

AMERICAN EEL

(06/06 ARCHIVE - NCDMF)

Stock Status - *Unknown*– The Atlantic States Marine Fisheries Commission (ASMFC) benchmark stock assessment was reviewed in February 2006. The management board accepted the stock assessment as complete; however, after considering the peer review advisory report the board did not approve this document for management purposes. It should be noted the status of the stock in the unapproved stock assessment was still unknown.

Average Commercial Landings and Value 1996-2005 – 110,561 lbs./\$196,797

2005 Commercial Landings and Value – 49,278 lbs./\$106,769

Average Recreational Landings 2002-2005 - Unknown. 2002-2005 Recreational Commercial Gear data demonstrates recreational reporting too insignificant to infer an average yearly catch.

Status of Fisheries Management Plan (FMP) - In North Carolina, American eel is currently included in the Interjurisdictional FMP, which defers to ASMFC FMP compliance requirements. The ASMFC initially approved a FMP in 1999, with the most recent review approved November 2005. ASMFC approved Addendum 1 to this FMP in February 2006. This addendum requires states to establish a mandatory trip-level catch and effort monitoring program, including the documentation of the number of units fished and unit soak time. State compliance to Addendum 1 is required by January 2007.

Research and Data Needs –First is the need to acquire a solid understanding of the species distribution and abundance, commercial and recreational harvest, and a reliable stock assessment method. However, additional funding and personnel are a priority before these research needs can be adequately met.

Current Regulations (2006) – Recreational: 6 inches Total length (TL)/ 50 eels per person per day; Commercial: 6 inches TL

Harvest Season – Year round

Size and Age at Maturity – Males: 12 inches/4–8 years, Females: 18 inches/7-12 years

Historical and Current Maximum Age – 43 years

Juvenile Abundance Index 2001-2005 – 20.9, **2005-** 28.3

Habits/Habitats – The American eel is a catadromous species requiring multiple habitats including: ocean, estuaries, and fresh water streams, rivers, and lakes. This catadromous life cycle requires a migration back to the Sargasso Sea to spawn, while spending the majority of its life in brackish and freshwater. Larvae develop at sea and change from glass eels into elvers in nearshore ocean waters and estuaries. Elvers either remain in the estuary or migrate upstream. At approximately 2 years of age individuals are classified as the yellow eel stage and resemble the adult form. This stage lasts from approximately 5-20 years. Yellow eels also inhabit estuaries and fresh water tributaries where they feed on invertebrates and smaller fish. They prefer areas with soft bottom and vegetation. The mature silver eel life stage occurs at the time of downstream migration, leaving the estuary for the open ocean to spawn then die. Seaward migration occurs in late summer and fall.

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