

TABLE 1: AVAILABLE DATA

COMMON NAME:	BLUEFISH	SPECIES:	<i>Pomatomus saltatrix</i>
AREA:	NORTHWEST ATLANTIC	STOCK:	NAFO SUBAREAS 5+6
CREATED BY:	JAY BURNETT 2001-09-06	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	(√)	√							√

Data status									
Year	Stock size	Stock composition	Age	Sex ratio	Maturity	Fecundity	Weight	Condition	Additional data
1975	(√)	√							√
1974	(√)	√							√
1973	(√)	√							√
1972	(√)	√							√
1971	(√)	√							√
1970	(√)	√							√
1969	(√)	√							√
1968	(√)	√							√
1967	(√)	√							√
1966	(√)	√							√
1965	(√)	√							√
1964	(√)	√							√
1963	(√)	√							√
1962									
1961									
1960						√			

TABLE 2: DATA BASIS, FORMAT AND QUALITY

COMMON NAME:	BLUEFISH	REF. NO.:	
AREA:	NORTHWEST ATLANTIC	REF. NO.:	1
STOCK:	NAFO SUBAREAS 5+6	REF. NO.:	
REPRODUCTIVE STRATEGY:	UNKNOWN	REF. NO.:	
TIMING OF SPAWNING:	MAY-AUGUST	REF. NO.:	1
OPTIMAL TIME FOR MATURITY SAMPLING:		REF. NO.:	

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	1963-1981	L	S	Y,B	Relative abundance	2,3
	1982-1995	A,L,W	S,CL,R	Y,Q	VPA estimates	3
	1996-2001	L,W	S,CL,R	Y,Q	Relative abundance	2
Stock composition	1963-1981	L	S	Y,B		2,3
	1982-1996	A,L,W	S,CL,R	Y,Q		2,3
	1997-2001	L,W	S,CL,R	Y,Q	No age data	2
Age determination	1982-1993		CL,R	Q	North Carolina DMF	2
	1985-1996		S,CL	B,Q	Northeast Fisheries Science Center	2,3,4
Sex ratio	1977-2001	L	S	B		2
Maturity:						
A. Ogives (E)	1993-1996	A,L	S	B	Macroscopic observations	4
B. Skip of spawning						
C. Spawning probability						
D. Other	late 1980s	L	Special study	M	Gonadosomatic index	5
Fecundity:						
A. Estimation	circa 1960	L	Special study		N=10	6
B. First time vs. repeat spawners						
C. Atresia						
D. Other						
Weight:						
A. Commercial fisheries data	1982-2001	A,L	CL	Q	Estimated mean weights	2,3

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.
B. Survey data	1992-2001	A,L	S	B	Individual fish weights	7
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	L	S	Q-M	Egg and larval surveys	1,5,8,9 10
Contamination						
Environmental key factors						
Other factors or parameters	1973-2001	L	S	B	Food habits data	11

TABLE 3: STUDIES OF REPRODUCTIVE POTENTIAL

COMMON NAME:	BLUEFISH
AREA:	NORTHWEST ATLANTIC
STOCK:	NAFO SUBAREAS 5+6

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 0 fish in the fall	1982-1995	3
Other studies			

TABLE 4: DATA SOURCES

COMMON NAME:	BLUEFISH
AREA:	NORTHWEST ATLANTIC
STOCK:	NAFO SUBAREAS 5+6

Data sources (literature reference or contact person)
1. 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.
2. TERCEIRO, M. Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543 USA (Mark.Terceiro@noaa.gov).
3. STOCK ASSESSMENT REVIEW COMMITTEE (SARC). 1997. A report of the 23rd Northeast Regional Stock Assessment Workshop. <i>NEFSC Ref. Doc.</i> , 97-05, 153-191 p.
4. SALERNO, D. J., J. BURNETT, and R. M. IBARA. 2001. Age, growth, maturity, and spatial distribution of bluefish, <i>Pomatomus saltatrix</i> (Linnaeus), off the northeast coast of the United States, 1985-96. <i>J. Northw. Atl. Fish. Sci.</i> , 29 : 31-39.
5. CHIARELLA, L. A., and D. O. CONOVER. 1990. Spawning season and first-year growth of adult bluefish from the New York Bight. <i>Trans. Am. Fish. Soc.</i> , 119 : 455-462.
6. LASSITER, R. R. 1962. Life history aspects of the bluefish, <i>Pomatomus saltatrix</i> , from the coast of North Carolina. M.S. thesis, North Carolina State University, Raleigh, North Carolina, 103 p.
7. BURNETT, J. Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543 USA (Jay.Burnett@noaa.gov).
8. BERRIEN, P., and J. SIBUNKA. 1999. Distribution patterns of fish eggs in the U.S. Northeast Continental Shelf Ecosystem, 1977-1987. <i>NOAA Tech. Rep.</i> , <i>NMFS</i> 145 , 310 p.
9. HARE, J. A., and R. K. COWEN. 1993. Ecological and evolutionary implications of the larval transport and reproductive strategy of bluefish <i>Pomatomus saltatrix</i> . <i>Mar. Ecol. Prog. Ser.</i> , 98 : 1-16.
10. MCBRIDE, R. S., and D. O. CONOVER. 1991. Recruitment of young-of-the-year bluefish <i>Pomatomus saltatrix</i> to the New York Bight: variation in abundance and growth of spring- and summer-spawned cohorts. <i>Mar. Ecol. Prog. Ser.</i> , 78 : 205-216.
11. LINK, J. S., and F. P ALMEIDA. 2000. An overview and history of the Food Web Dynamics Program of the Northeast Fisheries Science Center, Woods Hole, Massachusetts. <i>NOAA Tech. Mem.</i> , <i>NMFS-NE-159</i> , 60 p.