

Table 18. Yield and SSB per Recruit results for Georges Bank cod from O'Brien and Cadrin (1999).

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: 7- 4-1998; Time: 17: 28: 09.47 Cod Georges Bank - 1998

Proportion of F before spawning: .1667
 Proportion of M before spawning: .1667
 Natural Mortality is Constant at: .200
 Initial age is: 1; Last age is: 10 Last age is a PLUS group;
 Original age-specific PRs, Mats, and Mean Wts from file: ==> GBYPR10P.DAT

Age-specific Input data for Yield per Recruit Analysis

Age	Fish Mort Pattern	Nat Mort Pattern	Proportion Mature	Average Catch	Weights Stock
1	.0001	1.0000	.0400	.914	.711
2	.1700	1.0000	.4400	1.518	1.167
3	.6600	1.0000	.9300	2.283	1.837
4	1.0000	1.0000	1.0000	3.583	2.826
5	1.0000	1.0000	1.0000	4.835	4.182
6	1.0000	1.0000	1.0000	6.675	5.808
7	1.0000	1.0000	1.0000	9.044	8.028
8	1.0000	1.0000	1.0000	9.562	9.218
9	1.0000	1.0000	1.0000	11.712	10.700
10+	1.0000	1.0000	1.0000	13.250	13.250

Summary of Yield per Recruit Analysis for: Cod Georges Bank - 1998

Slope of the Yield/Recruit Curve at F=0.00: --> 24.7823
 F level at slope=1/10 of the above slope (F0.1): -----> .175
 Yield/Recruit corresponding to F0.1: -----> 1.6614
 F level to produce Maximum Yield/Recruit (Fmax): -----> .340
 Yield/Recruit corresponding to Fmax: -----> 1.8051
 F level at 20 % of Max Spawning Potential (F20): -----> .406
 SSB/Recruit corresponding to F20: -----> 5.0472

Listing of Yield per Recruit Results for: Cod Georges Bank - 1998

	FMORT	TOTCTHN	TOTCTHW	TOTSTKN	TOTSTKW	SPNSTKN	SPNSTKW	% MSP
	.000	.00000	.00000	5.5167	27.3986	3.9184	25.2391	100.00
	.050	.13115	.89059	4.8636	20.3778	3.2642	18.3023	72.52
	.100	.21908	1.34762	4.4265	16.0044	2.8262	13.9970	55.46
	.150	.28229	1.58847	4.1130	13.0878	2.5116	11.1361	44.12
F0.1	.175	.30759	1.66141	3.9877	11.9857	2.3858	10.0580	39.85
	.200	.33004	1.71408	3.8766	11.0438	2.2743	9.1382	36.21
	.250	.36748	1.77563	3.6918	9.5555	2.0886	7.6881	30.46
	.300	.39770	1.80069	3.5430	8.4381	1.9389	6.6026	26.16
Fmax	.340	.41785	1.80513	3.4440	7.7381	1.8392	5.9243	23.47
	.350	.42265	1.80475	3.4205	7.5772	1.8155	5.7687	22.86
	.400	.44364	1.79678	3.3176	6.8995	1.7119	5.1139	20.26
F20%	.406	.44587	1.79535	3.3068	6.8304	1.7009	5.0472	20.00
	.450	.46159	1.78208	3.2299	6.3559	1.6234	4.5898	18.19
	.500	.47715	1.76384	3.1542	5.9126	1.5469	4.1633	16.50
	.550	.49077	1.74397	3.0880	5.5458	1.4800	3.8111	15.10
	.600	.50284	1.72364	3.0296	5.2382	1.4209	3.5163	13.93
	.650	.51360	1.70352	2.9776	4.9774	1.3683	3.2667	12.94
	.700	.52329	1.68402	2.9310	4.7539	1.3210	3.0531	12.10
	.750	.53206	1.66535	2.8889	4.5605	1.2783	2.8684	11.36
	.800	.54006	1.64762	2.8506	4.3918	1.2395	2.7074	10.73
	.850	.54738	1.63085	2.8156	4.2433	1.2040	2.5660	10.17
	.900	.55412	1.61504	2.7835	4.1118	1.1713	2.4408	9.67
	.950	.56036	1.60016	2.7539	3.9945	1.1412	2.3292	9.23
	1.000	.56615	1.58616	2.7265	3.8892	1.1133	2.2291	8.83