

TABLE 1: AVAILABLE DATA**COMMON
NAME:**

AMERICAN PLAICE

SPECIES:*Hippoglossoides platessoides***AREA:**

NORTHWEST ATLANTIC

STOCK:GULF OF MAINE-GEORGES BANK
(NAFO SUBAREA 5)**CREATED BY:**JAY BURNETT
2000-01-12**UPDATED BY:**LORETTA O'BRIEN
2000-7-19

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	(√)	√							(√)

TABLE 2: DATA BASIS, FORMAT AND QUALITY

COMMON NAME:	AMERICAN PLAICE	
AREA:	NORTHWEST ATLANTIC	
STOCK:	GULF OF MAINE-GEORGES BANK (NAFO SUBAREA 5)	
REPRODUCTIVE STRATEGY:	DETERMINATE BATCH SPAWNER	REF. NO.:
TIMING OF SPAWNING:	FEBRUARY-JUNE	REF. NO.: 1
OPTIMAL TIME FOR MATURITY SAMPLING:	MARCH-APRIL	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	1963-1979	L	S	B	Relative abundance	2
	1980-2000	A	S,CL,CC	Q	VPA	2,3
Stock composition	1963-1979	L	S	B		2
	1980-2000	L,A,W	S,CL,CC	Q		2,3
Age determination	1980-2000		S,CL,CC	B,Q		2,4
Sex ratio	1980-2000	L,A	S	B		3
Maturity:						
A. Ogives (E)	1986-1990	L,A	S	B	Pooled; macroscopic obs.	5
	1980-2000	L,A	S	B	Annual; macroscopic obs.	3
B. Skip of spawning						
C. Spawning probability						
D. Other						
Fecundity:						
A. Estimation						
B. First time vs. repeat spawners						
C. Atresia						
D. Other						
Weight:						
A. Commercial fisheries data	1980-2000	L,A	CL,CC	Q	Estimated means	2,3
B. Survey data	1992-2000	L,A	S	B	Individual fish weights	3
C. 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.
Condition:						
A. Fulton	1992-2000	L,A	S	B		3
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	1963-2000		S	M-Q	Egg and larval surveys	1,6,7,8, 9,10
Contamination	1980		S		4 fish- muscle sampled	11
Environmental key factors	1963-2000		S	B	Temperature data	3
Other factors or parameters	1973-1979	L	S	B	Food habits	12
	1980, 1999	A,L	S	B		

TABLE 4: DATA SOURCES

COMMON NAME:	AMERICAN PLAICE
AREA:	NORTHWEST ATLANTIC
STOCK:	NAFO SUBDIV. 3Ps

Data sources (literature reference or contact person)
1. MORGAN, M. J., W. B. BRODIE, and D. POWER. MS 1999. An assessment of American plaice in Subdivision 3Ps. <i>Can. Stock Ass. Sec. Res. Doc.</i> , No. 145.
2. UNPUBL. DATA: M. J. MORGAN. DFO, P.O. Box 5667, St. John's, NF, A1C 5X1, Canada (morganj@dfo-mpo.gc.ca).
3. BOWERING, W. R., W. B. BRODIE, and M. J. MORGAN. 1996. Changes in abundance and certain population parameters of American plaice on St. Pierre Bank off Newfoundland during 1972-1994, with implications for fisheries management. <i>North Amer. J. Fish. Manag.</i> , 16 : 747-769.
4. MORGAN, M. J., W. B. BRODIE, and G. T. EVANS. MS 1995. Assessment of the American plaice stock in NAFO Subdiv. 3Ps. <i>DFO Atl. Fish. Res. Doc.</i> , No. 36.
5. MORGAN, M. J. and E. B. COLBOURNE. 1999. Variation in maturity-at-age and size in three populations of American plaice. <i>ICES J. Mar. Sci.</i> , 56 : 673-688.
6. PITT, T. K. 1966. Sexual maturity and spawning of the American plaice, <i>Hippoglossoides platessoides</i> (Fabricius), from Newfoundland and Grand Bank areas. <i>J. Fish. Res. Board Canada</i> , 23 : 651-672.
7. BRODIE, W. B., D. POWER, and W. R. BOWERING. MS 1993. Assessment of the American plaice stock in NAFO Sudiv. 3Ps. <i>DFO Atl. Fish. Res. Doc.</i> , No. 24.
8. BRODIE, W.B. MS 1985. An assessment update of the American plaice stock in NAFO Div. 3LNO. <i>NAFO SCR Doc.</i> , No. 51.
9. ZAMARRO, J. 1992. Determination of fecundity in American plaice (<i>Hippoglossoides platessoides</i>) and its variation from 1987 to 1989 on the tail of the Grand Bank. <i>Neth. J. Sea Res.</i> , 29 : 205-209.
10. MADDOCK, D. M. and M. P. M. BURTON. 1999. Gross and histological observations of ovarian development and related condition changes in American plaice. <i>J. Fish. Biol.</i> , 53 : 928-944.
11. MCCLINTOCK, J. MS 2001. American plaice catch results from fall 2000 GEAC survey in NAFO Division 3Ps. <i>Can. Stock Ass. Sec. Res. Doc.</i> , No. 25.

TABLE 4: DATA SOURCES

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

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. O'BRIEN, L., and C. ESTEVES. 2001. Update assessment of American plaice in the Gulf of Maine-Georges Bank region for 2000. <i>NEFSC Ref. Doc.</i> , 01-02, 114 p.	
3. UNPUBL. DATA: L. O'BRIEN, Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543, USA (Loretta.O'Brien@noaa.gov).	
4. DERY, L. M. 1988. American plaice, <i>Hippoglossoides platessoides</i> (Chapter 17). In: Age determination methods for Northwest Atlantic species. J. Penttila, and L. M. Dery (eds.). <i>NOAA Tech. Rep.</i> , NMFS 72, 135 p.	
5. O'BRIEN, L., J. BURNETT, and R.K. MAYO. 1993. Maturation of nineteen species of finfish off the northeast coast of the United States, 1985-1990. <i>NOAA Tech. Rep.</i> , NMFS 113, 66 p.	
6. SULLIVAN, L. F. 1982. American plaice, <i>Hippoglossoides platessoides</i> , in the Gulf of Maine. III. Spawning and larval distributions. M.Sc. Thesis, University of Rhode Island, Kingston, RI, 127 p.	
7. 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</i> , 23.	
8. 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.	
9. SMITH, W. G., J. D. SIBUNKA, and A. WELLS. 1975. Seasonal distributions of larval flatfish (Pleuronectiformes) on the continental shelf between Cape Cod and Cape Lookout, N.C., 1965-66. <i>NOAA Tech. Rep., Spec. Sci. Rep. Fish.</i> , 691: 68 p.	
10. 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> , NMFS 145, 310 p.	
11. BOEHM, P.D., and P. HIRTZER. 1982. Gulf and Atlantic survey for selected organic pollutants in finfish. <i>NOAA Tech. Mem.</i> , NMFS-F/NEC-13, 111 p.	
12. LINK, J. Northeast Fisheries Science Center, Woods Hole Laboratory, 166 Water Street, Woods Hole, MA 02543, USA (Jason.Link@noaa.gov).	