They strive to maintain healthy fish populations and a healthy fishing industry - recreational and commercial. To achieve their goals, managers rely on a variety of tools, including quotas, size limits, gear restrictions, fishing seasons and area closures. Managers also provide outreach about their activities so those in the fishing industries and the general public can better understand what goes into management decisions. How do North Carolina's managers determine which combinations of tools will best accomplish their goals?

To choose the best approach to managing a fish stock, managers must equip themselves with as much information as possible. The collection and analysis of such data is a large part of the day-to-day operations of the Fisheries Management section.

# Updated Website Pages

- [North Carolina Annual Fishery Management Plan Review](#)
- [North Carolina Stock Status Overview Categories and Definitions](#)
- [Species](#)
- [North Carolina Annual Stock Status Overview - State Managed Species](#)
- [Management Authority for Species](#)
- [Atlantic States Marine Fisheries Commission](#)



## Stock Status Overview

The North Carolina Division of Marine Fisheries Stock Status Overview is issued annually and reviews available information to determine the overall condition of North Carolina's state-managed fishery resources. The information in each year is based on fisheries data available in the prior year.

Annually, a stock status overview is determined for each state-managed species by the North Carolina Division of Marine Fisheries based on the division's [Stock Status Overview Categories and Definitions](#). Stock assessments are the primary tools used by managers to assist in determining the status of stocks and developing appropriate management measures for their long-term viability. If there is adequate data on a species to conduct a stock assessment, and one is completed that is accepted as a basis for management, the assessment results may be used by fishery managers to adjust harvest regulations. It also may be used for habitat improvements and stock enhancement techniques. If the assessment concludes the stock is in good shape - the stock is not overfished and overfishing is not occurring - then fishery managers may find no changes to existing management strategies are needed.

If the stock is overfished or overfishing is occurring, fishery managers will consider actions to improve the condition of the

# Updated Website Pages

## 2016 NORTH CAROLINA DIVISION OF MARINE FISHERIES STOCK STATUS OVERVIEW - STATE MANAGED SPECIES

(July 2017, based on 2016 Data)



= Viable



= Recovering







= Concern



= Depleted
















= Unknown

Species	Status	Comments
<p>Bay Scallop (Closed to fishing)</p> 		<p>Bay scallops are considered an annual crop, so high natural mortality from environmental change and predation impacts annual abundance. As a result, a stock assessment is not an effective tool for management. Sampling showed low numbers in all areas and harvest was not allowed in 2016 because abundance levels did not meet the thresholds to open the season.</p>
<p>Blue Crab</p> 		<p>Results of the stock assessment update in 2016 met the moderate management trigger for adult abundance. Additional management measures were implemented in June 2016 to improve stock condition. The stock assessment update in 2017 indicates the condition of the stock has not improved and continues to need</p>

# Updated Website Pages

## MANAGEMENT AUTHORITY FOR INTERJURISDICTIONAL SPECIES

Through the North Carolina Fishery Management Plan for Interjurisdictional Fisheries species or species groups managed under the jurisdiction of the North Carolina Marine Fisheries Commission (NCMFC), the Atlantic States Marine Fisheries Commission (ASMFC), and the South and/or Mid-Atlantic Councils (SAMFC and MAFMC).

Species	Stock Status Overview Link	NCMFC	ASMFC	SAFMC	MAFMC
American Eel	 <a href="#">ASMFC</a>		•		
American Shad	 <a href="#">ASMFC</a>		•		
Atlantic Croaker	 <a href="#">ASMFC</a>		•		
Atlantic Menhaden	 <a href="#">ASMFC</a>		•		
Atlantic Sturgeon	 <a href="#">ASMFC</a>		•		
Black Drum	 <a href="#">ASMFC</a>		•		
Black Sea Bass (North of Hatteras)	 <a href="#">ASMFC, MAFMC</a> 		•		•
Black Sea Bass (South of Hatteras)	<a href="#">SAFMC</a> 			•	
Bluefish	 <a href="#">ASMFC, MAFMC</a> 		•		•
Cobia	<a href="#">SAFMC</a> 			•	
Dolphin	<a href="#">SAFMC</a> 			•	

# Updated Website Pages

- [North Carolina Annual Fishery Management Plan Review](#)
- [North Carolina Annual Stock Status Overview - State Managed Species](#)
- [Fisheries Management](#)



## Species

North Carolina estuarine and marine fisheries species may be managed by the state, a federal council, the Atlantic States Marine Fisheries Commission or a combination of any of the three. There are 13 [North Carolina fishery management plans](#). [Click here to see a table of management authority by species](#). [Click on a species to learn more](#).

[American Eel](#)

[Black Sea Bass](#)

[Hickory Shad](#)

[Sheepshead](#)

[Spotted Seatrout](#)

(South of Cape Hatteras)

[American Shad](#)

[Blue Crab](#)

[King Mackerel](#)

[Shrimp](#)

[Striped Bass](#)

# Updated Website Pages

NCDEQ Employee Sign In

Division of Marine Fisheries

DMF - HOMEPAGE ABOUT DMF CONTACT DMF DMF OFFICES - Text: +

## RED DRUM, *Sciaenops ocellatus*



- [Life History](#)
- [Fisheries](#)
- [Management](#)
- [Stock Overview](#)
- [Research Needs](#)
- [Links](#)

### Life History

Red drum (*Sciaenops ocellatus*) are estuarine dependent members of the drum family that includes Atlantic croaker, spot, black drum, weakfish and spotted sea trout. Ranging from Florida to Massachusetts along the Atlantic coast, red drum are most abundant from Virginia to Florida. Red drum, also called channel bass, are common throughout the coastal waters of

### Links

#### Management Agencies

[North Carolina Division of Marine Fisheries](#)

[Atlantic States Marine Fisheries Commission](#)

#### Fishery Management Plans Amendments, Revisions and Supplements

[North Carolina Fishery Management Plan](#)

[Atlantic States Marine Fisheries Commission Plan](#)

#### Contacts

For more information, contact Lee Paramore at  
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 or 252-473-5734

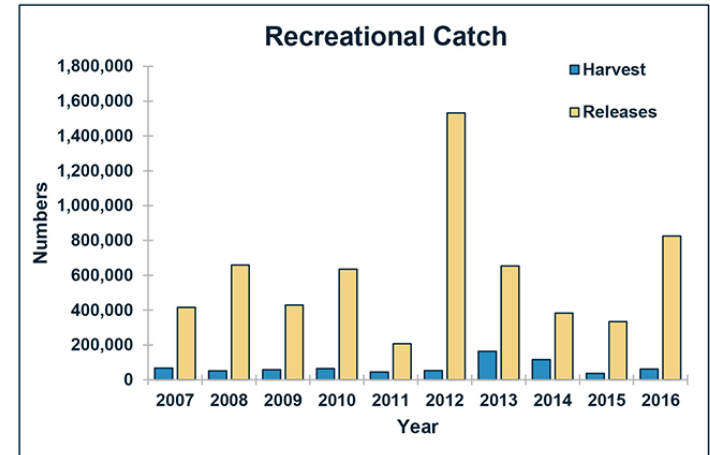


Figure 3. Annual recreational catch of red drum in North Carolina, 2007-2016.

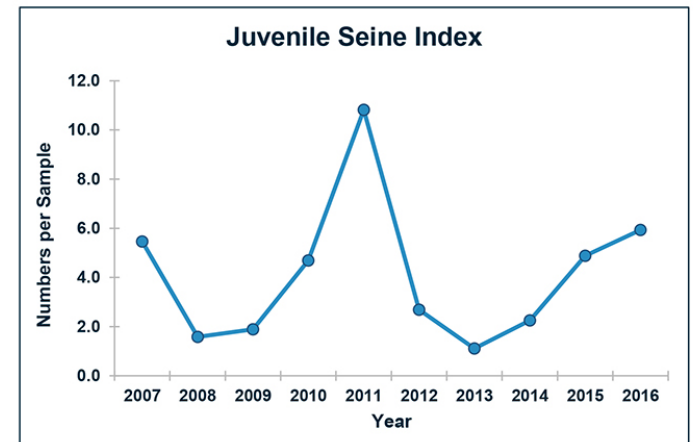


Figure 4. Annual index of relative juvenile abundance of red drum in the Division Red Drum Juvenile Seine Survey, 2007-2016.



## *2016 Stock Status Overview Report*

- Annual report reviews available information to determine the overall condition of North Carolina's state-managed fishery resources
- One change from 2015 to 2016 stock status overview report
- Striped mullet – “VIABLE” to “CONCERN”
  - Monitoring triggers established in Amendment 1 to the North Carolina Striped Fishery Management Plan were met
  - Division will review data to determine what factors are responsible for the decline and to decide if management action is needed

## *2016 Stock Status Overview Report*

- Red drum remains listed as “RECOVERING” based on a new regional stock assessment
- Management measures have controlled fishing mortality to sufficiently meet management targets
- The Atlantic States Marine Fisheries Commission opted to take no further action and will continue to keep management measures in place as determined in Amendment 2 to the Interstate Fishery Management Plan for Red Drum



# QUESTIONS?