



Atlantic Bonito: Biology & Catch

DEPARTMENT OF ENVIRONMENTAL QUALITY

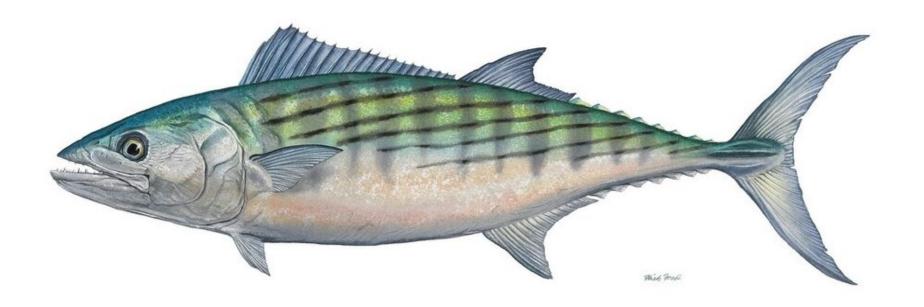
Marine Fisheries

Marine Fisheries Commission | Jacqui Degan | August 2025



Origination

- MFC motion for DMF to develop issue paper for Atlantic bonito management
- DMF Marine Fisheries Biologist vacancy filled
- Present background and available data





Presentation Outline

- Biology
 - Classification & Description
 - Distribution & Habitat
 - Life History
- Management
 - International
 - National
- Catch Characteristics
 - Recreational
 - Commercial
- Timeline



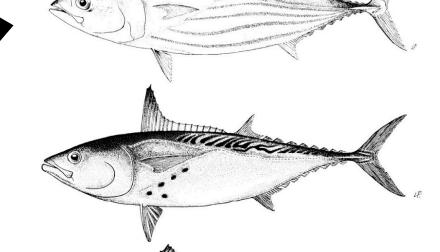
Classification & Description

- Family: Scombridae
 - o Scientific Name: Sarda sarda



Occurrence of the common Names:

- Atlantic Bonito
- Skipjack
- Bonita
- False albacore
- Little tunny
- Boston mackerel



Katsuwonus pelamis

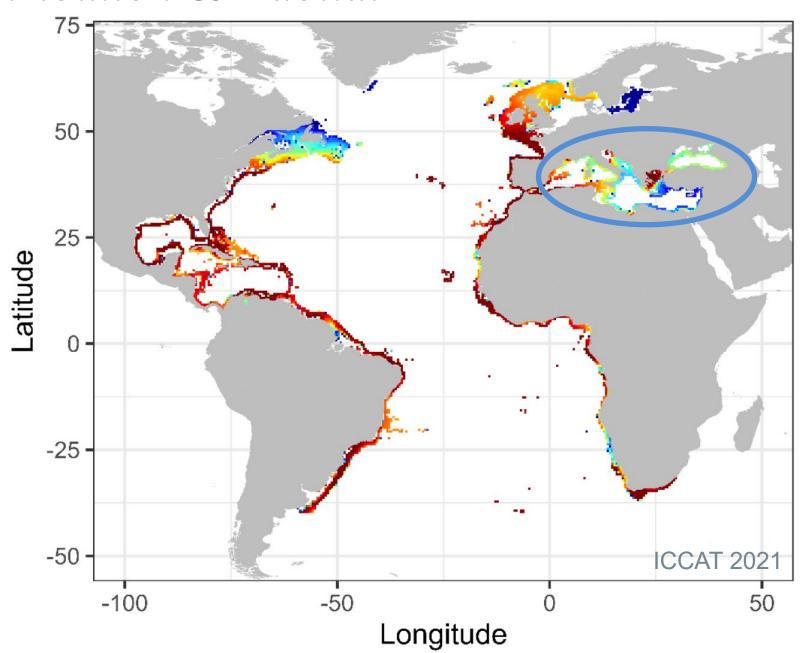
Euthynnus alletteratus

Scomber scombrus

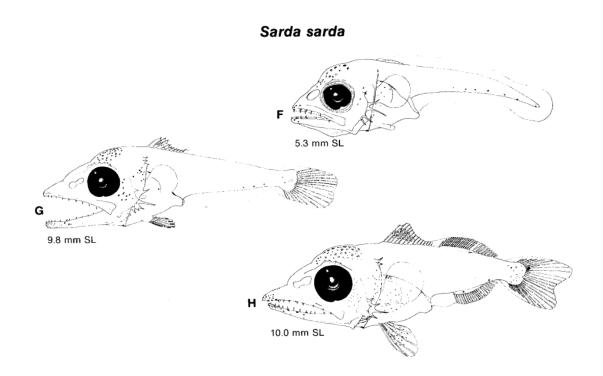
FAO 1983

Distribution & Habitat

- Coastal
- Surface waters
- 54 to 81 °F
- 14 to 39 % Salinity
- Migration
 - Tagging studies



Life History



JNWAFS 1983

Reproduction

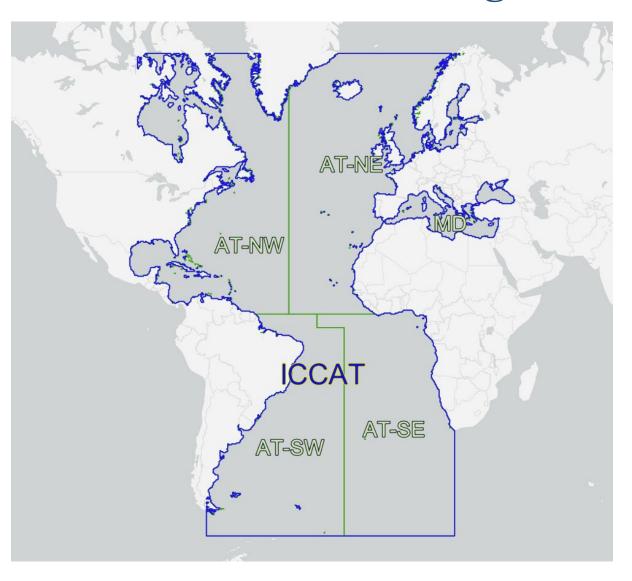
- Spawn in June and July
- Batch spawners
- $_{\circ}$ 300,000 to 1 million eggs
- o 61 to 82 °F

Growth

- Maximum length: 34 inches
- Length of maturity: 15 inches
- Maximum age: 5-7 years



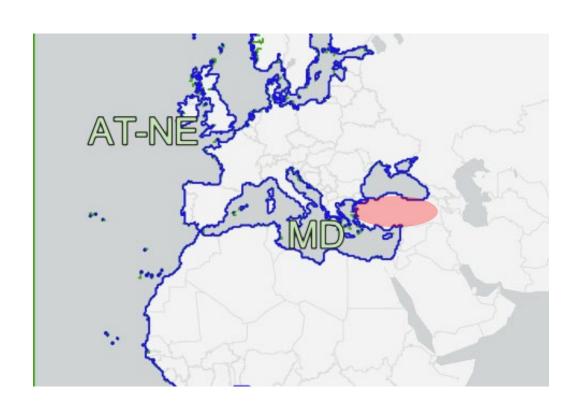
Management: International



- International Commission for the Conservation of Atlantic Tunas (ICCAT)
 - Small Tunas Species Group
 - Bonito 30%
 - Little tunny
 - Frigate tuna
 - King mackerel
 - Spanish mackerel
 - Bullet tuna
 - Wahoo



Management: International



Turkey

- Seasonal ban (April 1 to August 14)
- Minimum size 10 inches
- 11 lbs per angler per day

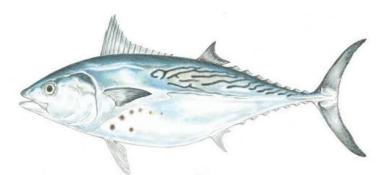


Management: National

- National
 - Massachusetts



Atlantic Bonito



False Albacore

Year round / 16" curved fork length (both species) / 5 fish (Atlantic bonito and false albacore combined)



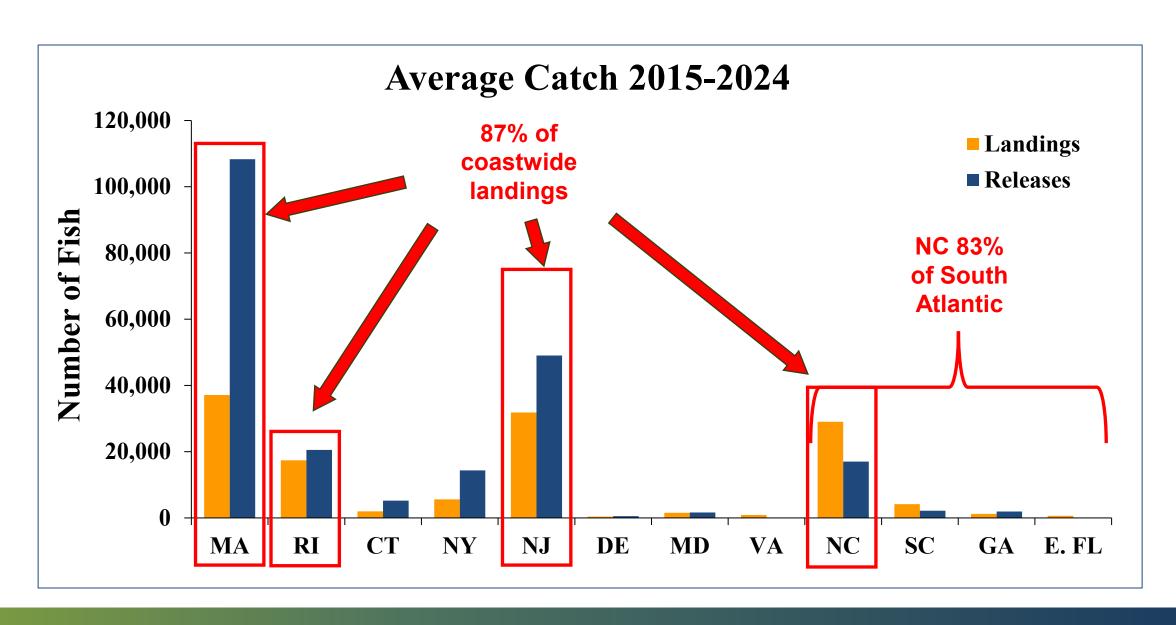


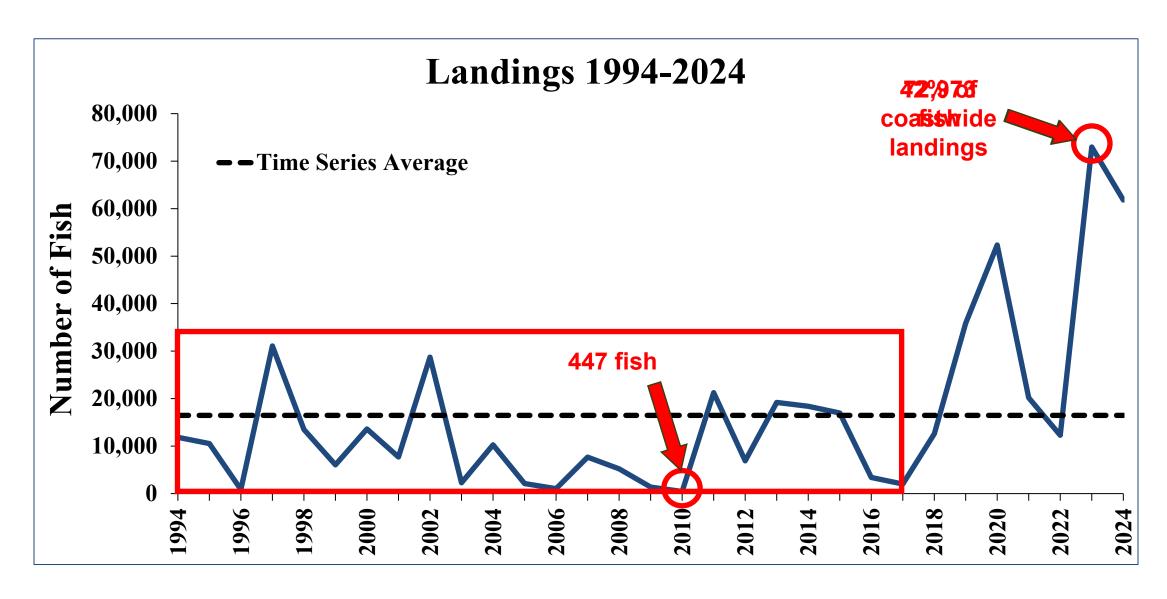
CATCH CHARACTERISTICS

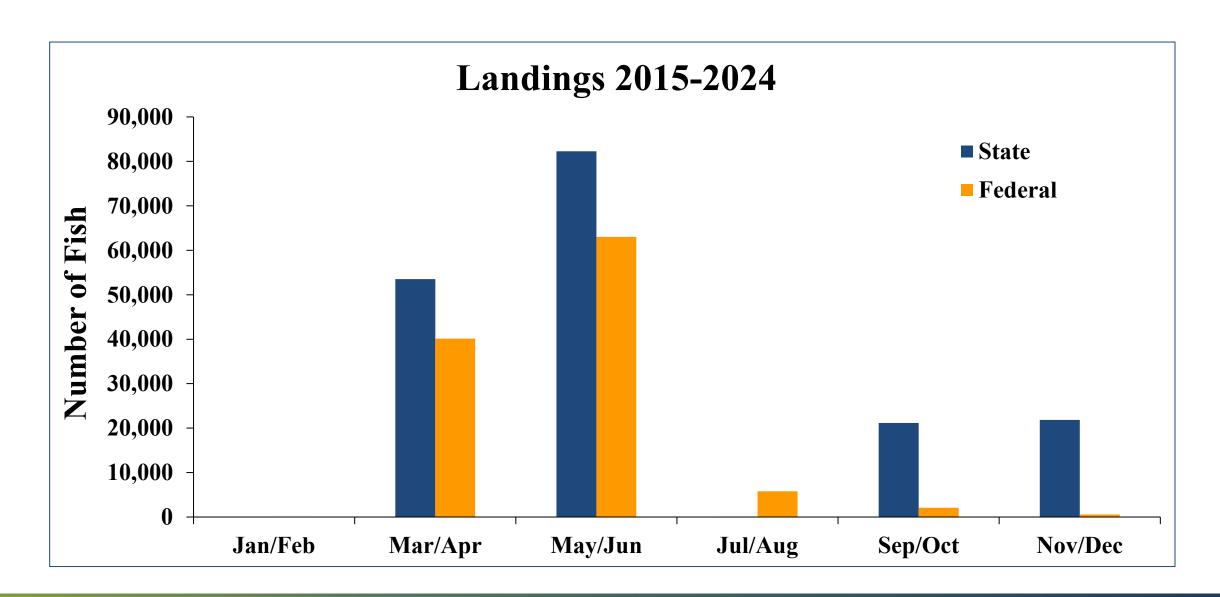


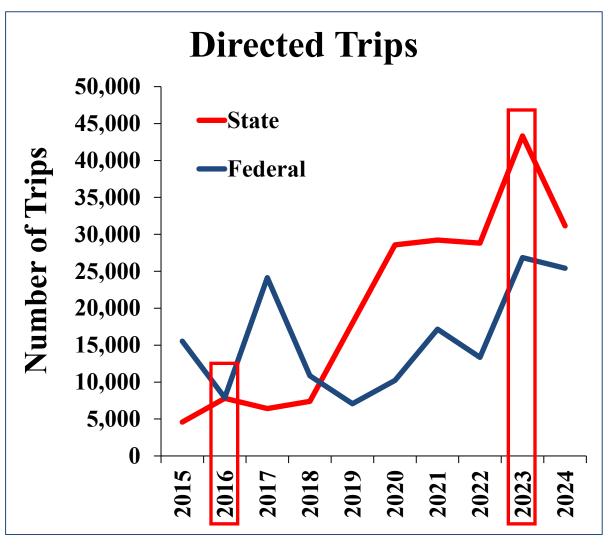
- Atlantic Coastal Cooperative Statistics Program (ACCSP)
- North Carolina Trip Ticket Program
- Marine Recreational Information Program (MRIP)
- Cautionary Notes:
 - Low sample sizes
 - High percent standard error (PSE's)
 - Incorrect identifications

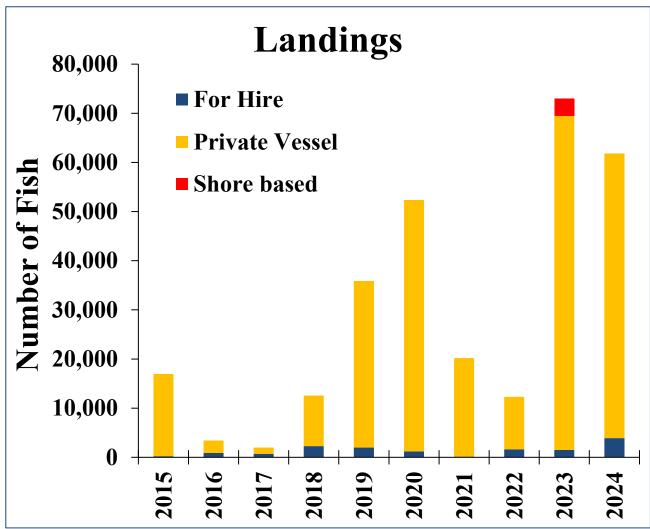




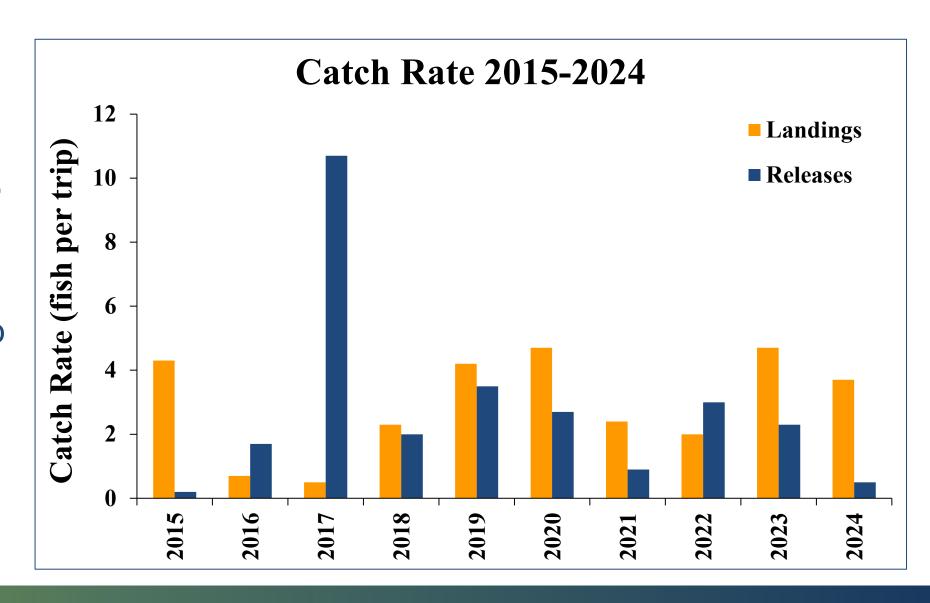




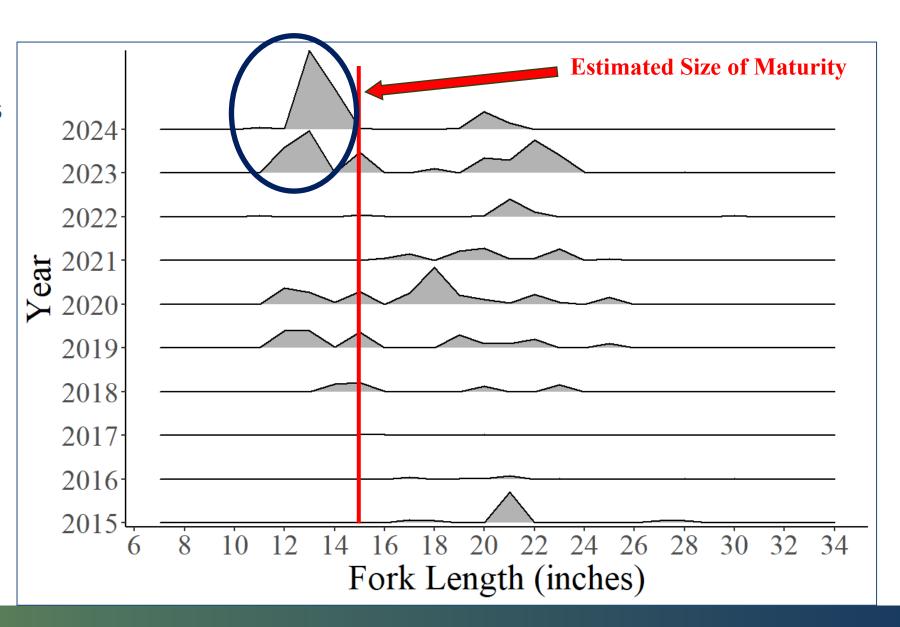


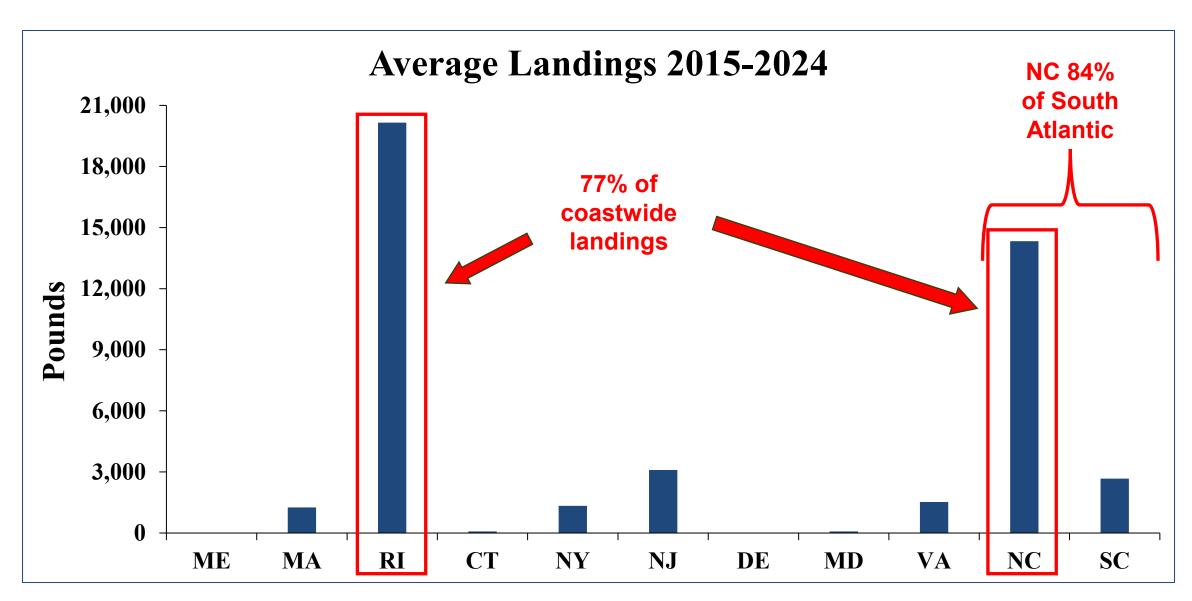


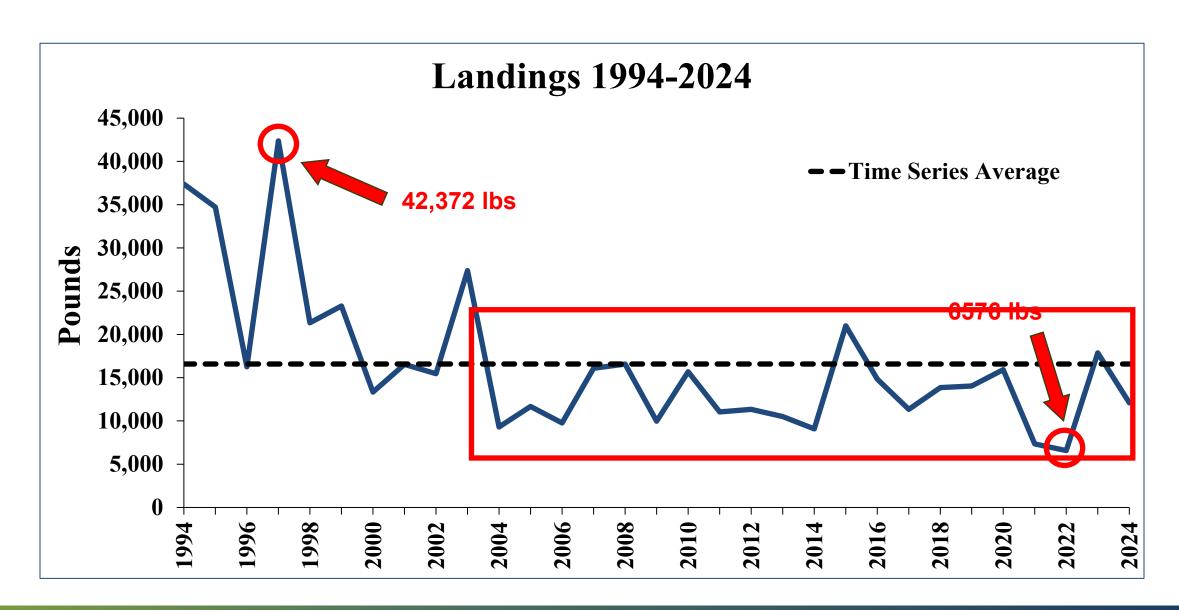
- Catch per trip2 to 11 fish
- Landings per trip
 1 to 5 fish
- Releases per trip
 0 to 11 fish

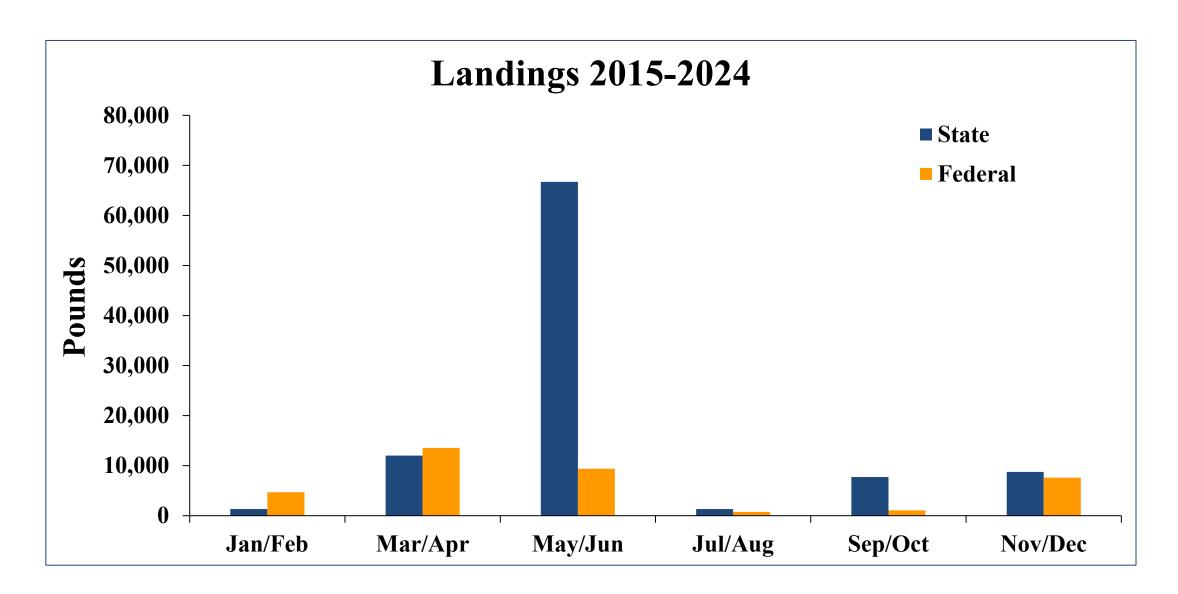


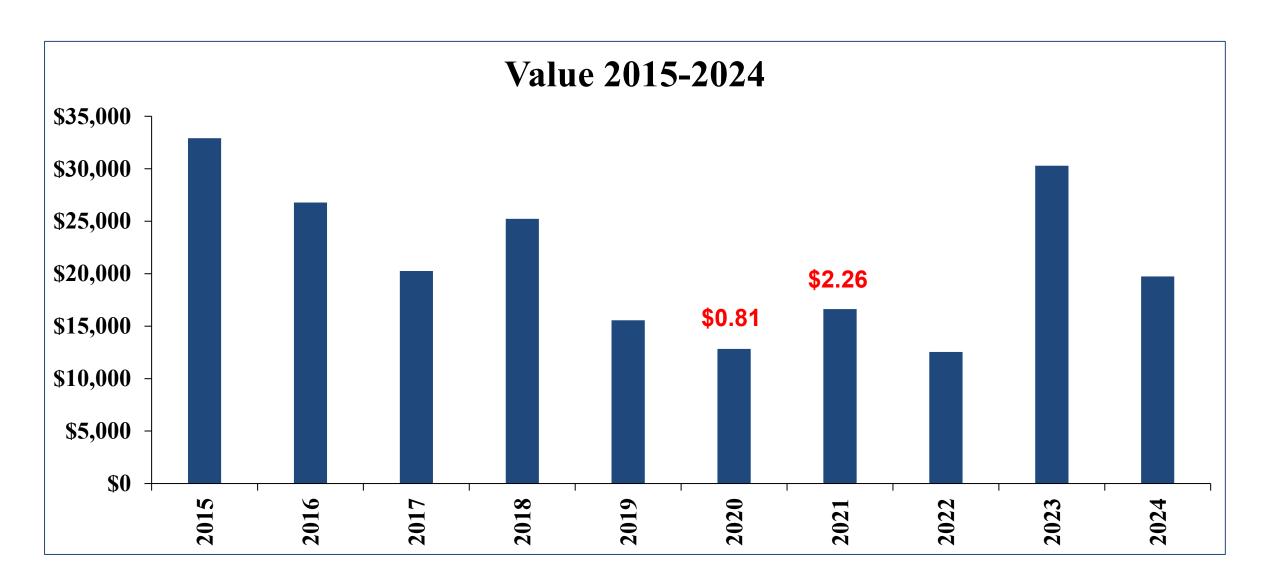
- 2015-2024
 - 14 to 21 inches
 - o 18.4 inches
- 2024
 - 11 to 27 inches
 - 14.5 inches



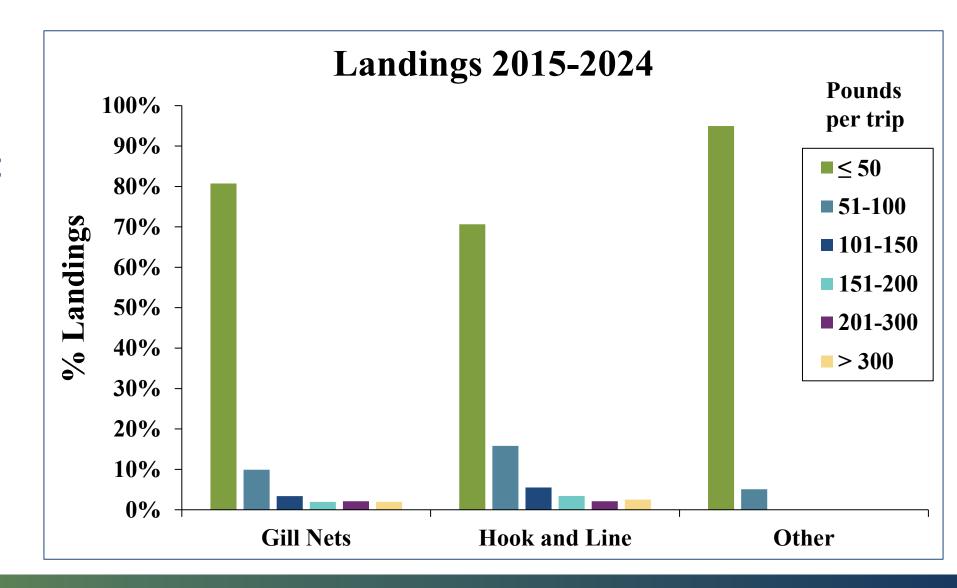




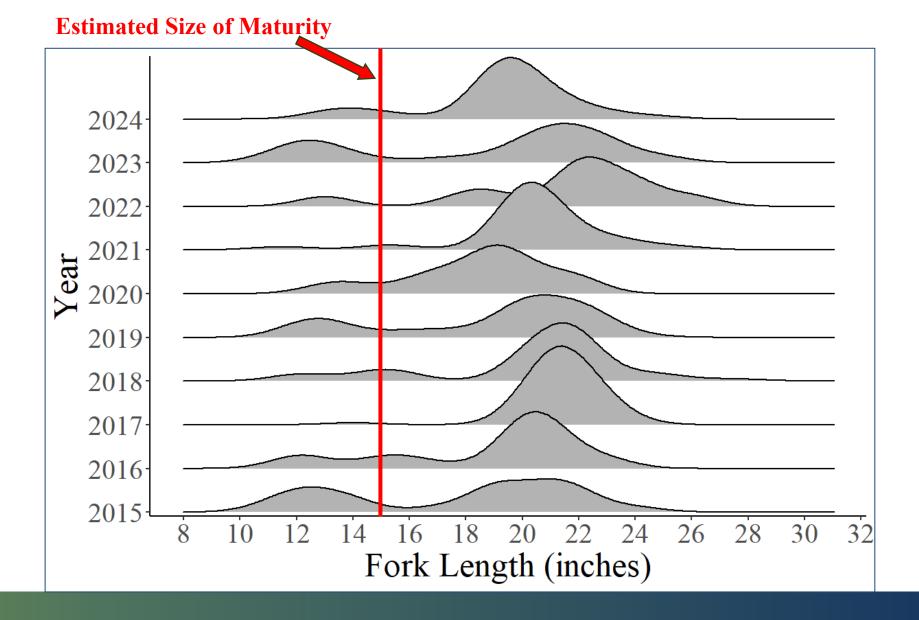




- Gill Nets:
 - o 9,366 lbs
- Hook and Line:4,013 lbs



- 2015-2024
 - o 11 to 28 inches
 - o 19.4 inches
- 2024
 - 13 to 25 inches
 - o 19.2 inches



NC Catch Characteristics: Summary

Recreational

- Accounts for 22% of coastwide landings and 83% in South Atlantic
- Landings more than releases
- Directed trips on private vessels have increased in state waters
- Catch of 2 to 11 fish per trip; Landing 1 to 5 fish per trip
- Smaller fish caught last year, but average at 15 inches

Commercial

- Accounts for 32% of coastwide landings and 84% in South Atlantic
- Total catch has remained below average with low value
- Harvest shifted to state waters; mostly from gill nets
- Most trips harvest ≤ 50 lbs regardless of gear
- No change in size frequency

Atlantic Bonito Next Steps

- DMF address questions and obtain additional input from MFC based on presentation today of background and available data
- DMF incorporate MFC input and complete issue paper
- MFC receive issue paper and select preferred management option
- DMF economist complete fiscal analysis of proposed rule
- MFC vote on Notice of Text for Rulemaking to begin the process

Atlantic Bonito Timeline

	DMF compile background and available data	May-July 2025
You are here	DMF present background and available data to MFC	August 2025
	DMF incorporate MFC input and complete issue paper	Aug. 2025-Jan. 2026
	MFC receive issue paper, select preferred management option	February 2026
	DMF economist complete fiscal analysis of proposed rule	March-April 2026
	MFC vote on Notice of Text for Rulemaking	May 2026
	Proposed rule published in N.C. Register	August 2026
	Public comment period and public hearing held	AugSept. 2026
	MFC receive public comments, vote on final approval of rule	November 2026
	Earliest effective date of rule without legislative review	April 1, 2027
	Earliest effective date of rule if legislative review required	June 2028

Questions?

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