

SS2 ALTERNATIVE RUN (F08 MULTI.REP)

Code_version: __2.00o;_01/31/08;_Stock_Synthesis_2_by_Richard_Methot_(NOAA);_
using_Otter_Research_ADMB_7.0.1

Time: Wed Mar 19 08:48:34 2008

Data_File: F08_MULTI.DAT
Control_File: F08_MULTI_IAN.CTL

Convergence_Level:
Hessian:
Sum_of_months_on_read_was:_ 12 rescaled_to_sum_to: 1

LIKELIHOOD 4950.75
indices 3153.61
discard 0
length_comps 0
age_comps 1769.74
size-at-age 0
mean_body_wt 0
Equil_catch 0
catch 27.4002
Recruitment 0
Parm_priors 0
Parm_devs 0
penalties 0
Forecast_Recruitment 0

	Fleet	surv_lambda	surv_like	disc_lambda	disc_like	length_lambda	length_like	age_lambda	age_like	sizeage_lambda	sizeage_like
1	0	0	0	0	0	0	0	1	193.803	0	0
2	0	0	0	0	0	0	0	1	722.843	0	0
3	0	0	0	0	0	0	0	1	286.395	0	0
4	0	0	0	0	0	0	0	1	175.194	0	0
5	0	0	0	0	0	0	0	1	213.2	0	0
6	0	0	0	0	0	0	0	1	178.307	0	0
7	1	154.773	0	0	0	0	0	0	0	0	0
8	1	44.0208	0	0	0	0	0	0	0	0	0
9	1	105.618	0	0	0	0	0	0	0	0	0
10	1	143.636	0	0	0	0	0	0	0	0	0
11	1	79.8689	0	0	0	0	0	0	0	0	0
12	1	127.796	0	0	0	0	0	0	0	0	0
13	1	82.6969	0	0	0	0	0	0	0	0	0
14	1	175.064	0	0	0	0	0	0	0	0	0
15	1	41.067	0	0	0	0	0	0	0	0	0
16	1	33.4215	0	0	0	0	0	0	0	0	0
17	1	67.72	0	0	0	0	0	0	0	0	0
18	1	25.9998	0	0	0	0	0	0	0	0	0
19	1	73.3038	0	0	0	0	0	0	0	0	0
20	1	48.2303	0	0	0	0	0	0	0	0	0
21	1	255.747	0	0	0	0	0	0	0	0	0
22	1	180.776	0	0	0	0	0	0	0	0	0
23	1	518.654	0	0	0	0	0	0	0	0	0
24	1	193.801	0	0	0	0	0	0	0	0	0
25	1	43.3054	0	0	0	0	0	0	0	0	0

```

26 1 40.5962 0 0 0 0 0 0 0 0
27 1 41.73 0 0 0 0 0 0 0 0
28 1 36.0263 0 0 0 0 0 0 0 0
29 1 19.9886 0 0 0 0 0 0 0 0
30 1 13.9444 0 0 0 0 0 0 0 0
31 1 41.9613 0 0 0 0 0 0 0 0
32 1 41.3827 0 0 0 0 0 0 0 0
33 1 45.0029 0 0 0 0 0 0 0 0
34 1 41.8502 0 0 0 0 0 0 0 0
35 1 42.5269 0 0 0 0 0 0 0 0
36 1 24.6281 0 0 0 0 0 0 0 0
37 1 60.3497 0 0 0 0 0 0 0 0
38 1 36.1547 0 0 0 0 0 0 0 0
39 1 29.5795 0 0 0 0 0 0 0 0
40 1 53.5634 0 0 0 0 0 0 0 0
41 1 24.9973 0 0 0 0 0 0 0 0
42 1 23.1701 0 0 0 0 0 0 0 0
43 1 27.2461 0 0 0 0 0 0 0 0
44 1 49.3891 0 0 0 0 0 0 0 0
45 1 64.0237 0 0 0 0 0 0 0 0

```

Source Lambda Like

```

mean_body_wt 0 0
Equil_catch 0 0
Catch 10 2.74002
Recruitment 0 0
Parm_priors 0 0
Parm_devs 1 0
penalties 0

```

```

Variance_adjustments_to_input_values 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42
43 44 45

```

```

Index_extra_CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Discard_extra_CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MeanBodyWt_extra_CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
effN_mult_Lencomp 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
effN_mult_Agecomp 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
effN_mult_Len-at-age 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

```

PARAMETERS

```

Num Value Phase Min Max Init Prior PR_type SD Active_Cnt Prior_Like Bound
M-G_parmsUsing_offset_approach_#:_3
Gender:_1_Pattern:_1
1 0.2 -3
2 0 -3
3 28.1 -2
4 60.2 -2
5 0.2052 -3
6 0.1 -2

```

```

7 0 -3
biology_parms
8 2.44e-006 -3
9 3.34694 -3
10 28.1 -3
11 -0.25 -3
12 1 -3
13 0 -3
recrdist_by_growthpattern:1
14 0 -3
recrdist_by_area:1
15 0 -3
recrdist_by_seas:1
16 4 -3
cohort_growth_dev:2
17 1 -3
MGparm_env_linkages
MG_parm_blockparms
M-G_parm_devs 1
1_YR1982 0 -

MGParm_Block_Assignments
SR_parms
1 11.0006 1 3 31 10.1121 0 -1 99 1 0
2 0.879485 1 0.2 1 0.8 0 -1 99 2 0
3 0.6 -1
4 0 -1
5 -0.47173 1 -5 5 0 0 -1 99 3 0
6 0 -1
Recr_Devs
1982 0.480175 - - - - - - - 4
1983 0.666252 - - - - - - - 5
1984 0.183554 - - - - - - - 6
1985 0.450982 - - - - - - - 7
1986 0.523818 - - - - - - - 8
1987 0.193761 - - - - - - - 9
1988 -0.985401 - - - - - - - 10
1989 0.150743 - - - - - - - 11
1990 0.420276 - - - - - - - 12
1991 0.167928 - - - - - - - 13
1992 0.363846 - - - - - - - 14
1993 0.27197 - - - - - - - 15
1994 0.152032 - - - - - - - 16
1995 0.288818 - - - - - - - 17
1996 -0.133266 - - - - - - - 18
1997 -0.0934432 - - - - - - - 19
1998 -0.0834052 - - - - - - - 20
1999 -0.382198 - - - - - - - 21
2000 -0.216948 - - - - - - - 22
2001 -0.217438 - - - - - - - 23
2002 -0.141447 - - - - - - - 24
2003 -0.53948 - - - - - - - 25
2004 -0.243228 - - - - - - - 26
2005 -0.960752 - - - - - - - 27
2006 -0.317149 - - - - - - - 28
init_F_parms
1 1.2679 1 0 2 1 1 -1 10 29 0

```

2 0 -1
3 0 -1
4 0 -1
5 0 -1
6 0 -1
Q_parms
sel_parms
#_size_sel:_1
#_male
#_size_sel:_2
#_male
#_size_sel:_3
#_male
#_size_sel:_4
#_male
#_size_sel:_5
#_male
#_size_sel:_6
#_male
#_size_sel:_7
#_male
#_size_sel:_8
#_male
#_size_sel:_9
#_male
#_size_sel:_10
#_male
#_size_sel:_11
#_male
#_size_sel:_12
#_male
#_size_sel:_13
#_male
#_size_sel:_14
#_male
#_size_sel:_15
#_male
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#_male
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#_male
#_size_sel:_23
#_male
#_size_sel:_24
#_male
#_size_sel:_25
#_male

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#_size_sel:_26
#_male
#_size_sel:_27
#_male
#_size_sel:_28
#_male
#_size_sel:_29
#_male
#_size_sel:_30
#_male
#_size_sel:_31
#_male
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#_size_sel:_39
#_male
#_size_sel:_40
#_male
#_size_sel:_41
#_male
#_size_sel:_42
#_male
#_size_sel:_43
#_male
#_size_sel:_44
#_male
#_size_sel:_45
#_male
#_age_sel:_1
1 1.95761 2 0.5 9 4 4 -1 99 30 0
2 -3 -3
3 3.97162e-009 3 0 9 2 2 -1 99 31 0 LO
4 9 -3
5 -999 -2
6 -999 -2
#_male
#_age_sel:_2
7 2.82246 2 0.5 9 4 4 -1 99 32 0
8 -3 -3
9 0.544786 3 0 9 2 2 -1 99 33 0
10 9 -3
11 -999 -2
12 -999 -2
#_male
#_age_sel:_3

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13 1.02748 2 0.5 9 4 4 -1 99 34 0
14 2.99975 3 -9 3 -3 -3 -1 99 35 0 HI
15 3.78419e-008 3 0 9 2 2 -1 99 36 0 LO
16 8.93608 3 0 9 9 9 -1 99 37 0 HI
17 -999 -2
18 -8.13933 3 -10 10 0 5 -1 99 38 0
#_male
#_age_sel:_4
19 1.83597 2 0.5 9 4 4 -1 99 39 0
20 -8.99999 3 -9 3 -3 -3 -1 99 40 0 LO
21 4.49397e-007 3 0 9 2 2 -1 99 41 0 LO
22 1.63644e-007 3 0 9 9 9 -1 99 42 0 LO
23 -999 -2
24 -9.99936 3 -10 10 0 5 -1 99 43 0 LO
#_male
#_age_sel:_5
25 1.72793 2 0.5 9 4 4 -1 99 44 0
26 -3 -3
27 3.70491e-009 3 0 9 2 2 -1 99 45 0 LO
28 9 -3
29 -999 -2
30 -999 -2
#_male
#_age_sel:_6
31 1.60547 2 0.5 9 4 4 -1 99 46 0
32 -9 3 -9 3 -3 -3 -1 99 47 0 LO
33 2.23577e-008 3 0 9 2 2 -1 99 48 0 LO
34 1.65515e-007 3 0 9 9 9 -1 99 49 0 LO
35 -999 -2
36 -9.99912 3 -10 10 0 5 -1 99 50 0 LO
#_male
#_age_sel:_7
37 1 -3
38 1 -3
#_male
#_age_sel:_8
39 2 -3
40 2 -3
#_male
#_age_sel:_9
41 3 -3
42 3 -3
#_male
#_age_sel:_10
43 4 -3
44 4 -3
#_male
#_age_sel:_11
45 5 -3
46 15 -3
#_male
#_age_sel:_12
47 1 -3
48 1 -3
#_male
#_age_sel:_13
49 2 -3

50 2 -3
#_male
#_age_sel:_14
51 3 -3
52 3 -3
#_male
#_age_sel:_15
53 4 -3
54 4 -3
#_male
#_age_sel:_16
55 5 -3
56 15 -3
#_male
#_age_sel:_17
57 0 -3
58 0 -3
#_male
#_age_sel:_18
59 2 -3
60 2 -3
#_male
#_age_sel:_19
61 3 -3
62 3 -3
#_male
#_age_sel:_20
63 4 -3
64 4 -3
#_male
#_age_sel:_21
65 2 -3
66 2 -3
#_male
#_age_sel:_22
67 3 -3
68 3 -3
#_male
#_age_sel:_23
69 3 -3
70 3 -3
#_male
#_age_sel:_24
71 4 -3
72 4 -3
#_male
#_age_sel:_25
73 2 -3
74 2 -3
#_male
#_age_sel:_26
75 3 -3
76 3 -3
#_male
#_age_sel:_27
77 4 -3
78 4 -3

#_male
#_age_sel:_28
79 2 -3
80 2 -3
#_male
#_age_sel:_29
81 3 -3
82 3 -3
#_male
#_age_sel:_30
83 4 -3
84 4 -3
#_male
#_age_sel:_31
85 5 -3
86 15 -3
#_male
#_age_sel:_32
87 3 -3
88 3 -3
#_male
#_age_sel:_33
89 4 -3
90 4 -3
#_male
#_age_sel:_34
91 1 -3
92 1 -3
#_male
#_age_sel:_35
93 2 -3
94 15 -3
#_male
#_age_sel:_36
95 1 -3
96 1 -3
#_male
#_age_sel:_37
97 2 -3
98 2 -3
#_male
#_age_sel:_38
99 3 -3
100 3 -3
#_male
#_age_sel:_39
101 4 -3
102 15 -3
#_male
#_age_sel:_40
103 0 -3
104 0 -3
#_male
#_age_sel:_41
105 0 -3
106 0 -3
#_male


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#_age_sel:_42
107 0 -3
108 0 -3
#_male
#_age_sel:_43
109 0 -3
110 0 -3
#_male
#_age_sel:_44
111 0 -3
112 0 -3
#_male
#_age_sel:_45
113 4 -3
114 15 -3
#_male
sel_parm_env_linkages
sel_parm_blockparms
115 2.612 2 0.5 9 4 4 -1 99 51 0
116 0.132447 3 0 9 2 2 -1 99 52 0
117 3.19599 2 0.5 9 4 4 -1 99 53 0
118 0.399783 3 0 9 2 2 -1 99 54 0
119 1.81934 2 0.5 9 4 4 -1 99 55 0
120 0.173406 3 0 9 2 2 -1 99 56 0
121 5.79422 3 0 9 9 9 -1 99 57 0
122 8.37467 3 -10 10 0 5 -1 99 58 0
123 2.12927 2 0.5 9 4 4 -1 99 59 0
124 1.06391e-008 3 0 9 2 2 -1 99 60 0 LO
125 7.11083e-008 3 0 9 9 9 -1 99 61 0 LO
126 0.00212228 3 -10 10 0 5 -1 99 62 0
127 2.89121 2 0.5 9 4 4 -1 99 63 0
128 0.491235 3 0 9 2 2 -1 99 64 0
129 1.55718 2 0.5 9 4 4 -1 99 65 0
130 2.42323e-009 3 0 9 2 2 -1 99 66 0 LO
131 1.11571e-008 3 0 9 9 9 -1 99 67 0 LO
132 -5.75388 3 -10 10 0 5 -1 99 68 0
SEL_parm_devs
1_YR1982 0
Forecast_Recr_Devs
2007 0 - - - - - - - 69

```

Selex_Block_Assignments Years:

Base_parm#	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
1	0	0	0	0	0	0	0	0	0	0	0	0	0	115	115	115	115	115	115	115	115	115	115	115	115
3	0	0	0	0	0	0	0	0	0	0	0	0	0	116	116	116	116	116	116	116	116	116	116	116	116
7	0	0	0	0	0	0	0	0	0	0	0	0	0	117	117	117	117	117	117	117	117	117	117	117	117
9	0	0	0	0	0	0	0	0	0	0	0	0	0	118	118	118	118	118	118	118	118	118	118	118	118
13	0	0	0	0	0	0	0	0	0	0	0	0	0	119	119	119	119	119	119	119	119	119	119	119	119
15	0	0	0	0	0	0	0	0	0	0	0	0	0	120	120	120	120	120	120	120	120	120	120	120	120
16	0	0	0	0	0	0	0	0	0	0	0	0	0	121	121	121	121	121	121	121	121	121	121	121	121
18	0	0	0	0	0	0	0	0	0	0	0	0	0	122	122	122	122	122	122	122	122	122	122	122	122
19	0	0	0	0	0	0	0	0	0	0	0	0	0	123	123	123	123	123	123	123	123	123	123	123	123
21	0	0	0	0	0	0	0	0	0	0	0	0	0	124	124	124	124	124	124	124	124	124	124	124	124
22	0	0	0	0	0	0	0	0	0	0	0	0	0	125	125	125	125	125	125	125	125	125	125	125	125
24	0	0	0	0	0	0	0	0	0	0	0	0	0	126	126	126	126	126	126	126	126	126	126	126	126
25	0	0	0	0	0	0	0	0	0	0	0	0	0	127	127	127	127	127	127	127	127	127	127	127	127


```

5 1995  2.89121 -3 0.491235 9 -999 -999
6 1982  1.60547 -9 2.23577e-008 1.65515e-007 -999 -9.99912
6 1995  1.55718 -9 2.42323e-009 1.11571e-008 -999 -5.75388
7 1982  1 1
8 1982  2 2
9 1982  3 3
10 1982  4 4
11 1982  5 15
12 1982  1 1
13 1982  2 2
14 1982  3 3
15 1982  4 4
16 1982  5 15
17 1982  0 0
18 1982  2 2
19 1982  3 3
20 1982  4 4
21 1982  2 2
22 1982  3 3
23 1982  3 3
24 1982  4 4
25 1982  2 2
26 1982  3 3
27 1982  4 4
28 1982  2 2
29 1982  3 3
30 1982  4 4
31 1982  5 15
32 1982  3 3
33 1982  4 4
34 1982  1 1
35 1982  2 15
36 1982  1 1
37 1982  2 2
38 1982  3 3
39 1982  4 15
40 1982  0 0
41 1982  0 0
42 1982  0 0
43 1982  0 0
44 1982  0 0
45 1982  4 15

```

```

EXPLOITATION  Hrate_is_Continuous_F  Fleet_in_columns;_year_in_rows
yr seas 1 2 3 4 5 6
init_yr 1  1.2679 0 0 0 0 0
1982 1  0.595402 0.345118 0 0 0.571907 0.0204952
1983 1  0.797626 0.388142 0 0 0.0801778 0.0228562
1984 1  0.725689 0.586247 0 0 0.463563 0.0221396
1985 1  0.802818 0.445766 0 0 0.36574 0.00568771
1986 1  0.818679 0.366873 0 0 0.584079 0.039284
1987 1  0.783304 0.309775 0 0 0.367215 0.0332012
1988 1  1.05521 0.439869 0 0 0.530945 0.0266954
1989 1  0.898225 0.404364 0.074797 0 0.196128 0.00626545
1990 1  0.496874 0.333209 0.113382 0 0.327412 0.0330574
1991 1  0.629675 0.36496 0.0842471 0 0.416467 0.0487067
1992 1  0.884227 0.260421 0.0553676 0 0.382673 0.038694

```

1993 1 0.580373 0.282546 0.0611891 0 0.436058 0.0925591
1994 1 0.562156 0.296654 0.0296666 0.0509053 0.407506 0.0631812
1995 1 0.760228 0.525156 0.0122314 0.0200129 0.426889 0.0613531
1996 1 0.475522 0.3635 0.0235728 0.00913772 0.578351 0.042292
1997 1 0.282129 0.0823618 0.0126451 0.00530796 0.513491 0.0292825
1998 1 0.257561 0.118628 0.0118904 0.00748703 0.420086 0.0366528
1999 1 0.197563 0.0910697 0.0471332 0.0177053 0.222714 0.0327238
2000 1 0.173567 0.0918201 0.0219422 0.0059384 0.38613 0.0436747
2001 1 0.175605 0.07105 0.00826828 0.0106197 0.261697 0.0594051
2002 1 0.202588 0.0946733 0.0098913 0.00573971 0.161527 0.0339231
2003 1 0.185697 0.072284 0.0129194 0.00301957 0.211607 0.0350385
2004 1 0.213811 0.0898307 0.00474415 0.00254895 0.176707 0.0421661
2005 1 0.204824 0.0716039 0.00425289 0.00274663 0.166086 0.0422069
2006 1 0.145567 0.0671848 0.00589704 0.00257925 0.168439 0.0367256
2007 1 9.23527e-006 4.26244e-006 3.74129e-007 1.63637e-007 1.06863e-005
2.33e-006

TIME_SERIES Bio-Smry_age:_1 Hrate_is_Continuous_F
pop year period season bio-all bio-smry SpawnBio recruit-0 enc_catch:_1
dead_catch:_1 ret_catch:_1 obs_cat:_1 Hrate-1 enc_catch:_2 dead_catch:_2
ret_catch:_2 obs_cat:_2 Hrate-2 enc_catch:_3 dead_catch:_3 ret_catch:_3
obs_cat:_3 Hrate-3 enc_catch:_4 dead_catch:_4 ret_catch:_4 obs_cat:_4 Hrate-4
enc_catch:_5 dead_catch:_5 ret_catch:_5 obs_cat:_5 Hrate-5 enc_catch:_6
dead_catch:_6 ret_catch:_6 obs_cat:_6 Hrate-6 SPB_vir_LH
1 1980 VIRG 1 479634 479226 477538 59911.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 477569
1 1981 INIT 1 23214.8 22960.1 22076.4 37379.9 16827 16827 16827 10000 1.2679
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 22076.4
1 1982 TIME 1 23283 22960.1 22076.4 47391.2 7418.04 7418.04 7418.04 7536
0.595402 2824.76 2824.76 2824.76 2864 0.345118 0 0 0 0 0 0 0 0 8218.91
8218.91 8218.91 8267 0.571907 296.063 296.063 296.063 296 0.0204952 22102.3
1 1983 TIME 1 23541.5 23153.1 22000.4 56997.8 10632.9 10632.9 10632.9 10201
0.797626 3215.63 3215.63 3215.63 3201 0.388142 0 0 0 0 0 0 0 0 1274.63
1274.63 1274.63 1268 0.0801778 376.767 376.767 376.767 376 0.0228562 22148
1 1984 TIME 1 30526.1 30259 28798.3 39199.6 11069.2 11069.2 11069.2 11455
0.725689 5491.51 5491.51 5491.51 5674 0.586247 0 0 0 0 0 0 0 0 8340.76
8340.76 8340.76 8512 0.463563 414.907 414.907 414.907 415 0.0221396 28899.8
1 1985 TIME 1 25406.5 25081.3 24022.7 47705.8 10987 10987 10987 10767
0.802818 3914.39 3914.39 3914.39 3907 0.445766 0 0 0 0 0 0 0 0 5732.58
5732.58 5732.58 5665 0.36574 92.0256 92.0256 92.0256 92 0.00568771 24146.3
1 1986 TIME 1 24542.7 24199.2 23023.6 50405.6 9670.04 9670.04 9670.04 9500
0.818679 2702.9 2702.9 2702.9 2687 0.366873 0 0 0 0 0 0 0 0 8222.45
8222.45 8222.45 8102 0.584079 578.55 578.55 578.55 578 0.039284 23154.1
1 1987 TIME 1 23800.7 23557 22328.7 35763.9 9771.98 9771.98 9771.98 9945
0.783304 2311.33 2311.33 2311.33 2326 0.309775 0 0 0 0 0 0 0 0 5474.22
5474.22 5474.22 5519 0.367215 521.584 521.584 521.584 522 0.0332012 22421.3
1 1988 TIME 1 23069.5 22995 22023.2 10933.3 11486.8 11486.8 11486.8 11616
1.05521 3055.86 3055.86 3055.86 3071 0.439869 0 0 0 0 0 0 0 0 6593.9
6593.9 6593.9 6634 0.530945 340.93 340.93 340.93 341 0.0266954 22051.5
1 1989 TIME 1 11676 11512.9 11160.3 23928.4 5975.95 5975.95 5975.95 6218
0.898225 1879.73 1879.73 1879.73 1908 0.404364 705.757 705.757 705.757 709
0.074797 0 0 0 0 1421.61 1421.61 1421.61 1435 0.196128 44.9871 44.9871
44.9871 45 0.00626545 11222.3
1 1990 TIME 1 10639.2 10440.9 9899.27 29096.3 2804.32 2804.32 2804.32 2962
0.496874 1201.59 1201.59 1201.59 1237 0.333209 1197.79 1197.79 1197.79 1214
0.113382 0 0 0 0 2244.76 2244.76 2244.76 2329 0.327412 233.236 233.236
233.236 234 0.0330574 9974.62

1 1991 TIME 1 13788.5 13607.8 12908.3 26507 4473.92 4473.92 4473.92 4629
0.629675 1562.38 1562.38 1562.38 1595 0.36496 1046.58 1046.58 1046.58 1052
0.0842471 0 0 0 0 3528.02 3528.02 3528.02 3611 0.416467 428.241 428.241
428.241 429 0.0487067 12977
1 1992 TIME 1 14108.7 13885.9 13228.7 32693.2 6382.46 6382.46 6382.46 6361
0.884227 1169.98 1169.98 1169.98 1168 0.260421 690.092 690.092 690.092 690
0.0553676 0 0 0 0 3248.25 3248.25 3248.25 3242 0.382673 344.367 344.367
344.367 344 0.038694 13313.3
1 1993 TIME 1 14919.9 14710.7 13934.8 30696.7 4491.49 4491.49 4491.49 4401
0.580373 1322.18 1322.18 1322.18 1313 0.282546 846.301 846.301 846.301 846
0.0611891 0 0 0 0 4055.18 4055.18 4055.18 4006 0.436058 909.333 909.333
909.333 910 0.0925591 14014.3
1 1994 TIME 1 16141.9 15947.6 15184 28514.4 4958.5 4958.5 4958.5 4969
0.562156 1630.73 1630.73 1630.73 1620 0.296654 433.541 433.541 433.541 434
0.0296666 472.132 472.132 472.132 472 0.0509053 4201.27 4201.27 4201.27 4231
0.407506 677.4 677.4 677.4 678 0.0631812 15257.9
1 1995 TIME 1 16363 16138.4 15414.2 32953.6 4447.27 4447.27 4447.27 4911
0.760228 1943.54 1943.54 1943.54 2066 0.525156 137.847 137.847 137.847 138
0.0122314 169.595 169.595 169.595 170 0.0200129 2324.56 2324.56 2324.56 2450
0.426889 750.203 750.203 750.203 752 0.0613531 15499.6
1 1996 TIME 1 20718.7 20552.7 19654.2 24358.2 3918.19 3918.19 3918.19 3947
0.475522 1867.38 1867.38 1867.38 1913 0.3635 355.946 355.946 355.946 355
0.0235728 108.07 108.07 108.07 108 0.00913772 4388.14 4388.14 4388.14 4454
0.578351 687.134 687.134 687.134 681 0.042292 19717.3
1 1997 TIME 1 23214.8 23032.1 22276.1 26808.5 3484.28 3484.28 3484.28 3313
0.282129 687.09 687.09 687.09 681 0.0823618 239.71 239.71 239.71 239
0.0126451 86.1085 86.1085 86.1085 86 0.00530796 5833.36 5833.36 5833.36 5382
0.513491 559.913 559.913 559.913 556 0.0292825 22345.5
1 1998 TIME 1 26576.2 26380.7 25618.9 28696.3 3850.77 3850.77 3850.77 3730
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735.407 735.407 735.407 734 0.0366528 25693.2
1 1999 TIME 1 29259.8 29109.1 28286.6 22114.6 3539.67 3539.67 3539.67 3551
0.197563 1271.76 1271.76 1271.76 1271 0.0910697 1177.61 1177.61 1177.61 1181
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0.222714 708.711 708.711 708.711 711 0.0327238 28343.9
1 2000 TIME 1 32517.2 32332 31637.6 27166 3590 3590 3590 3564 0.173567
1529.87 1529.87 1529.87 1521 0.0918201 591.85 591.85 591.85 592 0.0219422
133.992 133.992 133.992 134 0.0059384 7604.64 7604.64 7604.64 7470 0.38613
948.278 948.278 948.278 952 0.0436747 31708
1 2001 TIME 1 32786.7 32601.2 31846.6 27215 3752.61 3752.61 3752.61 3705
0.175605 1274.81 1274.81 1274.81 1265 0.07105 230.053 230.053 230.053 230
0.00826828 238.013 238.013 238.013 238 0.0106197 5395.49 5395.49 5395.49 5279
0.261697 1268.49 1268.49 1268.49 1274 0.0594051 31917
1 2002 TIME 1 35532.8 35327.1 34532.3 30178.7 4845.25 4845.25 4845.25 4723
0.202588 1871.1 1871.1 1871.1 1850 0.0946733 307.344 307.344 307.344 307
0.0098913 142.064 142.064 142.064 142 0.00573971 3704.72 3704.72 3704.72 3632
0.161527 776.721 776.721 776.721 777 0.0339231 34610.5
1 2003 TIME 1 39940.8 39797.3 38930.3 21051.9 5006.81 5006.81 5006.81 4835
0.185697 1635.26 1635.26 1635.26 1614 0.072284 446.213 446.213 446.213 445
0.0129194 83.0403 83.0403 83.0403 83 0.00301957 5493.05 5493.05 5493.05 5279
0.211607 885.684 885.684 885.684 882 0.0350385 38984.8
1 2004 TIME 1 41141.6 40946.7 40257.4 28596.6 6255.46 6255.46 6255.46 6036
0.213811 2221.22 2221.22 2221.22 2193 0.0898307 170.135 170.135 170.135 170
0.00474415 74.0298 74.0298 74.0298 74 0.00254895 4968.13 4968.13 4968.13 4831
0.176707 1038.15 1038.15 1038.15 1034 0.0421661 40331.4

1 2005 TIME 1 41755.1 41659.5 40874.8 14016.7 6009.79 6009.79 6009.79 5984
0.204824 1846.92 1846.92 1846.92 1841 0.0716039 152.99 152.99 152.99 153
0.00425289 76.9977 76.9977 76.9977 77 0.00274663 4745.78 4745.78 4745.78 4724
0.166086 996.952 996.952 996.952 999 0.0422069 40911.1
1 2006 TIME 1 40233.3 40053.2 39529 26414.8 4482.71 4482.71 4482.71 4481
0.145567 1781.85 1781.85 1781.85 1781 0.0671848 213.998 213.998 213.998 214
0.00589704 73.9991 73.9991 73.9991 74 0.00257925 4995.37 4995.37 4995.37 4992
0.168439 794.683 794.683 794.683 795 0.0367256 39597.5
1 2007 FORE 1 41381 41082.8 40510.7 43744.6 0.332017 0.332017 0.332017
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0.00517644 0.00517644 1.63637e-007 0.378088 0.378088 0.378088 0.378088
1.06863e-005 0.0564658 0.0564658 0.0564658 0.0564658 2.33e-006 40510.8

SPR_series uses_R0= 59911.2 ###note_Y/R_unit_is_Dead_Biomass
Year Bio_all Bio_Smry SPBzero SPBfished SPBfished/R SPR Y/R GenTime Actual:
Bio_all Bio_Smry Enc_Catch Dead_Catch Retain_Catch SPB Recruits Tot_Exploit
More_F(by_morph): aveF-1 maxF-1
1982 32229.7 31821.4 477538 30470.5 0.508594 0.0638075 0.427594 0.184806 +
23283 22960.1 18757.8 18757.8 18757.8 22076.4 47391.2 0.805642 + 1.44249
1.52969
1983 39727.3 39319 477538 37881.2 0.632289 0.0793261 0.461154 0.23543 +
23541.5 23153.1 15499.9 15499.9 15499.9 22000.4 56997.8 0.658408 + 1.19978
1.28519
1984 30604.9 30196.6 477538 28851.5 0.481571 0.0604172 0.422874 0.142576 +
30526.1 30259 25316.4 25316.4 25316.4 28798.3 39199.6 0.829334 + 1.68367
1.79396
1985 32604.1 32195.8 477538 30827 0.514545 0.064554 0.431829 0.167119 +
25406.5 25081.3 20726 20726 20726 24022.7 47705.8 0.815777 + 1.53083 1.6188
1986 28732.3 28324 477538 27010.1 0.450836 0.0565612 0.412432 0.143482 +
24542.7 24199.2 21173.9 21173.9 21173.9 23023.6 50405.6 0.862739 + 1.69089
1.80298
1987 33418.6 33010.3 477538 31640.1 0.528117 0.0662567 0.433782 0.194523 +
23800.7 23557 18079.1 18079.1 18079.1 22328.7 35763.9 0.759603 + 1.39378
1.48847
1988 27011.5 26603.2 477538 25306.4 0.422399 0.0529936 0.405091 0.11147 +
23069.5 22995 21477.5 21477.5 21477.5 22023.2 10933.3 0.930991 + 1.93015
2.04851
1989 32058.6 31650.3 477538 30312.3 0.505953 0.0634762 0.42636 0.187241 +
11676 11512.9 10028 10028 10028 11160.3 23928.4 0.858859 + 1.48977 1.57852
1990 34595 34186.7 477538 32858.3 0.54845 0.0688077 0.431163 0.261998 +
10639.2 10440.9 7681.7 7681.7 7681.7 9899.27 29096.3 0.722017 + 1.20894
1.29892
1991 30934.6 30526.3 477538 29218.7 0.487701 0.0611863 0.41836 0.204142 +
13788.5 13607.8 11039.1 11039.1 11039.1 12908.3 26507 0.800607 + 1.42673
1.53678
1992 30034.8 29626.5 477538 28314.4 0.472607 0.0592925 0.416204 0.182126 +
14108.7 13885.9 11835.1 11835.1 11835.1 13228.7 32693.2 0.838854 + 1.51252
1.61562
1993 31873.8 31465.5 477538 30146.8 0.503191 0.0631296 0.421973 0.227998 +
14919.9 14710.7 11624.5 11624.5 11624.5 13934.8 30696.7 0.779124 + 1.30933
1.43927
1994 33590.3 33182 477538 31831.6 0.531313 0.0666577 0.431053 0.235435 +
16141.9 15947.6 12373.6 12373.6 12373.6 15184 28514.4 0.766549 + 1.25185
1.39954

1995 45868.1 45459.8 477538 43913.8 0.732982 0.0919589 0.50213 0.147926 +
 16363 16138.4 9773.01 9773.01 9773.01 15414.2 32953.6 0.597262 + 1.58823
 1.78146
 1996 50498 50089.7 477538 48530 0.810033 0.101626 0.515467 0.196694 +
 20718.7 20552.7 11324.9 11324.9 11324.9 19654.2 24358.2 0.546602 + 1.32259
 1.47529
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 0.917455
 1998 69644.3 69236 477538 67645.2 1.12909 0.141654 0.552455 0.367515 +
 26576.2 26380.7 12299.9 12299.9 12299.9 25618.9 28696.3 0.462815 + 0.747176
 0.842448
 1999 85958 85549.7 477538 83955.7 1.40134 0.17581 0.563683 0.467508 +
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 2000 77141.1 76732.8 477538 75141.9 1.25422 0.157353 0.55861 0.419976 +
 32517.2 32332 14398.6 14398.6 14398.6 31637.6 27166 0.442801 + 0.625467
 0.712707
 2001 89674.1 89265.8 477538 87670.4 1.46334 0.183589 0.564543 0.48916 +
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 0.574126
 2002 101010 100601 477538 98989.1 1.65227 0.207291 0.575609 0.514129 +
 35532.8 35327.1 11647.2 11647.2 11647.2 34532.3 30178.7 0.327787 + 0.436351
 0.49981
 2003 98627.6 98219.3 477538 96610.2 1.61256 0.202309 0.573842 0.507836 +
 39940.8 39797.3 13550.1 13550.1 13550.1 38930.3 21051.9 0.339254 + 0.44817
 0.51235
 2004 97930.7 97522.4 477538 95913.4 1.60093 0.20085 0.573505 0.506709 +
 41141.6 40946.7 14727.1 14727.1 14727.1 40257.4 28596.6 0.357962 + 0.450859
 0.519928
 2005 103328 102920 477538 101309 1.69099 0.212149 0.573883 0.526184 +
 41755.1 41659.5 13829.4 13829.4 13829.4 40874.8 14016.7 0.331204 + 0.416358
 0.482293
 2006 115502 115093 477538 113478 1.8941 0.237631 0.57513 0.558108 + 40233.3
 40053.2 12342.6 12342.6 12342.6 39529 26414.8 0.306776 + 0.360707 0.418063
 2007 479522 479114 477538 477457 7.96942 0.999831 0.000185743 0.818711 +
 41381 41082.8 0.927974 0.927974 0.927974 40510.7 43744.6 2.24251e-005 +
 2.28845e-005 2.65233e-005

SPAWN_RECRUIT Function: 3 - - - - -
 11.0006 Ln(R0) 59911.2
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 0.6 stddev_recr
 0 env_link_
 -0.47173 init-eq 37379.9
 1982 2006 recdev:start_end 1957 first_year_with_full_bias_adjustment
 year spawn_bio exp_recr with-env bias-adj pred_recr dev
 S/Rcurve 477538 59911.2
 Virg 477538 59911.2 59911.2 50042 59911.2
 Init 22076.4 37379.9 37379.9 31222.3 37379.9
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 1990 9899.27 22881.6 22881.6 19112.3 29096.3 0.420276
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 2003 38930.3 43227.2 43227.2 36106.4 21051.9 -0.53948
 2004 40257.4 43663.6 43663.6 36470.9 28596.6 -0.243228
 2005 40874.8 43859.8 43859.8 36634.8 14016.7 -0.960752
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 2007 40510.7 43744.6 43744.6 43744.6 43744.6 0 forecast

N_est r.m.s.e.
 25 0.419648

INDEX_2

index	year	vuln	bio	obs	exp	eff_Q	SE	Dev	Like	Like+log(s)
7	1982	29774.9	-0.001	5.02351	0.000168716	0.16				
7	1983	37028.8	-0.001	6.24736	0.000168716	0.16				
7	1984	45427.8	-0.001	7.66442	0.000168716	0.16				
7	1985	30632.9	-0.001	5.16827	0.000168716	0.16				
7	1986	37501	-0.001	6.32702	0.000168716	0.16				
7	1987	39105.7	-0.001	6.59778	0.000168716	0.16				
7	1988	28102.3	-0.001	4.74131	0.000168716	0.16				
7	1989	8463.62	-0.001	1.42795	0.000168716	0.16				
7	1990	18452.8	-0.001	3.11328	0.000168716	0.16				
7	1991	22155	-0.001	3.73791	0.000168716	0.16				
7	1992	20208.9	7.15	3.40958	0.000168716	0.16	0.740524	10.7105	8.87789	
7	1993	25126.3	6.5	4.23921	0.000168716	0.16	0.427426	3.56822	1.73564	
7	1994	23534.2	3.76	3.9706	0.000168716	0.16	-0.0544976	0.0580076	-1.77457	
7	1995	22150.4	6.07	3.73713	0.000168716	0.16	0.485041	4.59502	2.76243	
7	1996	26672.9	22.17	4.50015	0.000168716	0.16	1.59463	49.6649	47.8323	
7	1997	19737.2	3.86	3.32998	0.000168716	0.16	0.147701	0.426084	-1.4065	
7	1998	21788.8	1.68	3.67613	0.000168716	0.16	-0.783067	11.9764	10.1439	
7	1999	23322.2	2.11	3.93483	0.000168716	0.16	-0.623181	7.58505	5.75246	
7	2000	17962.7	0.7	3.0306	0.000168716	0.16	-1.46544	41.9435	40.1109	
7	2001	22061.3	3.07	3.72209	0.000168716	0.16	-0.192608	0.724571	-1.10801	
7	2002	22104.7	2.77	3.72943	0.000168716	0.16	-0.297407	1.72756	-0.105022	
7	2003	24578.6	8.17	4.1468	0.000168716	0.16	0.678131	8.98168	7.1491	
7	2004	17137	1.45	2.89128	0.000168716	0.16	-0.690137	9.30253	7.46995	
7	2005	23278.6	2.96	3.92748	0.000168716	0.16	-0.282808	1.56212	-0.270462	
7	2006	11411.5	2.64	1.92531	0.000168716	0.16	0.315691	1.9465	0.113919	
8	1982	14685	-0.001	6.71217	0.000457075	0.16				
8	1983	12864.2	-0.001	5.87992	0.000457075	0.16				
8	1984	19555.4	-0.001	8.93827	0.000457075	0.16				
8	1985	19150.8	-0.001	8.75337	0.000457075	0.16				
8	1986	13693.6	-0.001	6.25902	0.000457075	0.16				
8	1987	14476.6	-0.001	6.61691	0.000457075	0.16				
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8 1993 8225.58 6.7 3.75971 0.000457075 0.16 0.577766 6.51979 4.68721
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8 1996 14786.3 8.33 6.75844 0.000457075 0.16 0.209072 0.853732 -0.97885
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8 1999 15918 4.8 7.27575 0.000457075 0.16 -0.415931 3.37887 1.54629
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8 2002 16320.5 10.74 7.45971 0.000457075 0.16 0.364458 2.59433 0.761748
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8 2005 12956.6 4.03 5.92213 0.000457075 0.16 -0.38493 2.89396 1.06138
8 2006 17653.4 9.06 8.06891 0.000457075 0.16 0.11585 0.262134 -1.57045
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9 1985 3211.37 -0.001 1.15304 0.00035905 0.16
9 1986 3588.64 -0.001 1.2885 0.00035905 0.16
9 1987 2071.15 -0.001 0.743645 0.00035905 0.16
9 1988 2945.75 -0.001 1.05767 0.00035905 0.16
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44 1987 35763.9 0.26 0.225658 6.30965e-006 0.4 0.141662 0.0627127 -0.853578
44 1988 10933.3 0.01 0.0689853 6.30965e-006 0.4 -1.93131 11.6561 10.7398
44 1989 23928.4 0.14 0.15098 6.30965e-006 0.4 -0.0755031 0.0178148 -0.898476
44 1990 29096.3 0.36 0.183588 6.30965e-006 0.4 0.673412 1.41714 0.500847
44 1991 26507.0 0.38 0.16725 6.30965e-006 0.4 0.82068 2.10474 1.18845
44 1992 32693.2 0.37 0.206283 6.30965e-006 0.4 0.584256 1.06673 0.150443
44 1993 30696.7 0.05 0.193686 6.30965e-006 0.4 -1.35421 5.73092 4.81463
44 1994 28514.4 0.57 0.179916 6.30965e-006 0.4 1.15315 4.15547 3.23917
44 1995 32953.6 0.3 0.207926 6.30965e-006 0.4 0.3666 0.419987 -0.496304
44 1996 24358.2 0.08 0.153692 6.30965e-006 0.4 -0.652925 1.33222 0.415931
44 1997 26808.5 0.22 0.169152 6.30965e-006 0.4 0.262829 0.215873 -0.700418
44 1998 28696.3 0.39 0.181064 6.30965e-006 0.4 0.767297 1.83983 0.923534
44 1999 22114.6 0.35 0.139535 6.30965e-006 0.4 0.919615 2.64279 1.7265
44 2000 27166 0.21 0.171408 6.30965e-006 0.4 0.203059 0.128853 -0.787437
44 2001 27215 0.14 0.171717 6.30965e-006 0.4 -0.204206 0.130313 -0.785978
44 2002 30178.7 0.13 0.190417 6.30965e-006 0.4 -0.381682 0.455254 -0.461037
44 2003 21051.9 0.21 0.13283 6.30965e-006 0.4 0.458037 0.655618 -0.260673
44 2004 28596.6 0.27 0.180435 6.30965e-006 0.4 0.403054 0.507664 -0.408626
44 2005 14016.7 0.01 0.0884403 6.30965e-006 0.4 -2.17974 14.8477 13.9315
44 2006 26414.8 0.17 0.166668 6.30965e-006 0.4 0.0197935 0.00122432 -0.915066
45 1982 1013.8 -0.001 0.0188222 1.85661e-005 0.4
45 1983 782.996 -0.001 0.0145372 1.85661e-005 0.4
45 1984 838.424 -0.001 0.0155663 1.85661e-005 0.4
45 1985 564.515 -0.001 0.0104809 1.85661e-005 0.4
45 1986 612.891 -0.001 0.011379 1.85661e-005 0.4
45 1987 569.334 -0.001 0.0105703 1.85661e-005 0.4
45 1988 490.544 -0.001 0.0091075 1.85661e-005 0.4
45 1989 363.752 -0.001 0.00675346 1.85661e-005 0.4
45 1990 422.799 0.02 0.00784974 1.85661e-005 0.4 0.935251 2.73342 1.81713
45 1991 533.68 -0.001 0.00990836 1.85661e-005 0.4
45 1992 261.258 0.01 0.00485054 1.85661e-005 0.4 0.723495 1.63577 0.719475
45 1993 315.937 0.01 0.00586572 1.85661e-005 0.4 0.533459 0.889309 -0.0269816
45 1994 383.774 0.04 0.00712519 1.85661e-005 0.4 1.72524 9.30146 8.38517
45 1995 433.463 0.03 0.00804772 1.85661e-005 0.4 1.31581 5.41048 4.49419
45 1996 386.407 0.02 0.00717407 1.85661e-005 0.4 1.02526 3.28486 2.36857
45 1997 607.581 0.04 0.0112804 1.85661e-005 0.4 1.26581 5.00712 4.09083
45 1998 1792.76 -0.001 0.0332847 1.85661e-005 0.4
45 1999 3558.79 0.03 0.0660728 1.85661e-005 0.4 -0.78956 1.94814 1.03185
45 2000 4695.44 0.09 0.087176 1.85661e-005 0.4 0.0318801 0.00317607 -0.913115
45 2001 5412.56 0.01 0.10049 1.85661e-005 0.4 -2.30748 16.6389 15.7226
45 2002 6673.66 0.11 0.123904 1.85661e-005 0.4 -0.119026 0.0442725 -0.872018
45 2003 7011.68 0.05 0.13018 1.85661e-005 0.4 -0.956892 2.86138 1.94509
45 2004 8235.4 0.1 0.152899 1.85661e-005 0.4 -0.42461 0.563418 -0.352873
45 2005 8883.53 0.04 0.164933 1.85661e-005 0.4 -1.41666 6.27162 5.35533
45 2006 10069.7 0.04 0.186955 1.85661e-005 0.4 -1.54199 7.43039 6.5141

INDEX_1

Index Do_Power Power Do_Env_var Env_Link Do_ExtraVar Qtype Q Num=0/Bio=1
Err_type N Npos r.m.s.e. mean_input_SE mean_(Input+extra)_SE pen_mean_Qdev
rmse_Qdev

```

1 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
2 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
3 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
4 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
5 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
6 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
7 0 1.0 0 0.00 0.0 0 0.000168716 0 0 25 15 0.726836 0.16 0.16 0 0
8 0 1.0 0 0.00 0.0 0 0.000457075 0 0 25 15 0.387631 0.16 0.16 0 0
9 0 1.0 0 0.00 0.0 0 0.00035905 0 0 25 15 0.600424 0.16 0.16 0 0
10 0 1.0 0 0.00 0.0 0 0.000380449 0 0 25 15 0.700198 0.16 0.16 0 0
11 0 1.0 0 0.00 0.0 0 0.000549826 0 0 25 14 0.540455 0.16 0.16 0 0
12 0 1.0 0 0.00 0.0 0 1.64656e-005 0 0 25 25 0.671465 0.21 0.21 0 0
13 0 1.0 0 0.00 0.0 0 4.16651e-005 0 0 25 25 0.540143 0.21 0.21 0 0
14 0 1.0 0 0.00 0.0 0 3.43403e-005 0 0 25 24 0.802098 0.21 0.21 0 0
15 0 1.0 0 0.00 0.0 0 4.35677e-005 0 0 25 20 0.425565 0.21 0.21 0 0
16 0 1.0 0 0.00 0.0 0 7.78219e-005 0 0 25 15 0.443304 0.21 0.21 0 0
17 0 1.0 0 0.00 0.0 0 9.55652e-006 0 0 25 25 0.721548 0.31 0.31 0 0
18 0 1.0 0 0.00 0.0 0 7.38611e-005 0 0 25 25 0.447087 0.31 0.31 0 0
19 0 1.0 0 0.00 0.0 0 9.18233e-005 0 0 25 25 0.750706 0.31 0.31 0 0
20 0 1.0 0 0.00 0.0 0 0.000101415 0 0 25 23 0.634852 0.31 0.31 0 0
21 0 1.0 0 0.00 0.0 0 4.51905e-005 0 0 25 25 0.949882 0.21 0.21 0 0
22 0 1.0 0 0.00 0.0 0 4.50405e-005 0 0 25 25 0.798611 0.21 0.21 0 0
23 0 1.0 0 0.00 0.0 0 0.000129624 0 0 25 24 1.3806 0.21 0.21 0 0
24 0 1.0 0 0.00 0.0 0 0.000762365 0 0 25 24 0.843931 0.21 0.21 0 0
25 0 1.0 0 0.00 0.0 0 1.91489e-005 0 0 25 23 0.776215 0.4 0.4 0 0
26 0 1.0 0 0.00 0.0 0 1.94099e-005 0 0 25 23 0.751543 0.4 0.4 0 0
27 0 1.0 0 0.00 0.0 0 3.3982e-005 0 0 25 22 0.779091 0.4 0.4 0 0
28 0 1.0 0 0.00 0.0 0 4.8757e-005 0 0 25 22 0.723892 0.4 0.4 0 0
29 0 1.0 0 0.00 0.0 0 0.000118143 0 0 25 22 0.539206 0.4 0.4 0 0
30 0 1.0 0 0.00 0.0 0 0.000104706 0 0 25 22 0.450363 0.4 0.4 0 0
31 0 1.0 0 0.00 0.0 0 8.15984e-005 0 0 25 22 0.781246 0.4 0.4 0 0
32 0 1.0 0 0.00 0.0 0 0.000118627 0 0 25 25 0.727804 0.4 0.4 0 0
33 0 1.0 0 0.00 0.0 0 9.96826e-005 0 0 25 20 0.848556 0.4 0.4 0 0
34 0 1.0 0 0.00 0.0 0 1.20886e-005 0 0 25 17 0.887564 0.4 0.4 0 0
35 0 1.0 0 0.00 0.0 0 1.96985e-005 0 0 25 17 0.89471 0.4 0.4 0 0
36 0 1.0 0 0.00 0.0 0 0.000183527 0 0 25 19 0.644042 0.4 0.4 0 0
37 0 1.0 0 0.00 0.0 0 7.58042e-005 0 0 25 19 1.00817 0.4 0.4 0 0
38 0 1.0 0 0.00 0.0 0 4.52769e-005 0 0 25 16 0.850349 0.4 0.4 0 0
39 0 1.0 0 0.00 0.0 0 6.54363e-005 0 0 25 15 0.794374 0.4 0.4 0 0
40 0 1.0 0 0.00 0.0 0 2.10772e-006 0 0 25 19 0.9498 0.4 0.4 0 0
41 0 1.0 0 0.00 0.0 0 3.29307e-005 0 0 25 25 0.565655 0.4 0.4 0 0
42 0 1.0 0 0.00 0.0 0 4.53013e-005 0 0 25 19 0.624686 0.4 0.4 0 0
43 0 1.0 0 0.00 0.0 0 0.000278888 0 0 25 25 0.590551 0.4 0.4 0 0
44 0 1.0 0 0.00 0.0 0 6.30965e-006 0 0 25 21 0.867523 0.4 0.4 0 0
45 0 1.0 0 0.00 0.0 0 1.85661e-005 0 0 25 15 1.16869 0.4 0.4 0 0

```

rmse_Qdev_not_in_logL
pen_mean_Qdev_not_in_logL_in_randwalk_approach

INDEX_3

Index Q_parm_assignments

```

1 0 -- 0 -- 0 0
2 0 -- 0 -- 0 0
3 0 -- 0 -- 0 0
4 0 -- 0 -- 0 0
5 0 -- 0 -- 0 0
6 0 -- 0 -- 0 0
7 0 -- 0 -- 0 0

```

```

8 0 -- 0 -- 0 0
9 0 -- 0 -- 0 0
10 0 -- 0 -- 0 0
11 0 -- 0 -- 0 0
12 0 -- 0 -- 0 0
13 0 -- 0 -- 0 0
14 0 -- 0 -- 0 0
15 0 -- 0 -- 0 0
16 0 -- 0 -- 0 0
17 0 -- 0 -- 0 0
18 0 -- 0 -- 0 0
19 0 -- 0 -- 0 0
20 0 -- 0 -- 0 0
21 0 -- 0 -- 0 0
22 0 -- 0 -- 0 0
23 0 -- 0 -- 0 0
24 0 -- 0 -- 0 0
25 0 -- 0 -- 0 0
26 0 -- 0 -- 0 0
27 0 -- 0 -- 0 0
28 0 -- 0 -- 0 0
29 0 -- 0 -- 0 0
30 0 -- 0 -- 0 0
31 0 -- 0 -- 0 0
32 0 -- 0 -- 0 0
33 0 -- 0 -- 0 0
34 0 -- 0 -- 0 0
35 0 -- 0 -- 0 0
36 0 -- 0 -- 0 0
37 0 -- 0 -- 0 0
38 0 -- 0 -- 0 0
39 0 -- 0 -- 0 0
40 0 -- 0 -- 0 0
41 0 -- 0 -- 0 0
42 0 -- 0 -- 0 0
43 0 -- 0 -- 0 0
44 0 -- 0 -- 0 0
45 0 -- 0 -- 0 0

```

```

DISCARD log(L)_based_on_T-distribution_with_DF=_30
as_fraction
index year seas obs exp cv Dev Like Like+log(s)

```

```

MEAN_BODY_WT log(L)_based_on_T-distribution_with_DF=_30
year seas index Mkt obs exp cv Dev Like Like+log(s)
1982 1 1 0 0.504 0.668148 0.1 -0.164148 4.69267 4.69267
1983 1 1 0 0.521 0.626652 0.1 -0.105652 1.99113 1.99113
1984 1 1 0 0.518 0.628874 0.1 -0.110874 2.20286 2.20286
1985 1 1 0 0.575 0.660544 0.1 -0.0855437 1.10332 1.10332
1986 1 1 0 0.613 0.620202 0.1 -0.007202 0.0071301 0.0071301
1987 1 1 0 0.581 0.615069 0.1 -0.0340691 0.176646 0.176646
1988 1 1 0 0.588 0.66533 0.1 -0.0773298 0.868804 0.868804
1989 1 1 0 0.668 0.734795 0.1 -0.0667948 0.508164 0.508164
1990 1 1 0 0.54 0.622326 0.1 -0.0823259 1.15662 1.15662
1991 1 1 0 0.537 0.618015 0.1 -0.0810151 1.13349 1.13349
1992 1 1 0 0.595 0.629482 0.1 -0.0344819 0.17256 0.17256

```

1993	1	1	0	0.571	0.612088	0.1	-0.0410875	0.265239	0.265239
1994	1	1	0	0.605	0.641615	0.1	-0.0366146	0.188092	0.188092
1995	1	1	0	0.675	0.778673	0.1	-0.103673	1.17327	1.17327
1996	1	1	0	0.621	0.788782	0.1	-0.167782	3.37572	3.37572
1997	1	1	0	0.697	0.866739	0.1	-0.169739	2.79607	2.79607
1998	1	1	0	0.759	0.959393	0.1	-0.200393	3.23841	3.23841
1999	1	1	0	0.755	1.00132	0.1	-0.246317	4.70655	4.70655
2000	1	1	0	0.85	1.0595	0.1	-0.209497	2.85806	2.85806
2001	1	1	0	0.903	1.11397	0.1	-0.21097	2.59103	2.59103
2002	1	1	0	0.898	1.12294	0.1	-0.224944	2.94383	2.94383
2003	1	1	0	0.999	1.14422	0.1	-0.145224	1.0551	1.0551
2004	1	1	0	0.983	1.17684	0.1	-0.193843	1.88916	1.88916
2005	1	1	0	0.949	1.23621	0.1	-0.28721	4.12987	4.12987
2006	1	1	0	0.947	1.25562	0.1	-0.308624	4.69781	4.69781

FIT_LEN_COMPS

Index Year Seas Gender Mkt Nsamp effN Like

index N Npos mean_effN mean(inputN) HarMean(effN) Mean(effN/inputN)

MeaneffN/MeaninputN

1	0	0	0	0	0	0	-1.	#IND
2	0	0	0	0	0	0	-1.	#IND
3	0	0	0	0	0	0	-1.	#IND
4	0	0	0	0	0	0	-1.	#IND
5	0	0	0	0	0	0	-1.	#IND
6	0	0	0	0	0	0	-1.	#IND
7	0	0	0	0	0	0	-1.	#IND
8	0	0	0	0	0	0	-1.	#IND
9	0	0	0	0	0	0	-1.	#IND
10	0	0	0	0	0	0	-1.	#IND
11	0	0	0	0	0	0	-1.	#IND
12	0	0	0	0	0	0	-1.	#IND
13	0	0	0	0	0	0	-1.	#IND
14	0	0	0	0	0	0	-1.	#IND
15	0	0	0	0	0	0	-1.	#IND
16	0	0	0	0	0	0	-1.	#IND
17	0	0	0	0	0	0	-1.	#IND
18	0	0	0	0	0	0	-1.	#IND
19	0	0	0	0	0	0	-1.	#IND
20	0	0	0	0	0	0	-1.	#IND
21	0	0	0	0	0	0	-1.	#IND
22	0	0	0	0	0	0	-1.	#IND
23	0	0	0	0	0	0	-1.	#IND
24	0	0	0	0	0	0	-1.	#IND
25	0	0	0	0	0	0	-1.	#IND
26	0	0	0	0	0	0	-1.	#IND
27	0	0	0	0	0	0	-1.	#IND
28	0	0	0	0	0	0	-1.	#IND
29	0	0	0	0	0	0	-1.	#IND
30	0	0	0	0	0	0	-1.	#IND
31	0	0	0	0	0	0	-1.	#IND
32	0	0	0	0	0	0	-1.	#IND
33	0	0	0	0	0	0	-1.	#IND
34	0	0	0	0	0	0	-1.	#IND
35	0	0	0	0	0	0	-1.	#IND
36	0	0	0	0	0	0	-1.	#IND
37	0	0	0	0	0	0	-1.	#IND

38 0 0 0 0 0 0 -1.#IND
 39 0 0 0 0 0 0 -1.#IND
 40 0 0 0 0 0 0 -1.#IND
 41 0 0 0 0 0 0 -1.#IND
 42 0 0 0 0 0 0 -1.#IND
 43 0 0 0 0 0 0 -1.#IND
 44 0 0 0 0 0 0 -1.#IND
 45 0 0 0 0 0 0 -1.#IND

FIT_AGE_COMPS

Index	Year	Seas	Gender	Mkt	Ageerr	Lbin_lo	Lbin_hi	Nsamp	effN	Like
1	1982	1	0	0	1	70	200	85.5962	14.025	
1	1983	1	0	0	1	70	200	26.1453	13.0996	
1	1984	1	0	0	1	70	200	133.911	5.50875	
1	1985	1	0	0	1	70	200	33.9569	6.19296	
1	1986	1	0	0	1	70	200	25.6884	11.1813	
1	1987	1	0	0	1	70	200	64.0426	4.45075	
1	1988	1	0	0	1	70	200	391.169	1.00861	
1	1989	1	0	0	1	70	200	188.124	5.60619	
1	1990	1	0	0	1	70	200	5499.35	0.299641	
1	1991	1	0	0	1	70	200	37.2816	4.88925	
1	1992	1	0	0	1	70	200	51.0219	9.6492	
1	1993	1	0	0	1	70	200	113.471	7.3935	
1	1994	1	0	0	1	70	200	75.8358	5.48157	
1	1995	1	0	0	1	70	200	33.9511	14.275	
1	1996	1	0	0	1	70	200	178.242	1.7418	
1	1997	1	0	0	1	70	200	32.2032	13.0573	
1	1998	1	0	0	1	70	200	19.8389	16.8555	
1	1999	1	0	0	1	70	200	21.028	18.9475	
1	2000	1	0	0	1	70	200	262.942	3.29927	
1	2001	1	0	0	1	70	200	67.0289	7.62395	
1	2002	1	0	0	1	70	200	44.392	9.70218	
1	2003	1	0	0	1	70	200	504.291	0.654478	
1	2004	1	0	0	1	70	200	523.512	1.22491	
1	2005	1	0	0	1	70	200	52.7312	11.973	
1	2006	1	0	0	1	70	200	111.249	5.66215	
2	1982	1	0	0	1	70	200	3.2155	87.9874	
2	1983	1	0	0	1	70	200	7.69229	28.6859	
2	1984	1	0	0	1	70	200	16.8473	18.5468	
2	1985	1	0	0	1	70	200	24.9299	12.3543	
2	1986	1	0	0	1	70	200	44.6751	7.17721	
2	1987	1	0	0	1	70	200	11.4841	16.7364	
2	1988	1	0	0	1	70	200	11.1	16.6407	
2	1989	1	0	0	1	70	200	15.0216	43.1886	
2	1990	1	0	0	1	70	200	4.39189	65.5082	
2	1991	1	0	0	1	70	200	5.1863	43.9718	
2	1992	1	0	0	1	70	200	2.73009	120.515	
2	1993	1	0	0	1	70	200	11.7554	13.1534	
2	1994	1	0	0	1	70	200	8.98554	38.1626	
2	1995	1	0	0	1	70	200	18.6101	28.6916	
2	1996	1	0	0	1	70	200	116.196	5.05878	
2	1997	1	0	0	1	70	200	69.6961	9.96949	
2	1998	1	0	0	1	70	200	3.33437	101.297	
2	1999	1	0	0	1	70	200	109.153	5.6251	
2	2000	1	0	0	1	70	200	21.3498	12.6869	
2	2001	1	0	0	1	70	200	137.66	3.98905	
2	2002	1	0	0	1	70	200	31.1826	13.3849	

2	2003	1	0	0	1	1	70	200	47.7808	9.43524
2	2004	1	0	0	1	1	70	200	203.914	5.95839
2	2005	1	0	0	1	1	70	200	143.113	8.73135
2	2006	1	0	0	1	1	70	200	102.072	5.38706
3	1989	1	0	0	1	1	70	200	3.39032	67.923
3	1990	1	0	0	1	1	70	200	19.879	18.2939
3	1991	1	0	0	1	1	70	200	23.7236	4.52891
3	1992	1	0	0	1	1	70	200	20.9349	26.9069
3	1993	1	0	0	1	1	70	200	62.9937	10.1992
3	1994	1	0	0	1	1	70	200	20.5232	16.1428
3	1995	1	0	0	1	1	70	200	8.50147	45.4147
3	1996	1	0	0	1	1	70	200	26.666	7.16717
3	1997	1	0	0	1	1	70	200	56.2516	6.40447
3	1998	1	0	0	1	1	70	200	221.885	1.05238
3	1999	1	0	0	1	1	70	200	27.3615	10.8778
3	2000	1	0	0	1	1	70	200	20.7523	13.7644
3	2001	1	0	0	1	1	70	200	19.7941	11.1505
3	2002	1	0	0	1	1	70	200	181.804	1.57122
3	2003	1	0	0	1	1	70	200	27.8547	17.5728
3	2004	1	0	0	1	1	70	200	71.6639	12.3121
3	2005	1	0	0	1	1	70	200	66.1211	11.051
3	2006	1	0	0	1	1	70	200	180.984	4.06168
4	1994	1	0	0	1	1	70	200	638.475	1.1315
4	1995	1	0	0	1	1	70	200	77.7338	1.76882
4	1996	1	0	0	1	1	70	200	2.84552	50.0014
4	1997	1	0	0	1	1	70	200	297.865	0.505193
4	1998	1	0	0	1	1	70	200	258.661	1.23921
4	1999	1	0	0	1	1	70	200	29.6692	9.72657
4	2000	1	0	0	1	1	70	200	65.9083	3.89138
4	2001	1	0	0	1	1	70	200	3.84953	50.1485
4	2002	1	0	0	1	1	70	200	202.23	1.55839
4	2003	1	0	0	1	1	70	200	15.7215	21.5337
4	2004	1	0	0	1	1	70	200	34.2735	6.79522
4	2005	1	0	0	1	1	70	200	15.8739	18.714
4	2006	1	0	0	1	1	70	200	30.2853	8.18038
5	1982	1	0	0	1	1	70	200	48.3589	9.62965
5	1983	1	0	0	1	1	70	200	250.157	3.62324
5	1984	1	0	0	1	1	70	200	46.83	7.80377
5	1985	1	0	0	1	1	70	200	116.517	2.23335
5	1986	1	0	0	1	1	70	200	149.92	2.88078
5	1987	1	0	0	1	1	70	200	330.738	3.10571
5	1988	1	0	0	1	1	70	200	666.122	1.56134
5	1989	1	0	0	1	1	70	200	45.2825	7.95809
5	1990	1	0	0	1	1	70	200	44.1238	6.8415
5	1991	1	0	0	1	1	70	200	35.7258	14.1112
5	1992	1	0	0	1	1	70	200	34.4845	17.0771
5	1993	1	0	0	1	1	70	200	27.7446	17.8874
5	1994	1	0	0	1	1	70	200	99.9562	4.46895
5	1995	1	0	0	1	1	70	200	15.9265	23.2424
5	1996	1	0	0	1	1	70	200	17.1425	15.3602
5	1997	1	0	0	1	1	70	200	689.564	4.04878
5	1998	1	0	0	1	1	70	200	151.818	2.29388
5	1999	1	0	0	1	1	70	200	32.2345	13.7254
5	2000	1	0	0	1	1	70	200	48.5339	7.31867
5	2001	1	0	0	1	1	70	200	165.315	5.62052
5	2002	1	0	0	1	1	70	200	42.7792	14.0773
5	2003	1	0	0	1	1	70	200	61.7343	10.3821

5 2004 1 0 0 1 1 70 200 83.745 5.19756
 5 2005 1 0 0 1 1 70 200 125.907 5.95796
 5 2006 1 0 0 1 1 70 200 91.1327 6.79342
 6 1982 1 0 0 1 1 70 200 16.2957 5.28759
 6 1983 1 0 0 1 1 70 200 121.317 0.774207
 6 1984 1 0 0 1 1 70 200 9.59361 8.15871
 6 1985 1 0 0 1 1 70 200 57.4429 1.58826
 6 1986 1 0 0 1 1 70 200 283.219 0.369361
 6 1987 1 0 0 1 1 70 200 2393.54 0.0419934
 6 1988 1 0 0 1 1 70 200 24.1662 3.21648
 6 1989 1 0 0 1 1 70 200 712.881 0.143492
 6 1990 1 0 0 1 1 70 200 121.993 0.87565
 6 1991 1 0 0 1 1 70 200 13.0387 10.8678
 6 1992 1 0 0 1 1 70 200 9.09792 15.8942
 6 1993 1 0 0 1 1 70 200 11.1399 13.218
 6 1994 1 0 0 1 1 70 200 17.8505 4.7398
 6 1995 1 0 0 1 1 70 200 247.644 0.384823
 6 1996 1 0 0 1 1 70 200 65.1631 1.81403
 6 1997 1 0 0 1 1 70 200 16.999 20.0448
 6 1998 1 0 0 1 1 70 200 10.7803 15.2979
 6 1999 1 0 0 1 1 70 200 11.639 15.3547
 6 2000 1 0 0 1 1 70 200 11.5304 14.068
 6 2001 1 0 0 1 1 70 200 92.9386 3.5525
 6 2002 1 0 0 1 1 70 200 376.639 0.885492
 6 2003 1 0 0 1 1 70 200 166.154 2.43347
 6 2004 1 0 0 1 1 70 200 207.175 2.16058
 6 2005 1 0 0 1 1 70 200 28.541 22.5628
 6 2006 1 0 0 1 1 70 200 57.4543 14.5728

index N Npos mean_effN mean(inputN) HarMean(effN) Mean(effN/inputN)
 MeaneffN/MeaninputN

1 0 25 343.08 200 54.9403 1.7154 1.7154
 2 0 25 46.883 200 10.8494 0.234415 0.234415
 3 0 18 58.9492 200 20.2599 0.294746 0.294746
 4 0 13 128.722 200 14.849 0.643612 0.643612
 5 0 25 136.872 200 53.0946 0.684359 0.684359
 6 0 25 203.369 200 25.0275 1.01685 1.01685
 7 0 0 0 0 0 0 -1.#IND
 8 0 0 0 0 0 0 -1.#IND
 9 0 0 0 0 0 0 -1.#IND
 10 0 0 0 0 0 0 -1.#IND
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1 1994 1 1994-1 0.021663 0.399745 0.999448 0.999976 0.99997 0.99973 0.999242
0.998508 0.997528 0.996303 0.994834 0.993122 0.991168 0.988974 0.986541
0.983872
1 1995 1 1995-1 0.00253893 0.102677 0.720443 0.999541 0.999993 0.999909
0.999575 0.998994 0.998168 0.997095 0.995778 0.994218 0.992414 0.99037
0.988086 0.985564
1 2006 1 2006-1 0.00253893 0.102677 0.720443 0.999541 0.999993 0.999909
0.999575 0.998994 0.998168 0.997095 0.995778 0.994218 0.992414 0.99037
0.988086 0.985564
1 2007 1 2007-1 0.00253893 0.102677 0.720443 0.999541 0.999993 0.999909
0.999575 0.998994 0.998168 0.997095 0.995778 0.994218 0.992414 0.99037
0.988086 0.985564
2 1982 1 1982-2 0.00985151 0.145692 0.675532 0.999153 0.999989 0.999946
0.999662 0.999131 0.998353 0.99733 0.996062 0.99455 0.992795 0.990799
0.988563 0.986088
2 1994 1 1994-2 0.00985151 0.145692 0.675532 0.999153 0.999989 0.999946
0.999662 0.999131 0.998353 0.99733 0.996062 0.99455 0.992795 0.990799
0.988563 0.986088
2 1995 1 1995-2 0.00106144 0.0394312 0.383279 0.9755 0.999953 0.999987
0.999791 0.999348 0.998658 0.997722 0.996541 0.995116 0.993447 0.991537
0.989386 0.986996
2 2006 1 2006-2 0.00106144 0.0394312 0.383279 0.9755 0.999953 0.999987
0.999791 0.999348 0.998658 0.997722 0.996541 0.995116 0.993447 0.991537
0.989386 0.986996
2 2007 1 2007-2 0.00106144 0.0394312 0.383279 0.9755 0.999953 0.999987
0.999791 0.999348 0.998658 0.997722 0.996541 0.995116 0.993447 0.991537
0.989386 0.986996
3 1982 1 1982-3 0.347973 0.999523 0.999966 0.999996 0.999997 0.999998
0.999998 0.999998 0.999998 0.999998 0.999997 0.999996 0.999991 0.999959
0.997971 0.000471197
3 1994 1 1994-3 0.347973 0.999523 0.999966 0.999996 0.999997 0.999998
0.999998 0.999998 0.999998 0.999998 0.999997 0.999996 0.999991 0.999959
0.997971 0.000471197
3 1995 1 1995-3 0.0618538 0.568734 0.998788 0.999986 0.999999 1 1 1 1 1 1 1 1
1 1 0.999769
3 2006 1 2006-3 0.0618538 0.568734 0.998788 0.999986 0.999999 1 1 1 1 1 1 1 1
1 1 0.999769
3 2007 1 2007-3 0.0618538 0.568734 0.998788 0.999986 0.999999 1 1 1 1 1 1 1 1
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4 1982 1 1982-4 0.034365 0.497215 0.998452 0.97541 0.258896 0.00935664
9.09988e-005 4.55558e-005 4.54797e-005 4.54604e-005 4.54507e-005 4.5445e-005
4.54415e-005 4.54391e-005 4.54374e-005 4.54362e-005
4 1994 1 1994-4 0.034365 0.497215 0.998452 0.97541 0.258896 0.00935664
9.09988e-005 4.55558e-005 4.54797e-005 4.54604e-005 4.54507e-005 4.5445e-005
4.54415e-005 4.54391e-005 4.54374e-005 4.54362e-005
4 1995 1 1995-4 0.0107409 0.279376 0.984951 0.999189 0.735157 0.515702
0.500663 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531
0.500531 0.500531
4 2006 1 2006-4 0.0107409 0.279376 0.984951 0.999189 0.735157 0.515702
0.500663 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531
0.500531 0.500531
4 2007 1 2007-4 0.0107409 0.279376 0.984951 0.999189 0.735157 0.515702
0.500663 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531
0.500531 0.500531
5 1982 1 1982-5 0.0505048 0.588763 0.999024 0.999989 0.999939 0.999644
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0.985978 0.983256

5 1994 1 1994-5 0.0505048 0.588763 0.999024 0.999989 0.999939 0.999644
0.999103 0.998314 0.997281 0.996002 0.99448 0.992715 0.990709 0.988462
0.985978 0.983256
5 1995 1 1995-5 0.00600833 0.112092 0.615127 0.999111 0.999986 0.999956
0.999688 0.999173 0.998412 0.997404 0.996152 0.994656 0.992918 0.990937
0.988717 0.986258
5 2006 1 2006-5 0.00600833 0.112092 0.615127 0.999111 0.999986 0.999956
0.999688 0.999173 0.998412 0.997404 0.996152 0.994656 0.992918 0.990937
0.988717 0.986258
5 2007 1 2007-5 0.00600833 0.112092 0.615127 0.999111 0.999986 0.999956
0.999688 0.999173 0.998412 0.997404 0.996152 0.994656 0.992918 0.990937
0.988717 0.986258
6 1982 1 1982-6 0.0759641 0.69325 0.999338 0.857383 0.14368 0.00330444
5.56366e-005 4.55259e-005 4.54848e-005 4.54685e-005 4.546e-005 4.5455e-005
4.54518e-005 4.54496e-005 4.5448e-005 4.54469e-005
6 1994 1 1994-6 0.0759641 0.69325 0.999338 0.857383 0.14368 0.00330444
5.56366e-005 4.55259e-005 4.54848e-005 4.54685e-005 4.546e-005 4.5455e-005
4.54518e-005 4.54496e-005 4.5448e-005 4.54469e-005
6 1995 1 1995-6 0.0884999 0.733326 0.999411 0.823981 0.128032 0.00573296
0.00316778 0.00316051 0.00316047 0.00316046 0.00316045 0.00316044 0.00316044
0.00316044 0.00316044 0.00316043
6 2006 1 2006-6 0.0884999 0.733326 0.999411 0.823981 0.128032 0.00573296
0.00316778 0.00316051 0.00316047 0.00316046 0.00316045 0.00316044 0.00316044
0.00316044 0.00316044 0.00316043
6 2007 1 2007-6 0.0884999 0.733326 0.999411 0.823981 0.128032 0.00573296
0.00316778 0.00316051 0.00316047 0.00316046 0.00316045 0.00316044 0.00316044
0.00316044 0.00316044 0.00316043
7 1982 1 1982-7 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
7 2006 1 2006-7 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8 1982 1 1982-8 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8 2006 1 2006-8 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
9 1982 1 1982-9 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
9 2006 1 2006-9 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
10 1982 1 1982-10 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
10 2006 1 2006-10 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
11 1982 1 1982-11 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
11 2006 1 2006-11 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
12 1982 1 1982-12 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
12 2006 1 2006-12 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
13 1982 1 1982-13 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
13 2006 1 2006-13 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
14 1982 1 1982-14 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
14 2006 1 2006-14 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
15 1982 1 1982-15 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
15 2006 1 2006-15 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
16 1982 1 1982-16 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
16 2006 1 2006-16 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
17 1982 1 1982-17 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
17 2006 1 2006-17 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
18 1982 1 1982-18 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
18 2006 1 2006-18 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
19 1982 1 1982-19 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
19 2006 1 2006-19 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
20 1982 1 1982-20 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
20 2006 1 2006-20 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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21 2006 1 2006-21 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

7 2006 1
 8 2006 1
 9 2006 1
 10 2006 1
 11 2006 1
 12 2006 1
 13 2006 1
 14 2006 1
 15 2006 1
 16 2006 1
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 19 2006 1
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 23 2006 1
 24 2006 1
 25 2006 1
 26 2006 1
 27 2006 1
 28 2006 1
 29 2006 1
 30 2006 1
 31 2006 1
 32 2006 1
 33 2006 1
 34 2006 1
 35 2006 1
 36 2006 1
 37 2006 1
 38 2006 1
 39 2006 1
 40 2006 1
 41 2006 1
 42 2006 1
 43 2006 1
 44 2006 1
 45 2006 1

AGE_SELEX_mortality_in_endyear

fleet year morph season label 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 1 2006 1 1 sel*wt 0.000454671 0.0457677 0.581737 1.22398 1.6606 2.08797
 2.48737 2.84598 3.15601 3.41517 3.62609 3.79437 3.92666 4.02941 4.10827
 4.16792
 1 2006 1 1 sel*ret*wt 0.000454671 0.0457677 0.581737 1.22398 1.6606 2.08797
 2.48737 2.84598 3.15601 3.41517 3.62609 3.79437 3.92666 4.02941 4.10827
 4.16792
 1 2006 1 1 sel_nums 0.00253893 0.102677 0.720443 0.999541 0.999993 0.999909
 0.999575 0.998994 0.998168 0.997095 0.995778 0.994218 0.992414 0.99037
 0.988086 0.985564
 1 2006 1 1 sel*ret_nums 0.00253893 0.102677 0.720443 0.999541 0.999993
 0.999909 0.999575 0.998994 0.998168 0.997095 0.995778 0.994218 0.992414
 0.99037 0.988086 0.985564
 1 2006 1 1 dead_nums 0.00253893 0.102677 0.720443 0.999541 0.999993 0.999909
 0.999575 0.998994 0.998168 0.997095 0.995778 0.994218 0.992414 0.99037
 0.988086 0.985564

1 2006 1 1 dead*wt 0.000454671 0.0457677 0.581737 1.22398 1.6606 2.08797
2.48737 2.84598 3.15601 3.41517 3.62609 3.79437 3.92666 4.02941 4.10827
4.16792
2 2006 1 1 sel*wt 0.000190083 0.0175762 0.309487 1.19454 1.66053 2.08813
2.48791 2.84698 3.15756 3.41732 3.62887 3.79779 3.93075 4.03416 4.11368
4.17397
2 2006 1 1 sel*ret*wt 0.000190083 0.0175762 0.309487 1.19454 1.66053 2.08813
2.48791 2.84698 3.15756 3.41732 3.62887 3.79779 3.93075 4.03416 4.11368
4.17397
2 2006 1 1 sel_nums 0.00106144 0.0394312 0.383279 0.9755 0.999953 0.999987
0.999791 0.999348 0.998658 0.997722 0.996541 0.995116 0.993447 0.991537
0.989386 0.986996
2 2006 1 1 sel*ret_nums 0.00106144 0.0394312 0.383279 0.9755 0.999953
0.999987 0.999791 0.999348 0.998658 0.997722 0.996541 0.995116 0.993447
0.991537 0.989386 0.986996
2 2006 1 1 dead_nums 0.00106144 0.0394312 0.383279 0.9755 0.999953 0.999987
0.999791 0.999348 0.998658 0.997722 0.996541 0.995116 0.993447 0.991537
0.989386 0.986996
2 2006 1 1 dead*wt 0.000190083 0.0175762 0.309487 1.19454 1.66053 2.08813
2.48791 2.84698 3.15756 3.41732 3.62887 3.79779 3.93075 4.03416 4.11368
4.17397
3 2006 1 1 sel*wt 0.0110768 0.253509 0.806493 1.22452 1.66061 2.08816
2.48843 2.84884 3.1618 3.42512 3.64146 3.81643 3.95667 4.06859 4.15781
4.22799
3 2006 1 1 sel*ret*wt 0.0110768 0.253509 0.806493 1.22452 1.66061 2.08816
2.48843 2.84884 3.1618 3.42512 3.64146 3.81643 3.95667 4.06859 4.15781
4.22799
3 2006 1 1 sel_nums 0.0618538 0.568734 0.998788 0.999986 0.999999 1 1 1 1 1
1 1 1 1 1 0.999769
3 2006 1 1 sel*ret_nums 0.0618538 0.568734 0.998788 0.999986 0.999999 1 1 1
1 1 1 1 1 1 0.999769
3 2006 1 1 dead_nums 0.0618538 0.568734 0.998788 0.999986 0.999999 1 1 1 1 1
1 1 1 1 1 0.999769
3 2006 1 1 dead*wt 0.0110768 0.253509 0.806493 1.22452 1.66061 2.08816
2.48843 2.84884 3.1618 3.42512 3.64146 3.81643 3.95667 4.06859 4.15781
4.22799
4 2006 1 1 sel*wt 0.00192348 0.12453 0.79532 1.22355 1.22081 1.07687 1.24587
1.42593 1.58258 1.71438 1.82266 1.91024 1.98044 2.03646 2.08111 2.11673
4 2006 1 1 sel*ret*wt 0.00192348 0.12453 0.79532 1.22355 1.22081 1.07687
1.24587 1.42593 1.58258 1.71438 1.82266 1.91024 1.98044 2.03646 2.08111
2.11673
4 2006 1 1 sel_nums 0.0107409 0.279376 0.984951 0.999189 0.735157 0.515702
0.500663 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531
0.500531 0.500531
4 2006 1 1 sel*ret_nums 0.0107409 0.279376 0.984951 0.999189 0.735157
0.515702 0.500663 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531
0.500531 0.500531
4 2006 1 1 dead_nums 0.0107409 0.279376 0.984951 0.999189 0.735157 0.515702
0.500663 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531
0.500531 0.500531
4 2006 1 1 dead*wt 0.00192348 0.12453 0.79532 1.22355 1.22081 1.07687
1.24587 1.42593 1.58258 1.71438 1.82266 1.91024 1.98044 2.03646 2.08111
2.11673
5 2006 1 1 sel*wt 0.00107597 0.0499642 0.496698 1.22345 1.66058 2.08807
2.48765 2.84649 3.15678 3.41623 3.62745 3.79604 3.92865 4.03172 4.11089
4.17085

5 2006 1 1 sel*ret*wt 0.00107597 0.0499642 0.496698 1.22345 1.66058 2.08807
2.48765 2.84649 3.15678 3.41623 3.62745 3.79604 3.92865 4.03172 4.11089
4.17085
5 2006 1 1 sel_nums 0.00600833 0.112092 0.615127 0.999111 0.999986 0.999956
0.999688 0.999173 0.998412 0.997404 0.996152 0.994656 0.992918 0.990937
0.988717 0.986258
5 2006 1 1 sel*ret_nums 0.00600833 0.112092 0.615127 0.999111 0.999986
0.999956 0.999688 0.999173 0.998412 0.997404 0.996152 0.994656 0.992918
0.990937 0.988717 0.986258
5 2006 1 1 dead_nums 0.00600833 0.112092 0.615127 0.999111 0.999986 0.999956
0.999688 0.999173 0.998412 0.997404 0.996152 0.994656 0.992918 0.990937
0.988717 0.986258
5 2006 1 1 dead*wt 0.00107597 0.0499642 0.496698 1.22345 1.66058 2.08807
2.48765 2.84649 3.15678 3.41623 3.62745 3.79604 3.92865 4.03172 4.11089
4.17085
6 2006 1 1 sel*wt 0.0158485 0.326875 0.806996 1.009 0.212611 0.0119713
0.0078828 0.00900379 0.00999278 0.0108249 0.0115086 0.0120616 0.0125048
0.0128585 0.0131405 0.0133654
6 2006 1 1 sel*ret*wt 0.0158485 0.326875 0.806996 1.009 0.212611 0.0119713
0.0078828 0.00900379 0.00999278 0.0108249 0.0115086 0.0120616 0.0125048
0.0128585 0.0131405 0.0133654
6 2006 1 1 sel_nums 0.0884999 0.733326 0.999411 0.823981 0.128032 0.00573296
0.00316778 0.00316051 0.00316047 0.00316046 0.00316045 0.00316044 0.00316044
0.00316044 0.00316044 0.00316043
6 2006 1 1 sel*ret_nums 0.0884999 0.733326 0.999411 0.823981 0.128032
0.00573296 0.00316778 0.00316051 0.00316047 0.00316046 0.00316045 0.00316044
0.00316044 0.00316044 0.00316043
6 2006 1 1 dead_nums 0.0884999 0.733326 0.999411 0.823981 0.128032
0.00573296 0.00316778 0.00316051 0.00316047 0.00316046 0.00316045 0.00316044
0.00316044 0.00316044 0.00316043
6 2006 1 1 dead*wt 0.0158485 0.326875 0.806996 1.009 0.212611 0.0119713
0.0078828 0.00900379 0.00999278 0.0108249 0.0115086 0.0120616 0.0125048
0.0128585 0.0131405 0.0133654

ENVIRONMENTAL_DATA Begins_in_startyr-1

NUMBERS_AT_AGE

Population 1 gmorph 1 gender: 1 GrowPattern: 1 birthseason: 1
Year Per Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1980 VIRG 1 59911.2 49051.1 40159.7 32879.9 26919.8 22040.1 18044.9 14773.9
12095.9 9903.25 8108.09 6638.35 5435.02 4449.82 3643.2 16421.7
1981 INIT 1 37379.9 29774.9 14685 3385.93 780.172 179.765 41.4336 9.55585
2.20592 0.509859 0.118028 0.0273734 0.00636232 0.00148244 0.000346376
0.000106143
1982 TIME 1 47391.2 29774.9 14685 3385.93 780.172 179.765 41.4336 9.55585
2.20592 0.509859 0.118028 0.0273734 0.00636232 0.00148244 0.000346376
0.000106143
1983 TIME 1 56997.8 37028.8 12864.2 2906.03 600.461 140.358 32.4448 7.48385
1.72785 0.399442 0.0924915 0.0214578 0.00498926 0.00116302 0.000271879
8.33728e-005
1984 TIME 1 39199.6 45427.8 19555.4 3294.06 658.095 138.172 32.4092 7.49623
1.73059 0.400021 0.0926128 0.021483 0.00499444 0.00116407 0.000272087
8.34256e-005
1985 TIME 1 47705.8 30632.9 19150.8 3211.37 448.502 90.9878 19.1695 4.50013
1.04214 0.240986 0.0558192 0.0129558 0.00301417 0.000703115 0.000164502
5.05077e-005

1986 TIME 1 50405.6 37501 13693.6 3588.64 520.949 73.0265 14.8315 3.12703
 0.734903 0.170446 0.0394894 0.00916796 0.00213365 0.000497928 0.000116556
 3.58158e-005
 1987 TIME 1 35763.9 39105.7 14476.6 2071.15 484.227 72.2723 10.1911 2.07174
 0.437349 0.102958 0.0239298 0.00555834 0.0012943 0.000302251 7.08074e-005
 2.17844e-005
 1988 TIME 1 10933.3 28102.3 17615.8 2945.75 382.75 91.6098 13.7412 1.93914
 0.394613 0.0834193 0.0196724 0.00458195 0.0010669 0.000249133 5.83632e-005
 1.79582e-005
 1989 TIME 1 23928.4 8463.62 10163.9 2138.1 310.943 41.165 9.89392 1.48556
 0.20994 0.0428049 0.0090707 0.00214535 0.000501385 0.000117202 2.74885e-005
 8.47283e-006
 1990 TIME 1 29096.3 18452.8 3755.51 1956.11 361.099 52.7328 6.98935 1.68102
 0.252662 0.0357563 0.00730328 0.00155092 0.000367732 8.61878e-005 2.0212e-005
 6.34466e-006
 1991 TIME 1 26507 22155 8491.22 930.556 436.938 82.5632 12.1159 1.60688
 0.386782 0.0581976 0.00824729 0.0016873 0.000359009 8.53115e-005 2.0045e-005
 6.37715e-006
 1992 TIME 1 32693.2 20208.9 9299.95 1672.27 163.858 79.6382 15.1559 2.22586
 0.295496 0.0712218 0.0107345 0.00152428 0.000312589 6.66902e-005 1.5896e-005
 5.05009e-006
 1993 TIME 1 30696.7 25126.3 8225.58 1638.88 272.141 27.4072 13.3975 2.55181
 0.375178 0.0498801 0.0120444 0.00181935 0.000259013 5.32737e-005 1.14036e-005
 3.6482e-006
 1994 TIME 1 28514.4 23534.2 10683.3 1728.08 318.144 56.4245 5.75841 2.81742
 0.537127 0.0790686 0.0105286 0.00254709 0.000385588 5.50323e-005 1.1351e-005
 3.26945e-006
 1995 TIME 1 32953.6 22150.4 10504.7 2353.02 349.054 69.7074 12.636 1.29119
 0.632305 0.120691 0.0177934 0.00237365 0.00057546 8.7328e-005 1.24979e-005
 3.35558e-006
 1996 TIME 1 24358.2 26672.9 14786.3 2849.11 324.406 49.8088 10.0666 1.82649
 0.186804 0.0916001 0.0175145 0.00258773 0.000346094 8.41572e-005 1.28147e-005
 2.33735e-006
 1997 TIME 1 26808.5 19737.2 18332.7 4860.88 533.51 62.1125 9.60578 1.9426
 0.352726 0.0361142 0.0177341 0.00339691 0.000502953 6.74335e-005 1.64435e-005
 2.97151e-006
 1998 TIME 1 28696.3 21788.8 14333.2 8255.47 1590.05 177.898 20.8106 3.21969
 0.651429 0.118363 0.0121296 0.00596295 0.0011437 0.000169599 2.27789e-005
 6.5734e-006
 1999 TIME 1 22114.6 23322.2 15918 6802.35 2910.8 574.311 64.652 7.56626
 1.1711 0.23709 0.0431136 0.00442264 0.00217679 0.000418092 6.20972e-005
 1.07709e-005
 2000 TIME 1 27166 17962.7 17198.4 8636.51 3054.62 1340.11 266.507 30.0164
 3.51379 0.544075 0.110206 0.0200534 0.00205869 0.00101418 0.00019499
 3.40295e-005
 2001 TIME 1 27215 22061.3 13163 8807.86 3467.01 1262.69 557.67 110.946 12.5
 1.46401 0.226837 0.0459852 0.00837578 0.000860838 0.000424627 9.60507e-005
 2002 TIME 1 30178.7 22104.7 16320.5 7276.12 4061.36 1667.4 613.141 270.917
 53.9124 6.07655 0.712061 0.110399 0.0223977 0.00408316 0.000420081
 0.000254433
 2003 TIME 1 21051.9 24578.6 16794.4 9596.41 3613.9 2063.25 851.683 313.278
 138.456 27.5625 3.10806 0.36442 0.0565396 0.0114799 0.00209474 0.000346542
 2004 TIME 1 28596.6 17137 18584.9 9761.98 4706.94 1814.09 1040.86 429.768
 158.122 69.9091 13.9235 1.57101 0.184332 0.0286225 0.00581701 0.00123853
 2005 TIME 1 14016.7 23278.6 12956.6 10759.6 4752.01 2355.33 912.983 523.985
 216.407 79.6514 35.2328 7.02145 0.792817 0.0931021 0.0144705 0.0035716

2006 TIME 1 26414.8 11411.5 17653.4 7654.51 5438.5 2470.41 1231.56 477.515
 274.123 113.253 41.7031 18.4572 3.68075 0.41593 0.0488867 0.00948512
 2007 FORE 1 43744.6 21516.7 8733.29 10930.5 4125.69 3003.64 1371.33 683.804
 265.186 152.278 62.9374 23.1866 10.268 2.04902 0.231717 0.032552

CATCH_AT_AGE

fleet 1 fleetarea 1 gmorph 1
 Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 1981 E 918.3 10820.2 9758.88 2250.72 518.6 119.48 27.5316 6.34722 1.46448
 0.338274 0.0782477 0.0181312 0.00420989 0.000979789 0.000228637 6.99644e-005
 1982 1 541.688 4796.01 4326.66 958.805 222.078 51.2181 11.8027 2.72111
 0.627869 0.145038 0.0335522 0.00777536 0.00180557 0.000420275 9.8087e-005
 3.00202e-005
 1983 1 881.13 8726.43 5600.12 1207.23 250.969 58.7273 13.5718 3.12924
 0.722085 0.16682 0.0385967 0.00894609 0.00207792 0.000483803 0.00011295
 3.45867e-005
 1984 1 546.141 8824.85 6561.73 1035.6 207.989 43.7103 10.2505 2.37019
 0.546959 0.126363 0.0292379 0.00677743 0.00157438 0.000366617 8.56066e-005
 2.62194e-005
 1985 1 737.38 6751.84 7456.66 1187.52 166.069 33.6957 7.09749 1.66561
 0.385549 0.0891062 0.0206261 0.00478373 0.00111197 0.000259137 6.05627e-005
 1.85726e-005
 1986 1 789.51 7916.33 5034.78 1268.84 185.96 26.1148 5.30299 1.11773
 0.262581 0.0608703 0.0140943 0.00326991 0.000760406 0.000177298 4.14615e-005
 1.27267e-005
 1987 1 539.255 8437.87 5669.75 783.249 184.701 27.6109 3.8926 0.791044
 0.166912 0.0392705 0.00912098 0.00211686 0.000492464 0.000114882 2.68817e-005
 8.25972e-006
 1988 1 220.495 7440.15 7740.25 1236.47 161.645 38.7328 5.80888 0.819524
 0.166714 0.0352274 0.00830323 0.00193276 0.000449731 0.000104937 2.4562e-005
 7.55053e-006
 1989 1 410.027 2080.48 4471.41 897.434 130.708 17.3072 4.15873 0.624201
 0.08817 0.0179664 0.00380453 0.000899085 0.000209926 4.90199e-005 1.14842e-
 005 3.63251e-006
 1990 1 274.134 2549.13 1005.5 503.574 93.7883 13.7185 1.81783 0.437021
 0.0656484 0.00928387 0.00189464 0.000401951 9.51976e-005 2.22839e-005
 5.21896e-006 1.70897e-006
 1991 1 316.679 3727.58 2641.08 277.962 132.16 25.0318 3.67262 0.4869 0.11714
 0.0176148 0.00249439 0.000509888 0.000108383 2.57268e-005 6.0378e-006
 1.97884e-006
 1992 1 550.591 4712.22 3900 681.864 67.4703 32.8518 6.25086 0.91771 0.121776
 0.0293343 0.00441822 0.000626884 0.000128441 2.73745e-005 6.51772e-006
 2.10988e-006
 1993 1 338.921 3917.99 2415.59 467.588 79.5672 8.05117 3.93506 0.749217
 0.110096 0.0146279 0.00352944 0.000532652 7.57536e-005 1.5563e-005 3.32724e-
 006 1.08779e-006
 1994 1 306.869 3629.89 3093.46 484.645 91.988 16.4462 1.6784 0.820867
 0.156412 0.0230098 0.00306154 0.000739976 0.000111904 1.59525e-005 3.28616e-
 006 9.55918e-007
 1995 1 57.3311 1422.3 3213.47 777.963 116.841 23.4287 4.24692 0.433848
 0.21238 0.0405189 0.00597027 0.000795904 0.000192808 2.92336e-005 4.17967e-
 006 1.12099e-006
 1996 1 26.5209 1086.01 3056.51 656.971 75.4517 11.6146 2.34714 0.425733
 0.0435233 0.0213301 0.00407575 0.000601709 8.04026e-005 1.95309e-005
 2.97059e-006 5.41142e-007

1997 1 17.3432 489.315 2567.38 825.423 91.351 10.6553 1.64758 0.333065
0.0604427 0.00618412 0.00303413 0.000580582 8.58605e-005 1.14963e-005
2.79914e-006 5.04994e-007
1998 1 16.9475 494.536 1874.94 1319.92 256.898 28.8138 3.37013 0.521193
0.105391 0.0191352 0.00195917 0.000962105 0.000184305 2.72923e-005 3.6599e-
006 1.05432e-006
1999 1 10.0153 407.837 1694.98 924.382 400.048 79.1971 8.91441 1.04278
0.161294 0.0326265 0.0059268 0.000607229 0.000298448 5.72298e-005 8.4847e-006
1.46876e-006
2000 1 10.8076 275.14 1567.9 982.62 352.065 154.885 30.7966 3.46708 0.405616
0.0627558 0.0126993 0.00230814 0.00023664 0.000116401 2.2342e-005 3.89184e-
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2001 1 10.9551 343.429 1256.33 1076.22 431.703 157.881 69.7189 13.8639
1.56098 0.182669 0.0282738 0.0057247 0.00104122 0.000106841 5.26062e-005
1.18757e-005
2002 1 14.0332 402.049 1848.1 1059.69 597.71 245.963 90.4281 39.9369 7.9421
0.894391 0.104695 0.0162117 0.00328421 0.000597731 6.13815e-005 3.71012e-005
2003 1 8.97085 408.838 1734.08 1274.01 484.931 277.445 114.501 42.0974
18.5929 3.69811 0.416575 0.0487821 0.00755755 0.00153197 0.000279024
4.60662e-005
2004 1 14.0308 328.195 2205.47 1487.23 726.211 280.575 160.951 66.4249
24.4232 10.7888 2.14649 0.24189 0.0283409 0.00439349 0.000891264 0.000189379
2005 1 6.58858 427.693 1486.57 1596.65 714.362 354.958 137.561 78.9127
32.5692 11.977 5.29223 1.05334 0.118761 0.0139232 0.00215999 0.000532027
2006 1 8.82645 149.655 1470.78 830.732 597.01 271.788 135.462 52.4972
30.1158 12.431 4.57241 2.02104 0.402428 0.0453967 0.00532549 0.00103107
fleet 2 fleetarea 1 gmorph 1
Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1981 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1982 1 142.787 1013.19 1695.1 555.303 128.728 29.6944 6.84415 1.57825
0.364238 0.0841563 0.0194722 0.00451338 0.00104829 0.000244057 5.69715e-005
1.74401e-005
1983 1 194.991 1547.68 1841.93 586.979 122.129 28.5841 6.60708 1.5237
0.351672 0.0812615 0.0188052 0.00435961 0.00101282 0.000235863 5.50764e-005
1.68685e-005
1984 1 200.64 2598.3 3582.89 835.917 168.026 35.3189 8.28434 1.91594
0.442225 0.102188 0.023649 0.005483 0.00127395 0.000296717 6.92989e-005
2.1229e-005
1985 1 186.194 1366.36 2798.47 658.831 92.2117 18.7137 3.94255 0.925407
0.214254 0.0495274 0.0114668 0.00266 0.000618438 0.000144152 3.36964e-005
1.03357e-005
1986 1 160.895 1292.94 1525 568.136 83.3357 11.7053 2.37742 0.5012 0.117767
0.0273058 0.00632385 0.00146745 0.000341319 7.95991e-005 1.86181e-005
5.71605e-006
1987 1 96.9826 1216.19 1515.53 309.499 73.0454 10.9217 1.54006 0.313031
0.0660638 0.0155464 0.00361155 0.000838362 0.000195076 4.55165e-005 1.06527e-
005 3.27385e-006
1988 1 41.799 1130.36 2180.84 515.004 67.3835 16.1494 2.42247 0.341835
0.069553 0.0146998 0.0034655 0.000806838 0.00018778 4.3824e-005 1.02597e-005
3.15456e-006
1989 1 83.9429 341.353 1360.56 403.676 58.8432 7.79307 1.87297 0.281179
0.0397254 0.00809649 0.00171484 0.000405334 9.46598e-005 2.21086e-005
5.18057e-006 1.63897e-006
1990 1 83.6021 623.039 455.762 337.424 62.8966 9.20175 1.21957 0.293253
0.0440609 0.00623228 0.00127213 0.00026994 6.39453e-005 1.49714e-005
3.50706e-006 1.14863e-006

1991 1 83.4701 787.422 1034.65 160.974 76.6016 14.5116 2.12955 0.282383
 0.0679508 0.0102201 0.00144754 0.000295956 6.2922e-005 1.49388e-005 3.50668e-
 006 1.14952e-006
 1992 1 73.7436 505.813 776.36 200.656 19.8716 9.67756 1.84177 0.270451
 0.0358949 0.00864839 0.00130285 0.000184894 3.78902e-005 8.07717e-006
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 1993 1 75.0351 695.182 794.861 227.451 38.7369 3.92045 1.91653 0.364973
 0.0536431 0.00712873 0.00172038 0.000259687 3.69401e-005 7.5906e-006
 1.62314e-006 5.30769e-007
 1994 1 73.6426 698.134 1103.38 255.541 48.5437 8.68066 0.886077 0.433448
 0.0826081 0.012155 0.00161759 0.000391052 5.91494e-005 8.4338e-006 1.73768e-
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 1995 1 16.557 377.312 1180.95 524.481 80.7089 16.1855 2.93435 0.299803
 0.146782 0.0280076 0.00412735 0.000550297 0.000133328 2.0218e-005 2.89106e-
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 1996 1 8.47553 318.811 1243.01 490.124 57.6747 8.87918 1.7946 0.325555
 0.0332866 0.0163155 0.00311798 0.000460376 6.15255e-005 1.49475e-005
 2.27377e-006 4.14262e-007
 1997 1 2.11667 54.8569 398.733 235.169 26.667 3.11084 0.481081 0.0972657
 0.0176536 0.00180646 0.000886429 0.000169642 2.50913e-005 3.36007e-006
 8.18227e-007 1.47637e-007
 1998 1 3.26331 87.4723 459.418 593.307 118.318 13.2721 1.55256 0.240137
 0.0485651 0.00881886 0.000903049 0.000443528 8.49758e-005 1.25852e-005
 1.6879e-006 4.86308e-007
 1999 1 1.93009 72.1972 415.669 415.86 184.401 36.51 4.11013 0.480854
 0.0743874 0.0150491 0.00273414 0.000280165 0.000137718 2.64121e-005 3.9163e-
 006 6.7803e-007
 2000 1 2.39027 55.8971 441.27 507.321 186.241 81.9431 16.2955 1.83479
 0.214683 0.0332198 0.00672329 0.00122215 0.000125317 6.16507e-005 1.18349e-
 005 2.06185e-006
 2001 1 1.85306 53.3617 270.425 424.965 174.661 63.8838 28.2145 5.61133
 0.631885 0.0739547 0.0114484 0.00231832 0.000421717 4.32788e-005 2.13126e-005
 4.81193e-006
 2002 1 2.74167 72.1536 459.467 483.302 279.31 114.952 42.2679 18.6699
 3.71332 0.418229 0.0489635 0.00758287 0.00153637 0.00027966 2.87225e-005
 1.73633e-005
 2003 1 1.45988 61.116 359.105 483.991 188.756 108.006 44.58 16.3926 7.24101
 1.44043 0.162279 0.019006 0.0029449 0.000597037 0.000108755 1.79577e-005
 2004 1 2.46446 52.9531 492.958 609.815 305.098 117.89 67.6364 27.9176
 10.2662 4.53564 0.902518 0.10172 0.0119195 0.00184806 0.000374948 7.96814e-
 005
 2005 1 0.962926 57.4187 276.475 544.744 249.722 124.098 48.1001 27.5966
 11.3914 4.18965 1.85151 0.368565 0.0415606 0.00487309 0.000756097 0.00018626
 2006 1 1.7031 26.5257 361.135 374.193 275.533 125.45 62.5347 24.2381 13.9064
 5.741 2.11196 0.933632 0.185929 0.0209771 0.00246116 0.000476569
 fleet 3 fleetarea 1 gmorph 1
 Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 1981 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1982 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1983 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1984 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1985 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1986 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1987 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1988 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

1989 1 548.451 433.184 372.536 74.7327 10.8846 1.44159 0.346568 0.052056
0.00736028 0.00150165 0.000318455 7.53869e-005 1.76366e-005 4.12733e-006
9.67393e-007 1.44867e-010
1990 1 1004.82 1454.45 229.564 114.913 21.4022 3.13127 0.415125 0.0998728
0.0150174 0.00212635 0.000434583 9.23562e-005 2.19166e-005 5.14146e-006
1.20472e-006 1.86765e-010
1991 1 680.586 1247.02 353.545 37.1905 17.6828 3.35001 0.491749 0.0652417
0.0157116 0.00236551 0.000335469 6.86924e-005 1.46302e-005 3.48034e-006
8.17184e-007 1.26798e-010
1992 1 553.792 737.78 244.333 42.6971 4.2249 2.05763 0.391706 0.05755
0.00764412 0.00184363 0.000278091 3.95252e-005 8.11415e-006 1.73315e-006
4.12848e-007 6.32724e-011
1993 1 573.973 1032.86 254.809 49.2991 8.38905 0.849068 0.41519 0.0791084
0.0116362 0.00154795 0.000374043 5.65466e-005 8.05786e-006 1.65904e-006
3.54857e-007 5.49259e-011
1994 1 260.129 478.975 163.335 25.5766 4.85459 0.868144 0.0886409 0.0433841
0.00827474 0.0012188 0.000162404 3.93209e-005 5.95804e-006 8.51209e-007
1.75429e-007 2.41599e-011
1995 1 22.4719 126.753 71.6772 12.5224 1.87988 0.376983 0.0683584 0.00698728
0.0034233 0.000653815 9.64639e-005 1.28799e-005 3.12582e-006 4.74917e-007
6.80583e-008 1.82958e-008
1996 1 32.029 298.202 210.058 32.5822 3.74035 0.575819 0.116403 0.0211259
0.00216152 0.00106047 0.000202901 3.00017e-005 4.01622e-006 9.77612e-007
1.49035e-007 2.72124e-008
1997 1 18.9374 121.478 159.528 37.0122 4.0944 0.477617 0.0738763 0.0149431
0.00271403 0.000277981 0.000136567 2.61732e-005 3.87771e-006 5.20278e-007
1.26971e-007 2.29602e-008
1998 1 19.0608 126.459 119.999 60.9619 11.8599 1.33033 0.15565 0.0240854
0.00487438 0.000885962 9.08298e-005 4.46745e-005 8.57359e-006 1.27222e-006
1.70999e-007 4.93752e-008
1999 1 58.2105 538.942 560.608 220.631 95.4413 18.896 2.12764 0.249029
0.038551 0.00780648 0.00141997 0.000145711 7.17459e-005 1.37863e-005
2.04863e-006 3.55456e-007
2000 1 33.2858 192.664 274.793 124.277 44.5081 19.5822 3.89494 0.438747
0.0513718 0.00795665 0.00161224 0.00029349 3.01445e-005 1.48584e-005
2.85851e-006 4.99096e-007
2001 1 12.5664 89.5672 82.008 50.6957 20.3267 7.43442 3.28408 0.653431
0.073633 0.00862595 0.0013369 0.000271113 4.94e-005 5.07946e-006 2.50681e-006
5.67223e-007
2002 1 16.6921 108.731 125.095 51.7621 29.1832 12.0102 4.417 1.95187
0.388482 0.0437956 0.00513337 0.000796133 0.000161576 2.94678e-005 3.03307e-
006 1.83757e-006
2003 1 15.205 157.551 167.255 88.6754 33.738 19.3042 7.96947 2.93176 1.29593
0.258036 0.029105 0.00341363 0.000529816 0.00010762 1.96465e-005 3.25113e-006
2004 1 7.58448 40.3361 67.8425 33.014 16.1136 6.2261 3.57277 1.47535
0.542909 0.240083 0.0478293 0.00539839 0.000633647 9.84328e-005 2.00142e-005
4.2626e-006
2005 1 3.3328 49.1891 42.7919 33.167 14.8328 7.37088 2.85748 1.64016
0.677494 0.249411 0.110352 0.0219982 0.00248476 0.000291906 4.53898e-005
1.1206e-005
2006 1 8.7111 33.5814 82.6022 33.6687 24.1856 11.0114 5.49003 2.12885
1.22226 0.505057 0.186018 0.0823503 0.0164273 0.00185694 0.000218341
4.23715e-005
fleet 4 fleetarea 1 gmorph 1
Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1981 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1982 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0

1983 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1984 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1985 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1986 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1987 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1988 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1989 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1990 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1991 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1992 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1993 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1994 1 44.0814 408.846 279.845 42.8083 2.15663 0.0139383 1.3841e-005
3.39134e-006 6.45757e-007 9.50739e-008 1.26659e-008 3.06625e-009 4.64575e-010
6.63713e-011 1.37054e-011 3.99751e-012
1995 1 6.38478 101.876 115.652 20.4726 2.26123 0.318092 0.0559977 0.00572231
0.00280354 0.000535449 7.90002e-005 1.05481e-005 2.55993e-006 3.88939e-007
5.57371e-008 1.4987e-008
1996 1 2.15598 56.7828 80.2986 12.62 1.06591 0.115109 0.0225911 0.00409895
0.000419389 0.000205757 3.93679e-005 5.82108e-006 7.79247e-007 1.89681e-007
2.89165e-008 5.2811e-009
1997 1 1.38038 25.0485 66.0365 15.524 1.2635 0.103391 0.0155259 0.00313961
0.000570231 5.84052e-005 2.86934e-005 5.49912e-006 8.14725e-007 1.09313e-007
2.66772e-008 4.82516e-009
1998 1 2.08414 39.115 74.513 38.3552 5.49003 0.431985 0.049069 0.00759096
0.00153625 0.000279227 2.86266e-005 1.408e-005 2.70212e-006 4.00963e-007
5.38933e-008 1.55651e-008
1999 1 3.79711 99.4488 207.672 82.8128 26.3569 3.66055 0.400149 0.0468228
0.00724842 0.00146779 0.000266985 2.73968e-005 1.34898e-005 2.59211e-006
3.85186e-007 6.68489e-008
2000 1 1.56431 25.6135 73.3392 33.6074 8.85541 2.73305 0.527759 0.0594338
0.00695895 0.00107783 0.000218398 3.97569e-005 4.08345e-006 2.01276e-006
3.87222e-007 6.76243e-008
2001 1 2.80274 56.5102 103.871 65.0612 19.1931 4.92429 2.11182 0.420076
0.047337 0.00554543 0.000859465 0.000174292 3.17582e-005 3.26547e-006
1.61157e-006 3.6474e-007
2002 1 1.68198 30.9934 71.5842 30.0125 12.4495 3.59405 1.28325 0.566916
0.112834 0.0127203 0.00149097 0.000231235 4.69294e-005 8.55885e-006 8.80947e-
007 5.33839e-007
2003 1 0.617111 18.0886 38.55 20.709 5.797 2.32678 0.932564 0.342975
0.151606 0.0301866 0.00340487 0.000399347 6.1981e-005 1.259e-005 2.29836e-006
3.80425e-007
2004 1 0.707625 10.6458 35.9456 17.7237 6.36468 1.72511 0.961066 0.396761
0.146003 0.0645648 0.0128626 0.00145177 0.000170405 2.64712e-005 5.38236e-006
1.14659e-006
2005 1 0.373766 15.605 27.2533 21.4031 7.0424 2.4549 0.923943 0.530192
0.219004 0.0806236 0.0356718 0.00711106 0.000803214 9.43603e-005 1.46725e-005
3.62325e-006
2006 1 0.661617 7.21502 35.6281 14.7143 7.77672 2.4837 1.20221 0.466052
0.267579 0.110568 0.0407234 0.0180283 0.0035963 0.000406526 4.77998e-005
9.2782e-006
fleet 5 fleetarea 1 gmorph 1
Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1981 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1982 1 1213.05 6785.06 4154.17 920.983 213.309 49.1928 11.3354 2.61323
0.602944 0.139273 0.0322168 0.00746549 0.00173352 0.000403482 9.41627e-005
2.88176e-005

1983 1 206.494 1291.96 562.687 121.353 25.2267 5.90279 1.36405 0.314492
 0.0725663 0.0167637 0.00387838 0.000898897 0.000208776 4.86069e-005 1.13473e-
 005 3.4745e-006
 1984 1 813.347 8302.77 4189.79 661.537 132.857 27.9193 6.54701 1.51376
 0.349305 0.0806953 0.0186703 0.00432758 0.00100523 0.00023407 5.46534e-005
 1.67382e-005
 1985 1 783.176 4530.38 3395.59 541.006 75.6535 15.3494 3.23295 0.758653
 0.175601 0.0405819 0.00939327 0.00217843 0.000506346 0.000117994 2.75748e-005
 8.45585e-006
 1986 1 1313.19 8318.4 3590.49 905.255 132.668 18.6298 3.78284 0.797281
 0.18729 0.0434142 0.0100519 0.00233193 0.000542254 0.000126426 2.95634e-005
 9.07407e-006
 1987 1 589.382 5826.13 2656.86 367.194 86.5854 12.9429 1.8246 0.370771
 0.0782295 0.0184045 0.00427441 0.00099198 0.000230761 5.38291e-005 1.2595e-
 005 3.86975e-006
 1988 1 258.655 5513.77 3892.96 622.156 81.3313 19.4873 2.92241 0.412275
 0.0838639 0.0177198 0.0041764 0.000972098 0.000226184 5.27731e-005 1.23516e-
 005 3.79678e-006
 1989 1 208.728 669.077 975.922 195.958 28.5393 3.77872 0.907937 0.136268
 0.0192473 0.00392181 0.000830428 0.000196236 4.58162e-005 1.0698e-005
 2.50616e-006 7.92666e-007
 1990 1 421.138 2473.99 662.287 331.832 61.7993 9.03894 1.19768 0.287916
 0.0432479 0.00611571 0.00124802 0.000264754 6.27008e-005 1.46763e-005
 3.43704e-006 1.12541e-006
 1991 1 488.311 3631.19 1746.07 183.846 87.4082 16.5546 2.42873 0.321973
 0.0774576 0.011647 0.00164921 0.000337102 7.16514e-005 1.70069e-005 3.99112e-
 006 1.30799e-006
 1992 1 555.528 3003.64 1687.12 295.099 29.1987 14.2163 2.70485 0.397087
 0.0526888 0.0126914 0.00191143 0.00027119 5.55604e-005 1.18409e-005 2.81911e-
 006 9.12538e-007
 1993 1 593.675 4335.69 1814.16 351.323 59.7802 6.04865 2.95616 0.562808
 0.0826992 0.0109872 0.00265087 0.00040004 5.68904e-005 1.16871e-005 2.49846e-
 006 8.16791e-007
 1994 1 518.612 3875.5 2241.49 351.323 66.6799 11.9208 1.2165 0.59493
 0.113355 0.0166748 0.00221852 0.000536187 8.10812e-005 1.1558e-005 2.38077e-
 006 6.9251e-007
 1995 1 76.1841 871.889 1540.67 436.66 65.6088 13.1565 2.38503 0.243661
 0.119287 0.0227595 0.00335373 0.000447119 0.000108322 1.64248e-005 2.3485e-
 006 6.29912e-007
 1996 1 76.3329 1441.97 3174.04 798.694 91.7672 14.1269 2.85502 0.517889
 0.052948 0.0259507 0.00495897 0.00073215 9.78389e-005 2.3768e-005 3.61527e-
 006 6.58625e-007
 1997 1 74.6995 972.239 3989.69 1501.67 166.263 19.3942 2.99903 0.606305
 0.110036 0.0112589 0.00552436 0.00105716 0.00015635 2.09359e-005 5.09785e-006
 9.19765e-007
 1998 1 65.4135 880.556 2611.02 2151.88 419.002 46.998 5.49736 0.850227
 0.171937 0.0312195 0.00319664 0.0015699 0.000300757 4.45397e-005 5.97316e-006
 1.72083e-006
 1999 1 26.7183 501.914 1631.44 1041.61 450.974 89.2837 10.0504 1.17574
 0.181872 0.0367915 0.00668383 0.000684836 0.000336613 6.45525e-005 9.57097e-
 006 1.65691e-006
 2000 1 56.8983 668.219 2978.17 2185.06 783.223 344.583 68.5201 7.71448
 0.902581 0.139654 0.0282623 0.00513711 0.000526712 0.000259102 4.97352e-005
 8.66416e-006
 2001 1 38.6351 558.726 1598.57 1603.15 643.345 235.295 103.911 20.6645
 2.32684 0.272309 0.0421511 0.00853506 0.00155247 0.000159312 7.8447e-005
 1.77104e-005

2002 1 26.4783 349.953 1258.12 844.545 476.561 196.12 72.108 31.8481 6.33392
 0.713334 0.0835065 0.0129315 0.00261988 0.000476854 4.89717e-005 2.96023e-005
 2003 1 24.1914 508.6 1687.17 1451.15 552.589 316.171 130.492 47.9798 21.1924
 4.21541 0.474877 0.0556132 0.00861641 0.00174673 0.000318159 5.25308e-005
 2004 1 27.4416 296.111 1556.29 1228.61 600.182 231.896 133.035 54.9075
 20.1898 8.91927 1.77466 0.200002 0.0234345 0.00363314 0.000737067 0.000156625
 2005 1 12.6429 378.602 1029.2 1294.12 579.25 287.838 111.557 63.9992 26.4158
 9.71482 4.29291 0.854494 0.0963486 0.0112963 0.00175258 0.000431708
 2006 1 24.1695 189.048 1453.08 960.844 690.808 314.506 156.764 60.7565
 34.8561 14.3886 5.29282 2.33962 0.465894 0.0525596 0.00616617 0.00119391
 fleet 6 fleetarea 1 gmorph 1
 Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 1981 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1982 1 65.3854 286.305 148.918 28.2982 1.09839 0.00582748 2.2621e-005
 4.27067e-006 9.8549e-007 2.27847e-007 5.27768e-008 1.22502e-008 2.8501e-009
 6.64846e-010 1.55544e-010 4.77333e-011
 1983 1 88.5389 433.659 160.455 29.6606 1.03332 0.00556236 2.16537e-005
 4.08838e-006 9.43482e-007 2.18158e-007 5.05399e-008 1.17332e-008 2.73047e-009
 6.37116e-010 1.49105e-010 4.57804e-011
 1984 1 58.4269 466.909 200.165 27.0891 0.911732 0.00440775 1.74122e-005
 3.29692e-006 7.60876e-007 1.75938e-007 4.0761e-008 9.46374e-009 2.20258e-009
 5.14016e-010 1.20317e-010 3.69493e-011
 1985 1 18.3189 82.9561 52.8222 7.21351 0.169051 0.000789059 2.79972e-006
 5.38021e-007 1.24549e-007 2.88103e-008 6.67752e-009 1.55119e-009 3.61258e-010
 8.43713e-011 1.97663e-011 6.07798e-012
 1986 1 132.846 658.768 241.565 52.2028 1.28213 0.00414193 1.41681e-005
 2.44538e-006 5.74521e-007 1.33299e-007 3.09047e-008 7.18153e-009 1.67321e-009
 3.90977e-010 9.16529e-011 2.82087e-011
 1987 1 80.1506 620.244 240.292 28.4648 1.12487 0.00386828 9.18656e-006
 1.52873e-006 3.22591e-007 7.59643e-008 1.76662e-008 4.10671e-009 9.57198e-010
 2.2378e-010 5.24904e-011 1.61716e-011
 1988 1 19.5607 326.426 195.796 26.8205 0.587581 0.00323885 8.18237e-006
 9.45292e-007 1.92314e-007 4.06721e-008 9.59893e-009 2.23797e-009 5.21739e-010
 1.22003e-010 2.86259e-011 8.82348e-012
 1989 1 10.0293 25.1673 31.1863 5.36729 0.131002 0.000399033 1.61517e-006
 1.98517e-007 2.80433e-008 5.71937e-009 1.21268e-009 2.87043e-010 6.71486e-011
 1.5714e-011 3.69036e-012 1.17041e-012
 1990 1 63.9551 294.118 66.8893 28.7257 0.896562 0.00301678 6.73388e-006
 1.32566e-006 1.99153e-007 2.81884e-008 5.76008e-009 1.22398e-009 2.90437e-010
 6.81334e-011 1.59958e-011 5.25197e-012
 1991 1 85.8975 500.041 204.27 18.435 1.46887 0.00639999 1.58175e-005
 1.71719e-006 4.13162e-007 6.21829e-008 8.81691e-009 1.8052e-009 3.84448e-010
 9.14542e-011 2.15155e-011 7.07047e-012
 1992 1 84.4885 357.612 170.646 25.5836 0.42423 0.00475175 1.52303e-005
 1.83102e-006 2.42986e-007 5.85834e-008 8.83499e-009 1.25558e-009 2.57742e-010
 5.50517e-011 1.31394e-011 4.26484e-012
 1993 1 189.539 1083.63 385.2 63.9382 1.82329 0.0042441 3.49424e-005
 5.44787e-006 8.00617e-007 1.06467e-007 2.57216e-008 3.88808e-009 5.54012e-010
 1.14064e-010 2.44453e-011 8.01352e-012
 1994 1 120.941 707.506 347.638 46.7025 1.48549 0.00610957 1.05031e-005
 4.2064e-006 8.01571e-007 1.18022e-007 1.57235e-008 3.80651e-009 5.76739e-010
 8.23958e-011 1.70145e-011 4.96268e-012
 1995 1 161.278 819.795 359.759 51.7569 1.20728 0.0108408 0.00108619
 0.000110771 5.42695e-005 1.03649e-005 1.52923e-006 2.04183e-007 4.95531e-008
 7.52878e-009 1.07892e-009 2.90107e-010

1996 1 82.218 689.834 377.101 48.167 0.859167 0.00592258 0.000661555
 0.00011979 1.22563e-005 6.01304e-006 1.15048e-006 1.70114e-007 2.27726e-008
 5.5432e-009 8.45049e-010 1.54334e-010
 1997 1 62.7453 362.719 369.653 70.6241 1.21393 0.0063408 0.000541933
 0.000109366 1.98633e-005 2.03447e-006 9.99492e-007 1.91554e-007 2.83797e-008
 3.80775e-009 9.2926e-010 1.68077e-010
 1998 1 84.067 502.629 370.134 154.842 4.68068 0.0235097 0.00151989
 0.00023465 4.74876e-005 8.63125e-006 8.84882e-007 4.35227e-007 8.35255e-008
 1.23942e-008 1.6659e-009 4.81132e-010
 1999 1 57.8248 482.466 389.463 126.219 8.48381 0.0752117 0.0046794
 0.000546441 8.4591e-005 1.71294e-005 3.11576e-006 3.19725e-007 1.57428e-007
 3.02503e-008 4.49518e-009 7.80135e-010
 2000 1 94.7947 494.467 547.3 203.828 11.3424 0.223454 0.0245587 0.00276007
 0.000323166 5.00528e-005 1.01421e-005 1.84625e-006 1.89628e-007 9.34691e-008
 1.79819e-008 3.14036e-009
 2001 1 129.18 829.746 589.57 300.125 18.6979 0.30622 0.074744 0.0148376
 0.00167199 0.000195869 3.03568e-005 6.1561e-006 1.12172e-006 1.15338e-007
 5.69215e-008 1.28828e-008
 2002 1 81.9086 480.821 429.292 146.277 12.8143 0.23614 0.0479871 0.0211568
 0.00421081 0.000474704 5.56409e-005 8.62931e-006 1.75133e-006 3.19402e-007
 3.28755e-008 1.9922e-008
 2003 1 59.0019 550.953 453.894 198.166 11.715 0.300148 0.0684682 0.0251299
 0.011108 0.00221174 0.000249471 2.92596e-005 4.54126e-006 9.22449e-007
 1.68397e-007 2.78731e-008
 2004 1 96.4511 462.26 603.362 241.784 18.3365 0.317249 0.100592 0.0414436
 0.0152505 0.00674399 0.00134353 0.000151641 1.77992e-005 2.76498e-006
 5.62201e-007 1.19764e-007
 2005 1 47.3244 629.442 424.945 271.224 18.847 0.41937 0.0898334 0.0514449
 0.0212499 0.00782284 0.0034612 0.000689978 7.79347e-005 9.15565e-006
 1.42366e-006 3.51559e-007
 2006 1 77.6218 269.663 514.751 172.776 19.2845 0.393146 0.108309 0.0419021
 0.0240574 0.00994089 0.00366132 0.00162087 0.000323332 3.65494e-005 4.29752e-
 006 8.34171e-007

BIOLOGY 1 70 15 1 N_Used_morphs;_lengths;_ages;_season;_by_season_in_endyr
 bin low Mean_Size Wt_len-F mat_len spawn Wt_len-M
 1 10 10.5 0.0063863 1 0.0063863
 2 11 11.5 0.00865928 1 0.00865928
 3 12 12.5 0.0114467 1 0.0114467
 4 13 13.5 0.0148098 1 0.0148098
 5 14 14.5 0.0188113 1 0.0188113
 6 15 15.5 0.0235157 1 0.0235157
 7 16 16.5 0.0289892 1 0.0289892
 8 17 17.5 0.0352991 1 0.0352991
 9 18 18.5 0.0425145 1 0.0425145
 10 19 19.5 0.0507059 1 0.0507059
 11 20 20.5 0.0599448 1 0.0599448
 12 21 21.5 0.0703042 1 0.0703042
 13 22 22.5 0.0818585 1 0.0818585
 14 23 23.5 0.0946829 1 0.0946829
 15 24 24.5 0.108854 1 0.108854
 16 25 25.5 0.12445 1 0.12445
 17 26 26.5 0.14155 1 0.14155
 18 27 27.5 0.160232 1 0.160232
 19 28 28.5 0.180579 1 0.180579
 20 29 29.5 0.202673 1 0.202673
 21 30 30.5 0.226596 1 0.226596

22 31 31.5 0.252433 1 0.252433
 23 32 32.5 0.280267 1 0.280267
 24 33 33.5 0.310187 1 0.310187
 25 34 34.5 0.342277 1 0.342277
 26 35 35.5 0.376627 1 0.376627
 27 36 36.5 0.413324 1 0.413324
 28 37 37.5 0.452458 1 0.452458
 29 38 38.5 0.494119 1 0.494119
 30 39 39.5 0.538399 1 0.538399
 31 40 40.5 0.58539 1 0.58539
 32 41 41.5 0.635184 1 0.635184
 33 42 42.5 0.687876 1 0.687876
 34 43 43.5 0.743558 1 0.743558
 35 44 44.5 0.802328 1 0.802328
 36 45 45.5 0.86428 1 0.86428
 37 46 46.5 0.929512 1 0.929512
 38 47 47.5 0.99812 1 0.99812
 39 48 48.5 1.0702 1 1.0702
 40 49 49.5 1.14586 1 1.14586
 41 50 50.5 1.22519 1 1.22519
 42 51 51.5 1.3083 1 1.3083
 43 52 52.5 1.39527 1 1.39527
 44 53 53.5 1.48623 1 1.48623
 45 54 54.5 1.58127 1 1.58127
 46 55 55.5 1.68048 1 1.68048
 47 56 56.5 1.78398 1 1.78398
 48 57 57.5 1.89188 1 1.89188
 49 58 58.5 2.00426 1 2.00426
 50 59 59.5 2.12125 1 2.12125
 51 60 60.5 2.24294 1 2.24294
 52 61 61.5 2.36945 1 2.36945
 53 62 62.5 2.50088 1 2.50088
 54 63 63.5 2.63734 1 2.63734
 55 64 64.5 2.77893 1 2.77893
 56 65 65.5 2.92577 1 2.92577
 57 66 66.5 3.07797 1 3.07797
 58 67 67.5 3.23564 1 3.23564
 59 68 68.5 3.39888 1 3.39888
 60 69 69.5 3.56782 1 3.56782
 61 70 70.5 3.74255 1 3.74255
 62 71 71.5 3.9232 1 3.9232
 63 72 72.5 4.10988 1 4.10988
 64 73 73.5 4.30271 1 4.30271
 65 74 74.5 4.50178 1 4.50178
 66 75 75.5 4.70723 1 4.70723
 67 76 76.5 4.91917 1 4.91917
 68 77 77.5 5.13771 1 5.13771
 69 78 78.5 5.36296 1 5.36296
 70 79 79.5 5.59506 1 5.59506

Growth_Parameters

Count Yr Morph A1 A2 L-at-A1 L-at-A2 K A-at-L0 Linf CVmin CVmax natM_amin
 natM_max M_young M_old
 1 1982 1 0.5 6 28.1 60.2 0.2052 -1.76669 75.5491 0.1 0.1 0 2 0.2 0.2

Season gmorph GrowPattern Sex BirthSeas age age_Beg age_Mid M Len_Beg Len_Mid
 SD_Beg SD_Mid Wt_Beg Wt_Mid Len_Mat Age_Mat Mat*Fecund Len:_1 SelWt:_1

1 1996 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 1996 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 1997 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 1997 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 1998 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 1998 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 1999 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
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1.44463e-010 1.12111e-010 9.14422e-011 7.75946e-011
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2.25615e-009 8.0984e-010 3.65609e-010 1.96086e-010 1.1992e-010 8.11562e-011
5.94323e-011 4.63068e-011 3.7893e-011 3.22405e-011
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8.62475e-010 3.13684e-010 1.43234e-010 7.75582e-011 4.78101e-011 3.25677e-011
2.39782e-011 1.87647e-011 1.54103e-011 1.31499e-011
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22 0.0197936 5.55877e-005 5.96849e-007 2.37066e-008 2.32291e-009 4.20374e-010
1.16514e-010 4.37748e-011 2.05399e-011 1.13747e-011 7.14223e-012 4.93894e-012
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mean 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666 66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364

sdszize 2.81 3.69026 4.40721 4.99116 5.46677 5.85416 6.16967 6.42666 6.63596 6.80644 6.9453 7.05839 7.1505 7.22553 7.28663 7.3364

AGE AGE_KEY

KEY: 1

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0.001 0.001 0.001 0.001

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6 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0

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3 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0

2 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0

1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0

0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Composition_Database

year	season	fleet	rep	pick_gender	kind	mkt	ageerr	gender	Lbin_lo	Lbin_hi	bin						
obs	exp	Pearson	N	effN	Like	Used											
1982	1	1	1	0	AGE	0	1	1	1	70	0	0.0999438	0.0530772	2.95642	200	85.5962	12.6501
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	1	0.476731	0.456822	0.565234	200	85.5962	4.06741
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	2	0.390191	0.381253	0.260239	200	85.5962	1.80831
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	3	0.0161747	0.0833381	-3.43654	200	85.5962	-5.30355
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	4	0.00432648	0.0194175	-1.54666	200	85.5962	-1.29917
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	5	0.00682085	0.0045571	0.475325	200	85.5962	0.550166
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	6	0.00404933	0.00112714	1.23163	200	85.5962	1.03571
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	7	0.00176283	0.000407879	0.948988	200	85.5962	0.516052
1																	
1982	1	1	1	0	AGE	0	1	1	1	70							
1982	1	2	1	0	AGE	0	1	1	1	70	0	0.17237	0.0433609	8.95802	200	3.2155	47.577
1																	
1982	1	2	1	0	AGE	0	1	1	1	70	1	0.608225	0.299001	9.55198	200	3.2155	86.38
1																	
1982	1	2	1	0	AGE	0	1	1	1	70	2	0.179394	0.462702	-8.03556	200	3.2155	-33.9952
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1982	1	2	1	0	AGE	0	1	1	1	70	5	0.00343644	0.0081052	-0.736379	200	3.2155	-0.589741
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1982	1	2	1	0	AGE	0	1	1	1	70	7	0.00115356	0.000653287	0.276892	200	3.2155	0.13118
1																	
1982	1	2	1	0	AGE	0	1	1	1	70							
1982	1	5	1	0	AGE	0	1	1	1	70	0	0.177705	0.0961099	3.91503	200	48.3589	21.8445
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1982	1	5	1	0	AGE	0	1	1	1	70	1	0.545508	0.523005	0.637136	200	48.3589	4.59592
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1982	1	6	1	0	AGE	0	1	1	1	70	0	0.212929	0.129703	3.50319	200	16.2957	21.1102
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1																	
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0.719282 1
1983 1 1 1 0 AGE 0 1 1 1 70 5 0.00334187 0.00344786 -0.0255715 200 26.1453 -
0.0208688 1
1983 1 1 1 0 AGE 0 1 1 1 70 6 0.000779684 0.00087368 -0.0449924 200 26.1453 -
0.0177496 1
1983 1 1 1 0 AGE 0 1 1 1 70 7 0.00130258 0.000331903 0.753626 200 26.1453
0.356192 1
1983 1 1 1 0 AGE 0 1 1 1 70
1983 1 2 1 0 AGE 0 1 1 1 70 0 0.0778858 0.047458 2.0239 200 7.69229 7.71689 1
1983 1 2 1 0 AGE 0 1 1 1 70 1 0.597407 0.370473 6.6455 200 7.69229 57.0902 1
1983 1 2 1 0 AGE 0 1 1 1 70 2 0.250058 0.415537 -4.74868 200 7.69229 -25.3998
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1.03732 1
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0.115712 1
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0.00671631 1
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1.32114 1
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2.65095 1
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