

TABLE 1: AVAILABLE DATA

COMMON NAME:	YELLOWTAIL FLOUNDER	SPECIES:	<i>Limanda ferruginea</i>
AREA:	NORTHWEST ATLANTIC	STOCK:	CAPE COD US STATISTICAL AREAS 514 AND 521
CREATED BY:	JAY BURNETT 2001-07-31	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	(√)	√							√

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

TABLE 2: DATA BASIS, FORMAT AND QUALITY

COMMON NAME:	YELLOWTAIL FLOUNDER		REF. NO.:	
AREA:	NORTHWEST ATLANTIC		REF. NO.:	1
STOCK:	CAPE COD US STATISTICAL AREAS 514 AND 521		REF. NO.:	
REPRODUCTIVE STRATEGY:	DETERMINATE BATCH SPAWNER		REF. NO.:	
TIMING OF SPAWNING:	APRIL-AUGUST		REF. NO.:	1
OPTIMAL TIME FOR MATURITY SAMPLING:	APRIL-MAY		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	1963-1984	L	S	Y,B	Relative abundance	2,3
	1985-1999	A,L	S,CL,CC	B,Q	VPA	2,3,4
	2000-2001	A,L	S,CL,CC	B,Q		3
Stock composition	1963-1977	L	S	Y,B	Fall survey only 1963-67	2,3
	1978-2001	A,L	S,CL,CC	B,Q	Sea sampling began 1989	2,3
Age determination	1978-2001		S,CL,CC	B,Q	NEFSC and MA DMF surveys	2,5
Sex ratio	1978-2001	A,L	S,CL	B,Q	Commercial samples sexed	6
Maturity:						
A. Ogives (E)	1985-1990 combined	A,L	S	B	Macroscopic observations	7
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	1985-1998	A,L	CL	Q	Estimated mean weights	2,3
B. Survey data	1992-2001	A,L	S	B	Individual fish weights	6
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						
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	1,8,9 10,11
Contamination	1980	L	Special study		PCH and PCB levels n=8	12
Environmental key factors						
Other factors or parameters	1973-2001	A,L	S	B	Food habits data	13

TABLE 3: STUDIES OF REPRODUCTIVE POTENTIAL

COMMON NAME:	YELLOWTAIL FLOUNDER
AREA:	NORTHWEST ATLANTIC
STOCK:	CAPE COD US STATISTICAL AREAS 514 AND 521

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	1985-1996	2
Other studies			

TABLE 4: DATA SOURCES

COMMON NAME:	YELLOWTAIL FLOUNDER
AREA:	NORTHWEST ATLANTIC
STOCK:	CAPE COD US STATISTICAL AREAS 514 AND 521

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. 28th NORTHEAST REGIONAL STOCK ASSESSMENT WORKSHOP (28th SAW). 1999. Stock Assessment Review Committee (SARC) Consensus Summary of Assessments. <i>NEFSC Ref. Doc.</i> , 99-08, 304 p.	
3. CADRIN, S. Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543 USA (Steven.Cadrin@noaa.gov).	
4. NORTHERN DEMERSAL WORKING GROUP. 2000. Assessment of 11 Northeast groundfish stocks through 1999: a report to the New England Fishery Management Council's Multi-species Monitoring Committee. <i>NEFSC Ref. Doc.</i> , 00-05, 175 p.	
5. PENTTILA, J. 1988. Yellowtail flounder <i>Limanda ferruginea</i> (Chapter 19). In: Age determination methods for Northwest Atlantic species. J. Penttila, and L.M. Dery (eds.). <i>NOAA Tech. Rep., NMFS 72</i> , 135 p.	
6. BURNETT, J. Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543, USA (Jay.Burnett@noaa.gov).	
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9. 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.	
10. 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.	
11. 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., NMFS</i> , 145, 310 p.	
12. 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.	
13. 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> , NMFS-NE-159, 60 p.	