

SS2 ALTERNATIVE RUN (F08 SEXStructured.REP)

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

Time: Sat May 17 12:47:08 2008

Data_File: maunder.DAT
Control_File: maunder.CTL

Convergence_Level:
Hessian:
Sum_of_months_on_read_was:_ 12 rescaled_to_sum_to: 1

LIKELIHOOD 2744.38
indices 187.449
discard 0
length_comps 0
age_comps 2476.08
size-at-age 0
mean_body_wt 0
Equil_catch 0
catch 33.771
Recruitment 9.09625
Parm_priors 0
Parm_devs 37.977
penalties 0
Forecast_Recruitment 1.09564e-030

	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	1	73.1485	0	0	0
2	0	0	0	0	0	0	1	120.7	0	0	0
3	0	0	0	0	0	0	1	277.383	0	0	0
4	0	0	0	0	0	0	1	183.812	0	0	0
5	0	0	0	0	0	0	1	66.8626	0	0	0
6	0	0	0	0	0	0	1	153.008	0	0	0
7	1	54.4921	0	0	0	0	1	219.146	0	0	0
8	1	80.7492	0	0	0	0	1	751.994	0	0	0
9	1	52.2079	0	0	0	0	1	630.03	0	0	0

Source Lambda Like
mean_body_wt 0 0
Equil_catch 0 0
Catch 1 33.771
Recruitment 1 9.09625
Parm_priors 0 0
Parm_devs 1 37.977
penalties 0

Variance_adjustments_to_input_values	1	2	3	4	5	6	7	8	9
Index_extra_CV	0	0	0	0	0	0	0	0	0
Discard_extra_CV	0	0	0	0	0	0	0	0	0
MeanBodyWt_extra_CV	0	0	0	0	0	0	0	0	0
effN_mult_Lencomp	1	1	1	1	1	1	1	1	1

effN_mult_Agecomp 1 1 1 1 1 1 1 1 1
effN_mult_Len-at-age 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 0.287429 3 0.05 0.8 0.2 0.2 0 0.8 1 0
2 0 -3
3 29.61 -2
4 62.12 -2
5 0.200667 -3
6 0.001 -2
7 0 -3

Gender:_2_Pattern:_1

8 0.631743 3 -3 3 0.154151 0 0 0.8 2 0
9 0 -3
10 -0.0243857 -2
11 -0.155104 -3
12 0.0619715 -3
13 0 -3
14 0 -3

biology_parms

15 2.44e-006 -3
16 3.34694 -3
17 28.1 -3
18 -0.25 -3
19 1 -3
20 0 -3
21 2.44e-006 -3
22 3.34694 -3

recrdist_by_growthpattern:1

23 0 -3

recrdist_by_area:1

24 0 -3

recrdist_by_seas:1

25 4 -3

cohort_growth_dev:2

26 1 -3

MGparm_env_linkages

MG_parm_blockparms

M-G_parm_devs 1

1_YR1976 0 -

MGParm_Block_Assignments

SR_parms

1 11.1586 1 3 31 10.1121 0 -1 99 3 0
2 1 -1
3 0.6 -1
4 0 -1
5 -0.0396692 1 -5 5 0 0 -1 99 4 0
6 0 -1

Recr_Devs

1970 -0.475066 - - - - - 5
1971 -0.14295 - - - - - 6
1972 -0.0159156 - - - - - 7
1973 -0.0537484 - - - - - 8

```

1974 0.514565 - - - - - 9
1975 0.291379 - - - - - 10
1976 0.289242 - - - - - 11
1977 0.138823 - - - - - 12
1978 -0.0294581 - - - - - 13
1979 -0.377302 - - - - - 14
1980 0.348669 - - - - - 15
1981 0.384042 - - - - - 16
1982 0.604651 - - - - - 17
1983 0.588443 - - - - - 18
1984 0.0216812 - - - - - 19
1985 0.315039 - - - - - 20
1986 0.301765 - - - - - 21
1987 -0.0104133 - - - - - 22
1988 -1.26072 - - - - - 23
1989 -0.325978 - - - - - 24
1990 -0.158674 - - - - - 25
1991 -0.0293285 - - - - - 26
1992 0.0707161 - - - - - 27
1993 -0.178915 - - - - - 28
1994 0.0449586 - - - - - 29
1995 0.384236 - - - - - 30
1996 0.116184 - - - - - 31
1997 0.168637 - - - - - 32
1998 0.293698 - - - - - 33
1999 0.0526087 - - - - - 34
2000 0.209601 - - - - - 35
2001 0.203928 - - - - - 36
2002 0.222126 - - - - - 37
2003 -0.127249 - - - - - 38
2004 0.187304 - - - - - 39
2005 -0.627414 - - - - - 40
2006 -0.871828 - - - - - 41
2007 -1.06734 - - - - - 42
init_F_parms
1 0.723782 1 0 2 1 1 -1 10 43 0
2 0 -1
3 0 -1
4 0 -1
5 0 -1
6 0 -1
Q_parms
sel_parms
#_size_sel:_1
1 50.6893 2 0.5 90 60 4 -1 99 44 0
2 -9 -3
3 3.19152 3 -9 9 5 2 -1 99 45 0
4 5.72156 3 -9 9 5 9 -1 99 46 0
5 -5.35014 3 -10 10 -2 5 -1 99 47 0
6 -999 -3
#_male
#_size_sel:_2
7 44.7042 2 0.5 90 60 4 -1 99 48 0
8 -9 -3
9 4.18341 3 -9 9 5 2 -1 99 49 0
10 4.55032 3 -9 9 5 9 -1 99 50 0
11 -10 -3

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12 -999 -3
#_male
#_size_sel:_3
13 29.6876 2 0.5 70 60 4 -1 99 51 0
14 -9 -3
15 -4.31897 3 -9 9 5 2 -1 99 52 0
16 4.50078 3 -9 9 5 9 -1 99 53 0
17 -2.37533 3 -10 10 -2 5 -1 99 54 0
18 -15 -3
#_male
#_size_sel:_4
19 40.9342 2 0.5 90 60 4 -1 99 55 0
20 -0.4361 3 -9 3 -3 -3 -1 99 56 0
21 1.58879 3 -9 9 5 2 -1 99 57 0
22 -6.36985 3 -9 9 5 9 -1 99 58 0
23 -7.66248 3 -10 10 -2 5 -1 99 59 0
24 -15 -3
#_male
#_size_sel:_5
25 42.5643 2 0.5 90 60 4 -1 99 60 0
26 -9 -3
27 3.80939 3 -9 9 5 2 -1 99 61 0
28 4.89772 3 -9 9 5 9 -1 99 62 0
29 -4.63763 3 -10 10 -2 5 -1 99 63 0
30 -999 -3
#_male
#_size_sel:_6
31 29.9673 2 0.5 70 60 4 -1 99 64 0
32 -9 -3
33 -4.82493 3 -9 9 5 2 -1 99 65 0
34 2.84761 3 -9 9 5 9 -1 99 66 0
35 -4.70611 3 -10 10 -2 5 -1 99 67 0
36 -15 -3
#_male
#_size_sel:_7
#_male
#_size_sel:_8
#_male
#_size_sel:_9
#_male
#_age_sel:_1
37 0 -2
38 15 -2
#_male
#_age_sel:_2
39 0 -2
40 15 -2
#_male
#_age_sel:_3
41 0 -2
42 15 -2
#_male
#_age_sel:_4
43 0 -2
44 15 -2
#_male
#_age_sel:_5

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45 0 -2
46 15 -2
#_male
#_age_sel:_6
47 0 -2
48 15 -2
#_male
#_age_sel:_7
49 2.41518 2 0 15 4 4 -1 99 68 0
50 -3 -3
51 0.672538 3 -9 9 2 2 -1 99 69 0
52 2 -3
53 -15 -2
54 15 -2
#_male
55 2 -5
56 0 -4
57 0 -4
58 0 -4
#_age_sel:_8
59 2.43197 2 0 15 4 4 -1 99 70 0
60 -9 -3
61 0.649506 3 -9 9 2 2 -1 99 71 0
62 3.87354 3 -9 9 2 9 -1 99 72 0
63 -15 -2
64 -999 -3
#_male
65 2 -5
66 0 -4
67 0 -4
68 0 -4
#_age_sel:_9
69 2.78635 2 0 15 4 4 -1 99 73 0
70 -9 -3
71 0.480917 3 -9 9 2 2 -1 99 74 0
72 2.97285 3 -9 9 2 9 -1 99 75 0
73 -15 -3
74 -999 -3
#_male
75 0 -5
76 0 -4
77 0 -4
78 0 -4
sel_parm_env_linkages
sel_parm_blockparms
79 47.1667 2 0.5 90 60 4 -1 99 76 0
80 3.8142 3 -9 9 5 2 -1 99 77 0
81 -10 -3
82 51.6208 2 0.5 90 60 4 -1 99 78 0
83 3.53032 3 -9 9 5 2 -1 99 79 0
84 -10 -3
85 49.4883 2 0.5 90 60 4 -1 99 80 0
86 5.11851 3 -9 9 5 2 -1 99 81 0
87 -6.37802 3 -10 10 -2 5 -1 99 82 0
88 48.8969 2 0.5 90 60 4 -1 99 83 0
89 3.43883 3 -9 9 5 2 -1 99 84 0
90 -8.08323 3 -10 10 -2 5 -1 99 85 0

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91 41.7491 2 0.5 90 60 4 -1 99 86 0
92 4.24017 3 -9 9 5 2 -1 99 87 0
93 -5.09092 3 -10 10 -2 5 -1 99 88 0
SEL_parm_devs
1_YR1982 -0.175973 - - - - - 89
1_YR1983 -0.34234 - - - - - 90
1_YR1984 -0.0457567 - - - - - 91
1_YR1985 -0.155218 - - - - - 92
1_YR1986 -0.102172 - - - - - 93
1_YR1987 -0.184222 - - - - - 94
1_YR1988 -0.130431 - - - - - 95
1_YR1989 -0.172459 - - - - - 96
1_YR1990 -0.202096 - - - - - 97
1_YR1991 -0.183697 - - - - - 98
1_YR1992 -0.168714 - - - - - 99
1_YR1993 -0.191016 - - - - - 100
1_YR1994 -0.192538 - - - - - 101
1_YR1995 -0.12495 - - - - - 102
1_YR1996 -0.116286 - - - - - 103
1_YR1997 0.0719709 - - - - - 104
1_YR1998 0.0832629 - - - - - 105
1_YR1999 0.0656802 - - - - - 106
1_YR2000 0.019612 - - - - - 107
1_YR2001 0.00774168 - - - - - 108
1_YR2002 -0.0621498 - - - - - 109
1_YR2003 -0.00748899 - - - - - 110
1_YR2004 -0.0260343 - - - - - 111
1_YR2005 0.140299 - - - - - 112
2_YR1982 0.0862504 - - - - - 113
2_YR1983 -0.101269 - - - - - 114
2_YR1984 0.361408 - - - - - 115
2_YR1985 0.0901511 - - - - - 116
2_YR1986 0.213155 - - - - - 117
2_YR1987 -0.0346965 - - - - - 118
2_YR1988 0.22933 - - - - - 119
2_YR1989 0.00388456 - - - - - 120
2_YR1990 -0.0697631 - - - - - 121
2_YR1991 -0.105463 - - - - - 122
2_YR1992 0.0811243 - - - - - 123
2_YR1993 -0.0648332 - - - - - 124
2_YR1994 -0.295422 - - - - - 125
2_YR1995 -0.6423 - - - - - 126
2_YR1996 -0.57857 - - - - - 127
2_YR1997 0.0290984 - - - - - 128
2_YR1998 -0.0042246 - - - - - 129
2_YR1999 -0.0580146 - - - - - 130
2_YR2000 -0.0531416 - - - - - 131
2_YR2001 0.0684086 - - - - - 132
2_YR2002 -0.2901 - - - - - 133
2_YR2003 -0.0550328 - - - - - 134
2_YR2004 -0.164041 - - - - - 135
2_YR2005 0.189142 - - - - - 136
3_YR1982 -0.0254776 - - - - - 137
3_YR1983 0.144703 - - - - - 138
3_YR1984 0.0396833 - - - - - 139
3_YR1985 0.0709323 - - - - - 140
3_YR1986 0.123579 - - - - - 141

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3_YR1987	0.189529	-	-	-	-	-	142
3_YR1988	0.221251	-	-	-	-	-	143
3_YR1989	0.146416	-	-	-	-	-	144
3_YR1990	0.119221	-	-	-	-	-	145
3_YR1991	-0.388859	-	-	-	-	-	146
3_YR1992	-0.426485	-	-	-	-	-	147
3_YR1993	-0.113714	-	-	-	-	-	148
3_YR1994	-0.438408	-	-	-	-	-	149
3_YR1995	-0.393084	-	-	-	-	-	150
3_YR1996	0.0870414	-	-	-	-	-	151
3_YR1997	0.0543888	-	-	-	-	-	152
3_YR1998	-0.0813417	-	-	-	-	-	153
3_YR1999	-0.00931533	-	-	-	-	-	154
3_YR2000	0.0590248	-	-	-	-	-	155
3_YR2001	0.0948423	-	-	-	-	-	156
3_YR2002	-0.0647606	-	-	-	-	-	157
3_YR2003	0.0250486	-	-	-	-	-	158
3_YR2004	0.00599583	-	-	-	-	-	159
3_YR2005	0.104284	-	-	-	-	-	160
4_YR1982	-0.44461	-	-	-	-	-	161
4_YR1983	-0.0224525	-	-	-	-	-	162
4_YR1984	-0.257595	-	-	-	-	-	163
4_YR1985	-0.207123	-	-	-	-	-	164
4_YR1986	0.12229	-	-	-	-	-	165
4_YR1987	-0.0910988	-	-	-	-	-	166
4_YR1988	-0.00726886	-	-	-	-	-	167
4_YR1989	0.1693	-	-	-	-	-	168
4_YR1990	0.440952	-	-	-	-	-	169
4_YR1991	0.45976	-	-	-	-	-	170
4_YR1992	0.276259	-	-	-	-	-	171
4_YR1993	-0.0709051	-	-	-	-	-	172
4_YR1994	0.100335	-	-	-	-	-	173
4_YR1995	-0.331326	-	-	-	-	-	174
4_YR1996	0.0265363	-	-	-	-	-	175
4_YR1997	0.0521734	-	-	-	-	-	176
4_YR1998	0.0460435	-	-	-	-	-	177
4_YR1999	0.0264947	-	-	-	-	-	178
4_YR2000	0.02528	-	-	-	-	-	179
4_YR2001	0.0260456	-	-	-	-	-	180
4_YR2002	0.0156502	-	-	-	-	-	181
4_YR2003	0.0162774	-	-	-	-	-	182
4_YR2004	0.0153179	-	-	-	-	-	183
4_YR2005	0.0179308	-	-	-	-	-	184
5_YR1982	0.157133	-	-	-	-	-	185
5_YR1983	0.052379	-	-	-	-	-	186
5_YR1984	0.0554412	-	-	-	-	-	187
5_YR1985	-0.0347044	-	-	-	-	-	188
5_YR1986	-0.0521167	-	-	-	-	-	189
5_YR1987	0.0286505	-	-	-	-	-	190
5_YR1988	-0.0682921	-	-	-	-	-	191
5_YR1989	0.042411	-	-	-	-	-	192
5_YR1990	0.0495177	-	-	-	-	-	193
5_YR1991	0.0777415	-	-	-	-	-	194
5_YR1992	-0.100762	-	-	-	-	-	195
5_YR1993	0.150271	-	-	-	-	-	196
5_YR1994	0.0977224	-	-	-	-	-	197
5_YR1995	0.00149963	-	-	-	-	-	198

5_YR1996	0.129065	-	-	-	-	-	199
5_YR1997	0.0302359	-	-	-	-	-	200
5_YR1998	0.354067	-	-	-	-	-	201
5_YR1999	0.0984541	-	-	-	-	-	202
5_YR2000	0.0158418	-	-	-	-	-	203
5_YR2001	0.126717	-	-	-	-	-	204
5_YR2002	0.0904988	-	-	-	-	-	205
5_YR2003	0.0423255	-	-	-	-	-	206
5_YR2004	0.0576968	-	-	-	-	-	207
5_YR2005	0.0613332	-	-	-	-	-	208
6_YR1982	0.00386277	-	-	-	-	-	209
6_YR1983	0.00691529	-	-	-	-	-	210
6_YR1984	-0.0124304	-	-	-	-	-	211
6_YR1985	0.0120812	-	-	-	-	-	212
6_YR1986	-0.0408676	-	-	-	-	-	213
6_YR1987	0.000653384	-	-	-	-	-	214
6_YR1988	0.0174465	-	-	-	-	-	215
6_YR1989	0.0357581	-	-	-	-	-	216
6_YR1990	0.0459931	-	-	-	-	-	217
6_YR1991	0.14939	-	-	-	-	-	218
6_YR1992	0.160419	-	-	-	-	-	219
6_YR1993	0.106973	-	-	-	-	-	220
6_YR1994	-0.0751243	-	-	-	-	-	221
6_YR1995	0.152135	-	-	-	-	-	222
6_YR1996	0.0835339	-	-	-	-	-	223
6_YR1997	0.070601	-	-	-	-	-	224
6_YR1998	0.0237511	-	-	-	-	-	225
6_YR1999	-0.0918813	-	-	-	-	-	226
6_YR2000	-0.0344111	-	-	-	-	-	227
6_YR2001	0.031572	-	-	-	-	-	228
6_YR2002	0.0253263	-	-	-	-	-	229
6_YR2003	-0.0108433	-	-	-	-	-	230
6_YR2004	0.0277691	-	-	-	-	-	231
6_YR2005	0.0244821	-	-	-	-	-	232
7_YR1989	0.129846	-	-	-	-	-	233
7_YR1990	-0.0398912	-	-	-	-	-	234
7_YR1991	0.153838	-	-	-	-	-	235
7_YR1992	-0.17901	-	-	-	-	-	236
7_YR1993	-0.189779	-	-	-	-	-	237
7_YR1994	0.124997	-	-	-	-	-	238
7_YR1995	0.149152	-	-	-	-	-	239
7_YR1996	-0.0386309	-	-	-	-	-	240
7_YR1997	-0.03563	-	-	-	-	-	241
7_YR1998	-0.0223442	-	-	-	-	-	242
7_YR1999	0.0468142	-	-	-	-	-	243
7_YR2000	-0.155324	-	-	-	-	-	244
7_YR2001	-0.0412657	-	-	-	-	-	245
7_YR2002	-0.0438499	-	-	-	-	-	246
7_YR2003	0.037418	-	-	-	-	-	247
7_YR2004	-0.132894	-	-	-	-	-	248
7_YR2005	-0.117623	-	-	-	-	-	249
8_YR1989	0.253863	-	-	-	-	-	250
8_YR1990	0.0307422	-	-	-	-	-	251
8_YR1991	0.185357	-	-	-	-	-	252
8_YR1992	-0.0360023	-	-	-	-	-	253
8_YR1993	-0.25826	-	-	-	-	-	254
8_YR1994	-0.175701	-	-	-	-	-	255

8_YR1995	0.0501757	-	-	-	-	-	256
8_YR1996	0.165152	-	-	-	-	-	257
8_YR1997	0.177927	-	-	-	-	-	258
8_YR1998	0.0267986	-	-	-	-	-	259
8_YR1999	0.105897	-	-	-	-	-	260
8_YR2000	-0.278489	-	-	-	-	-	261
8_YR2001	0.0446995	-	-	-	-	-	262
8_YR2002	0.0719096	-	-	-	-	-	263
8_YR2003	0.130105	-	-	-	-	-	264
8_YR2004	0.157504	-	-	-	-	-	265
8_YR2005	-0.536142	-	-	-	-	-	266
9_YR1994	0.610094	-	-	-	-	-	267
9_YR1995	0.0340429	-	-	-	-	-	268
9_YR1996	0.747137	-	-	-	-	-	269
9_YR1997	0.18744	-	-	-	-	-	270
9_YR1998	0.276188	-	-	-	-	-	271
9_YR1999	-0.125824	-	-	-	-	-	272
9_YR2000	0.482799	-	-	-	-	-	273
9_YR2001	-0.405332	-	-	-	-	-	274
9_YR2002	0.105848	-	-	-	-	-	275
9_YR2003	0.688768	-	-	-	-	-	276
9_YR2004	0.163014	-	-	-	-	-	277
9_YR2005	-0.330966	-	-	-	-	-	278
10_YR1994	0.170081	-	-	-	-	-	279
10_YR1995	0.209633	-	-	-	-	-	280
10_YR1996	0.109115	-	-	-	-	-	281
10_YR1997	0.110123	-	-	-	-	-	282
10_YR1998	-0.269585	-	-	-	-	-	283
10_YR1999	-0.127151	-	-	-	-	-	284
10_YR2000	-0.449212	-	-	-	-	-	285
10_YR2001	0.110709	-	-	-	-	-	286
10_YR2002	-0.287363	-	-	-	-	-	287
10_YR2003	0.0740431	-	-	-	-	-	288
10_YR2004	0.0956923	-	-	-	-	-	289
10_YR2005	0.0652192	-	-	-	-	-	290
11_YR1982	0.154007	-	-	-	-	-	291
11_YR1983	0.0471307	-	-	-	-	-	292
11_YR1984	-0.161355	-	-	-	-	-	293
11_YR1985	0.0535932	-	-	-	-	-	294
11_YR1986	0.0592585	-	-	-	-	-	295
11_YR1987	0.033068	-	-	-	-	-	296
11_YR1988	0.082915	-	-	-	-	-	297
11_YR1989	-0.13804	-	-	-	-	-	298
11_YR1990	0.0584392	-	-	-	-	-	299
11_YR1991	-0.0981757	-	-	-	-	-	300
11_YR1992	-0.0753897	-	-	-	-	-	301
11_YR1993	-0.163319	-	-	-	-	-	302
11_YR1994	0.0418251	-	-	-	-	-	303
11_YR1995	0.272895	-	-	-	-	-	304
11_YR1996	0.270985	-	-	-	-	-	305
11_YR1997	0.158301	-	-	-	-	-	306
11_YR1998	0.0957279	-	-	-	-	-	307
11_YR1999	0.0309743	-	-	-	-	-	308
11_YR2000	0.11316	-	-	-	-	-	309
11_YR2001	0.18009	-	-	-	-	-	310
11_YR2002	0.0810676	-	-	-	-	-	311
11_YR2003	0.0604747	-	-	-	-	-	312

11_YR2004	0.0749346	-	-	-	-	-	313
11_YR2005	0.0370176	-	-	-	-	-	314
12_YR1982	0.0114391	-	-	-	-	-	315
12_YR1983	-0.201813	-	-	-	-	-	316
12_YR1984	-0.652191	-	-	-	-	-	317
12_YR1985	0.00543968	-	-	-	-	-	318
12_YR1986	-0.0415606	-	-	-	-	-	319
12_YR1987	-0.0329614	-	-	-	-	-	320
12_YR1988	-0.167889	-	-	-	-	-	321
12_YR1989	0.0630357	-	-	-	-	-	322
12_YR1990	0.267101	-	-	-	-	-	323
12_YR1991	0.358056	-	-	-	-	-	324
12_YR1992	0.37229	-	-	-	-	-	325
12_YR1993	0.20091	-	-	-	-	-	326
12_YR1994	-0.115723	-	-	-	-	-	327
12_YR1995	-0.0329808	-	-	-	-	-	328
12_YR1996	0.0763537	-	-	-	-	-	329
12_YR1997	0.117511	-	-	-	-	-	330
12_YR1998	0.127692	-	-	-	-	-	331
12_YR1999	0.107933	-	-	-	-	-	332
12_YR2000	0.108678	-	-	-	-	-	333
12_YR2001	0.100186	-	-	-	-	-	334
12_YR2002	0.0657035	-	-	-	-	-	335
12_YR2003	0.07558	-	-	-	-	-	336
12_YR2004	-0.277394	-	-	-	-	-	337
12_YR2005	-0.0697492	-	-	-	-	-	338
13_YR1982	-2.79048e-011	-	-	-	-	-	339
13_YR1983	1.37e-010	-	-	-	-	-	340
13_YR1984	1.58696e-010	-	-	-	-	-	341
13_YR1985	-4.21064e-010	-	-	-	-	-	342
13_YR1986	-2.43739e-010	-	-	-	-	-	343
13_YR1987	1.85281e-010	-	-	-	-	-	344
13_YR1988	-1.90655e-010	-	-	-	-	-	345
13_YR1989	4.20314e-010	-	-	-	-	-	346
13_YR1990	-3.30534e-010	-	-	-	-	-	347
13_YR1991	3.79057e-009	-	-	-	-	-	348
13_YR1992	3.10344e-009	-	-	-	-	-	349
13_YR1993	2.66071e-009	-	-	-	-	-	350
13_YR1994	1.42503e-009	-	-	-	-	-	351
13_YR1995	-0.00423099	-	-	-	-	-	352
13_YR1996	-0.0152555	-	-	-	-	-	353
13_YR1997	-0.122245	-	-	-	-	-	354
13_YR1998	-0.382347	-	-	-	-	-	355
13_YR1999	-0.523448	-	-	-	-	-	356
13_YR2000	-0.406297	-	-	-	-	-	357
13_YR2001	-0.233557	-	-	-	-	-	358
13_YR2002	-0.334771	-	-	-	-	-	359
13_YR2003	-0.168816	-	-	-	-	-	360
13_YR2004	-0.376058	-	-	-	-	-	361
13_YR2005	0.143504	-	-	-	-	-	362
14_YR1982	-0.178003	-	-	-	-	-	363
14_YR1983	-0.106383	-	-	-	-	-	364
14_YR1984	-0.323935	-	-	-	-	-	365
14_YR1985	-0.0695495	-	-	-	-	-	366
14_YR1986	-0.0296917	-	-	-	-	-	367
14_YR1987	-0.0286506	-	-	-	-	-	368
14_YR1988	-0.221424	-	-	-	-	-	369

14_YR1989 0.131792 - - - - - 370
14_YR1990 0.00466206 - - - - - 371
14_YR1991 0.349646 - - - - - 372
14_YR1992 0.334298 - - - - - 373
14_YR1993 0.305252 - - - - - 374
14_YR1994 -0.10812 - - - - - 375
14_YR1995 0.205496 - - - - - 376
14_YR1996 0.24376 - - - - - 377
14_YR1997 0.251698 - - - - - 378
14_YR1998 0.395844 - - - - - 379
14_YR1999 -0.357326 - - - - - 380
14_YR2000 0.378322 - - - - - 381
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14_YR2002 -0.388016 - - - - - 383
14_YR2003 -0.24349 - - - - - 384
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14_YR2005 -0.109119 - - - - - 386
Forecast_Recr_Devs
2008 8.88178e-016 - - - - - 387
2009 0 - - - - - 388

Selex_Block_Assignments Years:

Base_parm# 1976 1977 1978 1979 1980 1981 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 2007 2008
1 0 79 79 79 79 79 79 79 79 79 79 79 79 79 79
79 0
3 0 80 80 80 80 80 80 80 80 80 80 80 80 80 80
80 0
5 0 81 81 81 81 81 81 81 81 81 81 81 81 81 81
81 0
7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 82 82 82 82 82 82 82 82 82 82 82 82 82 82 82 82 82 82 82
82 82 82 0
9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 83 83 83 83 83 83 83 83 83 83 83 83 83 83 83 83 83 83 83
83 83 83 0
11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84 84
84 84 84 0
13 0 85 85 85 85 85 85 85 85 85 85 85 85 85 85
85 0
15 0 86 86 86 86 86 86 86 86 86 86 86 86 86 86
86 0
17 0 87 87 87 87 87 87 87 87 87 87 87 87 87 87
87 0
25 0 88 88 88 88 88 88 88 88 88 88 88 88 88 88
88 0
27 0 89 89 89 89 89 89 89 89 89 89 89 89 89 89
89 0
29 0 90 90 90 90 90 90 90 90 90 90 90 90 90 90
90 0
31 0 91 91 91 91 91 91 91 91 91 91 91 91 91 91
91 0
33 0 92 92 92 92 92 92 92 92 92 92 92 92 92 92
92 0
35 0 93 93 93 93 93 93 93 93 93 93 93 93 93 93
93 0

RECR_DIST

G_pattern gender Seas Area Value Used?

1 1 1 1 0.4 1
1 2 1 1 0.6 1

MOVEMENT

Seas Source Dist 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

SUBMORPHDIST 1

MGparm_By_Year_after_adjustments

Year

1976	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1977	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1978	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1979	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1980	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1981	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1982	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1983	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1984	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1985	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1986	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1987	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1988	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1989	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1990	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1991	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1992	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1993	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1994	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1995	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1996	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1997	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1
1998	0.287429	0	29.61	62.12	0.200667	0.001	0	0.631743	0	-0.0243857	-0.155104	0.0619715	0	0	2.44e-006	3.34694	28.1	-0.25	1	0	2.44e-006	3.34694	0	0	4	1

```

1999 0.287429 0 29.61 62.12 0.200667 0.001 0 0.631743 0 -0.0243857 -0.155104
0.0619715 0 0 2.44e-006 3.34694 28.1 -0.25 1 0 2.44e-006 3.34694 0 0 4 1
2000 0.287429 0 29.61 62.12 0.200667 0.001 0 0.631743 0 -0.0243857 -0.155104
0.0619715 0 0 2.44e-006 3.34694 28.1 -0.25 1 0 2.44e-006 3.34694 0 0 4 1
2001 0.287429 0 29.61 62.12 0.200667 0.001 0 0.631743 0 -0.0243857 -0.155104
0.0619715 0 0 2.44e-006 3.34694 28.1 -0.25 1 0 2.44e-006 3.34694 0 0 4 1
2002 0.287429 0 29.61 62.12 0.200667 0.001 0 0.631743 0 -0.0243857 -0.155104
0.0619715 0 0 2.44e-006 3.34694 28.1 -0.25 1 0 2.44e-006 3.34694 0 0 4 1
2003 0.287429 0 29.61 62.12 0.200667 0.001 0 0.631743 0 -0.0243857 -0.155104
0.0619715 0 0 2.44e-006 3.34694 28.1 -0.25 1 0 2.44e-006 3.34694 0 0 4 1
2004 0.287429 0 29.61 62.12 0.200667 0.001 0 0.631743 0 -0.0243857 -0.155104
0.0619715 0 0 2.44e-006 3.34694 28.1 -0.25 1 0 2.44e-006 3.34694 0 0 4 1
2005 0.287429 0 29.61 62.12 0.200667 0.001 0 0.631743 0 -0.0243857 -0.155104
0.0619715 0 0 2.44e-006 3.34694 28.1 -0.25 1 0 2.44e-006 3.34694 0 0 4 1
2006 0.287429 0 29.61 62.12 0.200667 0.001 0 0.631743 0 -0.0243857 -0.155104
0.0619715 0 0 2.44e-006 3.34694 28.1 -0.25 1 0 2.44e-006 3.34694 0 0 4 1
2007 0.287429 0 29.61 62.12 0.200667 0.001 0 0.631743 0 -0.0243857 -0.155104
0.0619715 0 0 2.44e-006 3.34694 28.1 -0.25 1 0 2.44e-006 3.34694 0 0 4 1
2008 0.287429 0 29.61 62.12 0.200667 0.001 0 0.631743 0 -0.0243857 -0.155104
0.0619715 0 0 2.44e-006 3.34694 28.1 -0.25 1 0 2.44e-006 3.34694 0 0 4 1

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SELparm(Size)_By_Year_after_adjustments

Fleet/Svy Year

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1 1976 50.6893 -9 3.19152 5.72156 -5.35014 -999
1 1982 42.5101 -9 3.47901 5.57762 -3.42984 -999
1 1983 35.9948 -9 2.88414 6.61238 -5.23136 -999
1 1984 48.4221 -9 4.58094 5.95317 -4.13517 -999
1 1985 43.4016 -9 3.49261 6.14214 -4.34923 -999
1 1986 45.766 -9 3.94975 6.47416 -6.04609 -999
1 1987 42.1609 -9 3.08268 6.91553 -4.88429 -999
1 1988 44.4908 -9 4.01416 7.13842 -5.31139 -999
1 1989 42.6597 -9 3.20394 6.62372 -6.33711 -999
1 1990 41.4139 -9 2.97646 6.44601 -8.31512 -999
1 1991 42.183 -9 2.87207 3.87824 -8.47298 -999
1 1992 42.8198 -9 3.46122 3.73503 -7.0525 -999
1 1993 41.8754 -9 2.99117 5.10656 -4.98393 -999
1 1994 41.8117 -9 2.37518 3.69076 -5.9148 -999
1 1995 41.6266 -9 2.00658 3.86189 -7.17971 -999
1 1996 41.9888 -9 2.13862 6.24188 -10.2689 -999
1 1997 50.6865 -9 3.92682 6.04136 -10.5356 -999
1 1998 51.2621 -9 3.79812 5.27458 -10.4712 -999
1 1999 50.3687 -9 3.59922 5.6685 -10.2685 -999
1 2000 48.1009 -9 3.6168 6.06943 -10.256 -999
1 2001 47.5333 -9 4.08426 6.29077 -10.2639 -999
1 2002 44.3246 -9 2.85374 5.36277 -10.1577 -999
1 2003 46.8148 -9 3.60996 5.86668 -10.1641 -999
1 2004 45.9546 -9 3.23714 5.75596 -10.1544 -999
1 2005 54.2709 -9 4.60836 6.35045 -10.1809 -999
1 2006 47.1667 -9 3.8142 5.72156 -10 -999
1 2008 50.6893 -9 3.19152 5.72156 -5.35014 -999
2 1976 44.7042 -9 4.18341 4.55032 -10 -999
2 1982 44.7042 -9 4.89522 4.55032 -10.0387 -999
2 1983 44.7042 -9 4.40837 4.55032 -10.0694 -999
2 1984 44.7042 -9 4.42189 4.55032 -9.87647 -999
2 1985 44.7042 -9 4.04072 4.55032 -10.1215 -999
2 1986 44.7042 -9 3.97097 4.55032 -9.59956 -999
2 1987 44.7042 -9 4.305 4.55032 -10.0065 -999

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2	1988	44.7042	-9	3.90725	4.55032	-10.176	-999
2	1989	51.6208	-9	3.68327	4.55032	-10.3641	-999
2	1990	51.6208	-9	3.70953	4.55032	-10.4707	-999
2	1991	51.6208	-9	3.81572	4.55032	-11.6113	-999
2	1992	51.6208	-9	3.19193	4.55032	-11.74	-999
2	1993	51.6208	-9	4.10276	4.55032	-11.129	-999
2	1994	51.6208	-9	3.89273	4.55032	-9.27628	-999
2	1995	51.6208	-9	3.53562	4.55032	-11.6432	-999
2	1996	51.6208	-9	4.01667	4.55032	-10.8712	-999
2	1997	51.6208	-9	3.63869	4.55032	-10.7315	-999
2	1998	51.6208	-9	5.03018	4.55032	-10.2404	-999
2	1999	51.6208	-9	3.89558	4.55032	-9.12213	-999
2	2000	51.6208	-9	3.58669	4.55032	-9.66174	-999
2	2001	51.6208	-9	4.00725	4.55032	-10.3208	-999
2	2002	51.6208	-9	3.86471	4.55032	-10.2565	-999
2	2003	51.6208	-9	3.68295	4.55032	-9.89215	-999
2	2004	51.6208	-9	3.74	4.55032	-10.2816	-999
2	2005	51.6208	-9	3.75362	4.55032	-10.2478	-999
2	2006	51.6208	-9	3.53032	4.55032	-10	-999
2	2008	44.7042	-9	4.18341	4.55032	-10	-999
3	1976	29.6876	-9	-4.31897	4.50078	-2.37533	-15
3	1989	29.6876	-9	-4.9178	4.50078	-3.06179	-15
3	1990	29.6876	-9	-4.15007	4.50078	-2.44949	-15
3	1991	29.6876	-9	-5.03722	4.50078	-2.85906	-15
3	1992	29.6876	-9	-3.61108	4.50078	-2.29133	-15
3	1993	29.6876	-9	-3.5724	4.50078	-1.83469	-15
3	1994	29.6876	-9	-4.89402	4.50078	-1.99259	-15
3	1995	49.4883	-9	5.94182	4.50078	-6.70621	-15
3	1996	49.4883	-9	4.92455	4.50078	-7.52334	-15
3	1997	49.4883	-9	4.93935	4.50078	-7.62007	-15
3	1998	49.4883	-9	5.00541	4.50078	-6.55126	-15
3	1999	49.4883	-9	5.36383	4.50078	-7.0905	-15
3	2000	49.4883	-9	4.38215	4.50078	-4.8277	-15
3	2001	49.4883	-9	4.91159	4.50078	-6.66959	-15
3	2002	49.4883	-9	4.89892	4.50078	-6.85356	-15
3	2003	49.4883	-9	5.31366	4.50078	-7.26424	-15
3	2004	49.4883	-9	4.48155	4.50078	-7.46602	-15
3	2005	49.4883	-9	4.55052	4.50078	-3.73115	-15
3	2006	49.4883	-9	5.11851	4.50078	-6.37802	-15
3	2008	29.6876	-9	-4.31897	4.50078	-2.37533	-15
4	1976	40.9342	-0.4361	1.58879	-6.36985	-7.66248	-15
4	1994	40.9342	-0.4361	2.92433	-6.36985	-9.08311	-15
4	1995	40.9342	-0.4361	1.64381	-6.36985	-9.44956	-15
4	1996	40.9342	-0.4361	3.35385	-6.36985	-8.5459	-15
4	1997	40.9342	-0.4361	1.91633	-6.36985	-8.55451	-15
4	1998	40.9342	-0.4361	2.09417	-6.36985	-5.85181	-15
4	1999	40.9342	-0.4361	1.40095	-6.36985	-6.74758	-15
4	2000	40.9342	-0.4361	2.5748	-6.36985	-4.88967	-15
4	2001	40.9342	-0.4361	1.05933	-6.36985	-8.55953	-15
4	2002	40.9342	-0.4361	1.76618	-6.36985	-5.7487	-15
4	2003	40.9342	-0.4361	3.16369	-6.36985	-8.25137	-15
4	2004	40.9342	-0.4361	1.87009	-6.36985	-8.43195	-15
4	2005	40.9342	-0.4361	1.14112	-6.36985	-8.17888	-15
4	2006	40.9342	-0.4361	1.58879	-6.36985	-7.66248	-15
5	1976	42.5643	-9	3.80939	4.89772	-4.63763	-999
5	1982	42.5643	-9	4.44364	4.89772	-4.69098	-999
5	1983	42.5643	-9	3.99322	4.89772	-3.79009	-999

5	1984	42.5643	-9	3.24175	4.89772	-2.41575	-999
5	1985	42.5643	-9	4.01911	4.89772	-4.66292	-999
5	1986	42.5643	-9	4.04195	4.89772	-4.44883	-999
5	1987	42.5643	-9	3.93746	4.89772	-4.48726	-999
5	1988	42.5643	-9	4.13871	4.89772	-3.92087	-999
5	1989	42.5643	-9	3.31822	4.89772	-4.93937	-999
5	1990	42.5643	-9	4.03864	4.89772	-6.05754	-999
5	1991	42.5643	-9	3.45317	4.89772	-6.63433	-999
5	1992	42.5643	-9	3.53276	4.89772	-6.72944	-999
5	1993	42.5643	-9	3.23539	4.89772	-5.66957	-999
5	1994	42.5643	-9	3.97209	4.89772	-4.13083	-999
5	1995	48.8969	-9	4.5178	4.89772	-7.82098	-999
5	1996	48.8969	-9	4.50918	4.89772	-8.72458	-999
5	1997	48.8969	-9	4.02865	4.89772	-9.09116	-999
5	1998	48.8969	-9	3.78429	4.89772	-9.18418	-999
5	1999	48.8969	-9	3.54701	4.89772	-9.00449	-999
5	2000	48.8969	-9	3.85084	4.89772	-9.0112	-999
5	2001	48.8969	-9	4.11739	4.89772	-8.93501	-999
5	2002	48.8969	-9	3.72922	4.89772	-8.63216	-999
5	2003	48.8969	-9	3.65321	4.89772	-8.71784	-999
5	2004	48.8969	-9	3.70642	4.89772	-6.12511	-999
5	2005	48.8969	-9	3.56851	4.89772	-7.53864	-999
5	2006	48.8969	-9	3.43883	4.89772	-8.08323	-999
5	2008	42.5643	-9	3.80939	4.89772	-4.63763	-999
6	1976	29.9673	-9	-4.82493	2.84761	-4.70611	-15
6	1982	29.9673	-9	-4.82493	2.84761	-3.93873	-15
6	1983	29.9673	-9	-4.82493	2.84761	-4.23117	-15
6	1984	29.9673	-9	-4.82493	2.84761	-3.40391	-15
6	1985	29.9673	-9	-4.82493	2.84761	-4.38992	-15
6	1986	29.9673	-9	-4.82493	2.84761	-4.56843	-15
6	1987	29.9673	-9	-4.82493	2.84761	-4.57319	-15
6	1988	29.9673	-9	-4.82493	2.84761	-3.77136	-15
6	1989	29.9673	-9	-4.82493	2.84761	-5.36906	-15
6	1990	29.9673	-9	-4.82493	2.84761	-4.7281	-15
6	1991	29.9673	-9	-4.82493	2.84761	-6.67592	-15
6	1992	29.9673	-9	-4.82493	2.84761	-6.57424	-15
6	1993	29.9673	-9	-4.82493	2.84761	-6.38603	-15
6	1994	29.9673	-9	-4.82493	2.84761	-4.22382	-15
6	1995	41.7491	-9	4.22227	2.84761	-6.25233	-15
6	1996	41.7491	-9	4.17597	2.84761	-6.49621	-15
6	1997	41.7491	-9	3.75226	2.84761	-6.54798	-15
6	1998	41.7491	-9	2.89289	2.84761	-7.56326	-15
6	1999	41.7491	-9	2.51219	2.84761	-3.56132	-15
6	2000	41.7491	-9	2.82443	2.84761	-7.43189	-15
6	2001	41.7491	-9	3.357	2.84761	-7.33845	-15
6	2002	41.7491	-9	3.03385	2.84761	-3.45369	-15
6	2003	41.7491	-9	3.58152	2.84761	-3.99071	-15
6	2004	41.7491	-9	2.91114	2.84761	-3.61157	-15
6	2005	41.7491	-9	4.89448	2.84761	-4.56464	-15
6	2006	41.7491	-9	4.24017	2.84761	-5.09092	-15
6	2008	29.9673	-9	-4.82493	2.84761	-4.70611	-15

SELParm(Age)_By_Year_after_adjustments

Fleet/Svy Year

1	1976	0	15
2	1976	0	15
3	1976	0	15

4 1976 0 15
5 1976 0 15
6 1976 0 15
7 1976 2.41518 -3 0.672538 2 -15 15 2 0 0 0
8 1976 2.43197 -9 0.649506 3.87354 -15 -999 2 0 0 0
9 1976 2.78635 -9 0.480917 2.97285 -15 -999 0 0 0 0

EXPLOITATION Hrate_is_Continuous_F Fleet_in_columns;_year_in_rows

yr seas 1 2 3 4 5 6

init_yr 1 0.723782 0 0 0 0

1976 1 0.595971 0.120504 0 0 0.182746 0.102763
1977 1 0.452968 0.138043 0 0 0.198743 0.105532
1978 1 0.395394 0.164894 0 0 0.237205 0.129656
1979 1 0.677546 0.309978 0 0 0.307296 0.162542
1980 1 0.797017 0.407128 0 0 0.487191 0.240901
1981 1 1.19887 0.256098 0 0 0.544173 0.12646
1982 1 0.424346 0.132745 0 0 0.378628 0.105932
1983 1 0.326181 0.154116 0 0 0.531414 0.127548
1984 1 0.693828 0.279954 0 0 0.45092 0.125526
1985 1 0.678355 0.261015 0 0 0.314138 0.0492914
1986 1 0.774488 0.220651 0 0 0.509996 0.246336
1987 1 0.719672 0.160732 0 0 0.344301 0.218477
1988 1 1.07617 0.31822 0 0 0.516052 0.217432
1989 1 1.0867 1.09132 0.255945 0 0.281522 0.0906378
1990 1 0.515997 1.01208 0.227523 0 0.359813 0.190948
1991 1 0.858567 0.984552 0.177143 0 0.543683 0.320465
1992 1 1.10926 1.19904 0.0821956 0 0.446145 0.220269
1993 1 0.66306 0.53421 0.0903016 0 0.608194 0.516314
1994 1 1.08322 0.675482 0.0586221 0.0508671 0.445836 0.454459
1995 1 0.648218 0.922569 0.0100902 0.0230672 0.319993 0.0571902
1996 1 0.301136 0.3308 0.0238882 0.00497588 0.346589 0.0330267
1997 1 0.296031 0.0876328 0.0108111 0.00358307 0.386893 0.0245901
1998 1 0.2913 0.0577801 0.00926402 0.00475925 0.359291 0.0387428
1999 1 0.201478 0.0738002 0.0337539 0.0125848 0.191532 0.0356813
2000 1 0.124894 0.0817649 0.0198297 0.00363208 0.29149 0.0442511
2001 1 0.102031 0.0523412 0.00643927 0.00760591 0.174506 0.0547021
2002 1 0.140309 0.0731754 0.0081662 0.00413942 0.122098 0.0344671
2003 1 0.123994 0.0630334 0.0104415 0.00198174 0.170471 0.0343858
2004 1 0.158974 0.0813588 0.00487777 0.00207774 0.150939 0.0505257
2005 1 0.169467 0.0725086 0.00457958 0.00259278 0.164474 0.0372862
2006 1 0.119758 0.0771549 0.00614518 0.00237909 0.17651 0.0384431
2007 1 0.105255 0.0547262 0.0077552 0.00349481 0.178589 0.0899916
2008 1 0.146586 0.076877 0.0490183 0.00559261 0.279572 1.78441
2009 1 0.102961 0.0539981 0.0344302 0.00392823 0.19637 1.25336

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 1974 VIRG 1 169294 160562 125895 70165.5 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 125895
1 1975 INIT 1 70507.6 62115.1 38034.2 67436.6 15955.4 15955.4 15955.4 10000
0.723782 0 38034.2

1 1976 TIME 1 73637.2 63897.1 38600.2 78264.9 11175.1 11175.1 11175.1 10769.5
0.595971 4459.51 4459.51 4459.51 4367.04 0.120504 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7075.59
7075.59 7075.59 6850.4 0.182746 273.052 273.052 273.052 276.45 0.102763 38805
1 1977 TIME 1 68514.9 60135.1 35362.7 67335 9016.7 9016.7 9016.7 8889.22
0.452968 4594.56 4594.56 4594.56 4686.84 0.138043 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 6889.46
6889.46 6889.46 7086.62 0.198743 285.311 285.311 285.311 285.983 0.105532
36636.5
1 1978 TIME 1 63147.1 56065.1 33530.6 56905.9 7489.51 7489.51 7489.51 8059.54
0.395394 4888.77 4888.77 4888.77 4908.21 0.164894 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7342.06
7342.06 7342.06 7339.71 0.237205 297.802 297.802 297.802 296.197 0.129656
34607.1
1 1979 TIME 1 54855.8 49854.5 30479.3 40187.4 10221.8 10221.8 10221.8 10650.2
0.677546 7032.37 7032.37 7032.37 7296.09 0.309978 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7306.71
7306.71 7306.71 7611.56 0.307296 302.38 302.38 302.38 307.167 0.162542
31239.5
1 1980 TIME 1 45530.2 35193.8 21425.8 83056.9 7359.24 7359.24 7359.24 7972.9
0.797017 5916.5 5916.5 5916.5 6188.79 0.407128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7490.68
7490.68 7490.68 7904.31 0.487191 318.945 318.945 318.945 318.981 0.240901
22997
1 1981 TIME 1 42952.7 32244.1 17936.1 86047.5 5730.28 5730.28 5730.28 6168.38
1.19887 3334.65 3334.65 3334.65 3383.58 0.256098 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 8030.7
8030.7 8030.7 8220.48 0.544173 334.222 334.222 334.222 331.74 0.12646 19563.8
1 1982 TIME 1 48837.1 35485.2 18602.4 107287 7904.02 7904.02 7904.02 7536
0.424346 2905.74 2905.74 2905.74 2864 0.132745 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 8637.11
8637.11 8637.11 8267 0.378628 297.044 297.044 297.044 296 0.105932 20631.8
1 1983 TIME 1 54094.4 40957.1 21664.9 105562 9740.43 9740.43 9740.43 10201
0.326181 3159.47 3159.47 3159.47 3201 0.154116 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 11804.4
11804.4 11804.4 12687 0.531414 379.477 379.477 379.477 376 0.127548 23661.8
1 1984 TIME 1 48928.3 41474.8 22439.4 59891.7 11287.9 11287.9 11287.9 11455
0.693828 5459.4 5459.4 5459.4 5674 0.279954 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 8124.75
8124.75 8124.75 8512 0.45092 415.59 415.59 415.59 415 0.125526 23572.3
1 1985 TIME 1 42851.1 32856.5 17557.3 80310.1 10762.2 10762.2 10762.2 10767
0.678355 3868.25 3868.25 3868.25 3907 0.261015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 5556.91
5556.91 5556.91 5665 0.314138 92.1642 92.1642 92.1642 92 0.0492914 19076.4
1 1986 TIME 1 41503 31640.1 16551.5 79251.2 9112.71 9112.71 9112.71 9500
0.774488 2634.47 2634.47 2634.47 2687 0.220651 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 8088.58
8088.58 8088.58 8102 0.509996 594.386 594.386 594.386 578 0.246336 18050.6
1 1987 TIME 1 37931.4 30713.3 15734.3 58000 10107.3 10107.3 10107.3 9945
0.719672 2311.57 2311.57 2311.57 2326 0.160732 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 5509.26
5509.26 5509.26 5519 0.344301 528.127 528.127 528.127 522 0.218477 16831.5
1 1988 TIME 1 29650.4 27583 14181.1 16612.2 12067.3 12067.3 12067.3 11616
1.07617 3060.85 3060.85 3060.85 3071 0.31822 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 6534.14
6534.14 6534.14 6634 0.516052 344.025 344.025 344.025 341 0.217432 14495.4
1 1989 TIME 1 17405.3 12140.6 6192.17 42303.9 5649.64 5649.64 5649.64 6218
1.0867 1787.57 1787.57 1787.57 1908 1.09132 718.894 718.894 718.894 709
0.255945 0 0 0 0 0 1393.07 1393.07 1393.07 1435 0.281522 45.2256 45.2256
45.2256 45 0.0906378 6992.41
1 1990 TIME 1 18307.5 12084 5787.36 50008 2659.89 2659.89 2659.89 2962
0.515997 962.18 962.18 962.18 1237 1.01208 1349.21 1349.21 1349.21 1214
0.227523 0 0 0 0 0 2311.96 2311.96 2311.96 2329 0.359813 241.63 241.63 241.63
234 0.190948 6733.33
1 1991 TIME 1 23405.4 16322.6 7973.46 56913.3 4564.8 4564.8 4564.8 4629
0.858567 1351.05 1351.05 1351.05 1595 0.984552 1147.33 1147.33 1147.33 1052
0.177143 0 0 0 0 0 3617.09 3617.09 3617.09 3611 0.543683 457.311 457.311
457.311 429 0.320465 9050.05
1 1992 TIME 1 26815 18986.9 9121.77 62901.7 7857.21 7857.21 7857.21 6361
1.10926 1017.97 1017.97 1017.97 1168 1.19904 721.802 721.802 721.802 690

0.0821956 0 0 0 0 0 3511.1 3511.1 3511.1 3242 0.446145 360.771 360.771
 360.771 344 0.220269 10311.6
 1 1993 TIME 1 26974.2 20875.4 9838.36 49006 5580.8 5580.8 5580.8 4401 0.66306
 1332.53 1332.53 1332.53 1313 0.53421 865.506 865.506 865.506 846 0.0903016 0
 0 0 0 0 4951.42 4951.42 4951.42 4006 0.608194 947.107 947.107 947.107 910
 0.516314 10765.4
 1 1994 TIME 1 27644.6 20015.5 9723.95 61302.2 6639.75 6639.75 6639.75 4969
 1.08322 1627.02 1627.02 1627.02 1620 0.675482 434.959 434.959 434.959 434
 0.0586221 475.364 475.364 475.364 472 0.0508671 4570.43 4570.43 4570.43 4231
 0.445836 703.221 703.221 703.221 687 0.454459 10883.6
 1 1995 TIME 1 31163.1 20452.4 9985.89 86064.1 3968.62 3968.62 3968.62 4911
 0.648218 1630.38 1630.38 1630.38 2066 0.922569 138.145 138.145 138.145 138
 0.0100902 168.186 168.186 168.186 170 0.0230672 2249.22 2249.22 2249.22 2459
 0.319993 769.961 769.961 769.961 752 0.0571902 11613.9
 1 1996 TIME 1 40070.9 31878.6 15857.5 65827.7 3915.07 3915.07 3915.07 3947
 0.301136 1692.48 1692.48 1692.48 1913 0.3308 355.796 355.796 355.796 355
 0.0238882 108.313 108.313 108.313 108 0.00497588 4333.67 4333.67 4333.67 4454
 0.346589 706.866 706.866 706.866 681 0.0330267 17102.8
 1 1997 TIME 1 47258.2 38624.7 20363.8 69372.8 3374.12 3374.12 3374.12 3313
 0.296031 673.962 673.962 673.962 681 0.0876328 240.434 240.434 240.434 239
 0.0108111 86.2928 86.2928 86.2928 86 0.00358307 6154.74 6154.74 6154.74 5382
 0.386893 570.02 570.02 570.02 556 0.0245901 21676.1
 1 1998 TIME 1 55123.8 45340.2 24546.4 78614.4 4127.67 4127.67 4127.67 3730
 0.2913 1380.56 1380.56 1380.56 1346 0.0577801 255.138 255.138 255.138 254
 0.00926402 135.447 135.447 135.447 135 0.00475925 6787.05 6787.05 6787.05
 5659 0.359291 741.571 741.571 741.571 734 0.0387428 26033.5
 1 1999 TIME 1 59112.3 51424.7 28441.7 61773 3763.53 3763.53 3763.53 3551
 0.201478 1297.52 1297.52 1297.52 1271 0.0738002 1182.3 1182.3 1182.3 1181
 0.0337539 367.901 367.901 367.901 367 0.0125848 4020.34 4020.34 4020.34 3795
 0.191532 707.321 707.321 707.321 711 0.0356813 29610.2
 1 2000 TIME 1 65313.7 56319.2 32751.1 72273.6 3657.11 3657.11 3657.11 3564
 0.124894 1560.75 1560.75 1560.75 1521 0.0817649 593.524 593.524 593.524 592
 0.0198297 134.001 134.001 134.001 134 0.00363208 7939.37 7939.37 7939.37 7470
 0.29149 939.293 939.293 939.293 952 0.0442511 34118.3
 1 2001 TIME 1 67734 58790.4 34849.3 71864.7 3699.76 3699.76 3699.76 3705
 0.102031 1290.86 1290.86 1290.86 1265 0.0523412 229.794 229.794 229.794 230
 0.00643927 237.006 237.006 237.006 238 0.00760591 5364.32 5364.32 5364.32
 5279 0.174506 1207.48 1207.48 1207.48 1274 0.0547021 36208.7
 1 2002 TIME 1 72871.3 63763.5 39099.3 73184.4 4625.61 4625.61 4625.61 4723
 0.140309 1868.09 1868.09 1868.09 1850 0.0731754 306.511 306.511 306.511 307
 0.0081662 141.793 141.793 141.793 142 0.00413942 3634.43 3634.43 3634.43 3632
 0.122098 768.918 768.918 768.918 777 0.0344671 40483.7
 1 2003 TIME 1 75635 69212.8 43582.6 51604.4 4820.88 4820.88 4820.88 4835
 0.123994 1609.67 1609.67 1609.67 1614 0.0630334 444.34 444.34 444.34 445
 0.0104415 82.9877 82.9877 82.9877 83 0.00198174 5254.48 5254.48 5254.48 5279
 0.170471 879.156 879.156 879.156 882 0.0343858 44558.8
 1 2004 TIME 1 77075.7 68279.6 44377.6 70679.9 6062.31 6062.31 6062.31 6036
 0.158974 2163.8 2163.8 2163.8 2193 0.0813588 169.967 169.967 169.967 170
 0.00487777 74.017 74.017 74.017 74 0.00207774 4793.74 4793.74 4793.74 4831
 0.150939 1044.07 1044.07 1044.07 1034 0.0505257 45714.6
 1 2005 TIME 1 72282.6 68388 44595.1 31294.5 5838.54 5838.54 5838.54 5984
 0.169467 1829 1829 1829 1841 0.0725086 152.922 152.922 152.922 153 0.00457958
 76.9755 76.9755 76.9755 77 0.00259278 4675.1 4675.1 4675.1 4724 0.164474
 988.022 988.022 988.022 999 0.0372862 45187.1
 1 2006 TIME 1 64881.1 61831 41537.1 24508.7 4323.21 4323.21 4323.21 4481
 0.119758 1761.93 1761.93 1761.93 1781 0.0771549 213.499 213.499 213.499 214

0.00614518 73.9008 73.9008 73.9008 74 0.00237909 4810.2 4810.2 4810.2 4992
0.17651 784.395 784.395 784.395 795 0.0384431 42000.8
1 2007 TIME 1 55966 53457.5 37275.3 20156.4 3227.7 3227.7 3227.7 3279
0.105255 1200.54 1200.54 1200.54 1211 0.0547262 219.77 219.77 219.77 220
0.0077552 83.9611 83.9611 83.9611 84 0.00349481 4330.67 4330.67 4330.67 4445
0.178589 1131.91 1131.91 1131.91 1130 0.0899916 37656.6
1 2008 TIME 1 52398 45104.3 32757 58607.2 3279 3279 3279 3279 0.146586 1211
1211 1211 1211 0.076877 220 220 220 220 0.0490183 84 84 84 84 0.00559261 4445
4445 4445 4445 0.279572 1130 1130 1130 1130 1.78441 33865.6
1 2009 FORE 1 52385.1 43653 32588.8 70165.5 1686.62 1686.62 1686.62 1686.62
0.102961 623.303 623.303 623.303 623.303 623.303 0.0539981 514.627 514.627 514.627
514.627 0.0344302 35.6132 35.6132 35.6132 35.6132 0.00392823 2297.71 2297.71
2297.71 2297.71 0.19637 11587.2 11587.2 11587.2 11587.2 1.25336 32588.8

SPR_series uses_R0= 70165.5 ###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 aveF-2 maxF-1 maxF-2
1976 57645.9 48913.8 125895 29699.3 0.423275 0.235906 0.244023 0.380641 +
73637.2 63897.1 22983.3 22983.3 22983.3 38600.2 78264.9 0.312115 + 0.29812
0.522346 0.794787 0.804949
1977 59599.1 50867 125895 31751.4 0.452522 0.252207 0.238633 0.418809 +
68514.9 60135.1 20786 20786 20786 35362.7 67335 0.30338 + 0.246158 0.435314
0.674094 0.697938
1978 57726.5 48994.4 125895 30729.8 0.437962 0.244092 0.238203 0.43384 +
63147.1 56065.1 20018.1 20018.1 20018.1 33530.6 56905.9 0.317008 + 0.234818
0.419158 0.659411 0.69658
1979 45272 36539.9 125895 21031 0.299735 0.167053 0.250179 0.353537 +
54855.8 49854.5 24863.3 24863.3 24863.3 30479.3 40187.4 0.453247 + 0.388711
0.69124 1.08718 1.14079
1980 38767.2 30035.1 125895 16681.3 0.237742 0.132502 0.250605 0.320266 +
45530.2 35193.8 21085.4 21085.4 21085.4 21425.8 83056.9 0.463107 + 0.488424
0.874038 1.3873 1.47545
1981 39166.6 30434.5 125895 16564.3 0.236075 0.131573 0.251742 0.244391 +
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1.11707 1.71882 1.76717
1982 41473.6 32741.5 125895 20111.8 0.286634 0.159751 0.235419 0.505582 +
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0.410864 0.919041 0.919041
1983 37586.6 28854.5 125895 17607.2 0.250939 0.139857 0.238694 0.486154 +
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0.457168 0.96694 0.973983
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 0.224993 0.374696 0.374267
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 0.213252 0.343648 0.348872

2008 26736.1 18004 125895 10039.8 0.143088 0.079748 0.232392 0.477942 +
52398 45104.3 10369 10369 10369 32757 58607.2 0.197889 + 0.327395 0.587846
1.59044 1.94559
2009 33726.1 24994 125895 15154.4 0.215981 0.120374 0.231781 0.506898 +
52385.1 43653 16745 16745 16745 32588.8 70165.5 0.319653 + 0.229961 0.412901
1.11712 1.36657

SPAWN_RECRUIT Function: 3 - - - - -

11.1586 Ln(R0) 70165.5

1 steep

0.6 stddev_recr

0 env_link_

-0.0396692 init-eq 67436.6

1970 2007 recdev:start_end 1957 first_year_with_full_bias_adjustment

year spawn_bio exp-recr with-env bias-adj pred-recr dev

S/Rcurve 125895 70165.5

Virg 125895 70165.5 70165.5 58607.2 70165.5

Init 38034.2 67436.6 67436.6 56327.8 67436.6

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1977 35362.7 70165.5 70165.5 58607.2 67335 0.138823

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1979 30479.3 70165.5 70165.5 58607.2 40187.4 -0.377302

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2006 41537.1 70165.5 70165.5 58607.2 24508.7 -0.871828

2007 37275.3 70165.5 70165.5 58607.2 20156.4 -1.06734

2008 32757 70165.5 70165.5 58607.2 58607.2 8.88178e-016 forecast

2009 32588.8 70165.5 70165.5 70165.5 70165.5 0 forecast

N_est r.m.s.e.

32 0.430711

INDEX_2

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7	1992	23299.4	12.2947	7.51303	0.000322456	0.156307	0.492529	4.96451	3.10858
7	1993	25740.1	13.6037	8.30005	0.000322456	0.152101	0.49408	5.27595	3.39274
7	1994	25469.9	12.0506	8.21292	0.000322456	0.178228	0.383406	2.31386	0.589164
7	1995	24794.2	10.9296	7.99503	0.000322456	0.119799	0.312655	3.4056	1.28366
7	1996	39595.8	31.2461	12.7679	0.000322456	0.241612	0.89496	6.86025	5.43983
7	1997	49799.5	10.2832	16.0581	0.000322456	0.239956	-0.445705	1.72505	0.29775
7	1998	55003.3	7.75628	17.7361	0.000322456	0.206629	-0.827101	8.01134	6.43451
7	1999	60239.4	11.0546	19.4246	0.000322456	0.133137	-0.563692	8.96307	6.94669
7	2000	64960.6	15.7587	20.947	0.000322456	0.129614	-0.284601	2.41067	0.367475
7	2001	63779.7	18.5894	20.5661	0.000322456	0.113516	-0.101055	0.396249	-
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7	2002	67202.9	22.6824	21.67	0.000322456	0.155914	0.0456615	0.0428844	-
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7	2003	71027.8	35.6193	22.9033	0.000322456	0.187142	0.441605	2.78417	1.10828
7	2004	68454.9	17.7707	22.0737	0.000322456	0.138544	-0.216836	1.22478	-
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7	2005	64772.2	12.8914	20.8862	0.000322456	0.14648	-0.482528	5.42573	3.50486
7	2006	59713.4	21.0442	19.2549	0.000322456	0.138773	0.0888576	0.204998	-
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8	1977	65160.7	2.83863	2.38851	3.66556e-005	0.158535	0.172653	0.593016	-
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8	1978	59711.4	2.49883	2.18876	3.66556e-005	0.191203	0.132487	0.240065	-
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8	1979	51674.3	0.398393	1.89415	3.66556e-005	0.228214	-1.55909	23.336	21.8586
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8	1981	32917.8	1.49903	1.20662	3.66556e-005	0.158012	0.216994	0.942939	-
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8	1984	46565.6	0.659183	1.70689	3.66556e-005	0.292897	-0.951429	5.27586	
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8	1986	35440.4	2.14136	1.29909	3.66556e-005	0.158406	0.499776	4.97712	3.13453
8	1987	35838.2	0.926661	1.31367	3.66556e-005	0.151085	-0.348993	2.66784	
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8	1988	33361.1	1.50145	1.22287	3.66556e-005	0.228852	0.205229	0.402103	-
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8	1990	13276	0.714636	0.48664	3.66556e-005	0.21618	0.384248	1.57965	0.0480097
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8	1992	22669.4	1.20256	0.830961	3.66556e-005	0.177385	0.369625	2.171	0.441565
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INDEX_1

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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 0.000322456 0 0 16 16 0.45585 0.160359 0.160359 0 0
8 0 1.0 0 0.00 0.0 0 3.66556e-005 0 0 32 32 0.463306 0.19294 0.19294 0 0
9 0 1.0 0 0.00 0.0 0 3.47246e-005 0 0 32 32 0.58456 0.320599 0.320599 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

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 0.584366 0.1 -0.0803661 1.26098 1.26098
1983 1 1 0 0.521 0.510163 0.1 0.010837 0.0223376 0.0223376
1984 1 1 0 0.518 0.66308 0.1 -0.14508 3.60042 3.60042


```

1985 1 1 0 0.575 0.693915 0.1 -0.118915 2.06578 2.06578
1986 1 1 0 0.613 0.700616 0.1 -0.0876163 1.02112 1.02112
1987 1 1 0 0.581 0.652126 0.1 -0.0711255 0.755581 0.755581
1988 1 1 0 0.588 0.660922 0.1 -0.0729225 0.774955 0.774955
1989 1 1 0 0.668 0.712032 0.1 -0.044032 0.222879 0.222879
1990 1 1 0 0.54 0.562826 0.1 -0.0228264 0.0920465 0.0920465
1991 1 1 0 0.537 0.590777 0.1 -0.0537771 0.509679 0.509679
1992 1 1 0 0.595 0.554206 0.1 0.040794 0.240984 0.240984
1993 1 1 0 0.571 0.575056 0.1 -0.00405563 0.00260626 0.00260626
1994 1 1 0 0.605 0.636079 0.1 -0.0310787 0.135745 0.135745
1995 1 1 0 0.675 0.636646 0.1 0.038354 0.16592 0.16592
1996 1 1 0 0.621 0.701931 0.1 -0.0809313 0.853586 0.853586
1997 1 1 0 0.697 0.8833 0.1 -0.1863 3.31099 3.31099
1998 1 1 0 0.759 1.03133 0.1 -0.272325 5.53432 5.53432
1999 1 1 0 0.755 1.08782 0.1 -0.332816 7.74066 7.74066
2000 1 1 0 0.85 1.01957 0.1 -0.169574 1.93089 1.93089
2001 1 1 0 0.903 0.975038 0.1 -0.0720384 0.325384 0.325384
2002 1 1 0 0.898 0.963027 0.1 -0.065027 0.268582 0.268582
2003 1 1 0 0.999 1.05069 0.1 -0.0516921 0.13772 0.13772
2004 1 1 0 0.983 1.07207 0.1 -0.0890714 0.418508 0.418508
2005 1 1 0 0.949 1.36764 0.1 -0.41864 7.74957 7.74957
2006 1 1 0 0.947 1.08413 0.1 -0.137135 1.04725 1.04725

```

FIT_LEN_COMPS

Index Year Seas Gender Mkt Nsamp effN Like

```

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

```

FIT_AGE_COMPS

Index Year Seas Gender Mkt Ageerr Lbin_lo Lbin_hi Nsamp effN Like

```

1 1982 1 0 0 1 1 55 200 678.832 3.73748
1 1983 1 0 0 1 1 55 200 142.913 2.97809
1 1984 1 0 0 1 1 55 200 513.809 1.7752
1 1985 1 0 0 1 1 55 200 286.356 2.18121
1 1986 1 0 0 1 1 55 200 104.001 3.92782
1 1987 1 0 0 1 1 55 200 4753.23 0.697715
1 1988 1 0 0 1 1 55 200 440.994 1.74849
1 1989 1 0 0 1 1 55 200 1522.02 0.988077
1 1990 1 0 0 1 1 55 200 42.705 7.42745
1 1991 1 0 0 1 1 55 200 127.636 2.24531
1 1992 1 0 0 1 1 55 200 119.563 2.35414
1 1993 1 0 0 1 1 55 200 484.346 4.41191
1 1994 1 0 0 1 1 55 200 35.1191 5.53968
1 1995 1 0 0 1 1 55 200 132.572 1.80091
1 1996 1 0 0 1 1 55 200 41.408 10.594
1 1997 1 0 0 1 1 55 200 64.4139 5.97107
1 1998 1 0 0 1 1 55 200 1676.86 0.959758

```

1	1999	1	0	0	1	1	55	200	389.541	2.03139
1	2000	1	0	0	1	1	55	200	384.548	2.15074
1	2001	1	0	0	1	1	55	200	510.157	2.00466
1	2002	1	0	0	1	1	55	200	250.604	2.39995
1	2003	1	0	0	1	1	55	200	12434.5	0.135202
1	2004	1	0	0	1	1	55	200	2333.25	0.41005
1	2005	1	0	0	1	1	55	200	402.36	1.70737
1	2006	1	0	0	1	1	55	200	948.285	1.44493
1	2007	1	0	0	1	1	55	200	271.367	1.52587
2	1982	1	0	0	1	1	55	200	28.3912	7.41697
2	1983	1	0	0	1	1	55	200	68.3539	6.5871
2	1984	1	0	0	1	1	55	200	35.6905	4.91642
2	1985	1	0	0	1	1	55	200	306.175	1.70836
2	1986	1	0	0	1	1	55	200	54.315	3.99331
2	1987	1	0	0	1	1	55	200	829.349	1.28283
2	1988	1	0	0	1	1	55	200	88.1069	9.1314
2	1989	1	0	0	1	1	55	200	415.652	2.01452
2	1990	1	0	0	1	1	55	200	33.2601	6.86815
2	1991	1	0	0	1	1	55	200	111.386	2.92482
2	1992	1	0	0	1	1	55	200	54.3118	4.77538
2	1993	1	0	0	1	1	55	200	601.718	1.12501
2	1994	1	0	0	1	1	55	200	2248.77	0.465538
2	1995	1	0	0	1	1	55	200	117.225	3.29432
2	1996	1	0	0	1	1	55	200	761.748	3.37674
2	1997	1	0	0	1	1	55	200	352.515	2.85688
2	1998	1	0	0	1	1	55	200	32.4378	12.9899
2	1999	1	0	0	1	1	55	200	77.1594	8.97917
2	2000	1	0	0	1	1	55	200	42.329	9.19115
2	2001	1	0	0	1	1	55	200	202.461	2.09687
2	2002	1	0	0	1	1	55	200	37.7301	9.4257
2	2003	1	0	0	1	1	55	200	107.771	4.26627
2	2004	1	0	0	1	1	55	200	561.879	1.92213
2	2005	1	0	0	1	1	55	200	270.949	2.45901
2	2006	1	0	0	1	1	55	200	265.096	3.032
2	2007	1	0	0	1	1	55	200	150.512	3.59969
3	1989	1	0	0	1	1	55	200	50.2686	8.19638
3	1990	1	0	0	1	1	55	200	4212.21	0.465286
3	1991	1	0	0	1	1	55	200	121.327	8.35856
3	1992	1	0	0	1	1	55	200	1081.25	1.34015
3	1993	1	0	0	1	1	55	200	220.956	2.243
3	1994	1	0	0	1	1	55	200	3269.74	0.434391
3	1995	1	0	0	1	1	55	200	67.047	5.40299
3	1996	1	0	0	1	1	55	200	25.6089	10.4776
3	1997	1	0	0	1	1	55	200	31.9363	10.9085
3	1998	1	0	0	1	1	55	200	400.139	6.60129
3	1999	1	0	0	1	1	55	200	36.1686	19.8439
3	2000	1	0	0	1	1	55	200	35.6986	26.2608
3	2001	1	0	0	1	1	55	200	11.0483	41.9141
3	2002	1	0	0	1	1	55	200	31.9905	32.4814
3	2003	1	0	0	1	1	55	200	21.9723	24.215
3	2004	1	0	0	1	1	55	200	92.8791	15.6937
3	2005	1	0	0	1	1	55	200	65.6491	25.4092
3	2006	1	0	0	1	1	55	200	103.338	17.7059
3	2007	1	0	0	1	1	55	200	42.3714	19.4305
4	1994	1	0	0	1	1	55	200	433.085	2.06677
4	1995	1	0	0	1	1	55	200	4410.89	1.12589
4	1996	1	0	0	1	1	55	200	30.2827	6.84107

4	1997	1	0	0	1	1	55	200	714.862	1.73441
4	1998	1	0	0	1	1	55	200	63.0378	7.2678
4	1999	1	0	0	1	1	55	200	20.9723	19.0542
4	2000	1	0	0	1	1	55	200	88.1996	11.9892
4	2001	1	0	0	1	1	55	200	2.75308	66.6972
4	2002	1	0	0	1	1	55	200	27.6085	23.3548
4	2003	1	0	0	1	1	55	200	86.9763	9.25673
4	2004	1	0	0	1	1	55	200	46.6208	4.30947
4	2005	1	0	0	1	1	55	200	65.2421	16.0965
4	2006	1	0	0	1	1	55	200	102.527	6.75513
4	2007	1	0	0	1	1	55	200	46.5877	7.26324
5	1982	1	0	0	1	1	55	200	273.414	2.24077
5	1983	1	0	0	1	1	55	200	410.084	6.42999
5	1984	1	0	0	1	1	55	200	591.521	0.623278
5	1985	1	0	0	1	1	55	200	4571.27	0.75355
5	1986	1	0	0	1	1	55	200	78.0655	3.58808
5	1987	1	0	0	1	1	55	200	321.372	3.89872
5	1988	1	0	0	1	1	55	200	1194.81	0.682356
5	1989	1	0	0	1	1	55	200	32930.4	0.634647
5	1990	1	0	0	1	1	55	200	947.531	0.698914
5	1991	1	0	0	1	1	55	200	86.9954	1.85012
5	1992	1	0	0	1	1	55	200	638.587	2.63975
5	1993	1	0	0	1	1	55	200	1016.05	0.744972
5	1994	1	0	0	1	1	55	200	408.977	0.65477
5	1995	1	0	0	1	1	55	200	31.4975	6.43541
5	1996	1	0	0	1	1	55	200	82.6752	3.47678
5	1997	1	0	0	1	1	55	200	140.562	5.43875
5	1998	1	0	0	1	1	55	200	129.112	2.17951
5	1999	1	0	0	1	1	55	200	132.691	3.78713
5	2000	1	0	0	1	1	55	200	150.506	2.51135
5	2001	1	0	0	1	1	55	200	694.016	1.71896
5	2002	1	0	0	1	1	55	200	96.1491	5.05577
5	2003	1	0	0	1	1	55	200	170.675	2.79702
5	2004	1	0	0	1	1	55	200	146.614	1.94433
5	2005	1	0	0	1	1	55	200	961.217	1.14192
5	2006	1	0	0	1	1	55	200	155.743	2.30276
5	2007	1	0	0	1	1	55	200	190.076	2.63295
6	1982	1	0	0	1	1	55	200	83625.4	0.19712
6	1983	1	0	0	1	1	55	200	85579	0.171198
6	1984	1	0	0	1	1	55	200	39286.6	0.130743
6	1985	1	0	0	1	1	55	200	37160.6	0.334311
6	1986	1	0	0	1	1	55	200	75313.5	0.131915
6	1987	1	0	0	1	1	55	200	50681.9	0.176135
6	1988	1	0	0	1	1	55	200	28742.6	0.243322
6	1989	1	0	0	1	1	55	200	12369.7	0.499672
6	1990	1	0	0	1	1	55	200	89925	0.0618105
6	1991	1	0	0	1	1	55	200	6690.15	0.133705
6	1992	1	0	0	1	1	55	200	6646.98	0.143788
6	1993	1	0	0	1	1	55	200	5341.49	0.16042
6	1994	1	0	0	1	1	55	200	56932.4	0.167146
6	1995	1	0	0	1	1	55	200	7.98718	38.2462
6	1996	1	0	0	1	1	55	200	3.5271	61.9972
6	1997	1	0	0	1	1	55	200	41.207	4.56803
6	1998	1	0	0	1	1	55	200	937.18	0.89916
6	1999	1	0	0	1	1	55	200	1207.62	0.962921
6	2000	1	0	0	1	1	55	200	10915.8	0.866727
6	2001	1	0	0	1	1	55	200	165.636	2.37047

6	2002	1	0	0	1	1	55	200	65.0827	7.12433
6	2003	1	0	0	1	1	55	200	125.669	3.96728
6	2004	1	0	0	1	1	55	200	42.2709	6.99858
6	2005	1	0	0	1	1	55	200	48.6822	3.18684
6	2006	1	0	0	1	1	55	200	183.593	3.46698
6	2007	1	0	0	1	1	55	200	30.7945	15.8018
7	1992	1	3	0	1	1	55	200	36.0247	12.2387
7	1993	1	3	0	1	1	55	200	54.813	11.459
7	1994	1	3	0	1	1	55	200	43.5399	11.7862
7	1995	1	3	0	1	1	55	200	40.8826	15.0854
7	1996	1	3	0	1	1	55	200	13.2868	29.2649
7	1997	1	3	0	1	1	55	200	41.6342	18.078
7	1998	1	3	0	1	1	55	200	144.203	9.25579
7	1999	1	3	0	1	1	55	200	83.6308	14.4868
7	2000	1	3	0	1	1	55	200	37.8796	32.5893
7	2001	1	3	0	1	1	55	200	61.0074	12.5165
7	2002	1	3	0	1	1	55	200	71.5289	11.7687
7	2003	1	3	0	1	1	55	200	309.026	5.12059
7	2004	1	3	0	1	1	55	200	107.439	8.84156
7	2005	1	3	0	1	1	55	200	264.192	3.59982
7	2006	1	3	0	1	1	55	200	1350.68	1.36484
7	2007	1	3	0	1	1	55	200	48.8464	21.6903
8	1976	1	3	0	1	1	55	200	47.7287	17.8325
8	1977	1	3	0	1	1	55	200	44.424	14.9793
8	1978	1	3	0	1	1	55	200	180.688	6.91315
8	1979	1	3	0	1	1	55	200	48.4163	26.6614
8	1980	1	3	0	1	1	55	200	11.1566	85.6534
8	1981	1	3	0	1	1	55	200	42.5049	22.4171
8	1982	1	3	0	1	1	55	200	37.1395	17.6717
8	1983	1	3	0	1	1	55	200	26.5416	34.6787
8	1984	1	3	0	1	1	55	200	10.1441	48.2873
8	1985	1	3	0	1	1	55	200	41.7933	14.7397
8	1986	1	3	0	1	1	55	200	15.3913	30.8311
8	1987	1	3	0	1	1	55	200	130.915	14.0548
8	1988	1	3	0	1	1	55	200	50.0126	18.0168
8	1989	1	3	0	1	1	55	200	11.6665	38.6247
8	1990	1	3	0	1	1	55	200	13.2452	45.3965
8	1991	1	3	0	1	1	55	200	9.84808	38.943
8	1992	1	3	0	1	1	55	200	28.655	21.4823
8	1993	1	3	0	1	1	55	200	39.133	15.3858
8	1994	1	3	0	1	1	55	200	131.97	12.5186
8	1995	1	3	0	1	1	55	200	13.5421	36.4997
8	1996	1	3	0	1	1	55	200	17.6114	19.7025
8	1997	1	3	0	1	1	55	200	99.6909	7.64974
8	1998	1	3	0	1	1	55	200	201.037	8.5168
8	1999	1	3	0	1	1	55	200	49.873	15.8104
8	2000	1	3	0	1	1	55	200	76.6897	17.016
8	2001	1	3	0	1	1	55	200	59.4912	17.7627
8	2002	1	3	0	1	1	55	200	56.8675	20.1612
8	2003	1	3	0	1	1	55	200	100.749	8.97317
8	2004	1	3	0	1	1	55	200	58.1611	13.3717
8	2005	1	3	0	1	1	55	200	68.782	15.0136
8	2006	1	3	0	1	1	55	200	42.9299	28.6612
8	2007	1	3	0	1	1	55	200	63.1625	17.7674
9	1977	1	3	0	1	1	55	200	48.149	18.4668
9	1978	1	3	0	1	1	55	200	15.5192	52.8435
9	1979	1	3	0	1	1	55	200	132.385	11.5066

9 1980 1 3 0 1 1 55 200 62.7448 26.0479
 9 1981 1 3 0 1 1 55 200 73.2398 13.1755
 9 1983 1 3 0 1 1 55 200 58.021 15.0311
 9 1984 1 3 0 1 1 55 200 108.943 7.21654
 9 1985 1 3 0 1 1 55 200 83.2229 10.4838
 9 1986 1 3 0 1 1 55 200 27.5165 26.7779
 9 1987 1 3 0 1 1 55 200 123.063 13.4284
 9 1988 1 3 0 1 1 55 200 33.4756 39.0701
 9 1989 1 3 0 1 1 55 200 12.3292 32.7972
 9 1990 1 3 0 1 1 55 200 29.5219 25.4802
 9 1991 1 3 0 1 1 55 200 23.3711 25.9731
 9 1992 1 3 0 1 1 55 200 41.8849 11.8132
 9 1993 1 3 0 1 1 55 200 76.0155 7.48524
 9 1994 1 3 0 1 1 55 200 22.7213 23.2284
 9 1995 1 3 0 1 1 55 200 39.7805 15.1309
 9 1996 1 3 0 1 1 55 200 54.7989 11.5739
 9 1997 1 3 0 1 1 55 200 44.9087 22.0693
 9 1998 1 3 0 1 1 55 200 33.2063 25.2137
 9 1999 1 3 0 1 1 55 200 35.3187 16.3361
 9 2000 1 3 0 1 1 55 200 62.9462 13.5814
 9 2001 1 3 0 1 1 55 200 60.9564 19.9349
 9 2002 1 3 0 1 1 55 200 65.6298 19.6583
 9 2003 1 3 0 1 1 55 200 62.1285 21.4097
 9 2004 1 3 0 1 1 55 200 17.3578 35.6415
 9 2005 1 3 0 1 1 55 200 144.749 8.78122
 9 2006 1 3 0 1 1 55 200 48.3591 24.098
 9 2007 1 3 0 1 1 55 200 60.0188 19.727
 9 2008 1 3 0 1 1 55 200 81.6291 16.0489

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

1 0 26 1118.9 200 159.042 5.5945 5.5945
 2 0 26 302.126 200 83.6621 1.51063 1.51063
 3 0 19 522.189 200 47.0152 2.61094 2.61094
 4 0 14 438.546 200 23.6974 2.19273 2.19273
 5 0 26 1790.41 200 170.529 8.95205 8.95205
 6 0 26 22771.9 200 47.5152 113.86 113.86
 7 0 16 169.288 200 52.3018 0.846441 0.846441
 8 0 32 57.1863 200 29.4331 0.285931 0.285931
 9 0 31 57.5456 200 39.9614 0.287728 0.287728

LEN_SELEX

fleet year gender label 25.5 26.5 27.5 28.5 29.5 30.5 31.5 32.5 33.5 34.5
 35.5 36.5 37.5 38.5 39.5 40.5 41.5 42.5 43.5 44.5 45.5 46.5 47.5 48.5 49.5
 50.5 51.5 52.5 53.5 54.5 55.5 56.5 57.5 58.5 59.5 60.5 61.5 62.5 63.5 64.5
 65.5 66.5 67.5 68.5 69.5 70.5 71.5 72.5 73.5 74.5 75.5 76.5 77.5 78.5 79.5
 1 1976 1 1976-1 0.00472505 0.00472505 0.00472505 0.00472505 0.00472506 0.00472506
 0.00472511 0.00472532 0.00472629 0.00473034 0.00474588 0.00480072 0.00497822
 0.00550524 0.00693966 0.0105151 0.0186684 0.0356525 0.0679098 0.123623
 0.210801 0.333709 0.488468 0.659886 0.82201 0.943783 0.998594 0.999992
 0.997868 0.98936 0.974521 0.953639 0.927113 0.89544 0.859205 0.819053
 0.775682 0.729811 0.682171 0.633478 0.584421 0.535643 0.487732 0.441207
 0.396515 0.354023 0.314022 0.276722 0.242261 0.210707 0.182067 0.156292
 0.133291 0.112932 0.0950588 0.0794918
 1 1976 2 1976-1 0.00472505 0.00472505 0.00472505 0.00472506 0.00472506
 0.00472511 0.00472532 0.00472629 0.00473034 0.00474588 0.00480072 0.00497822
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0.210801 0.333709 0.488468 0.659886 0.82201 0.943783 0.998594 0.999992
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2 1992 1 1992-2 7.97264e-006 7.97276e-006 7.97294e-006 7.97334e-006 7.97507e-006 7.98436e-006 8.03321e-006 8.27267e-006 9.35445e-006 1.38479e-005 3.09959e-005 9.10881e-005 0.000284364 0.000854576 0.00239658 0.0062155 0.0148673 0.0327714 0.0665486 0.124486 0.214496 0.340434 0.497688 0.670179 0.831251 0.949692 0.999463 0.999981 0.991927 0.963505 0.916332 0.85325 0.7779 0.694378 0.606865 0.519294 0.435069 0.356885 0.28663 0.225393 0.173533 0.130813 0.0965475 0.0697681 0.0493625 0.0341949 0.0231927 0.0154015 0.0100139 0.00637476 0.0039733 0.00242472 0.00144876 0.000847536 0.000485449

2 1992 2 1992-2 7.97264e-006 7.97276e-006 7.97294e-006 7.97334e-006 7.97507e-006 7.98436e-006 8.03321e-006 8.27267e-006 9.35445e-006 1.38479e-005 3.09959e-005 9.10881e-005 0.000284364 0.000854576 0.00239658 0.0062155 0.0148673 0.0327714 0.0665486 0.124486 0.214496 0.340434 0.497688 0.670179 0.831251 0.949692 0.999463 0.999981 0.991927 0.963505 0.916332 0.85325 0.7779 0.694378 0.606865 0.519294 0.435069 0.356885 0.28663 0.225393 0.173533 0.130813 0.0965475 0.0697681 0.0493625 0.0341949 0.0231927 0.0154015 0.0100139 0.00637476 0.0039733 0.00242472 0.00144876 0.000847536 0.000485449

2 1993 1 1993-2 1.46839e-005 3.15639e-005 6.86927e-005 0.000147582 0.000309475 0.000630304 0.00124417 0.00237795 0.00439885 0.0078741 0.0136379 0.022854 0.0370538 0.0581236 0.0882108 0.12952 0.183992 0.252875 0.336247 0.432569 0.538391 0.648314 0.755297 0.851324 0.928361 0.979454 0.999784 0.999983 0.991927 0.963505 0.916332 0.85325 0.7779 0.694378 0.606865 0.519294 0.435069 0.356885 0.28663 0.225393 0.173533 0.130813 0.0965475 0.0697681 0.0493625 0.0341949 0.0231927 0.0154015 0.0100139 0.00637476 0.0039733 0.00242472 0.00144876 0.000847536 0.000485449

2 1993 2 1993-2 1.46839e-005 3.15639e-005 6.86927e-005 0.000147582 0.000309475 0.000630304 0.00124417 0.00237795 0.00439885 0.0078741 0.0136379 0.022854 0.0370538 0.0581236 0.0882108 0.12952 0.183992 0.252875 0.336247 0.432569 0.538391 0.648314 0.755297 0.851324 0.928361 0.979454 0.999784 0.999983 0.991927 0.963505 0.916332 0.85325 0.7779 0.694378 0.606865 0.519294 0.435069 0.356885 0.28663 0.225393 0.173533 0.130813 0.0965475 0.0697681 0.0493625 0.0341949 0.0231927 0.0154015 0.0100139 0.00637476 0.0039733 0.00242472 0.00144876 0.000847536 0.000485449

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2 1994 2 1994-2 9.36141e-005 9.52878e-005 9.97525e-005 0.000111169 0.000139148 0.000204861 0.00035273 0.000671469 0.00132944 0.00262985 0.00508961 0.00954088 0.0172435 0.0299817 0.0500993 0.0804145 0.123952 0.183457 0.260703 0.355688 0.465906 0.585903 0.707374 0.819909 0.91238 0.974715 0.999733 0.999983 0.991927 0.963505 0.916332 0.85325 0.7779 0.694378 0.606865 0.519294 0.435069 0.356885 0.28663 0.225393 0.173533 0.130813 0.0965475 0.0697681 0.0493625 0.0341949 0.0231927 0.0154015 0.0100139 0.00637476 0.0039733 0.00242472 0.00144876 0.000847536 0.000485449

2 1995 1 1995-2 8.78297e-006 8.79109e-006 8.82424e-006 8.95272e-006 9.42276e-006 1.10433e-005 1.63048e-005 3.23882e-005 7.86609e-005 0.000203924 0.000522879 0.00128648 0.00300448 0.00663489 0.0138351 0.0272261 0.0505529 0.0885582 0.146358 0.228191 0.33564 0.465737 0.609673 0.75291 0.877159 0.964057 0.999619 0.999982 0.991927 0.963505 0.916332 0.85325 0.7779 0.694378 0.606865 0.519294 0.435069 0.356885 0.28663 0.225393 0.173533 0.130813 0.0965475 0.0697681 0.0493625 0.0341949 0.0231927 0.0154015 0.0100139 0.00637476 0.0039733 0.00242472 0.00144876 0.000847536 0.000485449

2 1995 2 1995-2 8.78297e-006 8.79109e-006 8.82424e-006 8.95272e-006 9.42276e-006 1.10433e-005 1.63048e-005 3.23882e-005 7.86609e-005 0.000203924 0.000522879 0.00128648 0.00300448 0.00663489 0.0138351 0.0272261 0.0505529 0.0885582 0.146358 0.228191 0.33564 0.465737 0.609673 0.75291 0.877159 0.964057 0.999619 0.999982 0.991927 0.963505 0.916332 0.85325 0.7779 0.694378 0.606865 0.519294 0.435069 0.356885 0.28663 0.225393 0.173533 0.130813 0.0965475 0.0697681 0.0493625 0.0341949 0.0231927 0.0154015 0.0100139 0.00637476 0.0039733 0.00242472 0.00144876 0.000847536 0.000485449

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2 1997 1 1997-2 2.1849e-005 2.18954e-005 2.2061e-005 2.26225e-005 2.44259e-
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2 1997 2 1997-2 2.1849e-005 2.18954e-005 2.2061e-005 2.26225e-005 2.44259e-
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2 1998 1 1998-2 3.57033e-005 0.00468767 0.0108941 0.0190534 0.0296219
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2 1999 2 1999-2 0.000109214 0.000110947 0.000115557 0.000127313 0.000156048
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2 2000 1 2000-2 6.36737e-005 6.36934e-005 6.37685e-005 6.40407e-005 6.49728e-
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2 2000 2 2000-2 6.36737e-005 6.36934e-005 6.37685e-005 6.40407e-005 6.49728e-
005 6.79888e-005 7.72044e-005 0.000103791 0.000176191 0.000362232 0.000813187
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2 2001 1 2001-2 3.29454e-005 3.92431e-005 5.42902e-005 8.89052e-005
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2 2001 2 2001-2 3.29454e-005 3.92431e-005 5.42902e-005 8.89052e-005
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2 2002 1 2002-2 3.51316e-005 3.63113e-005 3.95505e-005 4.80663e-005 6.94998e-
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2 2002 2 2002-2 3.51316e-005 3.63113e-005 3.95505e-005 4.80663e-005 6.94998e-
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2 2003 1 2003-2 5.05717e-005 5.06646e-005 5.09787e-005 5.1987e-005 5.50613e-005 6.39598e-005 8.84056e-005 0.000152132 0.000309728 0.000679356 0.00150127 0.00323331 0.00669072 0.0132243 0.0249046 0.0446408 0.0761251 0.123473 0.190468 0.279417 0.38981 0.517154 0.652449 0.782768 0.893055 0.968905 0.999671 0.999982 0.991927 0.963505 0.916332 0.85325 0.7779 0.694378 0.606865 0.519294 0.435069 0.356885 0.28663 0.225393 0.173533 0.130813 0.0965475 0.0697681 0.0493625 0.0341949 0.0231927 0.0154015 0.0100139 0.00637476 0.0039733 0.00242472 0.00144876 0.000847536 0.000485449

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3.09396e-007 3.09346e-007

DEADFISH equals_sel*(retain+(1-retain)*discmort)

fleet	year	gender	label	25.5	26.5	27.5	28.5	29.5	30.5	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5	42.5	43.5	44.5	45.5	46.5	47.5	48.5	49.5	50.5	51.5	52.5	53.5	54.5	55.5	56.5	57.5	58.5	59.5	60.5	61.5	62.5	63.5	64.5	65.5	66.5	67.5	68.5	69.5	70.5	71.5	72.5	73.5	74.5	75.5	76.5	77.5	78.5	79.5					
1	1976	1	1976-1	0.00472505	0.00472505	0.00472505	0.00472506	0.00472506	0.00472506	0.00472506	0.00472506	0.00472506	0.00472506	0.00472511	0.00472532	0.00472629	0.00473034	0.00474588	0.00480072	0.00497822	0.00550524	0.00693966	0.0105151	0.0186684	0.0356525	0.0679098	0.123623	0.210801	0.333709	0.488468	0.659886	0.82201	0.943783	0.998594	0.999992	0.997868	0.98936	0.974521	0.953639	0.927113	0.89544	0.859205	0.819053	0.775682	0.729811	0.682171	0.633478	0.584421	0.535643	0.487732	0.441207	0.396515	0.354023	0.314022	0.276722	0.242261	0.210707	0.182067	0.156292	0.133291	0.112932	0.0950588	0.0794918
1	1976	2	1976-1	0.00472505	0.00472505	0.00472505	0.00472506	0.00472506	0.00472506	0.00472506	0.00472506	0.00472506	0.00472506	0.00472511	0.00472532	0.00472629	0.00473034	0.00474588	0.00480072	0.00497822	0.00550524	0.00693966	0.0105151	0.0186684	0.0356525	0.0679098	0.123623	0.210801	0.333709	0.488468	0.659886	0.82201	0.943783	0.998594	0.999992	0.997868	0.98936	0.974521	0.953639	0.927113	0.89544	0.859205	0.819053	0.775682	0.729811	0.682171	0.633478	0.584421	0.535643	0.487732	0.441207	0.396515	0.354023	0.314022	0.276722	0.242261	0.210707	0.182067	0.156292	0.133291	0.112932	0.0950588	0.0794918
1	1982	1	1982-1	0.0313759	0.0316043	0.0321774	0.0335242	0.0364867	0.0425817	0.0542995	0.0753266	0.110492	0.165189	0.2441	0.349267	0.477976	0.621243	0.763849	0.886514	0.969997	0.999998	0.999998	0.999998	0.996333	0.985202	0.966854	0.941699	0.910288	0.873295	0.831492	0.785726	0.736884	0.685872	0.633581	0.580867	0.528526	0.477278	0.427752	0.380477	0.335876	0.29427	0.255875	0.220814	0.189121	0.160756	0.135616	0.113546	0.0943507	0.07781	0.0636855	0.0517323	0.0417059	0.0333695	0.0264982	0.0208833	0.0163342	0.0126797	0.00976874	0.00746935				
1	1982	2	1982-1	0.0313759	0.0316043	0.0321774	0.0335242	0.0364867	0.0425817	0.0542995	0.0753266	0.110492	0.165189	0.2441	0.349267	0.477976	0.621243	0.763849	0.886514	0.969997	0.999998	0.999998	0.999998	0.996333	0.985202	0.966854	0.941699	0.910288	0.873295	0.831492	0.785726	0.736884	0.685872	0.633581	0.580867	0.528526	0.477278	0.427752	0.380477	0.335876	0.29427	0.255875	0.220814	0.189121	0.160756	0.135616	0.113546	0.0943507	0.07781	0.0636855	0.0517323	0.0417059	0.0333695	0.0264982	0.0208833	0.0163342	0.0126797	0.00976874	0.00746935				
1	1983	1	1983-1	0.00531785	0.00966146	0.0208528	0.046344	0.0975033	0.187531	0.325396	0.506804	0.707087	0.882956	0.986469	0.999982	0.999664	0.996981	0.991637	0.983675	0.973158	0.960169	0.944812	0.927205	0.907485	0.8858	0.862313	0.837196	0.81063	0.7828	0.753897	0.724112	0.693638	0.662663	0.631372	0.599945	0.568552	0.537356	0.506508	0.47615	0.446411	0.417405	0.389237	0.361996	0.335758	0.310585	0.286529	0.263627	0.241905	0.221376	0.202046	0.183909	0.166951	0.15115	0.136477	0.122898	0.110373	0.0988583	0.0883073					
1	1983	2	1983-1	0.00531785	0.00966146	0.0208528	0.046344	0.0975033	0.187531	0.325396	0.506804	0.707087	0.882956	0.986469	0.999982	0.999664	0.996981	0.991637	0.983675	0.973158	0.960169	0.944812	0.927205	0.907485	0.8858	0.862313	0.837196	0.81063	0.7828	0.753897	0.724112	0.693638	0.662663	0.631372	0.599945	0.568552	0.537356	0.506508	0.47615	0.446411	0.417405	0.389237	0.361996	0.335758	0.310585	0.286529	0.263627	0.241905	0.221376	0.202046	0.183909	0.166951	0.15115	0.136477	0.122898	0.110373	0.0988583	0.0883073					
1	1984	1	1984-1	0.015748	0.0183969	0.0223597	0.0281555	0.0364404	0.0480129	0.0638038	0.0848447	0.112212	0.14694	0.189908	0.241707	0.30249	0.371837	0.448637	0.531031	0.616416	0.701534	0.782654	0.855821	0.917173	0.963271	0.991424	0.999988	0.999988	0.997007	0.988886	0.975749	0.957798	0.935305	0.908608	0.878099	0.844217	0.807437	0.768258	0.727192	0.684754	0.641452																						

0.597775 0.554185 0.511111 0.468943 0.428024 0.388651 0.351072 0.315483
 0.282032 0.250822 0.22191 0.195313 0.171013 0.148961 0.12908 0.111273
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 1 1984 2 1984-1 0.015748 0.0183969 0.0223597 0.0281555 0.0364404 0.0480129
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 1 1985 1 1985-1 0.012752 0.0128605 0.0131449 0.0138443 0.0154562 0.0189363
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0.957301 0.986657 0.999476 0.999935 0.968216 0.837906 0.64574 0.443156
0.270828 0.14739 0.0714296 0.0308268 0.0118473 0.00405474 0.00123594
0.000335654 8.13584e-005 1.77559e-005 3.65608e-006 8.83122e-007 3.98721e-007
3.2325e-007 3.12522e-007 3.10926e-007 3.10514e-007 3.10271e-007 3.10077e-007
3.09913e-007 3.09771e-007 3.09648e-007 3.0954e-007 3.09444e-007 3.09358e-007
3.0928e-007 3.0921e-007 3.09145e-007 3.09086e-007 3.09031e-007 3.08981e-007
3.08934e-007 3.0889e-007
6 2005 2 2005-6 0.0103063 0.0526199 0.102399 0.159825 0.224745 0.296603
0.37439 0.456629 0.541383 0.626307 0.708742 0.785843 0.854734 0.912689
0.957301 0.986657 0.999476 0.999935 0.968216 0.837906 0.64574 0.443156
0.270828 0.14739 0.0714296 0.0308268 0.0118473 0.00405474 0.00123594
0.000335654 8.13584e-005 1.77559e-005 3.65608e-006 8.83122e-007 3.98721e-007
3.2325e-007 3.12522e-007 3.10926e-007 3.10514e-007 3.10271e-007 3.10077e-007
3.09913e-007 3.09771e-007 3.09648e-007 3.0954e-007 3.09444e-007 3.09358e-007
3.0928e-007 3.0921e-007 3.09145e-007 3.09086e-007 3.09031e-007 3.08981e-007
3.08934e-007 3.0889e-007
6 2006 1 2006-6 0.00611475 0.0191273 0.0380166 0.0645372 0.100526 0.147688
0.207304 0.279897 0.364882 0.460292 0.562639 0.666974 0.767196 0.856592
0.92856 0.977407 0.999108 0.999934 0.968216 0.837906 0.64574 0.443156
0.270828 0.14739 0.0714296 0.0308268 0.0118473 0.00405474 0.00123594
0.000335653 8.13577e-005 1.77555e-005 3.65595e-006 8.83182e-007 3.98928e-007
3.23569e-007 3.12922e-007 3.11384e-007 3.11011e-007 3.10793e-007 3.10612e-007
3.10454e-007 3.10313e-007 3.10186e-007 3.10072e-007 3.09968e-007 3.09874e-007
3.09788e-007 3.09709e-007 3.09637e-007 3.0957e-007 3.09508e-007 3.0945e-007
3.09396e-007 3.09346e-007
6 2006 2 2006-6 0.00611475 0.0191273 0.0380166 0.0645372 0.100526 0.147688
0.207304 0.279897 0.364882 0.460292 0.562639 0.666974 0.767196 0.856592
0.92856 0.977407 0.999108 0.999934 0.968216 0.837906 0.64574 0.443156
0.270828 0.14739 0.0714296 0.0308268 0.0118473 0.00405474 0.00123594
0.000335653 8.13577e-005 1.77555e-005 3.65595e-006 8.83182e-007 3.98928e-007
3.23569e-007 3.12922e-007 3.11384e-007 3.11011e-007 3.10793e-007 3.10612e-007
3.10454e-007 3.10313e-007 3.10186e-007 3.10072e-007 3.09968e-007 3.09874e-007
3.09788e-007 3.09709e-007 3.09637e-007 3.0957e-007 3.09508e-007 3.0945e-007
3.09396e-007 3.09346e-007
6 2008 1 2008-6 0.008959 0.0089591 0.0089598 0.00896569 0.010653 0.999031
0.98405 0.873577 0.690601 0.486172 0.304782 0.170148 0.0845864 0.0374467
0.0147627 0.00518284 0.0016205 0.000451362 0.000112134 2.5e-005 5.16652e-006
1.16249e-006 4.44863e-007 3.30409e-007 3.13965e-007 3.1166e-007 3.11191e-007
3.10956e-007 3.10767e-007 3.10601e-007 3.10454e-007 3.10321e-007 3.10202e-007
3.10094e-007 3.09995e-007 3.09906e-007 3.09823e-007 3.09748e-007 3.09678e-007
3.09613e-007 3.09553e-007 3.09497e-007 3.09445e-007 3.09397e-007 3.09351e-007
3.09308e-007 3.09268e-007 3.0923e-007 3.09195e-007 3.09161e-007 3.09129e-007
3.09098e-007 3.0907e-007 3.09042e-007 3.09016e-007
6 2008 2 2008-6 0.008959 0.0089591 0.0089598 0.00896569 0.010653 0.999031
0.98405 0.873577 0.690601 0.486172 0.304782 0.170148 0.0845864 0.0374467
0.0147627 0.00518284 0.0016205 0.000451362 0.000112134 2.5e-005 5.16652e-006

1.16249e-006 4.44863e-007 3.30409e-007 3.13965e-007 3.1166e-007 3.11191e-007
 3.10956e-007 3.10767e-007 3.10601e-007 3.10454e-007 3.10321e-007 3.10202e-007
 3.10094e-007 3.09995e-007 3.09906e-007 3.09823e-007 3.09748e-007 3.09678e-007
 3.09613e-007 3.09553e-007 3.09497e-007 3.09445e-007 3.09397e-007 3.09351e-007
 3.09308e-007 3.09268e-007 3.0923e-007 3.09195e-007 3.09161e-007 3.09129e-007
 3.09098e-007 3.0907e-007 3.09042e-007 3.09016e-007
 6 2009 1 2009-6 0.00611475 0.0191273 0.0380166 0.0645372 0.100526 0.147688
 0.207304 0.279897 0.364882 0.460292 0.562639 0.666974 0.767196 0.856592
 0.92856 0.977407 0.999108 0.999934 0.968216 0.837906 0.64574 0.443156
 0.270828 0.14739 0.0714296 0.0308268 0.0118473 0.00405474 0.00123594
 0.000335653 8.13577e-005 1.77555e-005 3.65595e-006 8.83182e-007 3.98928e-007
 3.23569e-007 3.12922e-007 3.11384e-007 3.11011e-007 3.10793e-007 3.10612e-007
 3.10454e-007 3.10313e-007 3.10186e-007 3.10072e-007 3.09968e-007 3.09874e-007
 3.09788e-007 3.09709e-007 3.09637e-007 3.0957e-007 3.09508e-007 3.0945e-007
 3.09396e-007 3.09346e-007
 6 2009 2 2009-6 0.00611475 0.0191273 0.0380166 0.0645372 0.100526 0.147688
 0.207304 0.279897 0.364882 0.460292 0.562639 0.666974 0.767196 0.856592
 0.92856 0.977407 0.999108 0.999934 0.968216 0.837906 0.64574 0.443156
 0.270828 0.14739 0.0714296 0.0308268 0.0118473 0.00405474 0.00123594
 0.000335653 8.13577e-005 1.77555e-005 3.65595e-006 8.83182e-007 3.98928e-007
 3.23569e-007 3.12922e-007 3.11384e-007 3.11011e-007 3.10793e-007 3.10612e-007
 3.10454e-007 3.10313e-007 3.10186e-007 3.10072e-007 3.09968e-007 3.09874e-007
 3.09788e-007 3.09709e-007 3.09637e-007 3.0957e-007 3.09508e-007 3.0945e-007
 3.09396e-007 3.09346e-007

AGE_SELEX

fleet	year	gender	label	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1976	1	1976-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1976	2	1976-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	2008	1	2008-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	2008	2	2008-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	2009	1	2009-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	2009	2	2009-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1976	1	1976-2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1976	2	1976-2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2008	1	2008-2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2008	2	2008-2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2009	1	2009-2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2009	2	2009-2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	1976	1	1976-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	1976	2	1976-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	2008	1	2008-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	2008	2	2008-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	2009	1	2009-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	2009	2	2009-3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1976	1	1976-4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1976	2	1976-4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	2008	1	2008-4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	2008	2	2008-4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	2009	1	2009-4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	2009	2	2009-4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1976	1	1976-5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1976	2	1976-5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	2008	1	2008-5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	2008	2	2008-5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	2009	1	2009-5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	2009	2	2009-5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

6 1976 1 1976-6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6 1976 2 1976-6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6 2008 1 2008-6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6 2008 2 2008-6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6 2009 1 2009-6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6 2009 2 2009-6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7 1976 1 1976-7 1.02606e-006 0.325447 0.911509 0.999895 0.999996 0.999999 1 1
1 1 1 1 1 1 1 1
7 1976 2 1976-7 1.02606e-006 0.325447 0.911509 0.999895 0.999996 0.999999 1 1
1 1 1 1 1 1 1 1
7 2008 1 2008-7 1.02606e-006 0.325447 0.911509 0.999895 0.999996 0.999999 1 1
1 1 1 1 1 1 1 1
7 2008 2 2008-7 1.02606e-006 0.325447 0.911509 0.999895 0.999996 0.999999 1 1
1 1 1 1 1 1 1 1
8 1976 1 1976-8 1.00572e-006 0.311306 0.90294 0.999875 0.99335 0.950267
0.87204 0.767668 0.648272 0.525155 0.408099 0.304221 0.21755 0.149237
0.0982065 0.0619941
8 1976 2 1976-8 1.00572e-006 0.311306 0.90294 0.999875 0.99335 0.950267
0.87204 0.767668 0.648272 0.525155 0.408099 0.304221 0.21755 0.149237
0.0982065 0.0619941
8 2008 1 2008-8 1.00572e-006 0.311306 0.90294 0.999875 0.99335 0.950267
0.87204 0.767668 0.648272 0.525155 0.408099 0.304221 0.21755 0.149237
0.0982065 0.0619941
8 2008 2 2008-8 1.00572e-006 0.311306 0.90294 0.999875 0.99335 0.950267
0.87204 0.767668 0.648272 0.525155 0.408099 0.304221 0.21755 0.149237
0.0982065 0.0619941
9 1976 1 1976-9 7.11512e-007 0.131928 0.679718 0.99919 0.997754 0.927575
0.77851 0.589854 0.403451 0.249116 0.13886 0.0698746 0.0317414 0.0130166
0.00481877 0.00161042
9 1976 2 1976-9 7.11512e-007 0.131928 0.679718 0.99919 0.997754 0.927575
0.77851 0.589854 0.403451 0.249116 0.13886 0.0698746 0.0317414 0.0130166
0.00481877 0.00161042
9 2008 1 2008-9 7.11512e-007 0.131928 0.679718 0.99919 0.997754 0.927575
0.77851 0.589854 0.403451 0.249116 0.13886 0.0698746 0.0317414 0.0130166
0.00481877 0.00161042
9 2008 2 2008-9 7.11512e-007 0.131928 0.679718 0.99919 0.997754 0.927575
0.77851 0.589854 0.403451 0.249116 0.13886 0.0698746 0.0317414 0.0130166
0.00481877 0.00161042

AGE_SELEX_from_size_selex_in_endyear

fleet year morph season 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1 2008 1 1 0.00472506 0.00693966 0.333709 0.999992 0.927113 0.775682
0.633478 0.487732 0.396515 0.314026 0.276721 0.239441 0.209419 0.182067
0.156293 0.155656
1 2008 2 1 0.00472506 0.00480072 0.0356183 0.333709 0.940156 0.999385
0.974521 0.92714 0.89544 0.856173 0.8166 0.775682 0.729811 0.728896 0.682171
0.682171
2 2008 1 1 0.0259914 0.554481 0.999985 0.701623 0.292209 0.0991298 0.0352974
0.0103921 0.00413805 0.00151433 0.000887392 0.000489243 0.000280272
0.000157352 8.47454e-005 8.36364e-005
2 2008 2 1 0.0147404 0.272226 0.854403 0.999985 0.860933 0.676665 0.441962
0.292281 0.230189 0.17426 0.132096 0.0991297 0.0717617 0.0713604 0.0508635
0.0508634
3 2008 1 1 0.184837 0.508408 0.0877251 0.00818539 0.000616143 5.24375e-005
6.78928e-006 9.69258e-007 4.38309e-007 3.3252e-007 3.18891e-007 3.13009e-007
3.10851e-007 3.09952e-007 3.09567e-007 3.09562e-007

3 2008 2 1 0.0851085 0.773797 0.273683 0.0877251 0.0200171 0.00730381
0.00185304 0.000616616 0.000343731 0.000181017 9.7521e-005 5.24375e-005
2.69089e-005 2.66531e-005 1.35845e-005 1.35845e-005
4 2008 1 1 0.000469929 0.298601 1 1 0.0950864 4.07823e-007 3.30052e-007
3.18342e-007 3.15362e-007 3.13636e-007 3.13028e-007 3.12493e-007 3.12101e-007
3.11768e-007 3.11471e-007 3.11464e-007
4 2008 2 1 0.000469928 0.00287614 0.999878 1 1 1 0.999998 0.0960082 2.5293e-
005 1.46784e-006 5.59107e-007 4.07823e-007 3.59825e-007 3.59444e-007
3.40011e-007 3.40011e-007
5 2008 1 1 0.0306091 0.695913 0.972542 0.625307 0.287059 0.117702 0.0515613
0.0197478 0.00966575 0.00445701 0.00295927 0.00187434 0.00122712 0.000792134
0.000495497 0.000490233
5 2008 2 1 0.0204062 0.336264 0.97528 0.972542 0.770999 0.604174 0.409891
0.287119 0.234908 0.186442 0.148569 0.117702 0.090736 0.0903169 0.0689118
0.0689117
6 2008 1 1 0.010653 0.0374467 5.16652e-006 3.11191e-007 3.10321e-007
3.09906e-007 3.09678e-007 3.09497e-007 3.09397e-007 3.09308e-007 3.09268e-007
3.09227e-007 3.09193e-007 3.09161e-007 3.09129e-007 3.09128e-007
6 2008 2 1 0.00896599 0.304782 0.00162766 5.16652e-006 3.14454e-007
3.11124e-007 3.10601e-007 3.10321e-007 3.10202e-007 3.10086e-007 3.0999e-007
3.09906e-007 3.09823e-007 3.09822e-007 3.09748e-007 3.09748e-007
7 2008 1
7 2008 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8 2008 1
8 2008 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
9 2008 1
9 2008 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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 2008 1 1 sel*wt 0.000210331 0.0942739 0.812916 1.26166 1.42142 1.36342
1.22172 1.02439 0.878171 0.731276 0.660107 0.585769 0.523639 0.465042
0.407908 0.406451
1 2008 1 1 sel*ret*wt 0.000210331 0.0942739 0.812916 1.26166 1.42142 1.36342
1.22172 1.02439 0.878171 0.731276 0.660107 0.585769 0.523639 0.465042
0.407908 0.406451
1 2008 1 1 sel_nums 0.00103779 0.190792 0.94057 0.96435 0.796766 0.607869
0.463239 0.332813 0.258371 0.195396 0.168257 0.142014 0.121485 0.103302
0.0866557 0.0862561
1 2008 1 1 sel*ret_nums 0.00103779 0.190792 0.94057 0.96435 0.796766
0.607869 0.463239 0.332813 0.258371 0.195396 0.168257 0.142014 0.121485
0.103302 0.0866557 0.0862561
1 2008 1 1 dead_nums 0.00103779 0.190792 0.94057 0.96435 0.796766 0.607869
0.463239 0.332813 0.258371 0.195396 0.168257 0.142014 0.121485 0.103302
0.0866557 0.0862561
1 2008 1 1 dead*wt 0.000210331 0.0942739 0.812916 1.26166 1.42142 1.36342
1.22172 1.02439 0.878171 0.731276 0.660107 0.585769 0.523639 0.465042
0.407908 0.406451
1 2008 2 1 sel*wt 8.54612e-005 0.0187182 0.312652 0.812916 1.13718 1.2761
1.38685 1.42141 1.42269 1.41173 1.39162 1.36342 1.32424 1.32333 1.27666
1.27666
1 2008 2 1 sel*ret*wt 8.54612e-005 0.0187182 0.312652 0.812916 1.13718
1.2761 1.38685 1.42141 1.42269 1.41173 1.39162 1.36342 1.32424 1.32333
1.27666 1.27666
1 2008 2 1 sel_nums 0.000473239 0.0496997 0.492282 0.94057 0.99439 0.957524
0.877052 0.796809 0.751999 0.701469 0.654066 0.607869 0.558881 0.557952
0.510487 0.510486

1 2008 2 1 sel*ret_nums 0.000473239 0.0496997 0.492282 0.94057 0.99439
0.957524 0.877052 0.796809 0.751999 0.701469 0.654066 0.607869 0.558881
0.557952 0.510487 0.510486
1 2008 2 1 dead_nums 0.000473239 0.0496997 0.492282 0.94057 0.99439 0.957524
0.877052 0.796809 0.751999 0.701469 0.654066 0.607869 0.558881 0.557952
0.510487 0.510486
1 2008 2 1 dead*wt 8.54612e-005 0.0187182 0.312652 0.812916 1.13718 1.2761
1.38685 1.42141 1.42269 1.41173 1.39162 1.36342 1.32424 1.32333 1.27666
1.27666
2 2008 1 1 sel*wt 9.32202e-006 0.0032103 0.288431 1.30779 1.52218 1.16475
0.755939 0.402638 0.237134 0.127982 0.0909887 0.0614917 0.0424393 0.0286978
0.0187033 0.0185158
2 2008 1 1 sel*ret*wt 9.32202e-006 0.0032103 0.288431 1.30779 1.52218
1.16475 0.755939 0.402638 0.237134 0.127982 0.0909887 0.0614917 0.0424393
0.0286978 0.0187033 0.0185158
2 2008 1 1 sel_nums 4.59954e-005 0.00649702 0.333724 0.999617 0.85325
0.519294 0.28663 0.130813 0.0697681 0.0341966 0.0231924 0.0149199 0.00985012
0.00637475 0.00397332 0.00393045
2 2008 1 1 sel*ret_nums 4.59954e-005 0.00649702 0.333724 0.999617 0.85325
0.519294 0.28663 0.130813 0.0697681 0.0341966 0.0231924 0.0149199 0.00985012
0.00637475 0.00397332 0.00393045
2 2008 1 1 dead_nums 4.59954e-005 0.00649702 0.333724 0.999617 0.85325
0.519294 0.28663 0.130813 0.0697681 0.0341966 0.0231924 0.0149199 0.00985012
0.00637475 0.00397332 0.00393045
2 2008 1 1 dead*wt 9.32202e-006 0.0032103 0.288431 1.30779 1.52218 1.16475
0.755939 0.402638 0.237134 0.127982 0.0909887 0.0614917 0.0424393 0.0286978
0.0187033 0.0185158
2 2008 2 1 sel*wt 8.22712e-006 0.00020308 0.0315954 0.288431 0.998455
1.33279 1.52356 1.5222 1.47169 1.38383 1.28038 1.16475 1.03087 1.02822
0.892525 0.892525
2 2008 2 1 sel*ret*wt 8.22712e-006 0.00020308 0.0315954 0.288431 0.998455
1.33279 1.52356 1.5222 1.47169 1.38383 1.28038 1.16475 1.03087 1.02822
0.892525 0.892525
2 2008 2 1 sel_nums 4.55586e-005 0.000539208 0.0497463 0.333724 0.872837
0.999721 0.963505 0.853314 0.7779 0.687771 0.601911 0.519294 0.435069
0.433568 0.356885 0.356885
2 2008 2 1 sel*ret_nums 4.55586e-005 0.000539208 0.0497463 0.333724 0.872837
0.999721 0.963505 0.853314 0.7779 0.687771 0.601911 0.519294 0.435069
0.433568 0.356885 0.356885
2 2008 2 1 dead_nums 4.55586e-005 0.000539208 0.0497463 0.333724 0.872837
0.999721 0.963505 0.853314 0.7779 0.687771 0.601911 0.519294 0.435069
0.433568 0.356885 0.356885
2 2008 2 1 dead*wt 8.22712e-006 0.00020308 0.0315954 0.288431 0.998455
1.33279 1.52356 1.5222 1.47169 1.38383 1.28038 1.16475 1.03087 1.02822
0.892525 0.892525
3 2008 1 1 sel*wt 0.0127971 0.231939 0.783345 1.29362 1.19494 0.737677
0.402909 0.178753 0.0926004 0.0436591 0.0289006 0.0180235 0.0114881
0.00710055 0.00413622 0.00408449
3 2008 1 1 sel*ret*wt 0.0127971 0.231939 0.783345 1.29362 1.19494 0.737677
0.402909 0.178753 0.0926004 0.0436591 0.0289006 0.0180235 0.0114881
0.00710055 0.00413622 0.00408449
3 2008 1 1 sel_nums 0.0631418 0.469398 0.906356 0.988779 0.669816 0.328888
0.152771 0.0580749 0.0272444 0.0116657 0.00736656 0.00437401 0.00266668
0.00157727 0.000878695 0.00086713
3 2008 1 1 sel*ret_nums 0.0631418 0.469398 0.906356 0.988779 0.669816
0.328888 0.152771 0.0580749 0.0272444 0.0116657 0.00736656 0.00437401
0.00266668 0.00157727 0.000878695 0.00086713

3 2008 1 1 dead_nums 0.0631418 0.469398 0.906356 0.988779 0.669816 0.328888
0.152771 0.0580749 0.0272444 0.0116657 0.00736656 0.00437401 0.00266668
0.00157727 0.000878695 0.00086713
3 2008 1 1 dead*wt 0.0127971 0.231939 0.783345 1.29362 1.19494 0.737677
0.402909 0.178753 0.0926004 0.0436591 0.0289006 0.0180235 0.0114881
0.00710055 0.00413622 0.00408449
3 2008 2 1 sel*wt 0.0076963 0.108648 0.427101 0.783345 1.14341 1.30521
1.32296 1.19502 1.0967 0.974247 0.854646 0.737677 0.61709 0.614927 0.504422
0.504421
3 2008 2 1 sel*ret*wt 0.0076963 0.108648 0.427101 0.783345 1.14341 1.30521
1.32296 1.19502 1.0967 0.974247 0.854646 0.737677 0.61709 0.614927 0.504422
0.504421
3 2008 2 1 sel_nums 0.0426187 0.288476 0.6725 0.906356 0.99982 0.979473
0.836646 0.669905 0.579691 0.484298 0.40183 0.328888 0.260436 0.259308
0.201698 0.201698
3 2008 2 1 sel*ret_nums 0.0426187 0.288476 0.6725 0.906356 0.99982 0.979473
0.836646 0.669905 0.579691 0.484298 0.40183 0.328888 0.260436 0.259308
0.201698 0.201698
3 2008 2 1 dead_nums 0.0426187 0.288476 0.6725 0.906356 0.99982 0.979473
0.836646 0.669905 0.579691 0.484298 0.40183 0.328888 0.260436 0.259308
0.201698 0.201698
3 2008 2 1 dead*wt 0.0076963 0.108648 0.427101 0.783345 1.14341 1.30521
1.32296 1.19502 1.0967 0.974247 0.854646 0.737677 0.61709 0.614927 0.504422
0.504421
4 2008 1 1 sel*wt 9.52419e-005 0.147545 0.86428 1.3083 0.169633 9.14725e-007
8.70459e-007 9.79846e-007 1.07188e-006 1.17379e-006 1.22807e-006 1.28969e-006
1.34567e-006 1.40351e-006 1.46617e-006 1.46796e-006
4 2008 1 1 sel*ret*wt 9.52419e-005 0.147545 0.86428 1.3083 0.169633
9.14725e-007 8.70459e-007 9.79846e-007 1.07188e-006 1.17379e-006 1.22807e-006
1.28969e-006 1.34567e-006 1.40351e-006 1.46617e-006 1.46796e-006
4 2008 1 1 sel_nums 0.000469929 0.298601 1 1 0.0950864 4.07823e-007
3.30052e-007 3.18342e-007 3.15362e-007 3.13636e-007 3.13028e-007 3.12493e-007
3.12101e-007 3.11768e-007 3.11471e-007 3.11464e-007
4 2008 1 1 sel*ret_nums 0.000469929 0.298601 1 1 0.0950864 4.07823e-007
3.30052e-007 3.18342e-007 3.15362e-007 3.13636e-007 3.13028e-007 3.12493e-007
3.12101e-007 3.11768e-007 3.11471e-007 3.11464e-007
4 2008 1 1 dead_nums 0.000469929 0.298601 1 1 0.0950864 4.07823e-007
3.30052e-007 3.18342e-007 3.15362e-007 3.13636e-007 3.13028e-007 3.12493e-007
3.12101e-007 3.11768e-007 3.11471e-007 3.11464e-007
4 2008 1 1 dead*wt 9.52419e-005 0.147545 0.86428 1.3083 0.169633 9.14725e-
007 8.70459e-007 9.79846e-007 1.07188e-006 1.17379e-006 1.22807e-006
1.28969e-006 1.34567e-006 1.40351e-006 1.46617e-006 1.46796e-006
4 2008 2 1 sel*wt 8.48611e-005 0.00108323 0.635011 0.86428 1.14361 1.33315
1.58126 0.171172 4.78513e-005 2.94696e-006 1.18881e-006 9.14725e-007
8.52586e-007 8.52543e-007 8.50327e-007 8.50327e-007
4 2008 2 1 sel*ret*wt 8.48611e-005 0.00108323 0.635011 0.86428 1.14361
1.33315 1.58126 0.171172 4.78513e-005 2.94696e-006 1.18881e-006 9.14725e-007
8.52586e-007 8.52543e-007 8.50327e-007 8.50327e-007
4 2008 2 1 sel_nums 0.000469928 0.00287614 0.999878 1 1 1 0.999998 0.0960082
2.5293e-005 1.46784e-006 5.59107e-007 4.07823e-007 3.59825e-007 3.59444e-007
3.40011e-007 3.40011e-007
4 2008 2 1 sel*ret_nums 0.000469928 0.00287614 0.999878 1 1 1 0.999998
0.0960082 2.5293e-005 1.46784e-006 5.59107e-007 4.07823e-007 3.59825e-007
3.59444e-007 3.40011e-007 3.40011e-007
4 2008 2 1 dead_nums 0.000469928 0.00287614 0.999878 1 1 1 0.999998
0.0960082 2.5293e-005 1.46784e-006 5.59107e-007 4.07823e-007 3.59825e-007
3.59444e-007 3.40011e-007 3.40011e-007

4 2008 2 1 dead*wt 8.48611e-005 0.00108323 0.635011 0.86428 1.14361 1.33315
1.58126 0.171172 4.78513e-005 2.94696e-006 1.18881e-006 9.14725e-007
8.52586e-007 8.52543e-007 8.50327e-007 8.50327e-007
5 2008 1 1 sel*wt 6.36883e-005 0.0155219 0.596821 1.28355 1.28888 0.969716
0.663247 0.393652 0.257037 0.15766 0.120613 0.0887503 0.0665544 0.0491918
0.035364 0.035078
5 2008 1 1 sel*ret*wt 6.36883e-005 0.0155219 0.596821 1.28355 1.28888
0.969716 0.663247 0.393652 0.257037 0.15766 0.120613 0.0887503 0.0665544
0.0491918 0.035364 0.035078
5 2008 1 1 sel_nums 0.000314242 0.0314132 0.690541 0.981084 0.722475
0.432341 0.251484 0.127893 0.0756241 0.0421267 0.0307435 0.0215287 0.0154453
0.0109272 0.0075127 0.0074456
5 2008 1 1 sel*ret_nums 0.000314242 0.0314132 0.690541 0.981084 0.722475
0.432341 0.251484 0.127893 0.0756241 0.0421267 0.0307435 0.0215287 0.0154453
0.0109272 0.0075127 0.0074456
5 2008 1 1 dead_nums 0.000314242 0.0314132 0.690541 0.981084 0.722475
0.432341 0.251484 0.127893 0.0756241 0.0421267 0.0307435 0.0215287 0.0154453
0.0109272 0.0075127 0.0074456
5 2008 1 1 dead*wt 6.36883e-005 0.0155219 0.596821 1.28355 1.28888 0.969716
0.663247 0.393652 0.257037 0.15766 0.120613 0.0887503 0.0665544 0.0491918
0.035364 0.035078
5 2008 2 1 sel*wt 5.6007e-005 0.00130076 0.109735 0.596821 1.14344 1.29586
1.3503 1.28893 1.22939 1.14748 1.06086 0.969716 0.867996 0.866014 0.764758
0.764758
5 2008 2 1 sel*ret*wt 5.6007e-005 0.00130076 0.109735 0.596821 1.14344
1.29586 1.3503 1.28893 1.22939 1.14748 1.06086 0.969716 0.867996 0.866014
0.764758 0.764758
5 2008 2 1 sel_nums 0.000310145 0.0034537 0.172777 0.690541 0.99984 0.972433
0.853935 0.722545 0.649827 0.570303 0.498709 0.432341 0.366328 0.365166
0.305796 0.305796
5 2008 2 1 sel*ret_nums 0.000310145 0.0034537 0.172777 0.690541 0.99984
0.972433 0.853935 0.722545 0.649827 0.570303 0.498709 0.432341 0.366328
0.365166 0.305796 0.305796
5 2008 2 1 dead_nums 0.000310145 0.0034537 0.172777 0.690541 0.99984
0.972433 0.853935 0.722545 0.649827 0.570303 0.498709 0.432341 0.366328
0.365166 0.305796 0.305796
5 2008 2 1 dead*wt 5.6007e-005 0.00130076 0.109735 0.596821 1.14344 1.29586
1.3503 1.28893 1.22939 1.14748 1.06086 0.969716 0.867996 0.866014 0.764758
0.764758
6 2008 1 1 sel*wt 0.0203739 0.423259 0.5581 0.0154998 3.16756e-005 7.25746e-
007 8.20239e-007 9.55567e-007 1.05429e-006 1.16007e-006 1.2157e-006 1.2785e-
006 1.33535e-006 1.39392e-006 1.45722e-006 1.45902e-006
6 2008 1 1 sel*ret*wt 0.0203739 0.423259 0.5581 0.0154998 3.16756e-005
7.25746e-007 8.20239e-007 9.55567e-007 1.05429e-006 1.16007e-006 1.2157e-006
1.2785e-006 1.33535e-006 1.39392e-006 1.45722e-006 1.45902e-006
6 2008 1 1 sel_nums 0.100526 0.856592 0.64574 0.0118473 1.77555e-005
3.23569e-007 3.11011e-007 3.10454e-007 3.10186e-007 3.09968e-007 3.09874e-007
3.09781e-007 3.09706e-007 3.09637e-007 3.0957e-007 3.09568e-007
6 2008 1 1 sel*ret_nums 0.100526 0.856592 0.64574 0.0118473 1.77555e-005
3.23569e-007 3.11011e-007 3.10454e-007 3.10186e-007 3.09968e-007 3.09874e-007
3.09781e-007 3.09706e-007 3.09637e-007 3.0957e-007 3.09568e-007
6 2008 1 1 dead_nums 0.100526 0.856592 0.64574 0.0118473 1.77555e-005
3.23569e-007 3.11011e-007 3.10454e-007 3.10186e-007 3.09968e-007 3.09874e-007
3.09781e-007 3.09706e-007 3.09637e-007 3.0957e-007 3.09568e-007
6 2008 1 1 dead*wt 0.0203739 0.423259 0.5581 0.0154998 3.16756e-005
7.25746e-007 8.20239e-007 9.55567e-007 1.05429e-006 1.16007e-006 1.2157e-006
1.2785e-006 1.33535e-006 1.39392e-006 1.45722e-006 1.45902e-006

6 2008 2 1 sel*wt 0.0116556 0.211905 0.634492 0.5581 0.0841087 0.012687
0.000530757 3.17826e-005 6.91661e-006 1.70038e-006 8.39409e-007 7.25746e-007
7.41453e-007 7.42169e-007 7.78733e-007 7.78733e-007
6 2008 2 1 sel*ret*wt 0.0116556 0.211905 0.634492 0.5581 0.0841087 0.012687
0.000530757 3.17826e-005 6.91661e-006 1.70038e-006 8.39409e-007 7.25746e-007
7.41453e-007 7.42169e-007 7.78733e-007 7.78733e-007
6 2008 2 1 sel_nums 0.0645435 0.562639 0.999064 0.64574 0.073692 0.00962032
0.000335654 1.78203e-005 3.65595e-006 8.46625e-007 3.94665e-007 3.23569e-007
3.12922e-007 3.12892e-007 3.11384e-007 3.11384e-007
6 2008 2 1 sel*ret_nums 0.0645435 0.562639 0.999064 0.64574 0.073692
0.00962032 0.000335654 1.78203e-005 3.65595e-006 8.46625e-007 3.94665e-007
3.23569e-007 3.12922e-007 3.12892e-007 3.11384e-007 3.11384e-007
6 2008 2 1 dead_nums 0.0645435 0.562639 0.999064 0.64574 0.073692 0.00962032
0.000335654 1.78203e-005 3.65595e-006 8.46625e-007 3.94665e-007 3.23569e-007
3.12922e-007 3.12892e-007 3.11384e-007 3.11384e-007
6 2008 2 1 dead*wt 0.0116556 0.211905 0.634492 0.5581 0.0841087 0.012687
0.000530757 3.17826e-005 6.91661e-006 1.70038e-006 8.39409e-007 7.25746e-007
7.41453e-007 7.42169e-007 7.78733e-007 7.78733e-007

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
1974 VIRG 1 28066.2 21055 15795.2 11849.4 8889.33 6668.69 5002.78 3753.04
2815.49 2112.15 1584.52 1188.69 891.742 668.976 501.859 1506.9
1975 INIT 1 26974.6 20167 15053.3 8869.65 3226.6 1237.35 529.469 251.124
132.357 74.5214 44.5393 27.3484 17.2519 11.122 7.31347 14.8591
1976 TIME 1 31306 22543.1 21034.4 7020.87 2652.53 895.855 275.01 251.124
132.357 74.5214 44.5393 27.3484 17.2519 11.122 7.31347 14.8591
1977 TIME 1 26934 23190.5 13818.7 9598.64 2378.98 1049.05 409.367 139.515
140.188 78.2181 46.3171 28.3146 17.7809 11.4207 7.48442 15.1566
1978 TIME 1 22762.4 19945.9 13934.5 6398.77 3669.66 1063.86 533.668 227.038
83.4673 87.6589 50.8425 30.6314 19.0497 12.1285 7.88808 15.8255
1979 TIME 1 16075 16825.3 11490.2 6168.22 2482.5 1698.62 561.866 306.072
139.553 53.3712 58.0064 34.1595 20.8927 13.1508 8.46487 16.7242
1980 TIME 1 33222.8 11792.2 8490.42 3740.16 1560.18 831.009 704.641 267.157
163.472 79.6869 32.3054 36.0335 21.7726 13.5938 8.71809 16.9997
1981 TIME 1 34419 24142.7 4956.36 2023.04 700.749 431.549 304.685 306.702
133.998 88.8357 46.4141 19.4035 22.3108 13.8129 8.8165 17.0346
1982 TIME 1 42914.8 25049.5 10620.6 1136.37 272.082 137.302 116.813 103.058
126.509 62.0975 45.6073 24.9428 10.9115 13.0115 8.32637 16.083
1983 TIME 1 42224.9 29814 9567.43 3178.24 439.155 140.741 84.3103 77.8849
72.3459 90.7978 45.2573 33.4299 18.3751 8.06763 9.64886 18.1472
1984 TIME 1 23956.7 29441.1 9849.83 2729.16 1200.29 222.328 83.6259 53.9077
52.1644 49.5145 63.2057 31.7319 23.6049 13.0482 5.75854 19.9405
1985 TIME 1 32124.1 16568.9 11058.7 1906.32 638.946 396.389 92.8841 40.0865
28.866 29.7193 29.7703 38.9275 20.0189 15.1842 8.54466 17.1236
1986 TIME 1 31700.5 23361.1 6177.62 2393.26 532.274 247.312 189.325 49.8384
23.5056 17.751 19.0237 19.3945 25.8051 13.4569 10.3375 17.6903
1987 TIME 1 23200 22848.7 8038.89 1044.37 529.034 165.607 95.8023 83.0177
24.1476 12.0634 9.59776 10.539 11.0182 14.972 7.96568 16.9298
1988 TIME 1 6644.89 16899.9 8134.14 1795.88 288.281 187.646 68.8276 43.5524
40.605 12.3308 6.41142 5.19909 5.82463 6.19427 8.55742 14.474
1989 TIME 1 16921.6 4652.15 4147.99 916.104 274.258 63.9359 52.1876 21.6368
15.1034 14.9277 4.79148 2.55946 2.13639 2.45408 2.67499 10.2067

1990 TIME 1 20003.2 12326.9 1502.37 512.519 70.9539 31.2315 12.4893 14.817
 8.12624 6.48666 7.09761 2.37515 1.32038 1.13735 1.34431 7.25534
 1991 TIME 1 22765.3 14030.1 4406.96 312.567 70.8522 13.8865 9.76622 5.33293
 7.87164 4.75052 4.04899 4.54014 1.5529 0.877357 0.766255 5.86775
 1992 TIME 1 25160.7 16714.9 4518.78 577.735 50.7105 19.2011 5.85018 5.37144
 3.47965 5.4843 3.43746 2.96416 3.35288 1.15295 0.653785 4.95619
 1993 TIME 1 19602.4 18147.2 4876.58 597.619 75.3311 11.7466 7.32225 3.0412
 3.4144 2.39058 3.94114 2.50472 2.18243 2.48441 0.858046 4.18782
 1994 TIME 1 24520.9 14037.4 6172.89 797.662 117.64 24.2506 5.61817 4.34285
 2.05513 2.42294 1.74473 2.90144 1.85607 1.6238 1.85366 3.77233
 1995 TIME 1 34425.6 17622.9 4616.77 838.122 185.641 42.9854 12.1499 3.3938
 2.95629 1.46444 1.77263 1.28683 2.15301 1.38242 1.2125 4.20841
 1996 TIME 1 26331.1 25514.1 9398.06 1036.46 156.002 49.2895 17.3206 6.44543
 2.16479 2.02925 1.05011 1.28882 0.945593 1.59262 1.02738 4.04226
 1997 TIME 1 27749.1 19583.3 15156.7 3109.43 297.322 54.7167 22.5323 9.44987
 3.99171 1.41915 1.384 0.7269 0.903954 0.669639 1.137 3.64559
 1998 TIME 1 31445.8 20781.3 13313.3 6552.8 1071.69 117.37 25.8491 12.0733
 5.59177 2.48421 0.919064 0.911317 0.486335 0.612417 0.458803 3.31221
 1999 TIME 1 24709.2 23535.2 14325 6069.83 2402.53 449.566 59.3623 14.9374
 7.7392 3.76917 1.7371 0.651746 0.654346 0.352353 0.446974 2.76969
 2000 TIME 1 28909.4 18458.9 16763.9 7618.57 2735.63 1197.16 254.046 36.617
 9.86423 5.28649 2.64186 1.23024 0.466033 0.471314 0.255396 2.34499
 2001 TIME 1 28745.9 21677 12898.8 8348.74 3415.89 1370.11 687.304 159.648
 24.5797 6.82689 3.74 1.88493 0.884529 0.337 0.342493 1.8981
 2002 TIME 1 29273.8 21535.2 14720.9 7062.46 4464.44 1963.08 855.949 454
 109.936 17.2657 4.86707 2.68219 1.3593 0.640584 0.244974 1.63451
 2003 TIME 1 20641.8 21928.9 15261.9 8182.49 3836.01 2648.62 1278.8 591.116
 326.309 80.3655 12.7605 3.61067 1.99597 1.01364 0.478445 1.40552
 2004 TIME 1 28272 15452.5 15444.4 8455.43 4272.8 2165.64 1645.61 847.187
 410.668 231.811 58.0216 9.27032 2.63791 1.46432 0.746269 1.3914
 2005 TIME 1 12517.8 21172.3 10902.9 8216.73 4312.56 2371.96 1332.67 1085.2
 588.026 291.929 167.631 42.232 6.78692 1.93948 1.08043 1.58216
 2006 TIME 1 9803.48 9306.84 14971.5 6317.95 4138.58 2272.93 1355.87 807.611
 689.049 382.549 193.749 112.23 28.5228 4.61673 1.32823 1.83581
 2007 TIME 1 8062.55 7321.92 6539.76 8378.54 3258.51 2315.92 1408.39 899.513
 563.276 491.786 277.517 141.419 82.3628 21.0148 3.41254 2.34537
 2008 TIME 1 23442.9 5990.02 4931.42 3601.14 4457.54 1875.22 1462.6 945.987
 632.035 404.08 358.011 203.146 104.027 60.8006 15.5586 4.27371
 2009 FORE 1 28066.2 16908.5 3225.39 2461.1 1845.01 2632.64 1205.71 982.945
 656.541 446.023 289.104 257.669 147.059 75.6534 44.4004 14.5392
 Population 1 gmorph 2 gender:2 GrowPattern: 2 birthseason: 1
 Year Per Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 1974 VIRG 1 42099.3 24518.1 14279 8315.9 4843.07 2820.54 1642.64 956.653
 557.142 324.472 188.968 110.053 64.0931 37.327 21.7387 30.316
 1975 INIT 1 40462 23484.1 13629.4 7735.54 3538.39 1043.5 294.824 84.8103
 25.2481 7.6908 2.41023 0.77729 0.258209 0.0886702 0.0304699 0.0168034
 1976 TIME 1 46958.9 26250.9 19044.7 6123.15 2908.85 755.506 153.134 84.8103
 25.2481 7.6908 2.41023 0.77729 0.258209 0.0886702 0.0304699 0.0168034
 1977 TIME 1 40401 27096.7 13445.5 8195.52 2169.17 757.438 200.179 43.8924
 26.038 8.03498 2.54487 0.826431 0.275739 0.0949141 0.0326158 0.0179942
 1978 TIME 1 34143.5 23314.1 13736.3 5640.33 2946.09 628.629 226.591 65.0197
 15.2373 9.34525 2.98696 0.976092 0.326379 0.112203 0.0386437 0.0211959
 1979 TIME 1 24112.5 19680.9 11500.2 5435.22 1938.26 854.942 191.116 75.7245
 23.3637 5.67117 3.60659 1.18974 0.400203 0.137761 0.0473847 0.0259608
 1980 TIME 1 49834.2 13826.8 9011.67 3716.58 1373.47 360.73 170.353 44.213
 19.6774 6.42579 1.65428 1.10767 0.383143 0.135198 0.0465797 0.0259304

1981 TIME 1 51628.5 28394.9 5663.74 2239.2 687.478 182.915 53.5784 31.2154
9.49318 4.55855 1.60887 0.442968 0.315279 0.115896 0.0409407 0.0232225
1982 TIME 1 64372.2 29422.9 12287.6 1493.35 398.558 68.3909 19.4568 6.93069
4.74775 1.56776 0.821894 0.313874 0.0930832 0.0715309 0.0263323 0.0156809
1983 TIME 1 63337.3 35452.3 11387.8 2887.9 346.928 106.696 20.8748 6.99262
2.78299 2.00375 0.694408 0.378729 0.149623 0.0457925 0.0352083 0.0212411
1984 TIME 1 35935 35281.5 10976.7 2504.12 639.524 90.1453 31.8449 7.35837
2.7481 1.147 0.864115 0.310591 0.174699 0.070995 0.0217383 0.0274431
1985 TIME 1 48186.1 19523.9 14265.9 2111.59 376.239 103.296 16.7002 7.11894
1.88637 0.751398 0.334707 0.266583 0.100734 0.0595214 0.0242099 0.0175407
1986 TIME 1 47550.7 27441.1 8328.81 2672.89 354.76 72.2959 22.8142 4.41848
2.139 0.601083 0.253854 0.118795 0.0988457 0.0389681 0.0230424 0.0167879
1987 TIME 1 34800 26969 10327.4 1420.82 350.795 53.6166 12.6534 4.82551
1.06716 0.549184 0.164017 0.0729244 0.0357246 0.0310832 0.0122637 0.0130517
1988 TIME 1 9967.33 19841.5 11093.5 1843.91 246.412 68.3013 11.6588 3.16327
1.32867 0.307147 0.165181 0.051199 0.0235287 0.0119042 0.0103635 0.00869071
1989 TIME 1 25382.3 5535.26 6262.1 1201.72 161.218 25.3256 8.27694 1.74057
0.544597 0.243967 0.0600761 0.0340536 0.0110543 0.00531127 0.00268931
0.00447959
1990 TIME 1 30004.8 14542.7 2134.23 853.527 115.27 10.0728 1.54168 0.591995
0.153856 0.0546849 0.0283482 0.00799919 0.00516412 0.00191497 0.000922305
0.00140772
1991 TIME 1 34148 16961.4 5285.56 451.132 137.855 12.7379 1.09362 0.193958
0.0899351 0.0261495 0.0105569 0.00615653 0.00194187 0.00140296 0.000521293
0.00070269
1992 TIME 1 37741 19651.5 6494.72 678.261 45.9127 14.7982 1.65239 0.185678
0.040801 0.0211663 0.00694619 0.00312476 0.00201351 0.000700832 0.000507206
0.000483002
1993 TIME 1 29403.6 21710.4 7356.56 825.385 69.6369 4.18365 1.5504 0.23464
0.0333857 0.00831251 0.00494164 0.00183404 0.000925072 0.000667958
0.000232957 0.00036444
1994 TIME 1 36781.3 16779.8 8376.89 1095.51 104.809 9.27755 0.655868
0.313817 0.0586331 0.00927545 0.00257816 0.00168547 0.000680974 0.000372578
0.000269396 0.000258524
1995 TIME 1 51638.5 20737 6520.63 926.606 115.471 15.5209 1.72168 0.15215
0.0890081 0.0180922 0.00311677 0.000934842 0.000655558 0.000283834 0.00015548
0.000234267
1996 TIME 1 39496.6 29839.8 11076.9 1457.82 161.491 16.489 2.27535 0.2939
0.0313577 0.0202964 0.00461741 0.000883071 0.000292429 0.000226619 9.82923e-
005 0.000147758
1997 TIME 1 41623.7 22882.9 16078.5 3586.26 374.444 36.0251 3.69359 0.553839
0.0800205 0.00910209 0.0063303 0.00153894 0.000313391 0.000110594 8.58033e-
005 9.87367e-005
1998 TIME 1 47168.6 24217.7 12913 7344.01 1203.66 101.171 9.67407 1.04917
0.169721 0.0256007 0.00305659 0.00222375 0.000564402 0.000120144 4.24326e-005
7.37942e-005
1999 TIME 1 37063.8 27428.7 13766.6 6056.03 2599.34 347.028 28.8917 2.91502
0.341658 0.0577758 0.00916451 0.00114698 0.000873134 0.000232232 4.94775e-005
5.0008e-005
2000 TIME 1 43364.1 21516 15712.7 6937.28 2500.39 914.004 121.698 10.5134
1.12758 0.136288 0.0238363 0.00390148 0.000503172 0.000395054 0.000105134
4.63535e-005
2001 TIME 1 43118.8 25245.5 12345.1 7557.72 2682.11 870.143 319.181 44.5327
4.08757 0.453312 0.0568597 0.0102885 0.00173887 0.000231654 0.000181984
7.18864e-005

2002 TIME 1 43910.7 25093.5 14207.5 5879.92 3212.47 1109 361.966 136.613
19.8675 1.86184 0.211173 0.0270417 0.00498985 0.000860288 0.00011465
0.000127967
2003 TIME 1 30962.7 25539.3 14445.9 6956.8 2537.25 1341.32 469.136 159.268
62.9178 9.36897 0.900667 0.104534 0.0136753 0.00257775 0.00044459 0.00012781
2004 TIME 1 42407.9 18004.6 14553.1 7258.84 2992.11 1026.28 545.08 197.151
69.8017 28.2265 4.31377 0.424721 0.05042 0.00674908 0.0012727 0.00028863
2005 TIME 1 18776.7 24655.7 10357.8 7119.19 2998.02 1179.49 407.491 224.542
84.9619 30.8453 12.8265 2.01128 0.202899 0.0246895 0.00330634 0.000782475
2006 TIME 1 14705.2 10865.8 13887.4 5364.47 3202.61 1201.14 460.95 161.287
91.8711 35.4327 13.1474 5.58047 0.89253 0.0919017 0.0111872 0.0018886
2007 TIME 1 12093.8 8539.67 6140.98 7043.83 2330.61 1282.84 482.118 191.528
70.0648 40.9121 16.2209 6.17394 2.6844 0.439959 0.0453214 0.00659462
2008 TIME 1 35164.3 6999.41 4689.59 2975.32 3011.11 957.562 531.176 206.44
85.565 32.0254 19.1773 7.78126 3.02695 1.34549 0.220606 0.0265643
2009 FORE 1 42099.3 19919.6 2029.44 1895.05 1152.74 1145.18 383.904 229.836
94.6489 40.2057 15.4078 9.40939 3.88399 1.53583 0.682873 0.127267

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
1975 E 80.0468 87.8272 2823.56 4039.05 1392.7 468.188 171.091 65.4643
28.8959 13.2395 7.05966 3.79774 2.11648 1.1972 0.681696 1.37969
1976 1 76.1605 73.7273 2898.98 2556.25 955.095 287.162 75.3778 55.3143
24.3224 11.0991 5.90679 3.17113 1.76433 0.996462 0.566556 1.14661
1977 1 49.7948 57.1205 1456.77 2793.09 686.269 267.928 88.7513 24.1036
20.0938 9.0397 4.75503 2.53544 1.40155 0.787239 0.445322 0.898264
1978 1 36.7011 42.0677 1257.41 1635.4 938.012 241.169 102.539 34.6663
10.5515 8.91688 4.58987 2.40965 1.31809 0.733351 0.411419 0.822147
1979 1 44.2543 57.3 1561.26 2271.29 947.937 593.711 170.148 75.136 28.703
8.92787 8.653 4.46183 2.40968 1.33018 0.741051 1.45844
1980 1 107.11 43.621 1199.26 1446.46 648.917 324.3 241.541 75.0176 38.6769
15.4073 5.58188 5.46293 2.91959 1.60105 0.889969 1.72872
1981 1 167.034 136.998 1037.65 1046.31 384.221 223.971 141.264 118.98
44.4397 24.4099 11.4702 4.2348 4.32971 2.36592 1.31498 2.53126
1982 1 556.886 4240.48 2578.94 244.51 44.6869 15.4872 8.99884 4.99508
4.31074 1.43867 0.860613 0.373562 0.132127 0.12646 0.0638533 0.122597
1983 1 1127.43 5861.96 1613.68 499.496 62.3344 17.0402 8.63081 6.50065
5.17751 5.50024 2.51061 1.67968 0.843731 0.337638 0.365468 0.685506
1984 1 506.585 4843.35 3078 987.742 442.068 74.8284 24.5583 13.0445 10.758
8.49501 9.80164 4.37946 2.92277 1.4416 0.561494 1.93777
1985 1 288.44 3487.07 3830.71 655.672 204.361 108.909 21.4153 7.37589
4.45033 3.76138 3.38809 3.92544 1.80577 1.21973 0.605166 1.20866
1986 1 169.711 4038.26 2233.63 924.122 210.175 92.5062 64.8481 15.0616
6.41172 4.30759 4.33097 4.1027 5.09975 2.47652 1.75969 3.00484
1987 1 116.542 5582.52 2981.52 394.56 198.696 58.8741 31.6465 24.8644
6.69295 3.06596 2.32801 2.42352 2.41249 3.11512 1.56778 3.32693
1988 1 124.236 5125.86 3557.19 846.805 145.611 95.2652 33.9264 20.3652
18.1401 5.22463 2.63868 2.06902 2.24689 2.31268 3.08241 5.20831
1989 1 41.6401 1502.69 1880.89 330.903 97.6596 23.4931 19.1241 7.49892
4.88235 4.39661 1.33665 0.669525 0.525961 0.56655 0.575248 2.19061
1990 1 8.36669 2577.57 385.199 101.045 13.1795 5.67122 2.14359 2.25746
1.10247 0.763653 0.771788 0.235561 0.120217 0.0946893 0.101514 0.546423
1991 1 5.38614 3346.44 1448.6 29.5983 0.868522 0.0161903 0.00123934
4.88308e-005 9.96116e-006 7.0661e-007 1.99801e-007 7.34555e-008 1.06966e-008
3.51155e-009 2.38195e-009 1.81953e-008

1992 1 109.357 5937.95 2010.58 67.017 0.637837 0.0178895 0.000461444
 2.23799e-005 1.58017e-006 2.39186e-007 5.09654e-008 1.93201e-008 1.50091e-008
 4.48881e-009 2.417e-009 1.831e-008
 1993 1 80.1387 4176.24 1432.97 124.845 9.71471 0.840281 0.287898 0.0568463
 0.0359658 0.0133896 0.0157657 0.00687023 0.00422067 0.00334735 0.000784181
 0.00379236
 1994 1 60.909 3325.01 2417.94 69.2712 0.751001 0.00774556 0.000110471
 3.27593e-006 1.42325e-007 2.05153e-008 8.58091e-009 1.14716e-008 6.86491e-009
 5.83283e-009 6.52612e-009 1.32749e-008
 1995 1 14.6805 2283.03 1306.64 50.3031 1.16734 0.022209 0.00061461 1.11107e-
 005 1.24249e-006 6.8538e-008 2.80537e-008 7.60681e-009 6.96396e-009 3.35039e-
 009 2.62845e-009 9.11246e-009
 1996 1 0.238244 1427.58 1691.33 154.827 20.4116 5.66926 1.72561 0.526108
 0.149904 0.11645 0.0544138 0.0594316 0.0391605 0.0589826 0.033705 0.132182
 1997 1 1.19043 257.8 1787.7 566.308 54.2442 9.47496 3.5613 1.29194 0.480505
 0.146886 0.131687 0.0627187 0.0711827 0.0478894 0.0731399 0.23383
 1998 1 0.417941 131.47 1276.47 1204.88 190.313 17.5173 3.03717 1.00603
 0.349125 0.110868 0.0340804 0.0272976 0.0119289 0.0121753 0.00724813
 0.0520169
 1999 1 0.178767 85.5376 1119.21 842.86 318.382 51.762 5.70773 1.11766
 0.470807 0.180681 0.0730689 0.0235867 0.0205877 0.00957281 0.0103428
 0.0638162
 2000 1 0.394708 162.854 1257.09 645.728 217.339 84.9839 15.7166 1.87345
 0.431851 0.193642 0.0877995 0.0365662 0.0124922 0.0113414 0.00546332 0.050003
 2001 1 10.0473 463.93 922.129 622.91 237.932 85.5338 37.9081 7.47625 1.00948
 0.241708 0.122177 0.0561564 0.024206 0.0084408 0.00778964 0.0430565
 2002 1 0.149612 361.936 1561.93 620.419 271.843 76.1493 21.3483 6.63503
 1.06869 0.10723 0.023803 0.0100214 0.00396137 0.00144317 0.000418117
 0.00277049
 2003 1 0.742874 353.445 1363.81 718.026 292.636 165.711 64.7712 22.8615
 10.2044 1.98094 0.276639 0.0676261 0.0326649 0.0144155 0.00584182 0.0170919
 2004 1 0.24556 233.896 1806.03 916.417 384.941 152.678 90.0348 33.7069
 12.7412 5.45105 1.17544 0.158543 0.0385904 0.018212 0.00778372 0.0144456
 2005 1 3.64192 253.499 661.268 933.455 538.275 293.552 157.858 118.613
 59.679 27.0763 14.7768 3.50704 0.532896 0.143504 0.0748545 0.109412
 2006 1 1.05671 179.183 1279.36 533.63 299.574 131.494 61.6971 27.0279
 18.0974 7.6572 3.34921 1.64167 0.357579 0.0492912 0.0119116 0.0163883
 2007 1 0.7619 121.457 487.594 630.655 209.952 118.793 56.6517 26.5503
 13.0339 8.66596 4.22205 1.82014 0.908344 0.197347 0.0269147 0.0184131
 2008 1 13.8512 4.54306 173.867 384.921 470.95 172.364 112.074 56.6577
 31.0168 15.8069 12.3757 6.09295 2.73483 1.39238 0.306424 0.083831
 fleet 1 fleetarea 1 gmorph 2
 Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 1975 E 106.725 62.9336 268.259 1296.1 1390.31 428.453 118.889 32.9868
 9.57238 2.82019 0.852844 0.26444 0.0837862 0.0287444 0.00937463 0.00516988
 1976 1 101.72 54.7598 273.127 757.779 895.863 249.029 50.7742 27.5008
 8.02298 2.3742 0.720118 0.223725 0.0709679 0.024347 0.0079433 0.00438054
 1977 1 66.5175 42.7648 144.961 775.58 529.693 199.13 53.0563 11.3745 6.60755
 1.9784 0.605545 0.189114 0.060126 0.0206753 0.00673006 0.00371299
 1978 1 49.0448 31.7321 126.093 457.309 628.312 145.2 53.0379 14.9198 3.42682
 2.04041 0.630385 0.198102 0.0631023 0.0216712 0.00706665 0.00387603
 1979 1 59.212 44.428 166.297 667.638 597.643 287.359 66.2613 26.1256 7.96076
 1.89134 1.1712 0.374126 0.120748 0.0415278 0.0136169 0.00746033
 1980 1 143.539 34.9951 138.078 477.418 442.498 128.294 63.6841 16.6766
 7.37797 2.37365 0.598331 0.389859 0.130006 0.0458374 0.015119 0.00841659
 1981 1 223.705 110.677 133.59 426.644 302.364 87.3988 26.6478 15.6217 4.7243
 2.23884 0.775749 0.208572 0.143776 0.0528145 0.0179561 0.0101851

1982 1 689.726 1968.04 2671.42 328.351 82.1738 13.1132 3.27465 1.01962
 0.64423 0.193044 0.0917359 0.0315983 0.00832467 0.00638265 0.00207261
 0.00123425
 1983 1 724.964 6717.3 1861.85 441.46 50.4288 15.0512 2.80189 0.889405
 0.342287 0.236465 0.0785458 0.0409535 0.0153574 0.00469525 0.00341523
 0.00206041
 1984 1 525.525 3058.12 2299.56 714.388 204.07 29.7749 10.7106 2.44929
 0.901923 0.368122 0.270016 0.0940347 0.0508215 0.0206355 0.00603715
 0.00762148
 1985 1 346.034 1430.36 4211.74 666.399 118.286 32.1448 5.03307 2.0514
 0.527272 0.201967 0.0863117 0.0657092 0.023535 0.0138912 0.00533071
 0.00386224
 1986 1 146.137 1805.21 2131.88 884.432 122.044 25.4877 8.17853 1.57862
 0.758207 0.210196 0.0872924 0.0400318 0.0324588 0.0127891 0.0073414
 0.00534867
 1987 1 147.463 1766.97 3473.24 479.816 119.439 18.3803 4.33689 1.63566
 0.358166 0.181733 0.0534165 0.0233233 0.0111749 0.00971847 0.00374099
 0.00398136
 1988 1 107.654 2977 4076.63 743.106 103.268 29.6565 5.26229 1.455 0.614257
 0.142246 0.0763777 0.0235697 0.0107478 0.00543669 0.00468364 0.00392762
 1989 1 43.3758 489.82 2792.07 501.389 56.6372 8.45757 2.70879 0.571059
 0.179615 0.0810137 0.0200666 0.0114215 0.00371254 0.00178369 0.000900564
 0.00150007
 1990 1 5.2578 794.637 558.744 199.521 22.1956 1.81506 0.266108 0.100368
 0.0259179 0.00914817 0.00470507 0.00131415 0.000835697 0.000309781 0.00014622
 0.000223175
 1991 1 5.26972 749.697 1875.96 136.309 20.9281 1.01837 0.0311382 0.00215843
 0.000589314 9.37738e-005 2.07115e-005 6.45583e-006 1.01489e-006 7.26141e-007
 1.29878e-007 1.75073e-007
 1992 1 76.6516 2590.83 2885.81 277.36 9.02961 1.4484 0.0530285 0.00212668
 0.000260634 6.95304e-005 1.16981e-005 2.62366e-006 7.79725e-007 2.68591e-007
 8.60925e-008 8.19841e-008
 1993 1 103.313 1260.17 2164.39 222.088 15.261 0.780802 0.226547 0.0273643
 0.00342001 0.000731029 0.000372691 0.000117696 4.93291e-005 3.5498e-005
 1.01618e-005 1.58971e-005
 1994 1 81.6404 320.159 3631.84 394.207 16.7883 0.662458 0.0123835 0.00180859
 0.000172047 1.26554e-005 1.63433e-006 4.82482e-007 8.10136e-008 4.38228e-008
 1.26405e-008 1.21304e-008
 1995 1 19.6155 71.7815 2185.81 238.763 12.3346 0.775728 0.0270668
 0.000868948 0.000288363 3.08679e-005 2.80745e-006 4.34797e-007 1.46695e-007
 6.28802e-008 1.60109e-008 2.41242e-008
 1996 1 0.318081 47.1982 1943.93 237.099 23.2087 2.21512 0.28354 0.0347134
 0.00359729 0.00225036 0.000494683 9.12022e-005 2.89153e-005 2.23881e-005
 9.25499e-006 1.39126e-005
 1997 1 0.80048 54.9072 625.163 380.239 60.0119 5.9305 0.610414 0.0909979
 0.0130452 0.001465 0.00100291 0.000239127 4.74608e-005 1.67391e-005 1.25951e-
 005 1.44936e-005
 1998 1 0.393015 20.7223 311.476 632.295 186.612 16.7986 1.59991 0.167589
 0.0263004 0.00380038 0.00043224 0.000297401 7.04117e-005 1.49667e-005
 4.88406e-006 8.49383e-006
 1999 1 0.211742 10.183 233.557 423.551 317.563 43.2694 3.5412 0.346263
 0.0395473 0.00645557 0.000985191 0.000118068 8.52301e-005 2.26438e-005
 4.54568e-006 4.59442e-006
 2000 1 0.280002 29.0045 431.355 466.297 192.827 69.4169 8.96239 0.748624
 0.0785147 0.00922131 0.00156422 0.000247531 3.06441e-005 2.40388e-005
 6.1125e-006 2.695e-006

2001 1 6.79012 170.684 481.572 483.363 181.44 57.9483 20.5508 2.77231
 0.248832 0.0268295 0.00326842 0.000573053 9.32946e-005 1.24192e-005 9.36567e-
 006 3.69958e-006
 2002 1 0.18702 30.5311 899.071 557.96 277.342 85.779 23.3541 7.43032
 0.978531 0.0815973 0.00823958 0.000935064 0.000150381 2.58592e-005 2.98115e-
 006 3.32743e-006
 2003 1 0.440176 75.9438 602.765 556.018 205.375 104.806 34.2811 10.8633
 4.11519 0.582307 0.0531405 0.00583574 0.000715714 0.000134734 2.16773e-005
 6.23175e-006
 2004 1 0.235195 30.1316 757.682 759.828 303.405 98.8766 47.9952 15.8861
 5.33542 2.02519 0.290338 0.0267231 0.00293442 0.000392185 6.80392e-005
 1.54303e-005
 2005 1 2.72173 94.145 252.715 385.831 264.534 121.642 45.0167 25.0924
 9.51472 3.45036 1.42887 0.222486 0.0221965 0.00270019 0.000356331 8.43289e-
 005
 2006 1 0.642943 49.2814 594.345 409.918 249.885 90.3238 32.2212 10.4403
 5.67302 2.06559 0.722632 0.288085 0.0428211 0.00440271 0.000495239 8.36057e-
 005
 2007 1 0.464017 33.6021 226.362 469.779 161.563 85.9165 30.0042 11.0293
 3.84584 2.11792 0.790949 0.282483 0.114031 0.0186614 0.00177469 0.000258232
 2008 1 18.5789 2.82494 16.1028 94.0249 265.997 91.946 51.3852 19.4824
 7.88306 2.85046 1.64215 0.637738 0.235112 0.10439 0.0161215 0.00194128
 fleet 2 fleetarea 1 gmorph 1
 Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 1975 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1976 1 84.7084 1191.11 1756.49 362.648 60.8671 7.42031 0.849238 0.238305
 0.0513238 0.0108222 0.00383 0.00131014 0.000477443 0.000174132 6.21149e-005
 0.000124573
 1977 1 83.4744 1390.87 1330.35 597.227 65.9178 10.4349 1.50707 0.156513
 0.0639066 0.0132848 0.00464701 0.0015788 0.000571638 0.000207346 7.35867e-005
 0.000147089
 1978 1 84.1929 1401.75 1571.36 478.525 123.294 12.8533 2.38272 0.308036
 0.0459223 0.0179325 0.00613829 0.00205331 0.000735675 0.000264319 9.30328e-
 005 0.000184227
 1979 1 111.37 2094.57 2140.39 729.073 136.689 34.7126 4.33739 0.73242
 0.137043 0.0196967 0.0126949 0.00417091 0.00147542 0.000525948 0.00018383
 0.000358518
 1980 1 300.963 1780.36 1835.7 518.416 104.475 21.1705 6.87488 0.816483
 0.206182 0.0379527 0.00914358 0.00570186 0.00199595 0.000706821 0.000246499
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1979 1 115.98 1411.4 2065.19 882.469 222.287 78.7901 12.6402 3.66944
0.947184 0.186797 0.0966426 0.0257475 0.00680877 0.00233378 0.000623874
0.000341803
1980 1 378.926 1498.35 2311.06 850.492 221.818 47.4097 16.3734 3.15686
1.18312 0.315959 0.0665413 0.0361609 0.00988017 0.0034718 0.000933588
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1981 1 438.523 3518.79 1660.32 564.377 112.55 23.9827 5.08747 2.19588
0.562551 0.221294 0.0640623 0.0143655 0.00811372 0.00297044 0.000823334
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1982 1 1392.48 3923.95 2424.29 289.211 64.6504 9.15958 1.89027 0.494175
0.282918 0.0757077 0.0321752 0.00988009 0.00229031 0.00175229 0.000498053
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1983 1 1098.78 4537.04 3053.29 770.789 78.0659 19.8759 2.82359 0.693428
0.230406 0.134249 0.0376629 0.0164932 0.00508554 0.00154957 0.000918607
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0.163103 0.0554458 0.0340387 0.00989169 0.00437663 0.00177103 0.000421511
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1986 1 673.744 3746.69 1952.9 567.162 62.6655 10.5445 2.42065 0.345392
0.140082 0.0319984 0.0109906 0.00415002 0.00271046 0.00106396 0.000487991
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1989 1 43.0146 170.794 733.384 126.891 11.831 1.44532 0.336194 0.0528675
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 1993 1 19.6278 2203.27 2.76294 0.000931405 4.86111e-006 3.05793e-007
 1.24127e-007 2.03335e-008 3.01475e-009 7.84149e-010 4.84459e-010 1.86205e-010
 9.71739e-011 7.02063e-011 2.5229e-011 3.94684e-011
 1994 1 183.706 1503.39 2.50306 0.00102274 6.68138e-006 6.34353e-007
 4.86679e-008 2.51625e-008 4.86098e-009 7.95869e-010 2.28225e-010 1.53617e-010
 6.39009e-011 3.49797e-011 2.59642e-011 2.49163e-011
 1995 1 132.725 489.495 193.098 16.1731 0.21433 0.0037955 1.55037e-005
 7.7944e-008 9.71834e-009 4.7773e-010 3.99747e-011 1.02285e-011 7.22632e-012
 3.13074e-012 1.77234e-012 2.67044e-012
 1996 1 52.724 398.101 219.149 16.9981 0.203541 0.00271737 1.35058e-005
 9.67578e-008 2.17244e-009 3.35165e-010 3.6519e-011 5.8764e-012 1.93263e-012
 1.49828e-012 6.62811e-013 9.96372e-013
 1997 1 12.3796 171.231 273.686 34.6535 0.378408 0.0047413 1.73418e-005
 1.42316e-007 4.29272e-009 1.15339e-010 3.80986e-011 7.73149e-012 1.55128e-012
 5.47576e-013 4.30253e-013 4.95106e-013
 1998 1 0.815497 82.6638 349.615 114.286 1.96646 0.0214959 7.32724e-005
 4.35377e-007 1.47142e-008 5.24799e-010 2.97924e-011 1.81144e-011 4.53587e-012
 9.6581e-013 3.45906e-013 6.01561e-013
 1999 1 28.1721 51.4712 353.777 92.6115 4.23991 0.0738148 0.000217734
 1.19661e-006 2.91512e-008 1.15825e-009 8.68312e-011 9.02707e-012 6.73551e-012
 1.79175e-012 3.84691e-013 3.88816e-013
 2000 1 0.921085 72.3648 491.192 127.948 5.03642 0.240688 0.00114007
 5.36378e-006 1.19705e-007 3.40399e-009 2.81638e-010 3.83243e-011 4.84812e-012
 3.807e-012 1.02144e-012 4.50355e-013
 2001 1 5.01931 269.856 475.754 179.408 7.18043 0.304899 0.00395014 2.97887e-
 005 5.66021e-007 1.46798e-008 8.66252e-010 1.2963e-010 2.13757e-011 2.84788e-
 012 2.24462e-012 8.8666e-013
 2002 1 36.0617 118.721 348.95 88.5191 5.44161 0.246615 0.00285642 5.83818e-
 005 1.76001e-006 3.86319e-008 2.0641e-009 2.18799e-010 3.94181e-011 6.79648e-
 012 9.09136e-013 1.01474e-012
 2003 1 20.4978 234.326 358.478 104.336 4.22998 0.292509 0.00362105 6.64563e-
 005 5.44082e-006 1.89771e-007 8.59554e-009 8.26158e-010 1.05589e-010 1.9905e-
 011 3.44855e-012 9.91381e-013
 2004 1 43.6091 99.6482 523.54 157.209 7.25 0.32563 0.00612946 0.000120002
 8.8116e-006 8.3535e-007 6.02008e-008 4.91222e-009 5.70147e-010 7.6326e-011
 1.44684e-011 3.28121e-012
 2005 1 86.1916 495.738 282.821 118.048 5.39782 0.274328 0.00332456 9.86435e-
 005 7.72026e-006 6.55086e-007 1.28054e-007 1.65964e-008 1.63314e-009
 1.98739e-010 2.67035e-011 6.31962e-012

2006 1 28.1488 179.091 387.198 90.3397 5.94455 0.291311 0.00395842 7.49534e-005 8.85345e-006 8.00278e-007 1.39971e-007 4.92257e-008 7.69643e-009 7.92562e-010 9.6971e-011 1.63705e-011
2007 1 54.1085 325.238 392.773 275.752 10.2368 0.738033 0.00981765 0.000210896 1.59858e-005 2.18551e-006 4.08051e-007 1.2856e-007 5.45884e-008 8.94748e-009 9.25538e-010 1.34673e-010
2008 1 429.155 2183.21 8.95761 0.0177205 0.00108302 0.000348447 0.000199367 7.938e-005 3.32434e-005 1.25672e-005 7.58846e-006 3.10164e-006 1.21501e-006 5.40144e-007 8.91096e-008 1.07301e-008

BIOLOGY 2 55 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 25 25.5 0.12445 1 0.12445 0.12445
2 26 26.5 0.14155 1 0.14155 0.14155
3 27 27.5 0.160232 1 0.160232 0.160232
4 28 28.5 0.180579 1 0.180579 0.180579
5 29 29.5 0.202673 1 0.202673 0.202673
6 30 30.5 0.226596 1 0.226596 0.226596
7 31 31.5 0.252433 1 0.252433 0.252433
8 32 32.5 0.280267 1 0.280267 0.280267
9 33 33.5 0.310187 1 0.310187 0.310187
10 34 34.5 0.342277 1 0.342277 0.342277
11 35 35.5 0.376627 1 0.376627 0.376627
12 36 36.5 0.413324 1 0.413324 0.413324
13 37 37.5 0.452458 1 0.452458 0.452458
14 38 38.5 0.494119 1 0.494119 0.494119
15 39 39.5 0.538399 1 0.538399 0.538399
16 40 40.5 0.58539 1 0.58539 0.58539
17 41 41.5 0.635184 1 0.635184 0.635184
18 42 42.5 0.687876 1 0.687876 0.687876
19 43 43.5 0.743558 1 0.743558 0.743558
20 44 44.5 0.802328 1 0.802328 0.802328
21 45 45.5 0.86428 1 0.86428 0.86428
22 46 46.5 0.929512 1 0.929512 0.929512
23 47 47.5 0.99812 1 0.99812 0.99812
24 48 48.5 1.0702 1 1.0702 1.0702
25 49 49.5 1.14586 1 1.14586 1.14586
26 50 50.5 1.22519 1 1.22519 1.22519
27 51 51.5 1.3083 1 1.3083 1.3083
28 52 52.5 1.39527 1 1.39527 1.39527
29 53 53.5 1.48623 1 1.48623 1.48623
30 54 54.5 1.58127 1 1.58127 1.58127
31 55 55.5 1.68048 1 1.68048 1.68048
32 56 56.5 1.78398 1 1.78398 1.78398
33 57 57.5 1.89188 1 1.89188 1.89188
34 58 58.5 2.00426 1 2.00426 2.00426
35 59 59.5 2.12125 1 2.12125 2.12125
36 60 60.5 2.24294 1 2.24294 2.24294
37 61 61.5 2.36945 1 2.36945 2.36945
38 62 62.5 2.50088 1 2.50088 2.50088
39 63 63.5 2.63734 1 2.63734 2.63734
40 64 64.5 2.77893 1 2.77893 2.77893
41 65 65.5 2.92577 1 2.92577 2.92577
42 66 66.5 3.07797 1 3.07797 3.07797
43 67 67.5 3.23564 1 3.23564 3.23564
44 68 68.5 3.39888 1 3.39888 3.39888
45 69 69.5 3.56782 1 3.56782 3.56782

46 70 70.5 3.74255 1 3.74255 3.74255
47 71 71.5 3.9232 1 3.9232 3.9232
48 72 72.5 4.10988 1 4.10988 4.10988
49 73 73.5 4.30271 1 4.30271 4.30271
50 74 74.5 4.50178 1 4.50178 4.50178
51 75 75.5 4.70723 1 4.70723 4.70723
52 76 76.5 4.91917 1 4.91917 4.91917
53 77 77.5 5.13771 1 5.13771 5.13771
54 78 78.5 5.36296 1 5.36296 5.36296
55 79 79.5 5.59506 1 5.59506 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 1976 1 0 0 0 0 0 0 0 0 0 2 0.287429 0.287429
2 1976 2 0 0 0 0 0 0 0 0 2 0.540621 0.540621
3 1976 1 0.5 6 29.61 62.12 0.200667 -1.86932 78.2523 0.001 0.001 0 2
0.287429 0.287429
4 1976 2 0.5 6 28.8967 53.195 0.213497 -2.30928 64.0635 0.001 0.001 0 2
0.540621 0.540621

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
RetWt:_1 Len:_2 SelWt:_2 RetWt:_2 Len:_3 SelWt:_3 RetWt:_3 Len:_4 SelWt:_4
RetWt:_4 Len:_5 SelWt:_5 RetWt:_5 Len:_6 SelWt:_6 RetWt:_6 Len:_7 SelWt:_7
RetWt:_7 Len:_8 SelWt:_8 RetWt:_8 Len:_9 SelWt:_9 RetWt:_9
1 1 1 1 1 0 0 0.5 0.287429 25 29.61 0.025 0.02961 0.12445 0.202673 1 0.38
0.0472911 29.5 0.202673 0.202673 29.5 0.202673 0.202673 29.5 0.202673
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1 1 1 1 1 1 1.5 0.287429 34.2536 38.4539 0.0342536 0.0384539 0.342277
0.494119 1 0.91 0.311472 38.5 0.494119 0.494119 38.5 0.494119 0.494119 38.5
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1 1 1 1 1 2 2 2.5 0.287429 42.2533 45.6899 0.0422533 0.0456899 0.687876
0.86428 1 0.98 0.674118 45.5 0.86428 0.86428 45.5 0.86428 0.86428 45.5
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1 1 1 1 1 3 3 3.5 0.287429 48.7984 51.6102 0.0487984 0.0516102 1.0702 1.3083
1 1 1.0702 51.5 1.3083 1.3083 51.5 1.3083 1.3083 51.5 1.3083 1.3083 51.5
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1 1 1 1 1 4 4 4.5 0.287429 54.1536 56.4542 0.0541536 0.0564542 1.58105
1.78398 1 1 1.58105 56.5 1.78398 1.78398 56.5 1.78398 1.78398 56.5 1.78398
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1 1 1 1 1 5 5 5.5 0.287429 58.5351 60.4174 0.0585351 0.0604174 2.00426
2.24294 1 1 2.00426 60.5 2.24294 2.24294 60.5 2.24294 2.24294 60.5 2.24294
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1 1 1 1 1 6 6 6.5 0.287429 62.12 63.6601 0.06212 0.0636601 2.49737 2.63734 1
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1 1 1 1 1 7 7 7.5 0.287429 65.0531 66.3132 0.0650531 0.0663132 2.89535
3.07797 1 1 2.89535 66.5 3.07797 3.07797 66.5 3.07797 3.07797 66.5 3.07797

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1 1 1 1 1 8 8 8.5 0.287429 67.4529 68.4839 0.0674529 0.0684839 3.23564
3.39888 1 1 3.23564 68.5 3.39888 3.39888 68.5 3.39888 3.39888 68.5 3.39888
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1 1 1 1 1 9 9 9.5 0.287429 69.4164 70.2599 0.0694164 0.0702599 3.56782
3.74253 1 1 3.56782 70.4999 3.74253 3.74253 70.4998 3.74252 3.74252 70.4999
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1 1 1 1 1 10 10 10.5 0.287429 71.0229 71.7131 0.0710229 0.0717131 3.85572
3.92321 1 1 3.85572 71.5 3.92321 3.92321 71.5 3.92321 3.92321 71.5 3.92321
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1 1 1 1 1 11 11 11.5 0.287429 72.3373 72.902 0.0723373 0.072902 4.10988
4.12712 1 1 4.10988 72.5787 4.12505 4.12505 72.5523 4.11996 4.11996 72.5888
4.127 4.127 72.5893 4.1271 4.1271 72.5595 4.12136 4.12136 72.5894 4.12712
4.12712 72.5894 4.12712 4.12712 72.5894 4.12712 4.12712 72.5894 4.12712
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1 1 1 1 1 12 12 12.5 0.287429 73.4127 73.8747 0.0734127 0.0738747 4.30271
4.31166 1 1 4.30271 73.5391 4.31049 4.31049 73.5253 4.30773 4.30773 73.5449
4.31164 4.31164 73.5449 4.31165 4.31165 73.529 4.30849 4.30849 73.545 4.31166
4.31166 73.545 4.31166 4.31166 73.545 4.31166 4.31166 73.545 4.31166 4.31166
1 1 1 1 1 13 13 13.5 0.287429 74.2926 74.6707 0.0742926 0.0746707 4.50177
4.50178 1 1 4.50177 74.5 4.50178 4.50178 74.5 4.50178 4.50178 74.5 4.50178
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1 1 1 1 1 14 14 14.5 0.287429 75.0126 75.3218 0.0750126 0.0753218 4.61818
4.70723 1 1 4.61818 75.5 4.70723 4.70723 75.5 4.70723 4.70723 75.5 4.70723
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28.5002 0.180583 0.180583 28.5003 0.180586 0.180586 28.5004 0.180588 0.180588
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0.376627 1 -1 0 35.5 0.376627 0.376627 35.5 0.376627 0.376627 35.5 0.376627
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1 2 1 2 1 2 2 2.5 0.540621 38.5334 41.1183 0.0385334 0.0411183 0.494119
0.635084 1 -1 0 41.4989 0.635132 0.635132 41.4982 0.635095 0.635095 41.4975
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1 2 1 2 1 4 4 4.5 0.540621 47.4059 49.0925 0.0474059 0.0490925 0.99812
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1 2 1 2 1 7 7 7.5 0.540621 55.2844 56.1733 0.0552844 0.0561733 1.68048
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1 2 1 2 1 11 11 11.5 0.540621 60.3261 60.7045 0.0603261 0.0607045 2.24294
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2.50088 1 -1 0 62.5 2.50088 2.50088 62.5 2.50088 2.50088 62.5 2.50088 2.50088
62.5 2.50088 2.50088 62.5 2.50088 2.50088 62.5 2.50088 2.50088 62.5 2.50088
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1 2 1 2 1 15 15 15.5 0.540621 62.4725 62.6336 0.0624725 0.0626336 2.50088
2.50088 1 -1 0 62.5 2.50088 2.50088 62.5 2.50088 2.50088 62.5 2.50088 2.50088
62.5 2.50088 2.50088 62.5 2.50088 2.50088 62.5 2.50088 2.50088 62.5 2.50088
2.50088 62.5 2.50088 2.50088 62.5 2.50088 2.50088

MEAN_BODY_WT(begin)

morph year season 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1 1976 1 0.12445 0.342277 0.687876 1.0702 1.58105 2.00426 2.49737 2.89535
3.23564 3.56782 3.85572 4.10988 4.30271 4.50177 4.61818 4.70723

2 1999 1 0.12445 0.280267 0.494119 0.743558 0.99812 1.22519 1.48622 1.68048
1.8177 2.00426 2.12125 2.24294 2.34005 2.36945 2.49228 2.50088
2 2000 1 0.12445 0.280267 0.494119 0.743558 0.99812 1.22519 1.48622 1.68048
1.8177 2.00426 2.12125 2.24294 2.34005 2.36945 2.49228 2.50088
2 2001 1 0.12445 0.280267 0.494119 0.743558 0.99812 1.22519 1.48622 1.68048
1.8177 2.00426 2.12125 2.24294 2.34005 2.36945 2.49228 2.50088
2 2002 1 0.12445 0.280267 0.494119 0.743558 0.99812 1.22519 1.48622 1.68048
1.8177 2.00426 2.12125 2.24294 2.34005 2.36945 2.49228 2.50088
2 2003 1 0.12445 0.280267 0.494119 0.743558 0.99812 1.22519 1.48622 1.68048
1.8177 2.00426 2.12125 2.24294 2.34005 2.36945 2.49228 2.50088
2 2004 1 0.12445 0.280267 0.494119 0.743558 0.99812 1.22519 1.48622 1.68048
1.8177 2.00426 2.12125 2.24294 2.34005 2.36945 2.49228 2.50088
2 2005 1 0.12445 0.280267 0.494119 0.743558 0.99812 1.22519 1.48622 1.68048
1.8177 2.00426 2.12125 2.24294 2.34005 2.36945 2.49228 2.50088
2 2006 1 0.12445 0.280267 0.494119 0.743558 0.99812 1.22519 1.48622 1.68048
1.8177 2.00426 2.12125 2.24294 2.34005 2.36945 2.49228 2.50088
2 2007 1 0.12445 0.280267 0.494119 0.743558 0.99812 1.22519 1.48622 1.68048
1.8177 2.00426 2.12125 2.24294 2.34005 2.36945 2.49228 2.50088
2 2008 1 0.12445 0.280267 0.494119 0.743558 0.99812 1.22519 1.48622 1.68048
1.8177 2.00426 2.12125 2.24294 2.34005 2.36945 2.49228 2.50088
2 2009 1 0.12445 0.280267 0.494119 0.743558 0.99812 1.22519 1.48622 1.68048
1.8177 2.00426 2.12125 2.24294 2.34005 2.36945 2.49228 2.50088

MEAN_SIZE_TIMESERIES

morph year season beg/mid 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1 1976 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1976 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 1977 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1977 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 1978 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1978 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 1979 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1979 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 1980 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1980 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 1981 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1981 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 1982 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1982 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 1983 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1983 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546

1 1998 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1998 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 1999 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1999 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 2000 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2000 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 2001 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2001 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 2002 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2002 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 2003 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2003 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 2004 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2004 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 2005 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2005 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 2006 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2006 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 2007 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2007 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 2008 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2008 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
1 2009 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2009 1 1 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132
68.4839 70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
2 1976 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1976 1 1 28.8967 35.6573 41.1183 45.5294 49.0925 51.9706 54.2954 56.1733
57.6901 58.9154 59.9051 60.7045 61.3503 61.8719 62.2932 62.6336
2 1977 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1977 1 1 28.8967 35.6573 41.1183 45.5294 49.0925 51.9706 54.2954 56.1733
57.6901 58.9154 59.9051 60.7045 61.3503 61.8719 62.2932 62.6336

2 2006 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 2006 1 1 28.8967 35.6573 41.1183 45.5294 49.0925 51.9706 54.2954 56.1733
57.6901 58.9154 59.9051 60.7045 61.3503 61.8719 62.2932 62.6336
2 2007 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 2007 1 1 28.8967 35.6573 41.1183 45.5294 49.0925 51.9706 54.2954 56.1733
57.6901 58.9154 59.9051 60.7045 61.3503 61.8719 62.2932 62.6336
2 2008 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 2008 1 1 28.8967 35.6573 41.1183 45.5294 49.0925 51.9706 54.2954 56.1733
57.6901 58.9154 59.9051 60.7045 61.3503 61.8719 62.2932 62.6336
2 2009 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 2009 1 1 28.8967 35.6573 41.1183 45.5294 49.0925 51.9706 54.2954 56.1733
57.6901 58.9154 59.9051 60.7045 61.3503 61.8719 62.2932 62.6336

mean_size_Jan_1_for_gender: 1

1 1976 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1977 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1978 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1979 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1980 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1981 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1982 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1983 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1984 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1985 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1986 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1987 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1988 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1989 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1990 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1991 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1992 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1993 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1994 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016

1 1995 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1996 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1997 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1998 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 1999 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2000 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2001 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2002 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2003 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2004 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2005 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2006 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2007 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2008 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016
1 2009 1 0 25 34.2536 42.2533 48.7984 54.1536 58.5351 62.12 65.0531 67.4529
69.4164 71.0229 72.3373 73.4127 74.2926 75.0126 75.6016

mean_size_Jan_1_for_gender: 2

2 1976 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1977 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1978 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1979 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1980 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1981 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1982 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1983 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1984 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1985 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1986 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1987 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725

2 1988 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1989 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1990 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1991 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1992 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1993 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1994 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1995 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1996 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1997 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1998 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 1999 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 2000 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 2001 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 2002 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 2003 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 2004 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 2005 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 2006 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 2007 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 2008 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725
2 2009 1 0 25 32.4573 38.5334 43.4414 47.4059 50.6083 53.195 55.2844 56.9722
58.3354 59.4366 60.3261 61.0446 61.625 62.0938 62.4725

AGE_LENGTH_KEY
sdratio 1000
sdwithin 1
sdbetween 1e-006

SEASON: 1 MORPH: 1
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78 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
77 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
76 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.0276667
75 0 0 0 0 0 0 0 0 0 0 0 0 0 5.15664e-006 0.99999 0.972333

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74 0 0 0 0 0 0 0 0 0 0 0 0 0.0449962 0.999995 9.65189e-006 9.81918e-030
73 0 0 0 0 0 0 0 0 0 0 0 0.0893952 0.955004 1.35546e-019 3.20638e-069
2.78116e-132
72 0 0 0 0 0 0 0 0 0 0 3.15074e-005 0.910605 1.23412e-032 3.8891e-111
6.73625e-209 3.5943e-310
71 0 0 0 0 0 0 0 0 0 0 0.999968 1.90069e-035 2.4841e-142 2.17405e-280 0 0
70 0 0 0 0 0 0 0 0 0 0.999892 1.37735e-023 2.66169e-150 0 0 0 0
69 0 0 0 0 0 0 0 0 2.43139e-014 0.0001081 2.27033e-126 0 0 0 0 0
68 0 0 0 0 0 0 0 0 1 3.52652e-072 1.96337e-313 0 0 0 0 0
67 0 0 0 0 0 0 0 0 0 8.05867e-013 3.09817e-227 0 0 0 0 0 0
66 0 0 0 0 0 0 0 0 0.999999 2.26793e-104 0 0 0 0 0 0 0
65 0 0 0 0 0 0 0 0 1.1673e-006 2.84184e-288 0 0 0 0 0 0 0
64 0 0 0 0 0 0 4.65912e-008 1.53469e-087 0 0 0 0 0 0 0 0
63 0 0 0 0 0 0 1 7.95851e-267 0 0 0 0 0 0 0 0
62 0 0 0 0 0 0 1.76185e-025 0 0 0 0 0 0 0 0 0
61 0 0 0 0 0 0 3.70519e-150 0 0 0 0 0 0 0 0 0
60 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
59 0 0 0 0 0 2.46157e-012 0 0 0 0 0 0 0 0 0 0
58 0 0 0 0 0 5.72053e-122 0 0 0 0 0 0 0 0 0 0
57 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
56 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0
55 0 0 0 0 4.3608e-016 0 0 0 0 0 0 0 0 0 0 0
54 0 0 0 0 1.44262e-146 0 0 0 0 0 0 0 0 0 0 0
53 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
52 0 0 0 2.15383e-014 0 0 0 0 0 0 0 0 0 0 0 0
51 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
50 0 0 0 1.51398e-032 0 0 0 0 0 0 0 0 0 0 0 0
49 0 0 0 6.08668e-214 0 0 0 0 0 0 0 0 0 0 0 0
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46 0 0 5.73874e-012 0 0 0 0 0 0 0 0 0 0 0 0 0
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44 0 0 8.60398e-052 0 0 0 0 0 0 0 0 0 0 0 0 0
43 0 0 1.11893e-299 0 0 0 0 0 0 0 0 0 0 0 0 0
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41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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38 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
37 0 1.90961e-032 0 0 0 0 0 0 0 0 0 0 0 0 0 0
36 0 4.61743e-313 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
29 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
28 1.45166e-094 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
27 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
mean 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132 68.4839
70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
sdszize 0.02961 0.0384539 0.0456899 0.0516102 0.0564542 0.0604174 0.0636601
0.0663132 0.0684839 0.0702599 0.0717131 0.072902 0.0738747 0.0746707
0.0753218 0.0758546

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SEASON: 1 MORPH: 2
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77 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
76 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
75 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
74 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
73 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
72 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
71 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
68 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
67 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
66 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
65 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
64 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
63 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2.45753e-009
62 0 0 0 0 0 0 0 0 0 0 0 0 0 0.0192031 0.999999 1
61 0 0 0 0 0 0 0 0 0 0 0 5.66625e-007 1 0.980797 1.25723e-006 2.41036e-024
60 0 0 0 0 0 0 0 0 0 0 0.0565738 0.999999 5.6779e-009 2.22172e-045 5.36366e-
096 3.31475e-150
59 0 0 0 0 0 0 0 0 0 0.075493 0.943426 1.9761e-031 1.27542e-107 2.58835e-201
6.52616e-297 0
58 0 0 0 0 0 0 0 0 3.92182e-008 0.924507 7.43177e-052 9.86104e-174 2.49503e-
321 0 0 0
57 0 0 0 0 0 0 0 1 1.0189e-054 3.46612e-222 0 0 0 0 0
56 0 0 0 0 0 0 0.998981 2.86503e-033 4.26688e-232 0 0 0 0 0
55 0 0 0 0 0 0.00101878 6.41057e-189 0 0 0 0 0 0
54 0 0 0 0 0 1 3.83098e-097 0 0 0 0 0 0 0
53 0 0 0 0 0 2.6599e-008 0 0 0 0 0 0 0
52 0 0 0 0 0.285783 4.55572e-126 0 0 0 0 0 0 0
51 0 0 0 0 0.714217 0 0 0 0 0 0 0 0
50 0 0 0 0 4.16796e-078 0 0 0 0 0 0 0 0
49 0 0 0 0.970215 7.68703e-315 0 0 0 0 0 0 0
48 0 0 0 0.0297847 0 0 0 0 0 0 0 0
47 0 0 0 5.67649e-110 0 0 0 0 0 0 0 0
46 0 0 0 0 0 0 0 0 0 0 0 0 0
45 0 0 0 1 0 0 0 0 0 0 0 0 0
44 0 0 0 1.53722e-031 0 0 0 0 0 0 0 0
43 0 0 0 1.28821e-247 0 0 0 0 0 0 0 0
42 0 0 0 0 0 0 0 0 0 0 0 0
41 0 0 0.99799 0 0 0 0 0 0 0 0 0
40 0 0 0.00201011 0 0 0 0 0 0 0 0 0
39 0 0 3.97683e-163 0 0 0 0 0 0 0 0 0
38 0 0 0 0 0 0 0 0 0 0 0 0
37 0 0 0 0 0 0 0 0 0 0 0 0
36 0 0 0 0 0 0 0 0 0 0 0 0
35 0 1 0 0 0 0 0 0 0 0 0 0
34 0 3.71303e-076 0 0 0 0 0 0 0 0 0
33 0 0 0 0 0 0 0 0 0 0 0 0
32 0 0 0 0 0 0 0 0 0 0 0 0
31 0 0 0 0 0 0 0 0 0 0 0 0
30 0 0 0 0 0 0 0 0 0 0 0 0
29 0.000174638 0 0 0 0 0 0 0 0 0 0 0

```

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28 0.999825 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
27 1.19527e-211 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
mean 28.8967 35.6573 41.1183 45.5294 49.0925 51.9706 54.2954 56.1733 57.6901
58.9154 59.9051 60.7045 61.3503 61.8719 62.2932 62.6336
sds size 0.0288967 0.0356573 0.0411183 0.0455294 0.0490925 0.0519706 0.0542954
0.0561733 0.0576901 0.0589154 0.0599051 0.0607045 0.0613503 0.0618719
0.0622932 0.0626336

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AGE_AGE_KEY

KEY: 1

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mean 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5 12.5 13.5 14.5 15.5
SD 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001
0.001 0.001 0.001 0.001
11 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
10 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0
9 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
8 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
7 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
6 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0
5 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
4 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
3 0 0 0 1 0 0 0 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 0 0 0
1 0 1 0 0 0 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 0 0 0
11 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
10 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0
9 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
8 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
7 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
6 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0
5 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
4 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
3 0 0 0 1 0 0 0 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 0 0 0
1 0 1 0 0 0 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 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
1976 1 8 1 3 AGE 0 1 1 1 55 0 9.97606e-005 0.000100194 -0.000612748 200
47.7287 -8.65474e-005 1
1976 1 8 1 3 AGE 0 1 1 1 55 1 0.0279566 0.0967632 -3.29146 200 47.7287 -
6.94226 1
1976 1 8 1 3 AGE 0 1 1 1 55 2 0.225453 0.261708 -1.16643 200 47.7287 -6.72377
1
1976 1 8 1 3 AGE 0 1 1 1 55 3 0.147989 0.0967934 2.44869 200 47.7287 12.5661
1
1976 1 8 1 3 AGE 0 1 1 1 55 4 0.0505773 0.0363929 1.0712 200 47.7287 3.3293 1
1976 1 8 1 3 AGE 0 1 1 1 55 5 0.0212131 0.0118256 1.2281 200 47.7287 2.47918
1
1976 1 8 1 3 AGE 0 1 1 1 55 6 0.00608188 0.00340305 0.650527 200 47.7287
0.706277 1

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0.0662099 1
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0.0509399 1
1976 1 8 1 3 AGE 0 1 1 1 55 9 9.97606e-005 0.000638813 -0.301716 200 47.7287
-0.0370478 1
1976 1 8 1 3 AGE 0 1 1 1 55 10 9.97606e-005 0.000350123 -0.189256 200 47.7287
-0.0250501 1
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0.022718 1
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1976 1 8 1 3 AGE 0 1 2 1 55 0 9.97606e-005 0.000100411 -0.000918129 200
47.7287 -0.000129681 1
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4.81153 1
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1976 1 8 1 3 AGE 0 1 2 1 55 11 9.97606e-005 0.000104029 -0.00591908 200
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