



NOAA FISHERIES

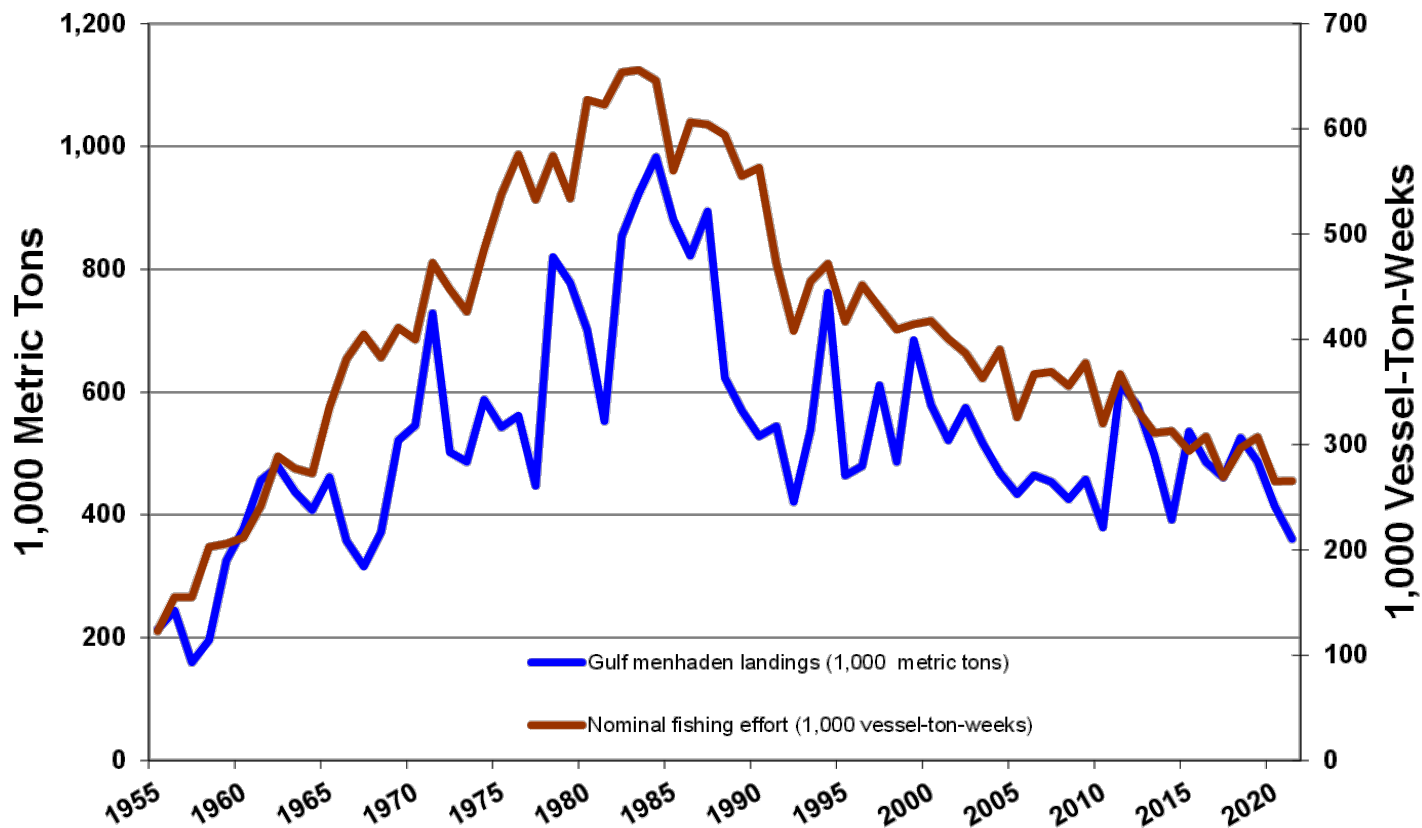
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Review of the 2021 Gulf Menhaden Fishery and Forecast for the 2022 Fishing Season



GSMFC Spring Meeting
Panama City Beach
(Teleconference)
March 12, 2022

Historical Landings and Nominal Fishing Effort



Final Landings for the 2021 Gulf Menhaden Fishing Season

- 360,524 metric tons, or 1,186 million standard fish
 - Decrease of 12.9% from 2020 (413,855 mt)
 - Decrease of 24.0% from previous 5-yr average (474,607 mt)



2021 Gulf Menhaden Season

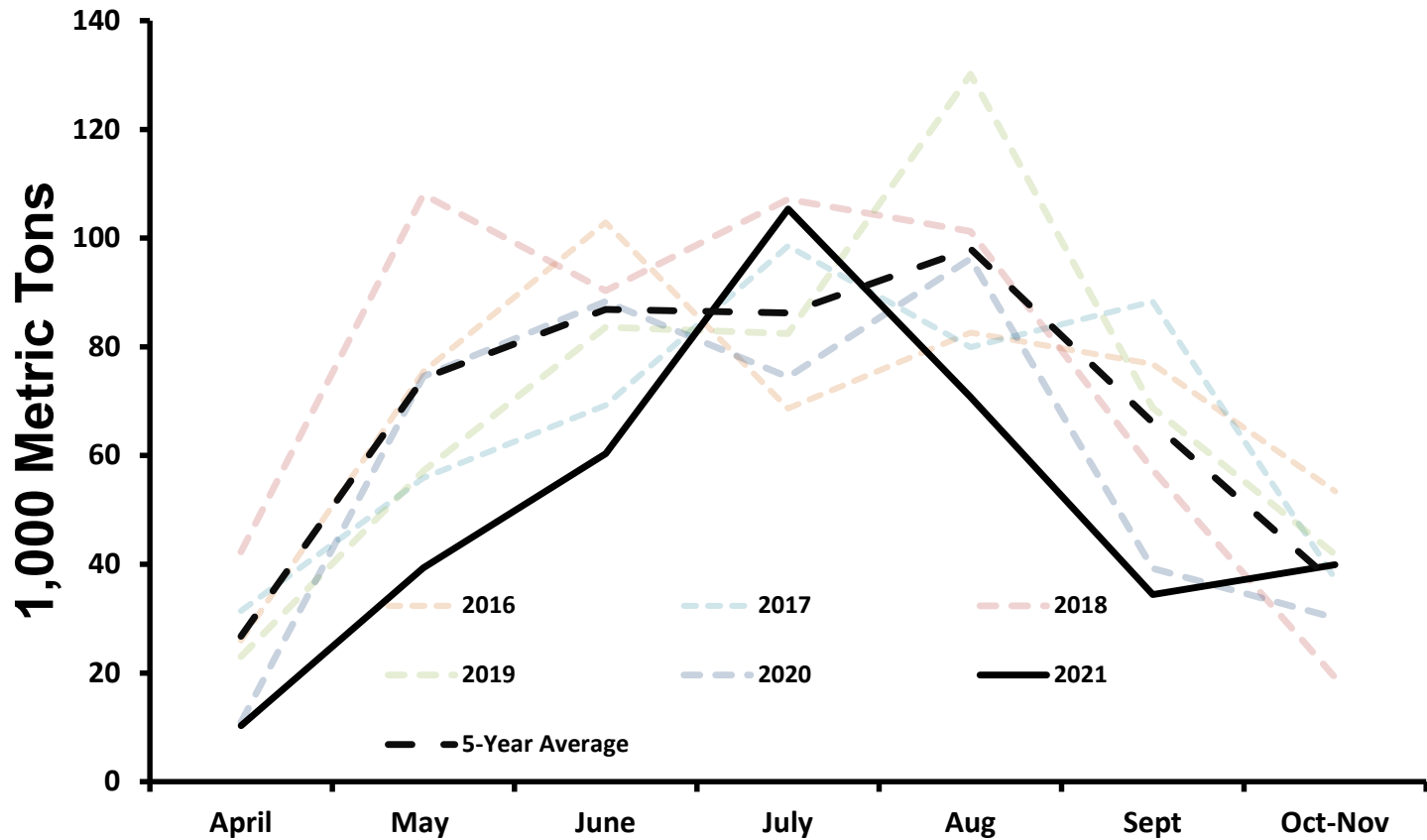
- Three menhaden factories active in the northern Gulf of Mexico in 2021:
 - Moss Point, MS; Empire, LA; and Abbeville, LA
- Warm, wet winter and wetter-than-average spring
- Below-average Gulf of Mexico Hypoxic Zone
 - Third-lowest since measurements began
- Very active hurricane season
 - Six active tropical cyclones in Gulf of Mexico

2021 Landings by Month

Month	Landings (Metric tons)
April	10,306
May	39,352
June	60,337
July	105,385
August	70,807
September	34,417
Oct./Nov.	39,920
Total	360,524



2021 Gulf Landings by Month



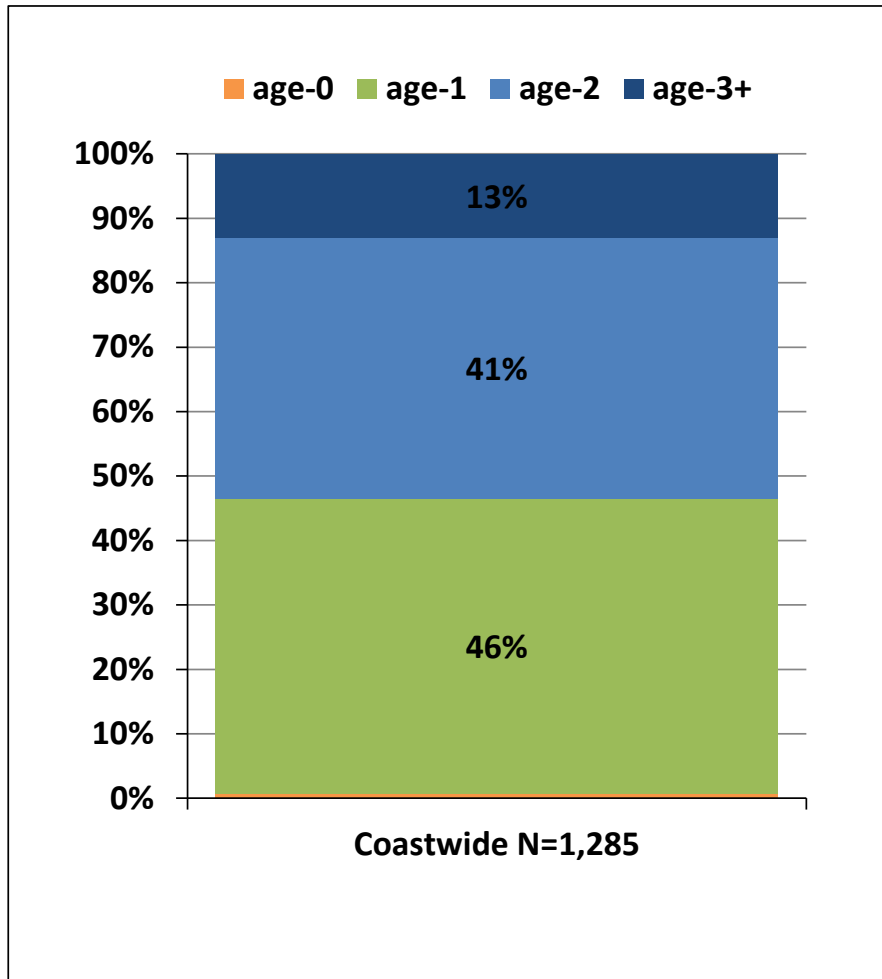
Vessel Participation in 2021

- 34 vessels fished in 2020
 - 29 regular factory vessels
 - Five run boats
- 268,700 vessel-ton-weeks in 2021
 - Increased 1.3% compared to 2020 (265,100 vessel-ton-weeks)



Age Compositions in 2021 by Port

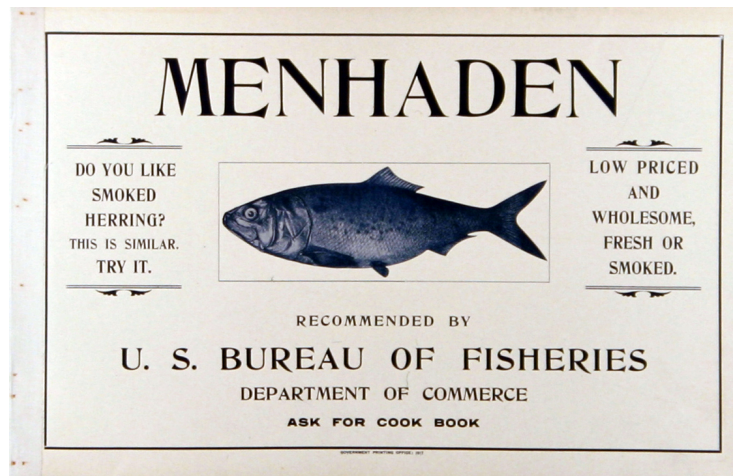
from preliminary catch-at-age matrix



- Critical equipment failure at the beginning of the 2018 fishing season
- Results of age estimation research are in press
- 2021 age estimates to date.

How do 2021 landings compare to the March 2021 Forecast?

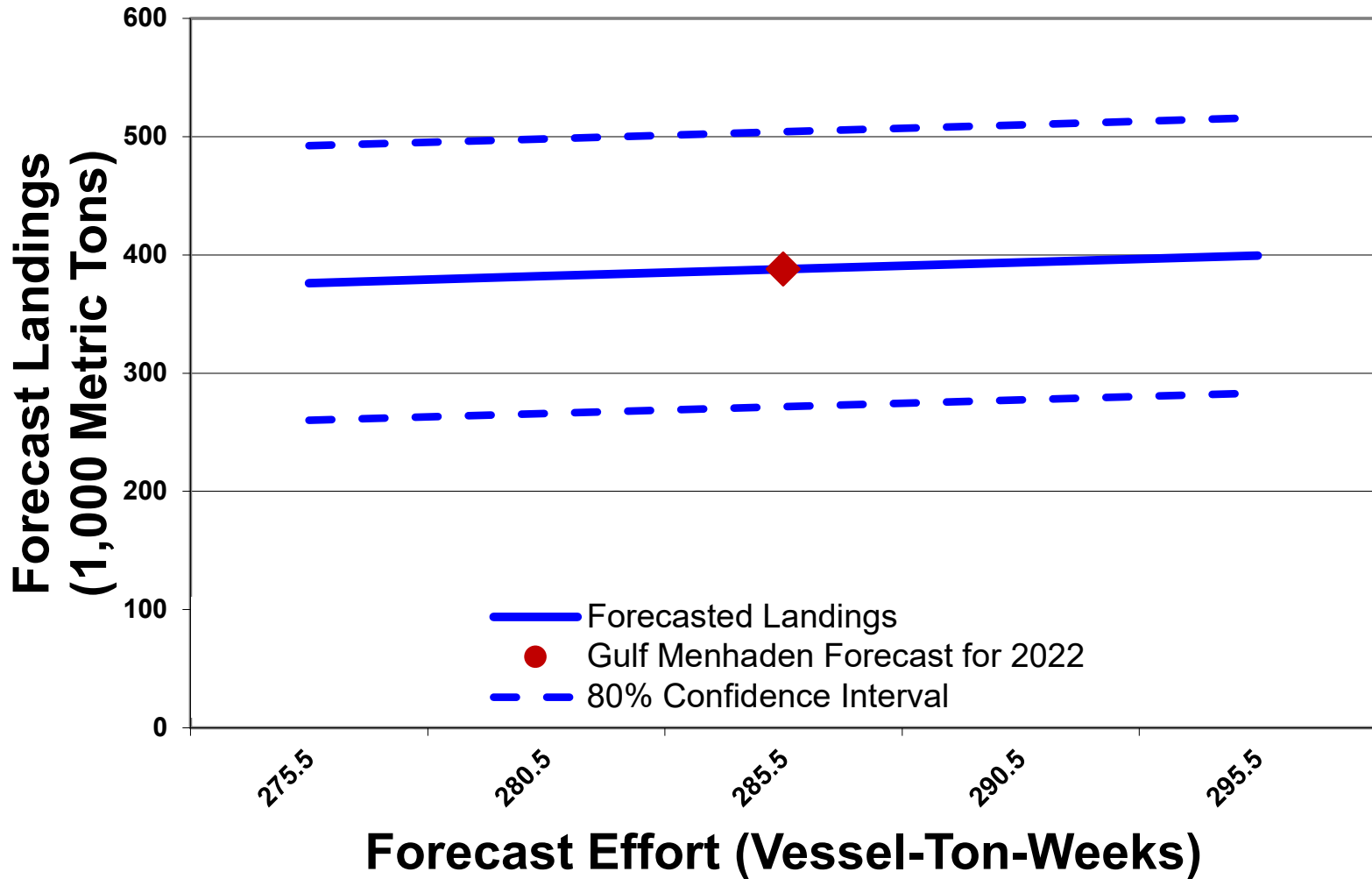
- 2021 Final Landings 360,524 mt
- March 2021 Forecast 424,500 mt w/ 294,800 v-t-wks of nominal effort
 - Actual landings 15.1% lower
- “Hindcast” for 2021 390,340 mt w/ 268,700 v-t-wks of nominal effort
 - Actual landings 7.6% lower



2022 Gulf Menhaden Forecast

- For 2022, we expect:
 - As in 2021, three factories active: Moss Point, Empire, and Abbeville
 - 34 vessels: 29 regular factory vessels, up to 5 run boats, and one bait boat
 - We estimate 285,500 vessel-ton-weeks of nominal fishing effort in 2022
 - Forecast for 2022 landings of 387,900 mt
 - w/ 80% CI of 272,000 and 504,000 mt

2022 Gulf Menhaden Forecast, Continued



2022 Gulf Menhaden Forecast, continued

- Forecast Report will be available in the Fishery Market News Website:

<https://www.st.nmfs.noaa.gov/commercial-fisheries/market-news/index>

- Note to Industry:
 - Blank CDFR forms will be sent once printing is complete.
 - Guidebooks will be sent out soon

CAPTAIN'S DAILY FISHING REPORT

Net Number: _____

VESSEL NAME: GULF SHOLE DATE: 6/23/11 OFFICE USE ONLY
month day year VESSEL NUMBER: _____
 PLANT: 190552014T PLANT NUMBER: _____

IF VESSEL DID NOT LEAVE THE DOCK ON THIS FISHING DAY, CHECK HERE: IF VESSEL LEFT THE DOCK AND DID NOT MAKE ANY SETS ON THE FISHING GROUND THIS FISHING DAY, CHECK HERE:

SET NO.	TIME (Military)		FISH (000)	PLANE NO.	CDFR 5-DIGIT CODE	GPS (d°, mm', ss" (degrees, minutes, decimal seconds))		MILES TO SHORE	WEATHER CONDITIONS			
	START	END				LATITUDE	LONGITUDE		Cloud Cover	Air Temp	Wind Dir	Wind Speed
1	0815	0855	50	43	55336	29 24 41	89 23 25	1.5	3	81	110	0
2	0925	0955	95	0	55337	29 24 54	89 25 78	2.3	3	84	110	5
3	1010	1045	60	44	55326	29 24 10	89 25 88	1.9	3	86	110	0
4	1215	1310	125	0	55325	29 26 41	89 28 06	2.0	3	86	115	0
5												
6												
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14												
15												

PUMP OUT: _____ COMMENTS: _____
 DATE/TIME RETURN TO DOCK: 6/23/11 16:15 hrs Capt. Fat Back
CAPTAIN'S SIGNATURE
FORM CREATED 8/11/00/86c-301

2022 Port Sampling

- Port Samplers remain the same for 2022
- Port Sampler Electronic Reporting upgrade underway
 - Electronic Fish Measuring Boards purchased, new procedure complete
- Travel cancelled through this quarter, training to be completed via videoconferencing



