

Table 9. Yield and biomass per recruit of Cape Cod – Gulf of Maine yellowtail flounder.

The NEFC Yield and Stock Size per Recruit Program - PDBYPRC
 PC Ver.1.2 [Method of Thompson and Bell (1934)] 1-Jan-1992

Run Date: 4-12-2002; Time: 14:49:47.35
 CC_GOM YELLOWTAIL FLOUNDER - 1994-2001 INPUT

Proportion of F before spawning: .4167
 Proportion of M before spawning: .4167
 Natural Mortality is Constant at: .200
 Initial age is: 1; Last age is: 8
 Last age is a PLUS group;
 Original age-specific PRs, Mats, and Mean Wts from file:
 ==> CCGOMYT.DAT

Age-specific Input data for Yield per Recruit Analysis

Age	Fish Mort Pattern	Nat Mort Pattern	Proportion Mature	Average Weights Catch	Stock
1	.0200	1.0000	.0000	.043	.043
2	.2200	1.0000	.0800	.273	.273
3	.9800	1.0000	.8100	.387	.387
4	1.0000	1.0000	1.0000	.501	.501
5	1.0000	1.0000	1.0000	.588	.588
6	1.0000	1.0000	1.0000	.845	.845
7	1.0000	1.0000	1.0000	1.176	1.176
8+	1.0000	1.0000	1.0000	1.328	1.328

Summary of Yield per Recruit Analysis for:
 CC_GOM YELLOWTAIL FLOUNDER - 1994-2001 INPUT

Slope of the Yield/Recruit Curve at F=0.00: -->	3.0044
F level at slope=1/10 of the above slope (F0.1): ----->	.195
Yield/Recruit corresponding to F0.1: ----->	.2205
F level to produce Maximum Yield/Recruit (Fmax): ----->	.437
Yield/Recruit corresponding to Fmax: ----->	.2432
F level at 40 % of Max Spawning Potential (F40): ----->	.174
SSB/Recruit corresponding to F40: ----->	1.1917

Table 9 cont.

	FMORT	TOTCTHN	TOTCTHW	TOTSTKN	TOTSTKW	SPNSTKN	SPNSTKW	% MSP
	.000	.00000	.00000	5.5167	3.5367	3.3453	2.9798	100.00
	.100	.23532	.16955	4.3458	2.1815	2.1818	1.6643	55.85
F0.1	.195	.34935	.22052	3.7809	1.5853	1.6236	1.0959	36.78
F40%	.174	.32915	.21343	3.8808	1.6866	1.7221	1.1917	39.99
	.200	.35385	.22197	3.7586	1.5630	1.6017	1.0748	36.07
	.300	.42566	.23872	3.4049	1.2250	1.2549	.7584	25.45
	.400	.47407	.24300	3.1678	1.0191	1.0246	.5688	19.09
Fmax	.437	.48838	.24322	3.0981	.9623	.9573	.5172	17.36
	.500	.50912	.24277	2.9975	.8838	.8607	.4462	14.97
	.600	.53579	.24102	2.8687	.7896	.7383	.3622	12.15
	.700	.55687	.23890	2.7677	.7210	.6436	.3018	10.13
	.800	.57404	.23682	2.6861	.6691	.5682	.2567	8.62
	.900	.58834	.23493	2.6186	.6286	.5067	.2221	7.45
	1.000	.60050	.23325	2.5617	.5962	.4557	.1947	6.53
	1.100	.61099	.23175	2.5128	.5696	.4128	.1725	5.79
	1.200	.62018	.23041	2.4704	.5473	.3762	.1543	5.18
	1.300	.62832	.22919	2.4330	.5284	.3446	.1390	4.67
	1.400	.63560	.22807	2.3998	.5120	.3171	.1261	4.23
	1.500	.64217	.22702	2.3699	.4977	.2929	.1150	3.86
	1.600	.64814	.22604	2.3429	.4851	.2715	.1054	3.54
	1.700	.65361	.22511	2.3182	.4738	.2525	.0970	3.25
	1.800	.65865	.22422	2.2956	.4636	.2355	.0895	3.00
	1.900	.66332	.22337	2.2746	.4544	.2201	.0830	2.78
	2.000	.66766	.22254	2.2552	.4459	.2063	.0771	2.59