

Table 38. Yield and Spawning Stock biomass per recruit results for witch flounder.

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## Yield per Recruit and Spawning Stock Biomass per Recruit
## YPR Version 2.0
## Date of Run: 19 May 2003 10:59
## Input Data File: H:\WITCHASS\YPR\YPR2003\RUN301-F.DAT
```

```
Model Title: Witch Flounder (run 301)
Start Age = 3
End Age = 20 (Does Not Include Plus Group)
Fishing Mortality Upper Bound = 1.0000
Fishing Mortality Calculation Increment = 0.0001
Fishing Mortality Printing Increment = 0.05
Natural Mortality = 0.1500
Proportion Fishing Mortality Before Spawning = 0.1667
Proportion Natural Mortality Before Spawning = 0.1667
```

Age	Selectivity F	Selectivity M	Stock Weight	Catch Weight	Maturity
3	0.0036	1.0000	0.0787	0.0830	0.0200
4	0.0229	1.0000	0.1459	0.2021	0.0800
5	0.0703	1.0000	0.2319	0.2746	0.3000
6	0.1931	1.0000	0.3328	0.3813	0.6200
7	0.5282	1.0000	0.4442	0.4752	0.8700
8	1.0000	1.0000	0.5615	0.5548	0.9700
9	1.0000	1.0000	0.6816	0.6393	1.0000
10	1.0000	1.0000	0.8006	0.7656	1.0000
11	1.0000	1.0000	0.9175	0.9175	1.0000
12	1.0000	1.0000	1.0399	1.0399	1.0000
13	1.0000	1.0000	1.1348	1.1348	1.0000
14	1.0000	1.0000	1.2335	1.2335	1.0000
15	1.0000	1.0000	1.3259	1.3259	1.0000
16	1.0000	1.0000	1.4097	1.4097	1.0000
17	1.0000	1.0000	1.4875	1.4875	1.0000
18	1.0000	1.0000	1.5575	1.5575	1.0000
19	1.0000	1.0000	1.6215	1.6215	1.0000
20	1.0000	1.0000	1.6787	1.6787	1.0000

Reference Point	F	YPR	SSBR	Mean Age	Mean GT	Exp Spawn
F Zero	0.00000	0.00000	3.22009	7.88231	12.35089	3.51035
F-01	0.19560	0.21504	1.42574	6.17333	9.86110	1.89110
F-Max	0.54470	0.23913	0.70920	5.25697	7.88807	1.10782
F at 40 %MSP	0.23030	0.22321	1.28817	6.01053	9.54415	1.75334

FMORT	CTHN	CTHW	STKN	STKW	SPNSTKN	SPNSTKW	MSP	MNAGE	MNGT	EXSP
0.00000	0.00000	0.00000	6.69668	3.73482	3.97773	3.22009	100.00000	7.88231	12.35089	3.51035
0.05000	0.12719	0.10688	6.09150	3.01110	3.36959	2.49680	77.53824	7.27308	11.60967	2.88137
0.10000	0.21103	0.16547	5.65531	2.51453	2.93327	2.00314	62.20754	6.79993	10.93332	2.43786
0.15000	0.26898	0.19799	5.33144	2.16433	2.61075	1.65669	51.44853	6.43444	10.33526	2.11483
0.20000	0.31092	0.21626	5.08406	1.91048	2.36545	1.40670	43.68521	6.15113	9.81886	1.87226
0.25000	0.34258	0.22661	4.89003	1.72147	2.17388	1.22138	37.93009	5.92942	9.38004	1.68494
0.30000	0.36738	0.23250	4.73412	1.57712	2.02062	1.08043	33.55283	5.75361	9.01047	1.53659
0.35000	0.38740	0.23583	4.60609	1.46422	1.89534	0.97064	30.14315	5.61208	8.70022	1.41647
0.40000	0.40401	0.23766	4.49893	1.37397	1.79097	0.88322	27.42858	5.49635	8.43945	1.31728
0.45000	0.41806	0.23861	4.40769	1.30039	1.70256	0.81225	25.22442	5.40025	8.21931	1.23399
0.50000	0.43018	0.23903	4.32886	1.23933	1.62656	0.75359	23.40289	5.31927	8.03229	1.16300
0.55000	0.44078	0.23913	4.25986	1.18785	1.56039	0.70436	21.87379	5.25012	7.87222	1.10172
0.60000	0.45016	0.23902	4.19878	1.14384	1.50214	0.66244	20.57223	5.19034	7.73411	1.04823
0.65000	0.45855	0.23880	4.14416	1.10574	1.45036	0.62633	19.45062	5.13808	7.61399	1.00106
0.70000	0.46613	0.23850	4.09490	1.07240	1.40393	0.59486	18.47345	5.09193	7.50869	0.95912
0.75000	0.47302	0.23815	4.05013	1.04293	1.36197	0.56718	17.61382	5.05081	7.41569	0.92152
0.80000	0.47934	0.23778	4.00915	1.01665	1.32381	0.54262	16.85101	5.01388	7.33296	0.88760
0.85000	0.48516	0.23740	3.97141	0.99303	1.28889	0.52065	16.16884	4.98047	7.25889	0.85680
0.90000	0.49055	0.23701	3.93647	0.97165	1.25675	0.50087	15.55453	4.95004	7.19216	0.82868
0.95000	0.49558	0.23662	3.90396	0.95218	1.22704	0.48294	14.99784	4.92216	7.13170	0.80287
1.00000	0.50028	0.23623	3.87358	0.93434	1.19945	0.46661	14.49050	4.89647	7.07662	0.77908