

TABLE 1: AVAILABLE DATA

**COMMON
NAME:**

STRIPED BASS

SPECIES:

Morone saxatilis

AREA:

MAINE TO NORTH CAROLINA

STOCK:NAFO SUBAREAS 5+6
(MULTIPLE STOCK COMPLEX)

CREATED BY:

GARY SHEPHERD 2001-07-30

UPDATED BY:

[illegible]

[illegible]

TABLE 2: DATA BASIS, FORMAT AND QUALITY

COMMON NAME:	STRIPED BASS		
AREA:	MAINE TO NORTH CAROLINA		
STOCK:	NAFO SUBAREAS 5+6 (MULTIPLE STOCK COMPLEX)		
REPRODUCTIVE STRATEGY:	DETERMINISTIC SPAWNER	REF. NO.:	
TIMING OF SPAWNING:	APRIL - JUNE	REF. NO.:	1
OPTIMAL TIME FOR MATURITY SAMPLING:	JAN - MARCH	REF. NO.:	1

Data basis, format and quality						
Variables	Year range	Data basis (A/L/W)	Data origin	Sampling frequency	Notes on data, methods and contents	Ref. No.
Stock size	1982-2001	A	CC,S	M	VPA	1,2,3,4
Stock composition	1982-2001	A	CC,S	M		1,2,3,4
Age determination	1982-2001	L,A	S,CL	M	Possible age error using scales, small samples in some area/month combinations	1,2,3
Sex ratio	1987-1999	A,L	S,C	SPRING, FALL	Chesapeake only, MD DNR	5-16
	1998-2001	A,L	S	SPRING	coastal NMFS survey	17
	1990-2000	L	C	SUMMER -FALL	Massachusetts Commercial sampling	18
Maturity:						
A. Ogives (E)	1998-2001	L	S	B	Macroscopic exam	19
	1987-1987	A,L	C	A	Histological exam	20
	1973-1975	A,L	C	SPRING	Macroscopic exam	21
B. Skip of spawning	1940				Mentioned as possible	22
C. Spawning probability						
D. Other						
Fecundity:						
A. Estimation	2000-2001	A,L	S	SPRING	Work in progress	23
B. First time vs repeat spawners						
C. Atresia						

Data basis, format and quality						
Variables	Year range	Data basis (A/L/W)	Data origin	Sampling frequency	Notes on data, methods and contents	Ref. No.
D. Other						
Weight:						
A. Commercial fisheries data	1982-2000	A,L	C,R	Q	Estimate from commercial and recreational data	I
B. Survey data	1998-2001 1987-2000 1987-1999	L L,A L,A	S S S	SPRING,F ALL FALL SPRING	NMFS survey data NY Ocean Haul Seine MD DNR survey	
C. Other						
Condition:						
A. Fulton						
B. HSI						
C. Energy						
D. Other						
Egg viability:						
A. Egg quality	1989	L			Published studies	24,25, 26
B. Fertilisation success						
C. Egg mortality						
D. Other						
Larval viability:						
A. Hatching success	1954-1999	A	S	A	Based on egg presence/absence and larval abundance	16
B. Larvae quality						
C. Mortality	1954-1999	A	S	A	Based on egg presence/absence and larval abundance	16
D. Other						
Spawning time						
Contamination	?				Numerous published studies and monitoring of PCB by New York DEC	
Environmental key factors						
Other factors or parameters						

TABLE 3: STUDIES OF REPRODUCTIVE POTENTIAL

COMMON NAME:	STRIPED BASS
AREA:	MAINE TO NORTH CAROLINA
STOCK:	NAFO SUBAREAS 5+6 (MULTIPLE STOCK COMPLEX)

Estimation of reproductive potential			
Subject	Brief description	Year range	Ref. No.
Potential or realised egg production	Egg presence/absence in the MD trributaries to the Chesapeake Bay.	1954-1999	16,27
Viable egg and larvae production			
Critical life stages	Limited to MD tributary of Chesapeake Bay.	1993-1994	28
Environmental influences	Limited to MD tributary of Chesapeake Bay.	1987-1989	29
	Nanticoke River (tributary of Chesapeake Bay).	1993-1994	30
	Hudson River study	1994	31
Stock recruitment relations	Spawning stock vs age 1 recruitis	1982-2000	32
Other studies			

TABLE 4: DATA SOURCES

COMMON NAME:	STRIPED BASS
AREA:	MAINE TO NORTH CAROLINA
STOCK:	NAFO SUBAREAS 5+6 (MULTIPLE STOCK COMPLEX)

Data sources (literature reference or contact person)	
1.	ATLANTIC STATES MARINE FISHERIES COMMISSION. 1998. Source document to Amendment 5 to the Interstate Fishery Management Plan for Atlantic Striped Bass. G. Shepherd and N. Lazar (eds.). <i>Fishery Management Report</i> , No. 34.
2.	ATLANTIC STATES MARINE FISHERIES COMMISSION. 1999. 1999 Summary Report of the Status of the Atlantic Striped Bass. <i>Report of the ASMFC Striped Bass Technical Committee</i> , August 1999.
3.	ATLANTIC STATES MARINE FISHERIES COMMISSION. 2000. 2000 Summary Report of the Status of the Atlantic Striped Bass. <i>Report of the ASMFC Striped Bass Technical Committee</i> , August 2000.
4.	ATLANTIC STATES MARINE FISHERIES COMMISSION. 2001. 2001 Summary Report of the Status of the Atlantic Striped Bass. <i>Report of the ASMFC Striped Bass Technical Committee</i> , August 2001.
5.	MD DNR. 1988. Investigation of striped bass in Chesapeake Bay. <i>USFWS Federal Aid Proj.</i> , F-42-R-1, 219 p.
6.	MD DNR. 1989. Investigation of striped bass in Chesapeake Bay. <i>USFWS Federal Aid Proj.</i> , F-42-R-2, 207 p.
7.	MD DNR. 1990. Investigation of striped bass in Chesapeake Bay. <i>USFWS Federal Aid Proj.</i> , F-42-R-3, 193 p.
8.	MD DNR. 1991. Investigation of striped bass in Chesapeake Bay. <i>USFWS Federal Aid Proj.</i> , F-42-R-4, 142 p.
9.	MD DNR. 1992. Investigation of striped bass in Chesapeake Bay. <i>USFWS Federal Aid Proj.</i> , F-42-R-5, 219 p.
10.	MD DNR. 1993. Investigation of striped bass in Chesapeake Bay. <i>USFWS Federal Aid Proj.</i> , F-42-R-6, 160 p.
11.	MD DNR. 1994. Investigation of striped bass in Chesapeake Bay. <i>USFWS Federal Aid Proj.</i> , F-42-R-7, 158 p.
12.	MD DNR. 1995. Investigation of striped bass in Chesapeake Bay. <i>USFWS Federal Aid Proj.</i> , F-42-R-8, 151 p.
13.	MD DNR. 1996. Investigation of striped bass in Chesapeake Bay. <i>USFWS Federal Aid Proj.</i> , F-42-R-9, 154 p.
14.	MD DNR. 1997. Investigation of striped bass in Chesapeake Bay. <i>USFWS Federal Aid Proj.</i> , F-42-R-10, 185 p.
15.	MD DNR. 1998. Investigation of striped bass in Chesapeake Bay. <i>USFWS Federal Aid Proj.</i> , F-42-R-11, 173 p.
16.	MD DNR. 1999. Investigation of striped bass in Chesapeake Bay. <i>USFWS Federal Aid Proj.</i> , F-42-R-12, 184 p.

Data sources (literature reference or contact person)
17. NORTHEAST FISHERIES SCIENCE CENTER, Woods Hole, MA 02543, USA.
18. MASSACHUSETTS DIVISION OF MARINE FISHERIES, Boston, MA, USA.
19. NMFS BOTTOM TRAWL SURVEY DATA, NEFSC database.
20. BERLINSKY, D. L., M. C. FABRIZIO, J. F. O'BRIEN, and J. L. SPECKER. 1995. Age-at-maturity estimates for Atlantic coast female striped bass. <i>Trans. Am. Fish. Soc.</i> , 124 : 207-215.
21. DEW, C. B. 1988. Biological characteristics of commercially caught Hudson River striped bass, 1973-1975. <i>N.Am. J. Fish. Man.</i> , 8 : 75-83.
22. MERRIMAN, D. 1941. Studies of the striped bass (<i>Morone saxatilis</i>) of the Atlantic coast. U.S. <i>Fish. and Wildl. Service Fishery Bull.</i> , 50 (35): 1-77.
23. RICHARDS, R. A. NEFSC, Woods Hole, MA.
24. MONTELEONE, D. M. and E. D. HOUDE. 1990. Influence of maternal size on survival and growth of striped bass, <i>Morone saxatilis</i> , eggs and larvae. <i>J. Exp. Mar. Biol. Ecol.</i> , 140 : 1-11.
25. MORGAN, R. P., V. J. RASIN, JR., and R. L. COPP. 1981. Temperature and salinity effects on development of striped bass eggs and larvae. <i>Trans. Am. Fish. Soc.</i> , 110 : 95-99.
26. ZATROW, C. E., E. D. HOUDE, and E. H. SAUNDERS. 1989. Quality of striped bass (<i>Morone saxatilis</i>) eggs in relation to river source and female weight. <i>ICES Proc.-Verb.</i> , 191 : 34-42.
27. UPHOFF, J. H., Jr. 1993. Determining striped bass spawning stock status from the presence or absence of eggs in ichthyoplankton survey data. <i>N.Am. J. Fish. Manag.</i> , 13 : No. 4, 645-656.
28. RUTHERFORD, E. S., E. D. HOUDE, and R. M. NYMAN. 1997. Relationship of larval-stage growth and mortality to recruitment of striped bass, <i>Morone saxatilis</i> , in Chesapeake Bay. <i>Estuaries</i> , 20 : No. 1, 174-198.
29. RUTHERFORD, E. S., and E. D. HOUDE. 1992. The influence of temperature on cohort-specific growth, survival and recruitment of larval striped bass, <i>Morone saxatilis</i> , in Chesapeake Bay, USA. International Council for the Exploration of the Sea, Copenhagen (Denmark). Anadromous and Catadromous Fish Comm., ICES Council Meeting Papers, ICES, Copenhagen, Denmark, 1992, 14 p.
30. HOUDE, E. D., E. S. RUTHERFORD, and S. D. LEACH. 1997. Interaction among Environmental Factors and Recruitment Potential in Striped Bass. Maryland Univ., Solomons. Chesapeake Biological Lab.; Michigan Univ., Ann Arbor. School of Natural Resources and Environment., Maryland Dept. of Natural Resources, Annapolis. Monitoring and Non-Tidal Assessment Div. 29 Apr 1997, 216 p.
31. LIMBURG, K. E., M. L. PACE, and K. K. AREND. 1998. Growth, mortality, and recruitment of larval <i>Morone</i> spp. in relation to food availability and temperature in the Hudson River. <i>Fishery Bulletin</i> , 97 : No. 1, 80-91.
32. SHEPHERD, G. Northeast Fisheries Science Center, Woods Hole, MA 02543 USA.

