

STRIPED MULLET

(06/05 ARCHIVE - NCDMF)

Stock Status - Recovering - Overfishing is not occurring based on the threshold fishing mortality rate. Landings occur mostly in the later half of the year, allowing females to mature before entering the fishery. The age structure of the stock indicates the majority of reproduction comes heavily from the younger age classes. Most commercial exploitation targets roe-carrying females.

Historically, the commercial fishery has sustained landings similar in scope to current levels. Accurate recreational harvest estimates of striped mullet used for bait are difficult to obtain.

Average Commercial Landings and Value - 1995-2004 -2,114,275 lbs./\$1,224,976

2004 Commercial Landings and Value -1,593,7954 lbs./\$720,040.

Average Recreational Landings -The Marine Recreational Fisheries Statistics Survey is designed to sample anglers who use rod and reel as the mode of capture. Since the majority of striped mullet are caught with cast nets for bait, accurate recreational harvest is imprecise. Mulletts are usually released by anglers before observation by creel clerks and therefore, cannot be identified to the species level.

Average RCGL Landings -- 2002-2004 – 41,670 lbs., **2004** – 36,002 lbs.

Status of Fisheries Management Plan (FMP) - Draft preparations of the North Carolina FMP are in progress. The striped mullet FMP is currently being reviewed for public comment. Final adoption of the FMP is scheduled later this year. There is no inter-jurisdictional management over the Atlantic coastwide striped mullet population.

Data/Research Needs -Collect life history information regarding maturity, age-growth, identification of spawning locations, and larval and juvenile movements. Continued improvements in estimating recreational hook and line and bait harvests. Length and age compositions and catch-per-unit-effort of the commercial, recreational, and recreational-commercial gear fisheries, as well as from all relevant fishery-independent surveys. Improve and validate available juvenile abundance indices.

Current Size Limit (2005) -No restrictions.

Harvest Season (2005) - No restrictions, except for area and season closures for the commercial stop-net beach seine fishery in Bogue Banks.

Size and Age at Maturity - Males: 11.2 inches/2 years; Females: 13.4 inches/2 years

Current Maximum Age –Males: 7 years; Females: 11 years

Juvenile Abundance Index - Unknown.A research recommendation in the FMP is to validate available juvenile abundance estimates.

Habitats and Habits - Striped mullet are found in a wide range of depths and habitats primarily in freshwater to estuarine environments, until a spawning migration into ocean waters occurs during the fall. Aside from its considerable economic importance, striped mullet also serve as an important ecological link between some of the smallest aquatic organisms and the highest-level predators in the marine food chain. Mullet feed on microorganisms such as bacteria, unicellular diatoms, and unicellular algae found on aquatic plants, in mud, silt, and sand, and in decaying plant material. In turn, striped mullet are prey to top predators such as birds, fish, sharks, and porpoises. Striped mullet are highly fecund (upwards of 4 million eggs for a large female) and

spawn in large aggregations near inlets to offshore areas. Spawning individuals have been reported from September to March, however peak spawning activity occurs in October to early December.

For more information, see [DMF Species Leads page](#)