

ENHANCE ***** PROTECT ***** CONSERVE

Commission on Marine Resources November Meeting

November 27, 2018



HAUL SEINE NETS IN MISSISSIPPI WATERS

2018

2010 MISSISSIPPI CODE TITLE 49 - CONSERVATION AND ECOLOGY CHAPTER 15 - SEAFOOD.

49-15-78 - PROHIBITION AGAINST USING GILL NET, TRAMMEL NET, ENTANGLEMENT NET, OR LIKE CONTRIVANCE WITHIN A CERTAIN DISTANCE OF THE SHORELINE; PUNISHMENT.

§ 49-15-78. PROHIBITION AGAINST USING GILL NET, TRAMMEL NET, ENTANGLEMENT NET, OR LIKE CONTRIVANCE WITHIN A CERTAIN DISTANCE OF THE SHORELINE; PUNISHMENT.

(1) IT IS UNLAWFUL FOR A PERSON TO USE A GILL NET, TRAMMEL NET, ENTANGLEMENT NET, OR LIKE CONTRIVANCES FOR THE TAKING OF FISH IN MARINE WATERS WITHIN ONE-HALF (1/2) MILE OF THE SHORELINE.

(2) A VIOLATION OF THIS SECTION IS PUNISHABLE BY THE PENALTIES PROVIDED IN SECTION 49-15-100, MISSISSIPPI CODE OF 1972.

SHOULD THE CURRENT GEAR TYPE CALLED A "HAUL SEINE" BE CONSIDERED A LIKE CONTRIVANCE?

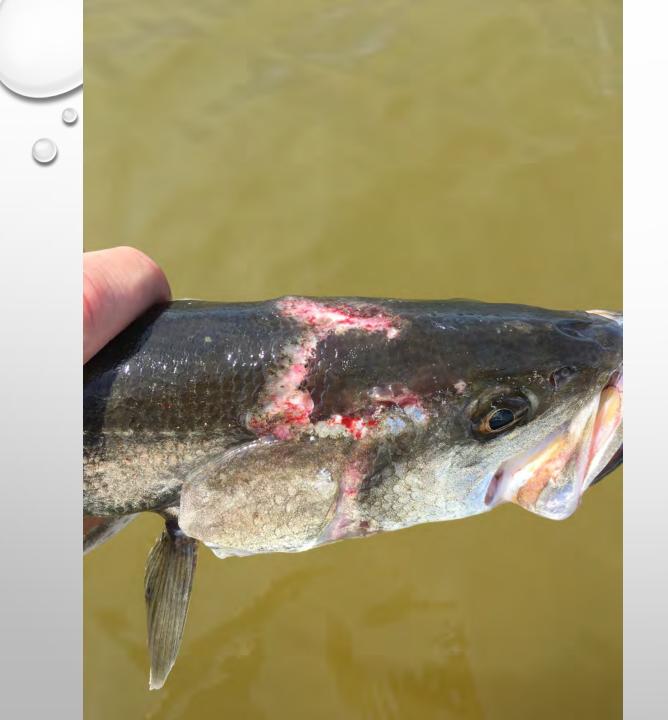
There has been a lot of controversy surrounding the use of "haul seine" nets. It is believed that these nets are being constructed and used as a like contrivance of a gill or entanglement net.



PHOTOS WE HAVE RECEIVED PERTAINING TO HAUL SEINES







This fish was caught at Cat Island during the spring commercial trout season.





A <u>CLEVER DEVICE</u> OR <u>OBJECT</u> THAT HAS BEEN <u>INVENTED</u> FOR A <u>PARTICULAR</u> <u>PURPOSE</u>

DEPARTMENT OF MARINE RESOURCES MARINE PATROL REPORT TO THE COMMISSION ON MARINE RESOURCES NOVEMBER 27, 2018

OYSTER VIOLATION CITATIONS

Possession of Illegal Oysters- 1 Total- 1 FY 19 YTD: 1 FY 18 YTD: 7 Courtesy Citations-0 Verbal Warnings-0

SHRIMP VIOLATION CITATIONS

Shrimping within half mile of shore- 1 Operation a Commercial Shrimping Vessel without Navigation Lights- 1 Total-2 FY 19 YTD: 2 FY 18 YTD: 1 Courtesy Citations-0 Verbal Warnings-0

CRAB VIOLATION CITATIONS

Over the limit Crab Traps- 1 Improperly Marked Crab Traps- 1 Failure to Register Crab Float- 1 Total- 3 FY 19 YTD: 18 FY 18 YTD: 17 Courtesy Citations- 1 Verbal Warnings-0

LIVE BAIT VIOLATION CITATIONS Total-0 FY 19 YTD: 0 FY 18 YTD: 0 Courtesy Citations-0 Verbal Warnings-0

NET FISHING VIOLATION CITATIONS Total-0 FY 19 YTD: 0 FY 18 YTD: 1 Courtesy Citations-0 Verbal Warnings-0

MISCELLANEOUS COMMERCIAL SEAFOOD VIOLATION CITATIONS

No Commercial Seafood Dealer's License- 2 No Seafood Dealer's License- 1 No Fresh Product Permit- 1 Failure to complete Trip Tickets- 1 Total- 5 FY 19 YTD: 41 FY 18 YTD: 19 Courtesy Citations- 0 Verbal Warnings-0

FISHING VIOLATION CITATIONS

No Saltwater Fishing License- 23 No Non-Resident Saltwater Fishing License- 5 Possession of Undersized Red Drum- 7 Possession of Undersized Gray Snapper- 1 Possession of Undersized Flounder- 1 Possession of Undersized Spotted Sea Trout- 4 Possession of Undersized Gray Trigger Fish- 1 Possession of Gray Trigger Fish during closed Season- 1 Failure to Register with Tails n Scales- 2 Total- 45 FY 19 YTD: 139 FY 18 YTD: 205 Courtesy Citations- 9 Verbal Warnings-0

BOAT AND WATER SAFETY VIOLATION CITATIONS

Insufficient PFD's- 7 No Flare Kit- 1 Improper Registration- 1 No Fire Extinguisher- 1 Reckless Operation- 2 Negligent Operation- 3 Total- 15 FY 19 YTD: 83 FY 18 YTD: 93 Courtesy Citations- 10 Verbal Warnings- 0

MARINE LITTER VIOLATION CITATIONS

Marine Litter- 2 No Marine Litter Sticker- 1 Total-3 FY 19 YTD: 4 FY 18 YTD: 2 Courtesy Citations-0

WETLANDS VIOLATION CITATIONS Total- 0 FY 19 YTD: 2 FY 18 YTD: 0 Courtesy Citations-0 Verbal Warnings-0

MISCELLANEOUS VIOLATION CITATIONS Sale of game bird, animals or fish- 1 Misc.- 6 Total- 7 FY 19 YTD: 26 FY 18 YTD: 12 Courtesy Citations- 0 Verbal Warnings-0

TOTAL VIOLATIONS CITED: 81 FY 19 YTD: 314 FY 18 YTD: 358

TOTAL COURTESY CITATIONS: Fishing- 9 Boat and Water Safety- 10 Crab- 1 Misc.- 2 Total- 22

TOTAL VERBAL WARNINGS: Misc.- 2 Total- 2

TOTAL COURTESY CITATIONS/VERBAL WARNINGS: (2 verbal/ 22 courtesy citations) Total- 24 FY 19 YTD: 71 FY 18 YTD: 117

TOTAL STOPS: 1879 FY 19 YTD: 9381 FY 18 YTD: 12421

INCIDENT REPORTS FOR OCTOBER 2018:

BOATING ACCIDENTS WITHOUT INJURIES: 2

There were two boating accidents during the month of October without injuries. The first incident occurred when a commercial shrimping vessel sank south of White Ave in Biloxi. The second incident occurred near Deer Island when a recreational vessel capsized.

Total Accidents- 2 FY 19 YTD: 13 FY 18 YTD: 16

TOTAL WATER INCIDENTS: 1

There was one incident during the month of October when an individual drowned while swimming behind the Arbor Landing Apartments in Biloxi. **FY 19 YTD: 1**

FY 18 YTD: 1

TOTAL FATALITIES (Boating and Non-Boating): 1 FY 19 YTD: 1 FY 18 YTD: 2

DIVE ACTIVITY:

Marine Patrol dive team responded to two different calls for assistance during the month of October. The first being the drowning at Arbor Landing Apartments in Biloxi. The team did not conduct a dive, but they did utilize multiple sonar units to assist in locating the victim. The second dive call was a vehicle accident in which the vehicle left the roadway and submerged with one occupant inside. This happened on Wade Vancleave Rd in Jackson county. Three dives were conducted to assist with the recovery of the vehicle and victim.

The Dive Team has continued training on the kongsburg 360 sonar this month. Also, Officer Shay Smith conducted his open water and advanced open water dives. Officer Smith has one more deep dive to conduct to finish his certifications for dive team. He will be certified in Open water, advanced open water, underwater navigation, deep diver, boat diver, and rescue diver.

ASSISTS WITH PUBLIC SAFETY CONCERNS:

Assists to Another Agency-9 Traffic accident without Injury-2 Shrimping without Navigation Lights-1 Suicidal Individual-1 Assist to Swimmers-1 Sinking Vessel- 3 Assist to Boaters in Distress/Tow-Ins- 3 Hazard to Navigation-4 Vessel Fire-1 Vessel Aground-1 Alligator in Public Area-1 Dead Dolphin- 2 Injured Dolphin-1 **Reckless Boaters-1** Medical Emergency-2 Vessel Afloat- 3 Total-36 FY 19 YTD: 199 FY 17 YTD: 207

MISCELLANEOUS COMPLAINTS/REPORTS:

Assist to Motorist-1 Illegal Waste Dumping-1 Injured Bird-4 Injured Sea Turtle-1 Debris in the Water- 2 Lost/ Stolen Property-1 Oil/ Diesel Spill-1 Missing Vessel- 2 Illegal Gill Net-1 Derelict Vessel-1 Abandoned Vessel - 1 Littering-1 Boaters Trespassing-1 Commercial Net Boat in Restricted Area-1 Harassment by Fishermen-1 Vehicle Blocking Launch-1 Wetlands Violation-2 Illegal Fishing Activity-6 Manatee Sighting-1 Total-30 FY 19 YTD: 141 FY 18 YTD: 195





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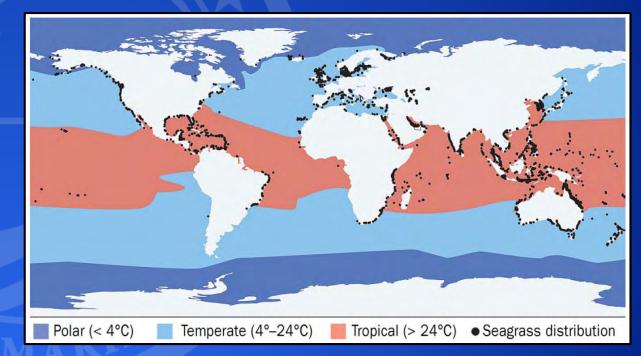
Seagrasses (Cat Island)

Paul F. Mickle Ph.D. Chief Scientific Officer The Mississippi Department of Marine Resources



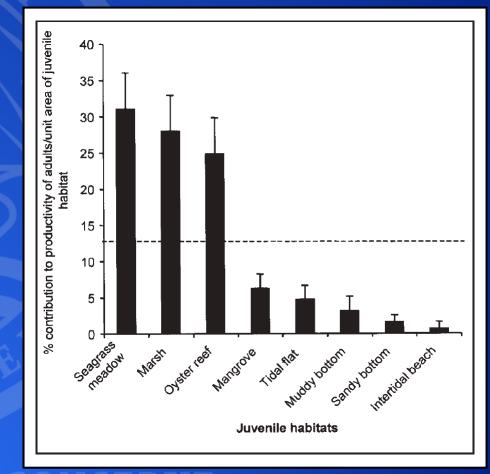
Background

- Presentation a response from CMR Motion: Direct the staff to come back at the next commission meeting with a presentation concerning all the different factors that could potentially impact seagrass beds on/near Cat Island.
- All material will be peer reviewed/journal authorized unless specified
- Present
 - Seagrass information
 - Threats/impacts
 - Regulations for protection in other states



Importance and Benefits

- Ecosystem services (presented by: Duarte 2002)
 - Provision of food for coastal food webs,
 - Provision of oxygen to waters and sediments,
 - Carbon sequestration,
 - Sediment Stabilization,
 - Prevention of sediment resuspension,
 - Improvement of water transparency,
 - Wave attenuation,
 - Shoreline protection,
 - Habitat for microbes, invertebrates and vertebrates, often endangered or commercially important, and
 - Trapping and cycling of nutrients



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Beck et al. 2001

Threats/Impacts

Area lost (km²)	Major mechanisms of loss (number of reports)					
	Environmental	Biological	Extreme events			
Temperate region						
< 1.0	Dredging, hydrological, dune migration (7)	Herbivory, introduced species, bioturbation (7)	Ice scour, heat waves (2)			
1.0-100	Eutrophication, sediment deposition (4)	Brown tide (1)	No data			
> 100	Eutrophication, sea-level rise, high temperature (5)	Wasting disease (1)	No data			
Tropical region						
< 1.0	Vessel grounding, thermal pollution (5)	Herbivory (3)	No data			
1.0-100	Eutrophication, boating, sedimentation (6)	Brown tide, urchin herbivory (2)	No data			
> 100	Hydrological, sediment resuspension (3)	No data	Pulsed turbidity (1)			

Note: The seagrass genera studied in temperate regions include *Cymodocea*, *Halodule*, *Heterozostera/Zostera*, *Posidonia*, *Syringodium*, and *Thalassia*; genera studied in tropical regions include *Halodule*, *Halophila*, *Syringodium*, *Thalassia*, and *Zostera*. An expanded table detailing the results of each study can be found at *www.vims.edu/bio/sav/bioscience_global_crisis_table_1.pdf*.

Orth et al. 2006

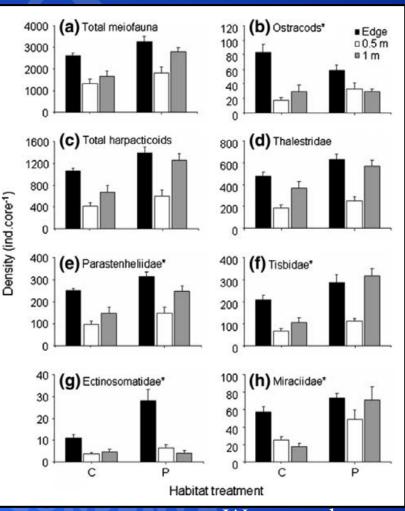
Threats/Impacts

Table 1 Impacts of direct and indirect human forcing on seagrass ecosystems.							
Туре	Forcing	Possible consequences	Mechanisms				
Direct impacts	Mechanical damage (e.g. trawling, dredging, push nets, anchoring, dynamite fishing)	Seagrass loss	Mechanical removal and sediment erosion				
	Eutrophication	Seagrass loss	Deterioration of light and sediment conditions				
	Salinity changes	Seagrass loss, changes in community structure	Osmotic shock				
	Shoreline development	Seagrass loss due to burial or erosion	Seagrass uprooting				
	Land reclamation	Seagrass loss	Seagrass burial and shading				
	Aquaculture	Seagrass loss	Deterioration of light and sediment conditions				
	Siltation	Seagrass loss and changes in community structure	Deterioration of light and sediment conditions				
Indirect impacts	Seawater temperature rise	Altered functions and distributions	Increased respiration, growth and flowering, increased microbial metabolism				
	Increased CO ₂ concentration	Increased depth limits and production	Increased photosynthesis, eventual decline of calcifying organisms				
	Sea level rise and shoreline erosion	Seagrass loss	Seagrass uprooting				
	Increased wave action and storms	Seagrass loss	Seagrass uprooting				
	Food web alterations	Changes in community structure	Changes in sediment conditions and disturbance regimes				

Duarte 2002

Fragmentation of Seagrass Beds

- Motor scars or other physical removal of entire seagrass structure
 - Long term recovery (10+ Years)
 - Create fragmentation/alter fish and benthic communities
 - Decrease transport mechanisms for seagrass and fauna



Warry et al. 2009

Mississippi Seagrasses/Cat Island

- Seagrasses present on three sides of Cat Island
- Pham et al. 2011 was the last image monitoring effort around Cat Island
- Showed a seagrass area expansion from 2003-2007 of 21.8 Ha to 71.3 Ha

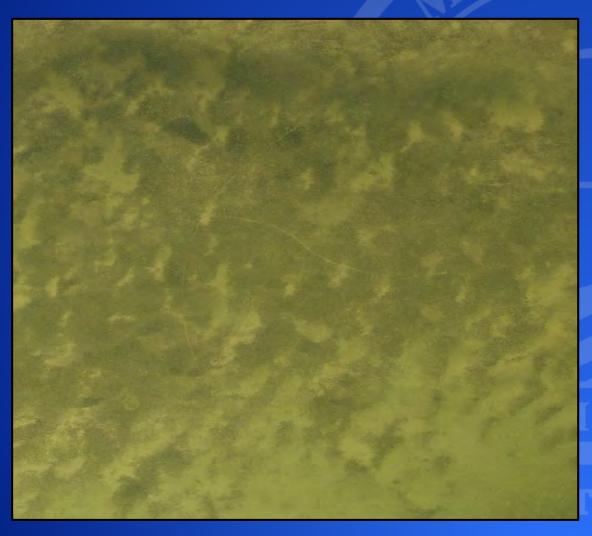
Table 2. Seagrass coverage on the Mississippi barrier islands, 1940–2007. Sampling error was estimated to be \pm 5% of the given area value.

Date	Cat	West Ship	East Ship	Horn	Petit Bois
27 October 1940	·—.	_	-	76.7	54.1
7 April 1952	_	-	_	45.7	15.3
10 October 1963	-	11.1	19.4	_	_
10 November 1971	-		_	19.3	—
21 October 1975	-	1.8	1.7	_	_
6 October 1985	_			—	17.7
15 October 2003	21.8	0.0	16.5	50.8	8.0
29 October 2006	25.5	0.9	15.5	82.0	18.9
10-16 November 2007	71.3	1.9	13.7	38.1	16.8

Note: Date of image acquisition (flyover) is given in day/month/year.

Carter et al. 2011

Mississippi Seagrasses/Cat Island



- Motor scars are present around Cat Island
 - Impacts are most likely minimal to none
 - Today's technology and maps assist in navigation and depth alarms
 - Nowhere around Cat Island is identified as a high traffic area

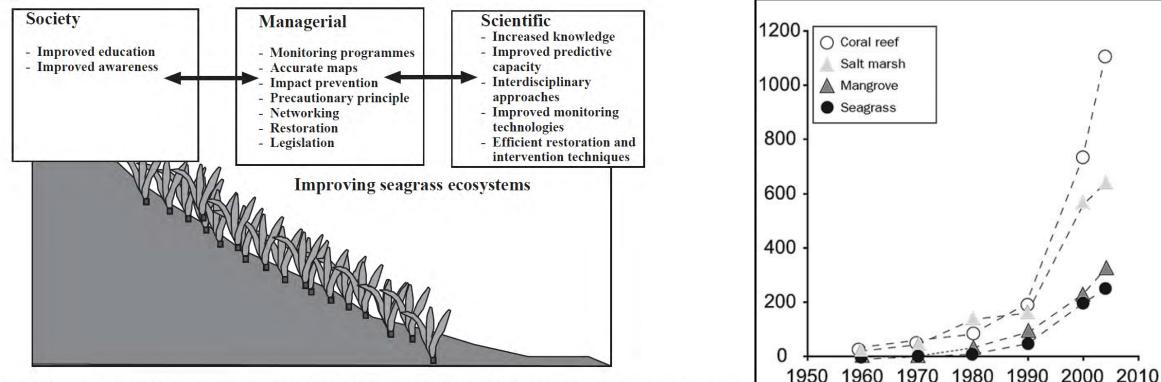
Other States Regulations

- Florida Law gives their Marine Patrol the options of:
 - F.S. 327.3 Reckless/careless operation of a vessel
 - F.S. 253.04 Protection of state lands
 - F.S. 380.05 Areas of critical concern
- Some Florida counties have restricted access to outboards < 18" at low water (high traffic areas only)



Research Needs

- Cat Island and other seagrass areas in State waters are minimally monitored and some areas unknown
- Seagrass species composition not fully understood in Mississippi waters
- National Seashore seagrasses are monitored more often than Cat Island
- Restoration of Seagrasses extremely risky and difficult but understanding the massive increase of Cat Island would be hugely beneficial in expanding these high production habitats

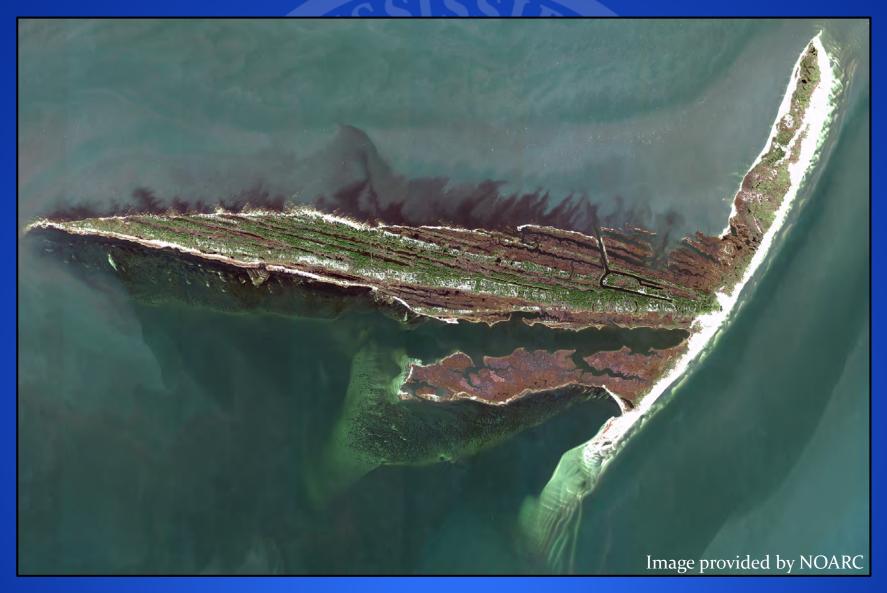


Duarte 2002

Figure 3 Cooperative elements required to prevent present trend towards seagrass decline and efficiently conserve seagrass ecosystems.

Orth et al. 2006







Request for Permit by: MS Department of Environmental Quality File: DMR-190087

- Location: Just south of the mouth of the Wolf River in St. Louis Bay, Harrison County, MS.
- Use District: (G) General Use District
- Project Purpose/Need:
 - NRDA Early Restoration Project
 - Reduce erosion
 - Breakwater
 - Support secondary productivity
 - High profile reef

- Subtidal reef creation:
 - Approximately 30 acres in St. Louis Bay
- Breakwater/High profile reef creation
 - 1,600 linear feet



continued

- The applicant has requested a change to the Coastal Wetlands Use Plan in the footprint of the proposed project.
- This change request was justified under Ch. VIII, Sect. 2, Part I.E.2.b.ii.
 - There is a significant public benefit in the activity
 - Impacts to public access and adverse environmental impacts have been minimized
 - The general public as well as governmental entities were notified of the project
 - A public hearing will be held on November 15, 2018

continued

• The applicant has requested a variance to Chapter VIII, Section 2, Part III.O.1. of the MCP.

- Permanent filling of Coastal Wetlands because of potential adverse and cumulative environmental impacts is discouraged.
- This variance request was justified under Ch. VIII, Sect. 2, Part I.E.2.c.i.

• The Impacts on Coastal Wetlands would be no worse than if the guidelines were followed.

Public and Agency Notification

- Notification of this project appeared in *The Sun Herald* on October 7, October 14, and October 21, 2018.
 No public comments were received
- MS DEQ: No comments to date
- MS DAH: No objections
- MS SOS: The project will require a rent exempt lease
- MS DWFP: No comments to date
- A public hearing was held on November 15, 2018. No public comments were received.

Recommendation

- Based upon departmental review and evaluation based on the decision factors in Ch. 8, Sect. 2, Part I.E.2. of the MCP, it has been determined that the project will have a significant public benefit. Therefore, staff recommends that the CMR approve the variance request and Use Plan change and issue the requested permit with the following conditions:
 - The project area should be re-checked for the presence of SAV during the growing season prior to implementation of the project.
 - The survey report should be submitted to MDMR Wetlands Permitting staff at least 30 days prior to project commencement
 - If SAV is found in the project area, a final review and approval by MDMR staff should be required prior to project commencement



Request for Permit Modification by: City of Biloxi File: DMR-03400

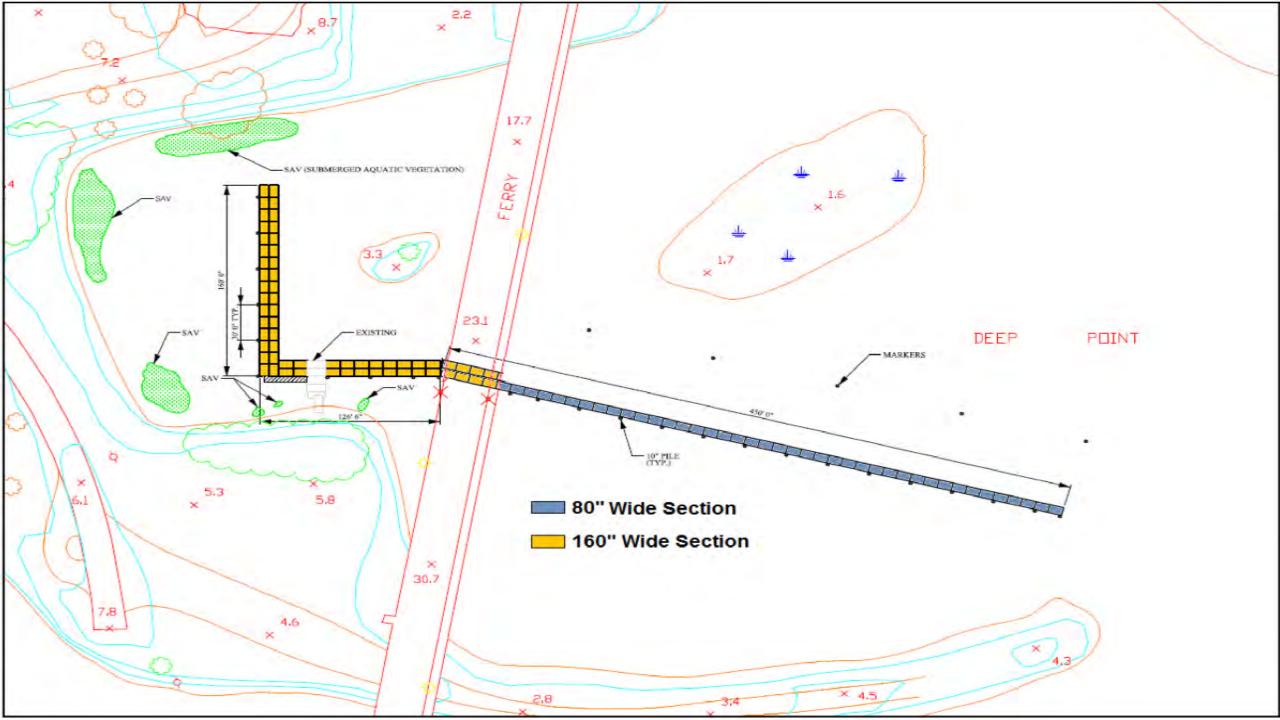
- Location: Popp's Ferry Causeway on the Back Bay of Biloxi in Biloxi, Harrison County, MS.
- Use District: (G) General Use District
- Project Purpose/Need: Allow more boat access to the existing Popp's Ferry Causeway park, and future bait shop and restaurant.

- Previously Permitted:
 - 500 linear feet of concrete walkway
 - 813 linear feet of boardwalk
 - 1,366 linear feet of riprap
 - Two (2) Piers 20' x 30'
 - Two (2) Piers 40' x 40'
 - Access Pier 150' x 5'
 - Pier 25' x 25'
 - Access Pier 55' x 5'
 - Pier 55' x 5'
 - Gangway Pier 30' x 5'
 - Kayak Launch Dock 20' x 10'
 - Kayak Launch Platform 25' x 5'
 - Amenities included, but were not limited to, a bait shop/concessions, nature trails, picnic areas, road improvements, parking areas, and an interpretative center.

continued

• Proposed:

- Floating Docks 737' x 7'-13.5' (Allow 35-45 to dock)
- Pilings 1 wood piling and 4 PVC pilings for navigation markers



Public and Agency Notification

- Notification of this project appeared in *The Sun Herald* on November 11, November 18, and November 25, 2018.
 - No public comments were received

- MS DEQ: Currently reviewing the project
- MS DAH: No objections
- MS SOS: The project will require an amendment to the existing rent exempt lease
- MS DWFP: Recommends best management practices

Recommendation

• The modification request to install floating docks and pilings has not changed the findings made on the previous decision factors in accordance with Chapter VIII, Section 2, Part I.E.2. of the Mississippi Coastal Program (MCP). These findings have been provided to the Commissioners. Based on the results of these findings, it has been determined that the project is consistent with the MCP because it will have a significant public benefit. Therefore, staff recommends that the Commission approve the requested Permit Modification.



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Mississippi Department of Marine Resources

Agency Financial Results

as of October 31, 2018

Commission on Marine Resources November 27, 2018

November 27, 2018

Commission on Marine Resources

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES

Income Statement - Fiscal Year 2019

As of October 31, 2018

			Federal :	Operating		
		State	NFWF:	Subtotal	Tidelands	Total DMR
8.9M						
	Revenue:					
	Transfer in from Other Governments	-	-	-	-	-
	Off-road Fuel Tax	3,050,000	-	3,050,000	-	3,050,000
\$5.3M	Federal Grants	-	1,252,013	1,252,013	-	1,252,013
	Sales Revenue	328,342	-	328,342	125	328,467
	Indirect Cost Recovery	218,071	-	218,071	-	218,071
	Other Revenue	327,502	46,973	374,474	94,977	469,452
f \$1.7M	Current Budget Year Revenue:	3,923,915	1,298,985	5,222,900	95,102	5,318,002
	Expenditures:					
	Salaries, Wages, Fringe	1,678,225	691,016	2,369,241	322,630	2,691,871
e of (\$1.1M)	Travel	9,465	17,682	27,146	10,649	37,796
	Contractual Services	173,659	466,630	640,289	253,504	893,793
	Commodities	117,994	655,064	773,058	67,439	840,497
	Other than Equipment	-	-	-	-	-
510M will be	Equipment	147,101	31,383	178,484	14,551	193,035
Sagnatamy of	Vehicles	-	4,049	4,049	-	4,049
Secretary of	Wireless Devices	351	433	785	274	1,058
9 th .	Subsidies, Loans, and Grants	23,296	703,047	726,343	1,078,210	1,804,553
	Current Budget Year Expenditures:	2,150,090	2,569,305	4,719,395	1,747,257	6,466,652
	Current Budget Year Net Income/(Loss):	\$ 1.773.825	\$ (1,270,319)	\$ 503,505	\$ (1,652,155)	\$ (1,148,650)

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<u>Key Metrics:</u> •State Revenue of \$3.9M

•Agency Revenue of \$5.3M

•State Net Income of \$1.7M

•Agency Net Income of (\$1.1M)

•Tidelands funds of \$10M will be transferred from the Secretary of State by November 9th.

Financial Budget Comparison

• After four months of Fiscal Year 2019:

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES

2019 Budget Comparison

As of October 31, 2018

	Actual Ye	ear to Date Expe	enditures	B	udget Year Total	Percent Remaining			
	Operating Tidelands Total		Operating	Tidelands	Total	Operating	Tidelands	Total	
Expenditures:									
Salaries, Wages, Fringe	\$ 2,369,241	\$ 322,630	\$ 2,691,871	\$10,897,765	\$ 1,012,526	\$11,910,291	78.3%	68.1%	77.4%
Travel	27,146	10,649	37,796	325,487	30,000	355,487	91.7%	64.5%	89.4%
Contractual Services	640,289	253,504	893,793	9,601,848	1,627,590	11,229,438	93.3%	84.4%	92.0%
Commodities	773,058	67,439	840,497	2,055,674	450,000	2,505,674	62.4%	85.0%	66.5%
Equipment	178,484	14,551	193,035	1,109,408	225,000	1,334,408	83.9%	93.5%	85.5%
Vehicles	4,049	-	4,049	170,000	-	170,000	97.6%	0.0%	0.0%
Wireless Devices	785	274	1,058	6,250	500	6,750	87.4%	0.0%	84.3%
Subsidies, Loans, and Grants	726,343	1,078,210	1,804,553	14,756,150	6,654,384	21,410,534	95.1%	83.8%	91.6%
Total Expenditures:	\$ 4,719,395	\$1,747,257	\$ 6,466,652	\$ 38,992,667	\$ 10,000,000	\$48,992,667	87.9%	82.5%	86.8%

• Operating Funds have 87.9% of Budget remaining

• Tidelands Trust Fund has 82.5% of Budget remaining



The MS Department of Marine Resources was mentioned 22 times in local, state and national media since the October CMR meeting. Popular news items included the \$10 million Tidelands check presented by Secretary Hosemann, Governor Bryant unveiling the new beach water outfall designs and the approval of RESTORE funding for the Seafood Marketing program.

So far in FY19, Marine Patrol has taught six boat and water safety classes and certified 106 students. Marine Patrol also participated in Night Out Against Crime events in Diamondhead and Long Beach, the Hope Outdoors event on the Biloxi Fishing Bridge, Kids Safety Fair at Big Play Entertainment Center, Injury Prevention Fair at Garden Park Medical Center and Touch a Truck for CASA in Hancock County. Also, Marine Patrol and Marine Fisheries both took part in Biloxi High School's Career Day.

The Office of Coastal Restoration and Resiliency took part in the Piney Woods Heritage Festival at the Crosby Arboretum and Shaw Homestead Festival in Poplarville. The agency was also represented by CRR at the following meetings: American Shore and Beach Preservation Association Meeting in Galveston, the Gulf of Mexico Offshore Sand Management Working Group Meeting in New Orleans and the Gulf of Mexico Alliance Coordinator meeting in Pensacola.

We had five members of our Fisheries staff participate in the Deer Island Clean-Up on October 20. The Seafood Technology Bureau, along with agency volunteers, manned an agency booth at the Jackson County Fair October 21-28.

On November 13, MDMR participated in MDEQ's Restoration Summit in Biloxi. Carly Somerset in the Office of Marine Fisheries gave a Red Snapper presentation, Tammy Reese and Kevin Landry gave a presentation on oyster aquaculture to 60-80 Gulfport High School students, Jason Rider gave a presentation about off-bottom aquaculture and our agency provided an outreach booth for summit attendees.

Fisheries staff participated in the following: annual meeting of the Gulf States Marine Fisheries Commission on South Padre Island in Texas, the Gulf of Mexico Fisheries Management Council Meeting in Mobile and the the Gulf States Gulf Fisheries Information Network Committee in New Orleans.

In November, the Seafood Technology Bureau taught both the Basic Seafood HACCP course and Sanitation Control Procedures Course with students representing our seafood industry and partners.

On November 7, the Shellfish Bureau held oyster harvester training sessions as required by the Interstate Shellfish Sanitation Conference. The seminar covered basic oyster handling, hygiene and regulations involving oyster harvesting practices.



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Mississippi Oyster Task Force: Add Industry Member

Kristina Broussard November 2018

K.1.

Recommended Voting Members (9)

Voting Members (9)	Name	Title
Dealer/Processor	Jennifer Jenkins	Crystal Seas Seafood
Dealer/Processor	Jeremy Forte	Jerry Forte Seafood
Dredger	John Livings	Pass C. Harvester (Dredger & Tonger)
Dredger	Keo Nguyen	Bayou Harvester (Dredger)
Tonger	George Storrs	Pass C. Harvester
Tonger	Andrew Livings	Pass C. Harvester (Dredger & Tonger)
Oyster Aquaculture	Walter Boasso	Spat Tech
Recreational Harvester	Dennis Laubmeir	Recreational Tonger
MDMR Shellfish Scientist	Erik Broussard	MDMR Shellfish Bureau Director



Motion: Approval of the Final Voting Members and Proceed with the Establishment of the Mississippi Oyster Task Force



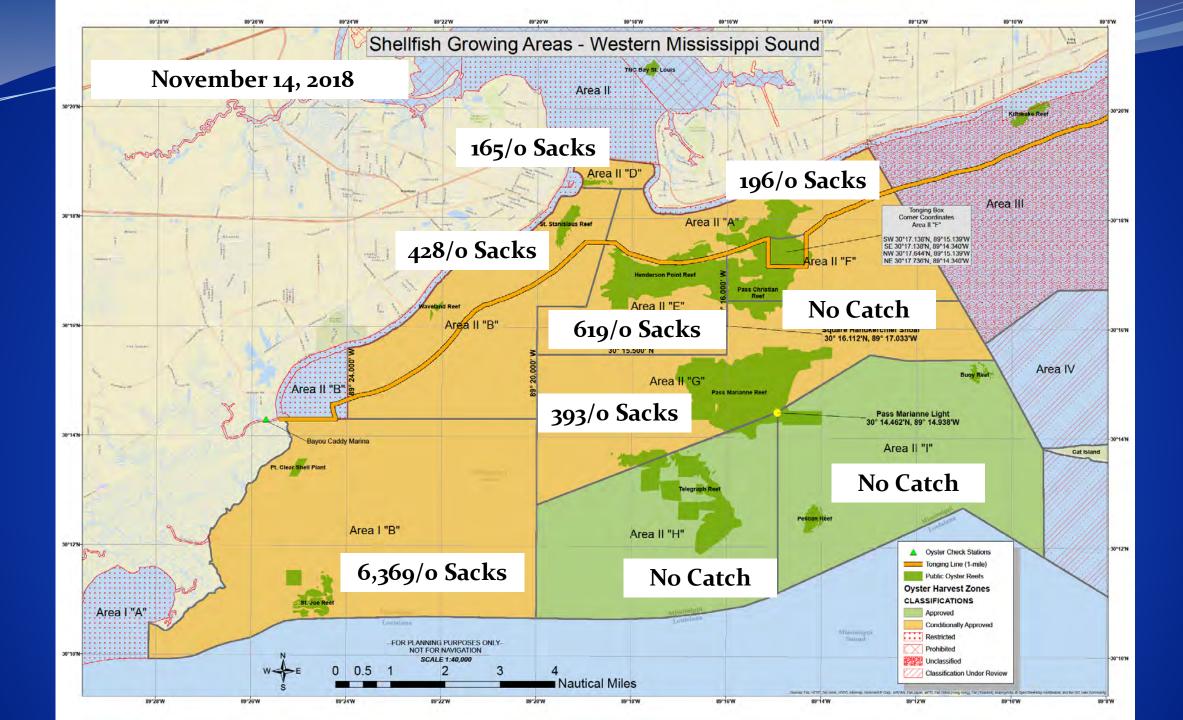
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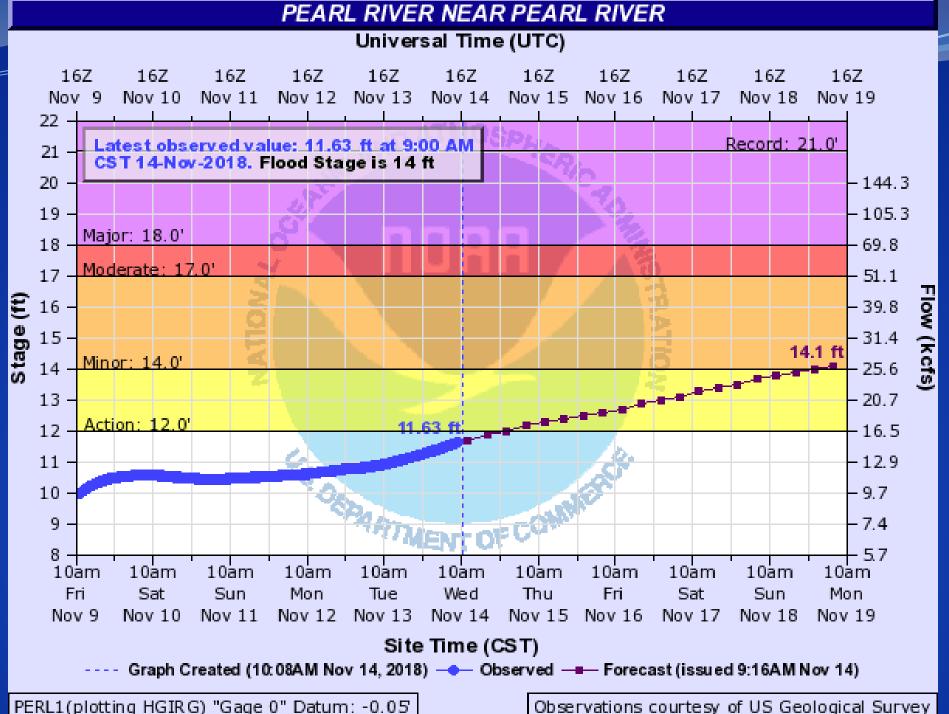
2018-19 Oyster Season Update

Erik Broussard November 27, 2018

2018 Mississippi Oyster Stock Assessment

Reef	2018 Est. Sack Total	Sacks @30% Harvest	Status
Pass Tonging	652	196	Near depletion
Pass Dredging	0	0	Near depletion
Henderson Point	2,064	619	Near depletion
Pass Marianne	1,309	393	Near depletion
Telegraph	0	0	No resource
St. Joe	21,230	6,369	Fished heavily
St. Stanislaus	1,427	428	Fished heavily
Waveland	29	9	Recovering (limited resource)
Between the Bridges	550	165	Resource recovering
Western Reefs	27,261	8,178	
Biloxi Bay Cultch Plant	675	203	
TOTALS	27,936	8,381	





Observations courtesy of US Geological Survey



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Questions



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2018 Mississippi Spotted Seatrout Stock Assessment Annual Update

Matt Hill November 27, 2018

Stock Assessment Update

- Completed in September 2018 by the Mississippi Stock Assessment Panel
- The panel is comprised of staff from MDMR and the Gulf Coast Research Laboratory
- Completed internal MDMR review in August 2018
- Final analysis and edits completed in September 2018

Management History in Mississippi

Year	Recreational	Commercial
1978	50 Fish Bag, 3 Day Possession	12-inch Minimum
1986	25 Fish Bag, 14-inch Minimum, 3 Day Possession (5< Size Minimum May Be Retained)	14-inch Minimum
1991	14-inch Minimum Bag Limit 25 Per Person	
1992	5< Size Minimum May Be Retained But No Below 12- inches Bag Limit 25 Per Person (14 inches)	ES
1995	Bag limit 10 Fish Per Person No Fish Below The Minimum (14-inches)	40,000 lb. Commercial Quota
1996	Bag limit 15 Fish Per Person No Fish Below The Minimum (14-inches)	20
2008	13-inch Minimum	14-inch Minimum
2012	OFMARINE	50,000 lb. Commercial Quota
2014		Spotted Seatrout Endorsement
2017	ENHANC 15-inch Minimum TECT + C(DNSERVE

Model Aspects

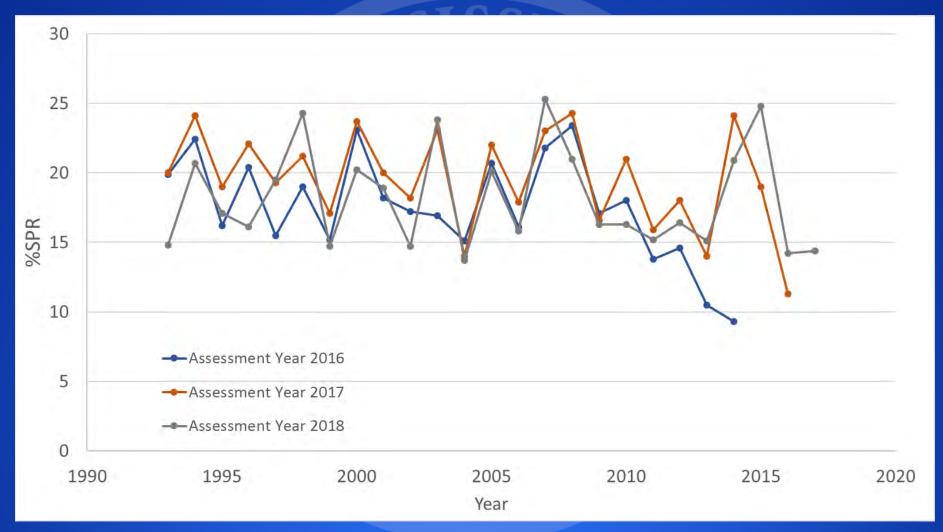
- Dynamic model that is constantly updating as parameters are more precisely defined and additional data is added on an annual basis through updates.
- After an internal data review, two strong year classes were identified in 2015 and 2016. These year classes are both currently recruiting into the fishery.

Model Conclusions for Informing Management Decisions

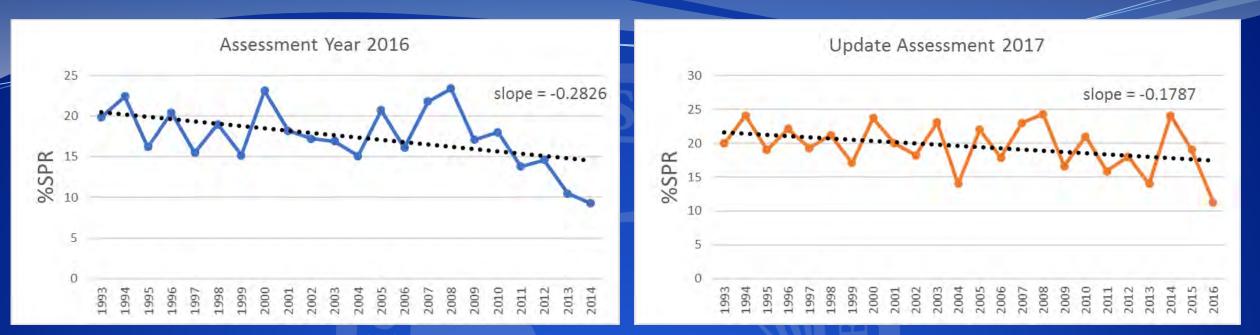
- Presently accepted on a peer reviewed level and models identified as best available science
- Update was completed using the Age Structured Assessment Program (ASAP) from the NOAA Fisheries Toolbox

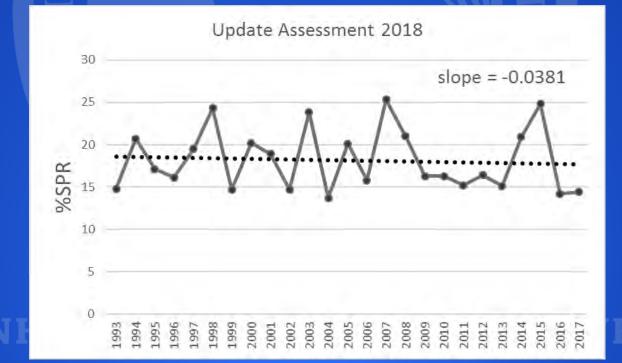


%SPR for Each Assessment Year



Time series of spawner-per-recruit for the Mississippi SST stock





%SPR in Relation to Fishing Mortality

Biomass of the Mature Female portion of the Population

Total SST Biomass available for harvest

F _{%SPR} Scenario	2018	2019	2020	2021	2022	Five-year change (%)	F _{%SPR} Scenario	2018	2019	2020	2021	2022	Five-year change (%)
14	705,079	693,580	695,381	696,669	696,906	-1%	14	556,549	534,052	536,750	538,486	538,789	-3%
16	747,398	772,063	788,400	795,258	797,323	6%	16	498,340	517,992	535,893	543,314	545,526	9%
18	781,051	841,427	875,916	891,119	896,508	13%	18	449,501	498,142	529,943	543,873	548,787	18%
20	808,483	902,893	957,771	983,693	993,988	19%	20	407,979	476,442	520,118	540,671	548,811	26%
22	831,316	957,632	1,034,130	1,072,660	1,089,390	24%	22	372,228	454,075	507,480	534,316	545,942	32%
24	850,657	1,006,660	1,105,330	1,157,910	1,182,430	28%	24	341,090	431,740	492,871	525,400	540,554	37%

Estimated SSB (A, kg) and Yield (B, kg) at a range of fishing mortalities corresponding to %SPR values of 14, 16, 18, 20, 22, and 24 for a five-year projection period (2018 to 2022). The line in bold in each table is the current %SPR target reference point.

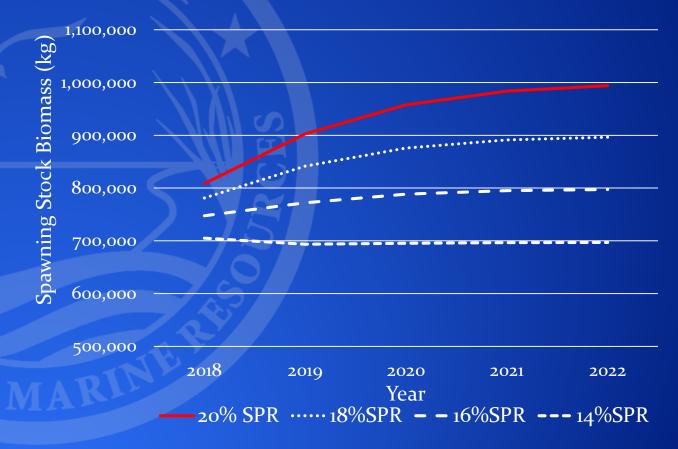
Gulf and South Atlantic Management Summary

- All Gulf states, Georgia and North and South Carolina have seen dramatic decreases in Catch Per Unit Effort (CPUE) over the last five years
- Seven of these eight states have either raised the minimum size or lowered their bag limits since 2008
- All these states except LA are at a 14" minimum or greater

Spawning Stock Biomass Projection

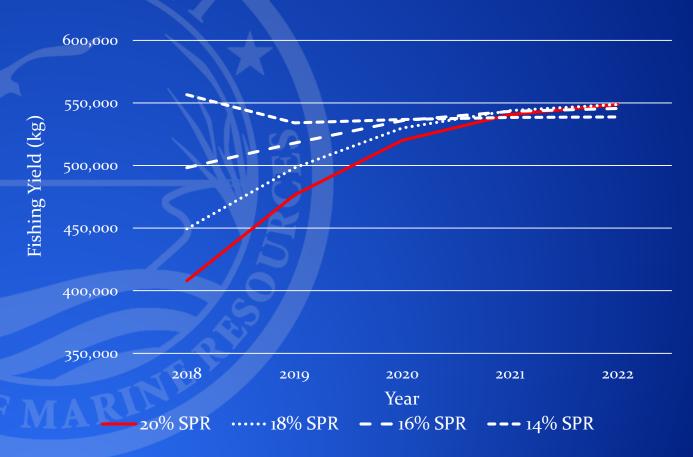
• Scenarios

- 20% SPR- Current target
- 18% SPR- Mean %SPR from 2018 SST Update
- 16% SPR- Mean value from 2017 Update
 - Threshold %SPR recommendation from 2018 SST update
- 14% SPR- Lower value projection
- 20, 18, and 16% SPR scenarios show a continuous increasing trend in biomass



Projection of Fishing Yield (Harvest)

- Scenarios
 - 20% SPR- Current target
 - 18% SPR- Mean %SPR from 2018 SST Update
 - 16% SPR- Mean value from 2017 Update
 - Threshold %SPR recommendation from 2018 SST update
 - 14% SPR- Lower value projection
- 20, 18, and 16% SPR scenarios show a continuous increasing trend in yield



Summary

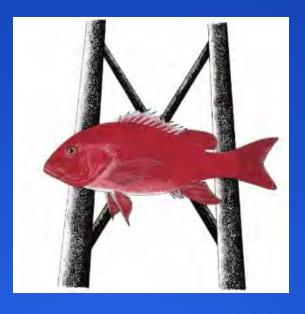
- The mean %SPR in the last five years of the assessment is 17.9% with a terminal year estimate of 14.4%.
- Staff recommends maintaining current regulations to manage to the 20% target SPR.
- Fisheries staff concludes that overfishing is not occurring on the Mississippi Spotted Seatrout stock based on stated reference points.
- A benchmark assessment will be completed in 2019 and will utilize a new age structured model, Stock Synthesis 3 (SS3).

Questions?



ENHANCE ***** PROTECT ***** CONSERVE

2018 Mississippi Red Snapper Exempted Fishing Permit Year-One Report



Carly Somerset November 27, 2018



Mississippi's Red Snapper EFP

- This year, each Gulf state applied for a two-year Exempted Fishing Permit (EFP) to manage Red Snapper from state waters out to 200 nautical miles
 - Each state monitored landings with state-specific programs
- NOAA approved each EFP, allocating an allowable catch limit (ACL) of 137,949 pounds for Mississippi's recreational sector
 - 135,149 pound ACL for the private recreational sector
 - 2,800 pound ACL for the state for-hire sub-sector
- Both were managed to an annual catch target (ACT) of 10% below the ACL

2018 EFP Season

- Private Recreational
 - May 25th July 9th
 - July 23rd August 17th
 - September 1st 2nd
 - September 14th 16th
- State for-hire
 - May 25th June 10th

Sector/Sub-sector	Season Length
Private Recreational	76 Days
State For-Hire	17 Days
Federal For-Hire*	51 Days*

*Federal for-hire season and quota was regulated by NOAA for the 2018 season

Tails n' Scales Program Purpose

- CMR adopted a regulatory modification to Title 22 Part 9 Statistical Reporting and Confidentiality of Statistical Data for Marine Fisheries requiring reporting of Red Snapper landed in Mississippi
- Anglers targeting Red Snapper must acquire a trip authorization number prior to fishing for them
- Mississippi Department of Marine Resources is responsible for ensuring every angler can acquire a trip number 24 hours a day
- The Tails n' Scales program began mandatory reporting in 2015

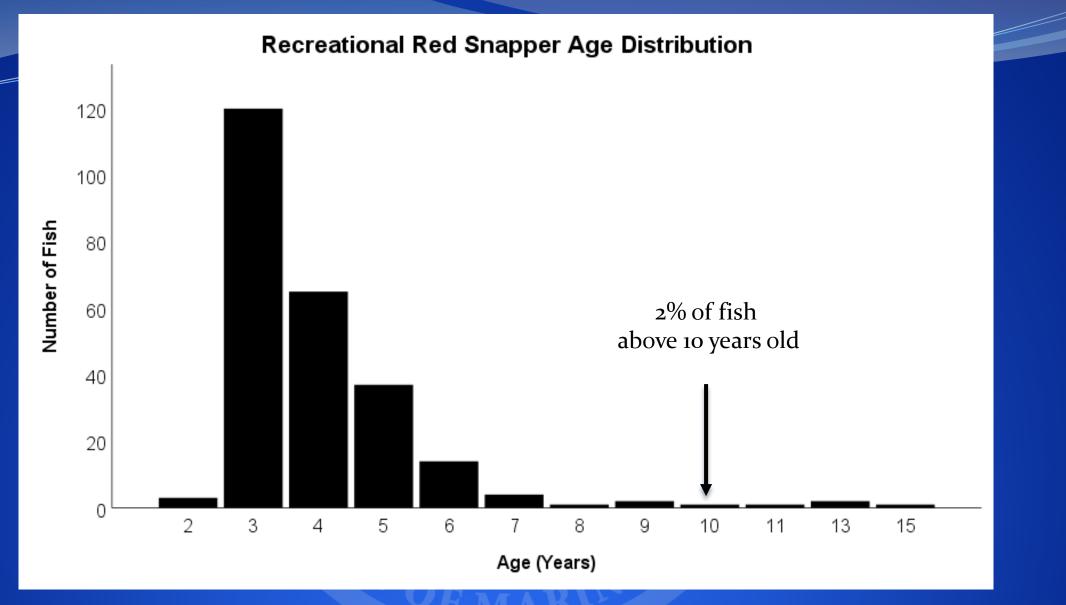
Validation

- Dockside Interviews
- Enforcement reports via IT developed app
- E-Mail messaging and text reminders for expired reports not completed by angler
- Angler not allowed to make new trips until prior trips are reported
- Administrative functionality of opening and closing the program based on season closures

Biological Data

- Finfish staff collected over 400 otoliths from Red Snapper this year
 - 252 ages have been finalized
 - All others are undergoing processing

Age data is vital to management of a fishery
Length-at-age data are direct inputs into stock assessments
Age distribution of catch



• 92.5% of all trips designated artificial reefs as the primary habitat fished

2018 EFP Season Results

Sector/Sub-sector	ACL	Estimated Harvest	Percent of ACL
Private Recreational	135,149	128,678.6	95.2
State For-hire	2,800	3,235.5	115.6
Total	137,949	131,914.1	95.6

2018 Red Snapper Season Finalized Results

2017 (PR-60 days, FFH-49 days)

- Total Harvest: 154,100 pounds
- Number Fish Harvested: 27,189
- Average Weight: 6.08 pounds
- Average Length: 21.91 Inches
- Trips: 4,185
- Effort: 4.36 Anglers/Vessel/Trip
- Harvest: 1.48 Fish/Angler/Trip

2018 (PR-76 days, SFH-17 days)

- Total Harvest: 131,914 pounds
- Number Fish Harvested: 22,126
- Average Weight: 5.82 pounds
- Average Length: 21.37 Inches

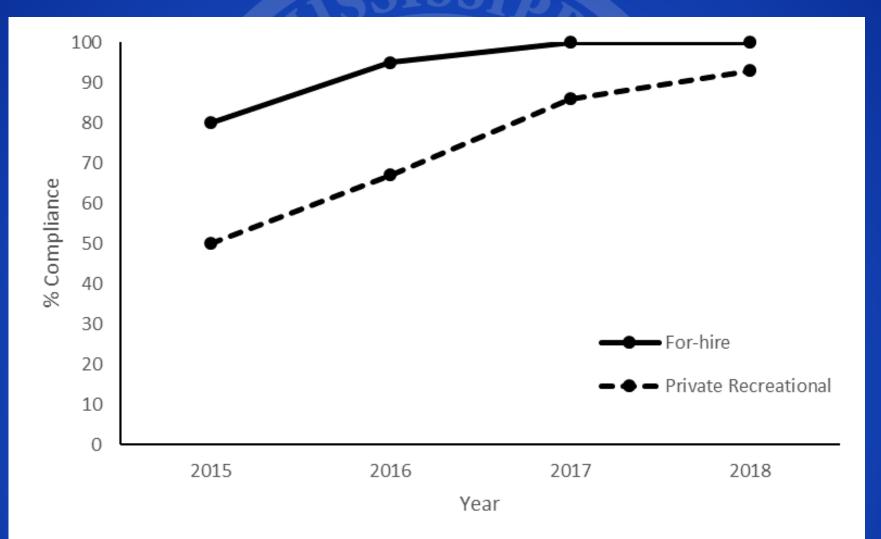
• Trips: 4,511

- Effort: 3.74 Anglers/Vessel/Trip
- Harvest: 1.31 Fish/Angler/Trip

What Is The Value Of Mississippi's Reporting System?

- Represents the most accurate measure of Red Snapper harvest and angler effort in the Gulf of Mexico
- Stock assessments inputs (effort, landings, angler universe changes, biological data, etc.)
- Estimation and projection of harvest in real time
- Can be used as a float plan
- Provides accurate and precise estimates of Red Snapper harvest each year

Trip Compliance Rates



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QUESTIONS?