

TABLE 1: AVAILABLE DATA

COMMON NAME:	ACADIAN REDFISH	SPECIES:	<i>Sebastes fasciatus</i>
AREA:	NORTHWEST ATLANTIC	STOCK:	NAFO SUBAREA 5 (GULF OF MAINE-GEORGES BANK)
CREATED BY:	JAY BURNETT 20010702	UPDATED BY:	

Data status									
Year	Stock size	Stock composition	Age	Sex ratio	Maturity	Fecundity	Weight	Condition	Additional data
2001	✓	✓		(✓)	✓		✓	(✓)	✓
2000	✓	✓	✓	(✓)	✓		✓	(✓)	✓
1999	✓	✓	✓	(✓)	✓		✓	(✓)	✓
1998	✓	✓	✓	(✓)	✓		✓	(✓)	✓
1997	✓	✓	✓	(✓)	✓		✓	(✓)	✓
1996	✓	✓	✓	(✓)	✓		✓	(✓)	✓
1995	✓	✓	✓	(✓)	✓		✓	(✓)	✓
1994	✓	✓	✓	(✓)	✓		✓	(✓)	✓
1993	✓	✓	✓	(✓)	✓		✓	(✓)	✓
1992	✓	✓	✓	(✓)	✓		✓	(✓)	✓
1991	✓	✓	✓	(✓)	✓				✓
1990	✓	✓	✓	(✓)	✓				✓
1989	✓	✓	✓	(✓)	✓				✓
1988	✓	✓	✓	(✓)	✓				✓
1987	✓	✓	✓	(✓)	✓				✓
1986	✓	✓	✓	(✓)	✓				✓
1985	✓	✓	✓	(✓)	✓		✓		✓
1984	✓	✓	✓	(✓)	✓		✓		✓
1983	✓	✓	✓	(✓)	✓		✓		✓
1982	✓	✓	✓	(✓)	✓		✓		✓
1981	✓	✓	✓	(✓)	✓		✓		✓
1980	✓	✓	✓	(✓)	✓		✓		✓
1979	✓	✓	✓	(✓)	✓		✓		✓
1978	✓	✓	✓	(✓)	✓		✓		✓
1977	✓	✓	✓	(✓)	✓		✓		✓
1976	✓	✓	✓	(✓)	✓		✓		✓
1975	✓	✓	✓	(✓)	✓		✓		✓

TABLE 2: DATA BASIS, FORMAT AND QUALITY

COMMON NAME:	ACADIAN REDFISH	
AREA:	NORTHWEST ATLANTIC	
STOCK:	NAFO SUBAREA 5 (GULF OF MAINE-GEORGES BANK)	
REPRODUCTIVE STRATEGY:	VIVIPARITY	REF. NO.: 1
TIMING OF SPAWNING:	APRIL-AUGUST	REF. NO.: 2
OPTIMAL TIME FOR MATURITY SAMPLING:	APRIL	REF. NO.: 2

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	1934-1962	A			Estimated by age-structured model	3
	1963-1968	A,L	CL,S	Q, OCT	Model, rel. abundance	3,4
	1969-1985	A,L,W	CL,S	Q,B	VPA	5
	1986-1991	A,L	S	B	Model, rel. abundance	3,4
	1992-2001	A,L,W	S	B	Model, rel. abundance	3,4
Stock composition	1963-1974	L	S	A,B	Spring survey added	4
	1975-1991	A,L	S	B	1968	4
	1992-2001	A,L,W	S	B		4
Age determination	1975-1985		CL,S	Q,B		5,6
	1986-2000		S	B	Fall surveys only 1991-2000	4,6
Sex ratio	1975-2000	A,L	S	B		4
Maturity:						
A. Ogives (E)	1975-1980 1981-2000	A,L A,L	S S	B B		7,8 4
B. Skip of spawning						
C. Spawning probability						
D. Other						
Fecundity:						
A. Estimation						
B. First time vs. repeat spawners						
C. Atresia						
D. Other						

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.
Weight:						
A. Commercial fisheries data	1969-1974	L,W	CL	Q	Estimated means	4
	1975-1985	A,L,W	CL	Q	Estimated means	4,5
B. Survey data	1992-2001	A,L,W	S	B	Individual fish weights	9
C. Other						
Condition:						
A. Fulton						
B. HSI						
C. Energy						
D. Other						
Egg viability:						
A. Egg quality						
B. Fertilisation success						
C. Egg mortality						
D. Other						
Larval viability:						
A. Hatching success						
B. Larvae quality						
C. Mortality						
D. Other						
Spawning time	1963-2001		S	Q,M	Egg and larval surveys	2,10,11
Contamination						
Environmental key factors						
Other factors or parameters						

TABLE 3: STUDIES OF REPRODUCTIVE POTENTIAL

COMMON NAME:	ACADIAN REDFISH
AREA:	NORTHWEST ATLANTIC
STOCK:	NAFO SUBAREA 5 (GULF OF MAINE-GEORGES BANK)

Estimation of reproductive potential			
Subject	Brief description	Year range	Ref. No.
Potential or realised egg production			
Viable egg and larvae production			
Critical life stages			
Environmental influences			
Stock recruitment relations	Spawning stock biomass vs age 1 recruits	1963-2000	4
Other studies			

TABLE 4: DATA SOURCES

COMMON NAME:	ACADIAN REDFISH
AREA:	NORTHWEST ATLANTIC
STOCK:	NAFO SUBAREA 5 (GULF OF MAINE-GEORGES BANK)

Data sources (literature reference or contact person)	
1.	BOEHLERT, G.W., and M.M. YOKLAVICH. 1984. Reproduction, embryonic energetics, and the maternal-fetal relationship in the viviparous genus <i>Sebastes</i> (Pisces:Scorpaenidae). <i>Biol. Bull.</i> , (Woods Hole), 167 : 354-370.
2.	SMITH, W. G. 1985. Temporal and spatial spawning patterns of the principal species of fish and invertebrates in the Georges Bank region. <i>NMFS, Sandy Hook Lab. Rep.</i> , No. SHL 85-04, 35 p.
3.	J. BRODZIAK, Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543 USA (Jon.Brodziak@noaa.gov).
4.	R.K. MAYO, Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543 USA (RalphMayo@noaa.gov).
5.	NEFC. 1986. Report of the Second NEFC Stock Assessment Workshop (Second SAW). <i>NMFS, NEFC, Woods Hole Lab. Ref. Doc.</i> , No. 86-09, 114 p.
6.	GIFFORD, V.M., and M.K. CRAWFORD. 1988. Redfish <i>Sebastes fasciatus</i> (Chapter 14). In: Age determination methods for Northwest Atlantic species. J. Penttila, and L.M. Dery (eds.). <i>NOAA Tech. Rep., NMFS 72</i> : 135 p.
7.	MAYO, R. K., J. BURNETT, T. D. SMITH, and C. A. MUCHANT. 1990. Growth-maturation interactions of Acadian redfish (<i>Sebastes fasciatus</i> Storer) in the Gulf of Maine-Georges Bank region of the Northwest Atlantic. <i>J. Cons. int. Explor. Mer.</i> , 46 : 287-305.
8.	O'BRIEN, L., J. BURNETT, and R.K. MAYO. 1993. Maturation of 19 species of finfish off the northeast coast of the United States, 1985-1990. <i>NOAA Tech. Rep., NMFS 113</i> : 66 p.
9.	J. BURNETT, Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543 USA (Jay.Burnett@noaa.gov).
10.	COLTON, J., and J. ST. ONGE. 1974. Distribution of fish eggs and larvae in continental shelf waters, Nova Scotia to Long Island. <i>Ser. Atlas Mar. Environ., Am. Geogr. Soc. Folio 23</i> .
11.	COLTON, J. B., Jr., W. G. SMITH, A.W. KENDALL, Jr., P. L. BERRIEN, and M. P. FAHAY. 1979. Principal spawning areas and times of marine fishes, Cape Sable to Cape Hatteras. <i>Fish. Bull.</i> , 76 (4): 5.