

SS2 ALTERNATIVE RUN (F08 SVAge comp.REP)

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

Time: Mon Mar 24 10:22:43 2008

Data_File: F08_MULTI_SVAGE.DAT
Control_File: F08_MULTI_SVAGE.CTL

Convergence_Level:
Hessian:
Sum_of_months_on_read_was:_ 12 rescaled_to_sum_to: 1

LIKELIHOOD 4856.09
indices 846.218
discard 0
length_comps 0
age_comps 3994.71
size-at-age 0
mean_body_wt 0
Equil_catch 0
catch 15.1549
Recruitment 0
Parm_priors 0
Parm_devs 0
penalties 0
Forecast_Recruitment 0

Fleet surv_lambda surv_like disc_lambda disc_like length_lambda length_like
age_lambda age_like sizeage_lambda sizeage_like
1 0 0 0 0 0 0 1 227.475 0 0
2 0 0 0 0 0 0 1 669.724 0 0
3 0 0 0 0 0 0 1 306.226 0 0
4 0 0 0 0 0 0 1 167.667 0 0
5 0 0 0 0 0 0 1 210.481 0 0
6 0 0 0 0 0 0 1 165.856 0 0
7 1 51.8476 0 0 0 0 1 95.0189 0 0
8 1 46.9423 0 0 0 0 1 215.315 0 0
9 1 26.899 0 0 0 0 1 223.489 0 0
10 1 172.422 0 0 0 0 1 164.952 0 0
11 1 259.163 0 0 0 0 1 464.187 0 0
12 1 38.1829 0 0 0 0 1 139.974 0 0
13 1 27.8704 0 0 0 0 1 173.175 0 0
14 1 59.5867 0 0 0 0 1 354.729 0 0
15 1 38.0936 0 0 0 0 1 132.604 0 0
16 1 12.1586 0 0 0 0 1 283.841 0 0
17 1 27.6408 0 0 0 0 1 0 0 0
18 1 29.2281 0 0 0 0 1 0 0 0
19 1 56.1833 0 0 0 0 1 0 0 0

Source Lambda Like
mean_body_wt 0 0
Equil_catch 0 0
Catch 10 1.51549

Recruitment 0 0
 Parm_priors 0 0
 Parm_devs 1 0
 penalties 0

Variance_adjustments_to_input_values 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
 17 18 19
 Index_extra_CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 Discard_extra_CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 MeanBodyWt_extra_CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 effN_mult_Lencomp 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 effN_mult_Agecomp 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 effN_mult_Len-at-age 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

PARAMETERS

Num Value Phase Min Max Init Prior PR_type SD Active_Cnt Prior_Like Bound
 M-G_parmsUsing_offset_approach#:_3
 Gender:_1__Pattern:_1
 1 0.2 -3
 2 0 -3
 3 28.1 -2
 4 60.2 -2
 5 0.2052 -3
 6 0.1 -2
 7 0 -3
 biology_parms
 8 2.44e-006 -3
 9 3.34694 -3
 10 28.1 -3
 11 -0.25 -3
 12 1 -3
 13 0 -3
 recrdist_by_growthpattern:1
 14 0 -3
 recrdist_by_area:1
 15 0 -3
 recrdist_by_seas:1
 16 4 -3
 cohort_growth_dev:2
 17 1 -3
 MGparm_env_linkages
 MG_parm_blockparms
 M-G_parm_devs 1
 1_YR1982 0 -

MGParm_Block_Assignments

SR_parms
 1 10.7263 1 3 31 10.1121 0 -1 99 1 0
 2 0.941285 1 0.2 1 0.8 0 -1 99 2 0
 3 0.6 -1
 4 0 -1
 5 -0.0527826 1 -5 5 0 0 -1 99 3 0
 6 0 -1
 Recr_Devs
 1982 0.379281 - - - - - 4
 1983 0.735238 - - - - - 5

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1984 0.1173 - - - - - 6
1985 0.435202 - - - - - 7
1986 0.535303 - - - - - 8
1987 0.241006 - - - - - 9
1988 -1.05693 - - - - - 10
1989 -0.0828879 - - - - - 11
1990 0.13574 - - - - - 12
1991 -0.0155899 - - - - - 13
1992 0.188584 - - - - - 14
1993 0.0376144 - - - - - 15
1994 0.0357273 - - - - - 16
1995 0.219397 - - - - - 17
1996 -0.159491 - - - - - 18
1997 -0.167965 - - - - - 19
1998 -0.132378 - - - - - 20
1999 -0.402027 - - - - - 21
2000 -0.178327 - - - - - 22
2001 -0.0985194 - - - - - 23
2002 0.0246805 - - - - - 24
2003 -0.299759 - - - - - 25
2004 0.177235 - - - - - 26
2005 -0.381848 - - - - - 27
2006 -0.286584 - - - - - 28
init_F_parms
1 1.69633 1 0 2 1 1 -1 10 29 0
2 0 -1
3 0 -1
4 0 -1
5 0 -1
6 0 -1
Q_parms
sel_parms
#_size_sel:_1
#_male
#_size_sel:_2
#_male
#_size_sel:_3
#_male
#_size_sel:_4
#_male
#_size_sel:_5
#_male
#_size_sel:_6
#_male
#_size_sel:_7
#_male
#_size_sel:_8
#_male
#_size_sel:_9
#_male
#_size_sel:_10
#_male
#_size_sel:_11
#_male
#_size_sel:_12
#_male
#_size_sel:_13

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#_male
#_size_sel:_14
#_male
#_size_sel:_15
#_male
#_size_sel:_16
#_male
#_size_sel:_17
#_male
#_size_sel:_18
#_male
#_size_sel:_19
#_male
#_age_sel:_1
1 1.97374 2 0.5 9 4 4 -1 99 30 0
2 -3 -3
3 5.3772e-009 3 0 9 2 2 -1 99 31 0 LO
4 9 -3
5 -999 -2
6 -999 -2
#_male
#_age_sel:_2
7 3.10267 2 0.5 9 4 4 -1 99 32 0
8 -3 -3
9 0.695128 3 0 9 2 2 -1 99 33 0
10 9 -3
11 -999 -2
12 -999 -2
#_male
#_age_sel:_3
13 1.02044 2 0.5 9 4 4 -1 99 34 0
14 2.99968 3 -9 3 -3 -3 -1 99 35 0 HI
15 5.34279e-008 3 0 9 2 2 -1 99 36 0 LO
16 8.92362 3 0 9 9 9 -1 99 37 0 HI
17 -999 -2
18 -9.31547 3 -10 10 0 5 -1 99 38 0
#_male
#_age_sel:_4
19 2.07057 2 0.5 9 4 4 -1 99 39 0
20 -8.99997 3 -9 3 -3 -3 -1 99 40 0 LO
21 0.433328 3 0 9 2 2 -1 99 41 0
22 3.14884e-007 3 0 9 9 9 -1 99 42 0 LO
23 -999 -2
24 -9.99843 3 -10 10 0 5 -1 99 43 0 LO
#_male
#_age_sel:_5
25 1.75411 2 0.5 9 4 4 -1 99 44 0
26 -3 -3
27 1.0821e-008 3 0 9 2 2 -1 99 45 0 LO
28 9 -3
29 -999 -2
30 -999 -2
#_male
#_age_sel:_6
31 1.61042 2 0.5 9 4 4 -1 99 46 0
32 -9 3 -9 3 -3 -3 -1 99 47 0 LO
33 2.06662e-008 3 0 9 2 2 -1 99 48 0 LO

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34 1.21969e-007 3 0 9 9 9 -1 99 49 0 LO
35 -999 -2
36 -9.99952 3 -10 10 0 5 -1 99 50 0 LO
#_male
#_age_sel:_7
37 2.62984 2 0.5 9 4 4 -1 99 51 0
38 -3 -3
39 0.799193 3 0 9 2 2 -1 99 52 0
40 9 -3
41 -999 -2
42 -999 -2
#_male
#_age_sel:_8
43 2.63079 2 0.5 9 4 4 -1 99 53 0
44 -3 -3
45 0.813735 3 0 9 2 2 -1 99 54 0
46 9 -3
47 -999 -2
48 -999 -2
#_male
#_age_sel:_9
49 1.00677 2 0.5 9 4 4 -1 99 55 0
50 -3 -3
51 2.3011e-007 3 0 9 2 2 -1 99 56 0 LO
52 9 -3
53 -999 -2
54 -999 -2
#_male
#_age_sel:_10
55 2.57629 2 0.5 9 4 4 -1 99 57 0
56 -3 -3
57 4.2168e-009 3 0 9 2 2 -1 99 58 0 LO
58 9 -3
59 -999 -2
60 -999 -2
#_male
#_age_sel:_11
61 2.39289 2 0.5 9 4 4 -1 99 59 0
62 -3 -3
63 9.51338e-010 3 0 9 2 2 -1 99 60 0 LO
64 9 -3
65 -999 -2
66 -999 -2
#_male
#_age_sel:_12
67 2.63304 2 0.5 9 4 4 -1 99 61 0
68 -3 -3
69 1.35641e-008 3 0 9 2 2 -1 99 62 0 LO
70 9 -3
71 -999 -2
72 -999 -2
#_male
#_age_sel:_13
73 1.55873 2 0.5 9 4 4 -1 99 63 0
74 -3 -3
75 4.80854e-009 3 0 9 2 2 -1 99 64 0 LO
76 9 -3

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77 -999 -2
78 -999 -2
#_male
#_age_sel:_14
79 2.37479 2 0.5 9 4 4 -1 99 65 0
80 -3 -3
81 8.68399e-010 3 0 9 2 2 -1 99 66 0 LO
82 9 -3
83 -999 -2
84 -999 -2
#_male
#_age_sel:_15
85 2.23303 2 0.5 9 4 4 -1 99 67 0
86 -3 -3
87 0.656754 3 0 9 2 2 -1 99 68 0
88 9 -3
89 -999 -2
90 -999 -2
#_male
#_age_sel:_16
91 0.999921 2 0.5 9 4 4 -1 99 69 0
92 -3 -3
93 0.206175 3 0 9 2 2 -1 99 70 0
94 9 -3
95 -999 -2
96 -999 -2
#_male
#_age_sel:_17
97 0 -3
98 0 -3
#_male
#_age_sel:_18
99 0 -3
100 0 -3
#_male
#_age_sel:_19
101 0 -3
102 0 -3
#_male
sel_parm_env_linkages
sel_parm_blockparms
103 2.65148 2 0.5 9 4 4 -1 99 71 0
104 0.0988482 3 0 9 2 2 -1 99 72 0
105 3.38705 2 0.5 9 4 4 -1 99 73 0
106 0.463316 3 0 9 2 2 -1 99 74 0
107 1.96104 2 0.5 9 4 4 -1 99 75 0
108 0.270113 3 0 9 2 2 -1 99 76 0
109 8.60703 3 0 9 9 9 -1 99 77 0
110 -9.92206 3 -10 10 0 5 -1 99 78 0 LO
111 2.18987 2 0.5 9 4 4 -1 99 79 0
112 6.69745e-008 3 0 9 2 2 -1 99 80 0 LO
113 1.68701e-007 3 0 9 9 9 -1 99 81 0 LO
114 1.10433 3 -10 10 0 5 -1 99 82 0
115 2.86846 2 0.5 9 4 4 -1 99 83 0
116 0.407388 3 0 9 2 2 -1 99 84 0
117 1.60548 2 0.5 9 4 4 -1 99 85 0
118 3.58325e-009 3 0 9 2 2 -1 99 86 0 LO

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119 1.68123e-008 3 0 9 9 9 -1 99 87 0 LO
 120 -5.64085 3 -10 10 0 5 -1 99 88 0
 SEL_parm_devs
 1_YR1982 0
 Forecast_Recr_Devs
 2007 0 - - - - - 89

Selex_Block_Assignments Years:

Base_parm#	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
1	0	0	0	0	0	0	0	0	0	0	0	0	0	103	103	103	103	103	103	103	103	103	103	103	103
3	0	0	0	0	0	0	0	0	0	0	0	0	0	104	104	104	104	104	104	104	104	104	104	104	104
7	0	0	0	0	0	0	0	0	0	0	0	0	0	105	105	105	105	105	105	105	105	105	105	105	105
9	0	0	0	0	0	0	0	0	0	0	0	0	0	106	106	106	106	106	106	106	106	106	106	106	106
13	0	0	0	0	0	0	0	0	0	0	0	0	0	107	107	107	107	107	107	107	107	107	107	107	107
15	0	0	0	0	0	0	0	0	0	0	0	0	0	108	108	108	108	108	108	108	108	108	108	108	108
16	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	109	109	109	109	109	109	109	109	109
18	0	0	0	0	0	0	0	0	0	0	0	0	0	110	110	110	110	110	110	110	110	110	110	110	110
19	0	0	0	0	0	0	0	0	0	0	0	0	0	111	111	111	111	111	111	111	111	111	111	111	111
21	0	0	0	0	0	0	0	0	0	0	0	0	0	112	112	112	112	112	112	112	112	112	112	112	112
22	0	0	0	0	0	0	0	0	0	0	0	0	0	113	113	113	113	113	113	113	113	113	113	113	113
24	0	0	0	0	0	0	0	0	0	0	0	0	0	114	114	114	114	114	114	114	114	114	114	114	114
25	0	0	0	0	0	0	0	0	0	0	0	0	0	115	115	115	115	115	115	115	115	115	115	115	115
27	0	0	0	0	0	0	0	0	0	0	0	0	0	116	116	116	116	116	116	116	116	116	116	116	116
31	0	0	0	0	0	0	0	0	0	0	0	0	0	117	117	117	117	117	117	117	117	117	117	117	117
33	0	0	0	0	0	0	0	0	0	0	0	0	0	118	118	118	118	118	118	118	118	118	118	118	118
34	0	0	0	0	0	0	0	0	0	0	0	0	0	119	119	119	119	119	119	119	119	119	119	119	119
36	0	0	0	0	0	0	0	0	0	0	0	0	0	120	120	120	120	120	120	120	120	120	120	120	120

RECR_DIST

G_pattern gender Seas Area Value Used?
 1 1 1 1 1 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	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1982	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1983	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1984	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1985	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1986	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1987	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1988	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1989	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1990	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1991	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1992	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1993	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1994	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1995	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1996	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1997	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1998	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1

```

1999  0.2 0 28.1 60.2 0.2052 0.1 0 2.44e-006 3.34694 28.1 -0.25 1 0 0 0 4 1
2000  0.2 0 28.1 60.2 0.2052 0.1 0 2.44e-006 3.34694 28.1 -0.25 1 0 0 0 4 1
2001  0.2 0 28.1 60.2 0.2052 0.1 0 2.44e-006 3.34694 28.1 -0.25 1 0 0 0 4 1
2002  0.2 0 28.1 60.2 0.2052 0.1 0 2.44e-006 3.34694 28.1 -0.25 1 0 0 0 4 1
2003  0.2 0 28.1 60.2 0.2052 0.1 0 2.44e-006 3.34694 28.1 -0.25 1 0 0 0 4 1
2004  0.2 0 28.1 60.2 0.2052 0.1 0 2.44e-006 3.34694 28.1 -0.25 1 0 0 0 4 1
2005  0.2 0 28.1 60.2 0.2052 0.1 0 2.44e-006 3.34694 28.1 -0.25 1 0 0 0 4 1
2006  0.2 0 28.1 60.2 0.2052 0.1 0 2.44e-006 3.34694 28.1 -0.25 1 0 0 0 4 1

```

SELParm(Size)_By_Year_after_adjustments
Fleet/Svy Year

SELParm(Age)_By_Year_after_adjustments
Fleet/Svy Year

```

1 1982  1.97374 -3 5.3772e-009 9 -999 -999
1 1995  2.65148 -3 0.0988482 9 -999 -999
2 1982  3.10267 -3 0.695128 9 -999 -999
2 1995  3.38705 -3 0.463316 9 -999 -999
3 1982  1.02044 2.99968 5.34279e-008 8.92362 -999 -9.31547
3 1995  1.96104 2.99968 0.270113 8.60703 -999 -9.92206
4 1982  2.07057 -8.99997 0.433328 3.14884e-007 -999 -9.99843
4 1995  2.18987 -8.99997 6.69745e-008 1.68701e-007 -999 1.10433
5 1982  1.75411 -3 1.0821e-008 9 -999 -999
5 1995  2.86846 -3 0.407388 9 -999 -999
6 1982  1.61042 -9 2.06662e-008 1.21969e-007 -999 -9.99952
6 1995  1.60548 -9 3.58325e-009 1.68123e-008 -999 -5.64085
7 1982  2.62984 -3 0.799193 9 -999 -999
8 1982  2.63079 -3 0.813735 9 -999 -999
9 1982  1.00677 -3 2.3011e-007 9 -999 -999
10 1982  2.57629 -3 4.2168e-009 9 -999 -999
11 1982  2.39289 -3 9.51338e-010 9 -999 -999
12 1982  2.63304 -3 1.35641e-008 9 -999 -999
13 1982  1.55873 -3 4.80854e-009 9 -999 -999
14 1982  2.37479 -3 8.68399e-010 9 -999 -999
15 1982  2.23303 -3 0.656754 9 -999 -999
16 1982  0.999921 -3 0.206175 9 -999 -999
17 1982  0 0
18 1982  0 0
19 1982  0 0

```

EXPLOITATION Hrate_is_Continuous_F Fleet_in_columns;_year_in_rows

```

yr seas 1 2 3 4 5 6
init_yr 1 1.69633 0 0 0 0 0
1982 1 0.696923 0.520672 0 0 0.651114 0.0215592
1983 1 0.848389 0.517252 0 0 0.0885099 0.0241223
1984 1 0.817659 0.813321 0 0 0.505292 0.0228049
1985 1 0.829448 0.570227 0 0 0.38806 0.00596932
1986 1 0.902398 0.481583 0 0 0.643524 0.0420524
1987 1 0.87767 0.423746 0 0 0.40364 0.0348759
1988 1 1.09054 0.559255 0 0 0.54739 0.0267095
1989 1 0.860061 0.456393 0.072753 0 0.190601 0.00596043
1990 1 0.500825 0.366903 0.112288 0 0.331257 0.0323731
1991 1 0.634453 0.432054 0.0850217 0 0.426588 0.0492399
1992 1 0.923679 0.316181 0.0563009 0 0.400297 0.0396348
1993 1 0.600873 0.349938 0.0630537 0 0.456399 0.0955669
1994 1 0.593916 0.372075 0.0316709 0.0540191 0.436667 0.0675514
1995 1 1.03891 0.818268 0.0149126 0.0249021 0.555775 0.0706187

```


1996 1 0.626286 0.589045 0.0277906 0.0110119 0.746611 0.0466988
 1997 1 0.329654 0.116107 0.0139905 0.00589162 0.583565 0.030762
 1998 1 0.289486 0.149022 0.0130693 0.00803391 0.464551 0.0381168
 1999 1 0.229564 0.113352 0.0530287 0.0190647 0.254777 0.0348294
 2000 1 0.20546 0.117052 0.0251532 0.00648873 0.454832 0.0476486
 2001 1 0.212397 0.0927343 0.00969099 0.0117605 0.312372 0.0647091
 2002 1 0.241676 0.123545 0.0113368 0.00616481 0.190803 0.0351759
 2003 1 0.20731 0.0896376 0.0140383 0.00305609 0.233258 0.0339814
 2004 1 0.220803 0.102171 0.00480198 0.00238279 0.181646 0.0380037
 2005 1 0.199172 0.0740993 0.00392251 0.00232279 0.159754 0.0341463
 2006 1 0.121588 0.0609425 0.0047057 0.00185252 0.139819 0.0255747
 2007 1 0.0544083 0.0272707 0.00210571 0.000828969 0.0625663 0.0114442

TIME_SERIES Bio-Smry_age:_1 Hrate_is_Continuous_F
 pop year period season bio-all bio-smry SpawnBio recruit-0 enc_catch:_1
 dead_catch:_1 ret_catch:_1 obs_cat:_1 Hrate-1 enc_catch:_2 dead_catch:_2
 ret_catch:_2 obs_cat:_2 Hrate-2 enc_catch:_3 dead_catch:_3 ret_catch:_3
 obs_cat:_3 Hrate-3 enc_catch:_4 dead_catch:_4 ret_catch:_4 obs_cat:_4 Hrate-4
 enc_catch:_5 dead_catch:_5 ret_catch:_5 obs_cat:_5 Hrate-5 enc_catch:_6
 dead_catch:_6 ret_catch:_6 obs_cat:_6 Hrate-6 SPB_vir_LH
 1 1980 VIRG 1 364568 364258 362975 45538.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 362998
 1 1981 INIT 1 22218.4 21924 20939.8 43197 18393.4 18393.4 18393.4 10000
 1.69633 0 20939.8
 1 1982 TIME 1 22225.9 21924 20939.8 44297.1 7487.62 7487.62 7487.62 7536
 0.696923 2842.42 2842.42 2842.42 2864 0.520672 0 0 0 0 0 0 0 0 0 0 8274.41
 8274.41 8274.41 8267 0.651114 296.102 296.102 296.102 296 0.0215592 20942.7
 1 1983 TIME 1 21981.5 21552.7 20457.2 62916.4 10244.7 10244.7 10244.7 10201
 0.848389 3178.31 3178.31 3178.31 3178.31 3201 0.517252 0 0 0 0 0 0 0 0 1270.16
 1270.16 1270.16 1268 0.0885099 376.339 376.339 376.339 376 0.0241223 20620.1
 1 1984 TIME 1 30300 30053.6 28486.6 36151.1 11409 11409 11409 11455 0.817659
 5646.89 5646.89 5646.89 5674 0.813321 0 0 0 0 0 0 0 0 0 0 8449.2 8449.2
 8449.2 8512 0.505292 414.88 414.88 414.88 415 0.0228049 28580.2
 1 1985 TIME 1 24233.9 23908.6 22902.2 47725.9 10630.9 10630.9 10630.9 10767
 0.829448 3879.77 3879.77 3879.77 3907 0.570227 0 0 0 0 0 0 0 0 0 0 5645.71
 5645.71 5645.71 5665 0.38806 92.0003 92.0003 92.0003 92 0.00596932 23025.8
 1 1986 TIME 1 23502.6 23146.1 21983.1 52311.7 9551 9551 9551 9500 0.902398
 2685.02 2685.02 2685.02 2687 0.481583 0 0 0 0 0 0 0 0 0 0 8165.61 8165.61
 8165.61 8102 0.643524 578.422 578.422 578.422 578 0.0420524 22118.6
 1 1987 TIME 1 23165 22900.3 21641.1 38847.8 9958.8 9958.8 9958.8 9945 0.87767
 2318.16 2318.16 2318.16 2326 0.423746 0 0 0 0 0 0 0 0 0 0 5525.24 5525.24
 5525.24 5519 0.40364 522.148 522.148 522.148 522 0.0348759 21741.8
 1 1988 TIME 1 22870.9 22798.5 21764.2 10621.7 11374 11374 11374 11616 1.09054
 3025.39 3025.39 3025.39 3071 0.559255 0 0 0 0 0 0 0 0 0 0 6566.64 6566.64
 6566.64 6634 0.54739 340.946 340.946 340.946 341 0.0267095 21791.7
 1 1989 TIME 1 11840.9 11680.2 11322.3 23587 5937.23 5937.23 5937.23 6218
 0.860061 1870.08 1870.08 1870.08 1908 0.456393 706.675 706.675 706.675 709
 0.072753 0 0 0 0 1420.73 1420.73 1420.73 1435 0.190601 44.9895 44.9895
 44.9895 45 0.00596043 11383.4
 1 1990 TIME 1 10872.7 10680.2 10143 28244.9 2874.63 2874.63 2874.63 2962
 0.500825 1223.39 1223.39 1223.39 1237 0.366903 1202.58 1202.58 1202.58 1214
 0.112288 0 0 0 0 2276.96 2276.96 2276.96 2329 0.331257 233.481 233.481
 233.481 234 0.0323731 10216.1
 1 1991 TIME 1 13738.1 13558.9 12874.7 26297 4444.85 4444.85 4444.85 4629
 0.634453 1559.88 1559.88 1559.88 1595 0.432054 1048.74 1048.74 1048.74 1052
 0.0850217 0 0 0 0 3525.65 3525.65 3525.65 3611 0.426588 428.098 428.098
 428.098 429 0.0492399 12942.8

1 1992 TIME 1 13982.4 13761.4 13109.2 32432.6 6421.61 6421.61 6421.61 6361
0.923679 1165.14 1165.14 1165.14 1168 0.316181 690.297 690.297 690.297 690
0.0563009 0 0 0 0 3256.47 3256.47 3256.47 3242 0.400297 344.327 344.327
344.327 344 0.0396348 13193.2
1 1993 TIME 1 14630.2 14437.7 13667.8 28239.9 4429.92 4429.92 4429.92 4401
0.600873 1315.19 1315.19 1315.19 1313 0.349938 846.109 846.109 846.109 846
0.0630537 0 0 0 0 4024.85 4024.85 4024.85 4006 0.456399 910.873 910.873
910.873 910 0.0955669 13741
1 1994 TIME 1 15312.6 15117.6 14405.9 28620.9 4831.99 4831.99 4831.99 4969
0.593916 1602.32 1602.32 1602.32 1620 0.372075 432.968 432.968 432.968 434
0.0316709 470.805 470.805 470.805 472 0.0540191 4115.93 4115.93 4115.93 4231
0.436667 675.127 675.127 675.127 678 0.0675514 14480
1 1995 TIME 1 15441.5 15206.7 14493.8 34451 4618.35 4618.35 4618.35 4911
1.03891 1989.27 1989.27 1989.27 2066 0.818268 137.946 137.946 137.946 138
0.0149126 169.778 169.778 169.778 170 0.0249021 2377.31 2377.31 2377.31 2450
0.555775 752.71 752.71 752.71 752 0.0706187 14583.1
1 1996 TIME 1 19639.1 19467.8 18540.4 25144.7 3972.01 3972.01 3972.01 3947
0.626286 1887.08 1887.08 1887.08 1913 0.589045 356.228 356.228 356.228 355
0.0277906 108.079 108.079 108.079 108 0.0110119 4482.93 4482.93 4482.93 4454
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683.671 683.671 683.671 681 0.116107 239.686 239.686 239.686 239 0.0139905
86.1012 86.1012 86.1012 86 0.00589162 5730.52 5730.52 5730.52 5382 0.583565
559.89 559.89 559.89 556 0.030762 21194.5
1 1998 TIME 1 25298.3 25111.7 24367.8 27386.1 3850.64 3850.64 3850.64 3730
0.289486 1362.49 1362.49 1362.49 1346 0.149022 254.369 254.369 254.369 254
0.0130693 135.134 135.134 135.134 135 0.00803391 5941.88 5941.88 5941.88 5659
0.464551 737.042 737.042 737.042 734 0.0381168 24438.7
1 1999 TIME 1 27486.3 27341.5 26554.1 21247.3 3619.57 3619.57 3619.57 3551
0.229564 1280.91 1280.91 1280.91 1271 0.113352 1185.7 1185.7 1185.7 1181
0.0530287 367.592 367.592 367.592 367 0.0190647 3872.97 3872.97 3872.97 3795
0.254777 711.987 711.987 711.987 711 0.0348294 26609.1
1 2000 TIME 1 29967.2 29783.2 29116.4 26996.8 3623.82 3623.82 3623.82 3564
0.20546 1533.45 1533.45 1533.45 1521 0.117052 593.186 593.186 593.186 592
0.0251532 134.069 134.069 134.069 134 0.00648873 7742.29 7742.29 7742.29 7470
0.454832 953.742 953.742 953.742 952 0.0476486 29186.3
1 2001 TIME 1 29599 29400.3 28655.3 29162.3 3748.99 3748.99 3748.99 3705
0.212397 1271.92 1271.92 1271.92 1265 0.0927343 230.136 230.136 230.136 230
0.00969099 238.136 238.136 238.136 238 0.0117605 5374.75 5374.75 5374.75 5279
0.312372 1276.56 1276.56 1276.56 1274 0.0647091 28730.9
1 2002 TIME 1 32516.2 32288 31451.9 33483.4 4801.1 4801.1 4801.1 4723
0.241676 1855.63 1855.63 1855.63 1850 0.123545 307.362 307.362 307.362 307
0.0113368 142.086 142.086 142.086 142 0.00616481 3672.73 3672.73 3672.73 3632
0.190803 779.312 779.312 779.312 777 0.0351759 31538.6
1 2003 TIME 1 37943.5 37774.7 36819.8 24764.3 4897.01 4897.01 4897.01 4835
0.20731 1618 1618 1618 1614 0.0896376 445.61 445.61 445.61 445 0.0140383
83.0236 83.0236 83.0236 83 0.00305609 5348.77 5348.77 5348.77 5279 0.233258
885.836 885.836 885.836 882 0.0339814 36884
1 2004 TIME 1 41067.1 40792.2 39994.5 40333.2 6118.7 6118.7 6118.7 6036
0.220803 2196.4 2196.4 2196.4 2193 0.102171 170.076 170.076 170.076 170
0.00480198 74.0182 74.0182 74.0182 74 0.00238279 4877.39 4877.39 4877.39 4831
0.181646 1039.13 1039.13 1039.13 1034 0.0380037 40098.9
1 2005 TIME 1 45927.9 45768.7 44695.8 23368.8 6053.35 6053.35 6053.35 5984
0.199172 1847.05 1847.05 1847.05 1841 0.0740993 153.024 153.024 153.024 153
0.00392251 77.011 77.011 77.011 77 0.00232279 4765.4 4765.4 4765.4 4724
0.159754 1000.34 1000.34 1000.34 999 0.0341463 44756.3

1 2006 TIME 1 49313.5 49136.8 48312.5 25925.7 4479.09 4479.09 4479.09 4481
0.121588 1780.44 1780.44 1780.44 1781 0.0609425 214 214 214 214 0.0047057 74
74 74 74 0.00185252 4989.39 4989.39 4989.39 4992 0.139819 795.14 795.14
795.14 795 0.0255747 48379.7
1 2007 FORE 1 53899 53614.6 52970.8 41729.8 2447.68 2447.68 2447.68 2447.68
0.0544083 1063.17 1063.17 1063.17 1063.17 0.0272707 109.781 109.781 109.781
109.781 0.00210571 37.6537 37.6537 37.6537 37.6537 0.000828969 2773.31
2773.31 2773.31 2773.31 0.0625663 374.512 374.512 374.512 374.512 0.0114442
52970.8

SPR_series uses_R0= 45538.3 ###note_Y/R_unit_is_Dead_Biomass
Year Bio_all Bio_Smry SPBzero SPBfished SPBfished/R SPR Y/R GenTime Actual:
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More_F(by_morph): aveF-1 maxF-1
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22225.9 21924 18900.6 18900.6 18900.6 20939.8 44297.1 0.850384 + 1.77013
1.88487
1983 28903.3 28592.9 362975 27503.9 0.603974 0.0757737 0.457077 0.195501 +
21981.5 21552.7 15069.5 15069.5 15069.5 20457.2 62916.4 0.685554 + 1.36853
1.47254
1984 22037.6 21727.3 362975 20714.8 0.454888 0.0570696 0.416716 0.0998648 +
30300 30053.6 25920 25920 25920 28486.6 36151.1 0.855446 + 2.01001 2.15218
1985 24377.7 24067.4 362975 23026.6 0.505654 0.0634386 0.430905 0.140805 +
24233.9 23908.6 20248.4 20248.4 20248.4 22902.2 47725.9 0.835542 + 1.6846
1.79026
1986 20866 20555.6 362975 19565.6 0.429653 0.0539036 0.407294 0.111259 +
23502.6 23146.1 20980.1 20980.1 20980.1 21983.1 52311.7 0.89267 + 1.92717
2.06148
1987 23909.1 23598.7 362975 22567.1 0.495562 0.0621725 0.426955 0.152803 +
23165 22900.3 18324.4 18324.4 18324.4 21641.1 38847.8 0.791036 + 1.61809
1.73312
1988 20463 20152.6 362975 19164 0.420833 0.0527971 0.405597 0.0941261 +
22870.9 22798.5 21306.9 21306.9 21306.9 21764.2 10621.7 0.931618 + 2.08152
2.2176
1989 25369.9 25059.6 362975 24029.6 0.527679 0.0662018 0.432925 0.185625 +
11840.9 11680.2 9979.7 9979.7 9979.7 11322.3 23587 0.842814 + 1.48775
1.58284
1990 26672 26361.7 362975 25345.8 0.556582 0.0698279 0.434153 0.251431 +
10872.7 10680.2 7811.03 7811.03 7811.03 10143 28244.9 0.718409 + 1.24128
1.33745
1991 23613.7 23303.4 362975 22305.3 0.489815 0.0614514 0.419944 0.188231 +
13738.1 13558.9 11007.2 11007.2 11007.2 12874.7 26297 0.801216 + 1.49757
1.61851
1992 22521.6 22211.3 362975 21214 0.46585 0.0584449 0.415346 0.162926 +
13982.4 13761.4 11877.8 11877.8 11877.8 13109.2 32432.6 0.849486 + 1.61466
1.72911
1993 23834.8 23524.5 362975 22522.5 0.494585 0.0620499 0.42095 0.204881 +
14630.2 14437.7 11526.9 11526.9 11526.9 13667.8 28239.9 0.787889 + 1.40772
1.55091
1994 24677.3 24367 362975 23346.1 0.51267 0.0643189 0.427584 0.205787 +
15312.6 15117.6 12129.1 12129.1 12129.1 14405.9 28620.9 0.792101 + 1.37827
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1995 31626.6 31316.3 362975 30147.6 0.662028 0.083057 0.490402 0.0743422 +
15441.5 15206.7 10045.4 10045.4 10045.4 14493.8 34451 0.650544 + 2.21942
2.46005

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 19639.1 19467.8 11493.4 11493.4 11493.4 18540.4 25144.7 0.585229 + 1.8112
 2.0062
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 21908.1 10753.4 10753.4 10753.4 21128 25677 0.486952 + 0.956848 1.0644
 1998 50408.2 50097.9 362975 48885.5 1.0735 0.13468 0.551037 0.333938 +
 25298.3 25111.7 12281.6 12281.6 12281.6 24367.8 27386.1 0.485469 + 0.842946
 0.942859
 1999 60268.8 59958.5 362975 58745.1 1.29002 0.161844 0.562568 0.44757 +
 27486.3 27341.5 11038.7 11038.7 11038.7 26554.1 21247.3 0.401608 + 0.609689
 0.689104
 2000 53494.3 53184 362975 51974.1 1.14133 0.143189 0.554058 0.378438 +
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 2004 74294.2 73983.9 362975 72755.2 1.59767 0.200441 0.579058 0.496789 +
 41067.1 40792.2 14475.7 14475.7 14475.7 39994.5 40333.2 0.35249 + 0.46989
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 0.461642
 2006 102651 102340 362975 101102 2.22015 0.278537 0.577099 0.594881 +
 49313.5 49136.8 12332.1 12332.1 12332.1 48312.5 25925.7 0.250075 + 0.30218
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 2007 173958 173647 362975 172397 3.78577 0.474957 0.487189 0.709693 + 53899
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 0 env_link_
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 year spawn_bio exp-recr with-env bias-adj pred-recr dev
 S/Rcurve 362975 45538.3
 Virg 362975 45538.3 45538.3 38036.8 45538.3
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 2007 52970.8 41729.8 41729.8 41729.8 41729.8 0 forecast

N_est r.m.s.e.
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INDEX_2

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 7 1994 18626.7 12.05 10.0762 0.000540955 0.16 0.17889 0.625031 -1.20755
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 7 1996 23779.2 31.25 12.8635 0.000540955 0.16 0.887626 15.3883 13.5557
 7 1997 27129 10.28 14.6756 0.000540955 0.16 -0.355986 2.47511 0.642533
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 7 1999 30223.6 11.06 16.3496 0.000540955 0.16 -0.390868 2.98394 1.15136
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18 1987 38847.8 7.584 10.4036 0.000267804 0.4 -0.316111 0.31227 -0.604021
18 1988 10621.7 1.763 2.84454 0.000267804 0.4 -0.478383 0.715158 -0.201132
18 1989 23587 2.855 6.31671 0.000267804 0.4 -0.794126 1.97074 1.05445
18 1990 28244.9 4.733 7.56409 0.000267804 0.4 -0.468853 0.686946 -0.229345

18 1991 26297 7.337 7.04244 0.000267804 0.4 0.0409754 0.00524682 -0.911044
18 1992 32432.6 8.487 8.68559 0.000267804 0.4 -0.02313 0.00167187 -0.914619
18 1993 28239.9 4.145 7.56276 0.000267804 0.4 -0.601333 1.13 0.213713
18 1994 28620.9 22.311 7.66479 0.000267804 0.4 1.06844 3.56741 2.65112
18 1995 34451 13.067 9.22612 0.000267804 0.4 0.348051 0.378562 -0.537729
18 1996 25144.7 6.493 6.73387 0.000267804 0.4 -0.0364248 0.00414615 -0.912145
18 1997 25677 7.997 6.8764 0.000267804 0.4 0.150972 0.0712265 -0.845064
18 1998 27386.1 14.983 7.33412 0.000267804 0.4 0.714379 1.5948 0.678513
18 1999 21247.3 8.565 5.69013 0.000267804 0.4 0.408951 0.522629 -0.393662
18 2000 26996.8 9.874 7.22986 0.000267804 0.4 0.311685 0.303586 -0.612705
18 2001 29162.3 13.543 7.80979 0.000267804 0.4 0.550492 0.947003 0.0307125
18 2002 33483.4 5.406 8.96699 0.000267804 0.4 -0.50604 0.80024 -0.11605
18 2003 24764.3 8.18 6.63197 0.000267804 0.4 0.20979 0.137538 -0.778753
18 2004 40333.2 6.993 10.8014 0.000267804 0.4 -0.434766 0.590692 -0.325599
18 2005 23368.8 2.198 6.25826 0.000267804 0.4 -1.04635 3.42143 2.50514
18 2006 25925.7 9.658 6.94301 0.000267804 0.4 0.330051 0.340418 -0.575873
19 1986 52311.7 0.32 0.313775 5.99819e-006 0.4 0.0196445 0.00120595 -0.915085
19 1987 38847.8 0.26 0.233016 5.99819e-006 0.4 0.109573 0.0375193 -0.878771
19 1988 10621.7 0.01 0.063711 5.99819e-006 0.4 -1.85177 10.7158 9.79952
19 1989 23587 0.14 0.14148 5.99819e-006 0.4 -0.0105125 0.000345351 -0.915945
19 1990 28244.9 0.36 0.169418 5.99819e-006 0.4 0.753735 1.77537 0.859075
19 1991 26297 0.38 0.157734 5.99819e-006 0.4 0.87926 2.41593 1.49964
19 1992 32432.6 0.37 0.194537 5.99819e-006 0.4 0.642881 1.29155 0.375258
19 1993 28239.9 0.05 0.169388 5.99819e-006 0.4 -1.22017 4.65254 3.73625
19 1994 28620.9 0.57 0.171673 5.99819e-006 0.4 1.20004 4.50032 3.58403
19 1995 34451 0.3 0.206644 5.99819e-006 0.4 0.372787 0.434282 -0.482009
19 1996 25144.7 0.08 0.150823 5.99819e-006 0.4 -0.63408 1.25643 0.340137
19 1997 25677 0.22 0.154015 5.99819e-006 0.4 0.356576 0.397333 -0.518958
19 1998 27386.1 0.39 0.164267 5.99819e-006 0.4 0.864653 2.33633 1.42004
19 1999 21247.3 0.35 0.127446 5.99819e-006 0.4 1.01024 3.18935 2.27306
19 2000 26996.8 0.21 0.161932 5.99819e-006 0.4 0.259931 0.211138 -0.705153
19 2001 29162.3 0.14 0.174921 5.99819e-006 0.4 -0.222692 0.154975 -0.761316
19 2002 33483.4 0.13 0.20084 5.99819e-006 0.4 -0.434972 0.591252 -0.325038
19 2003 24764.3 0.21 0.148541 5.99819e-006 0.4 0.346249 0.374651 -0.541639
19 2004 40333.2 0.27 0.241926 5.99819e-006 0.4 0.10979 0.0376681 -0.878623
19 2005 23368.8 0.01 0.14017 5.99819e-006 0.4 -2.64027 21.7845 20.8682
19 2006 25925.7 0.17 0.155507 5.99819e-006 0.4 0.0891063 0.0248123 -0.891478

INDEX_1

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

1 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
2 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
3 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
4 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
5 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
6 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
7 0 1.0 0 0.00 0.0 0 0.000540955 0 0 15 15 0.420682 0.16 0.16 0 0
8 0 1.0 0 0.00 0.0 0 5.29245e-005 0 0 25 25 0.406955 0.21 0.21 0 0
9 0 1.0 0 0.00 0.0 0 3.57563e-005 0 0 25 25 0.454752 0.31 0.31 0 0
10 0 1.0 0 0.00 0.0 0 5.08453e-005 0 0 25 25 0.779939 0.21 0.21 0 0
11 0 1.0 0 0.00 0.0 0 3.51898e-005 0 0 25 25 0.956204 0.21 0.21 0 0
12 0 1.0 0 0.00 0.0 0 2.2917e-005 0 0 23 23 0.728863 0.4 0.4 0 0
13 0 1.0 0 0.00 0.0 0 3.57884e-005 0 0 23 23 0.622706 0.4 0.4 0 0
14 0 1.0 0 0.00 0.0 0 2.45492e-005 0 0 25 25 0.873332 0.4 0.4 0 0
15 0 1.0 0 0.00 0.0 0 2.12204e-005 0 0 17 17 0.846791 0.4 0.4 0 0

```

16 0 1.0 0 0.00 0.0 0 0.000128238 0 0 19 19 0.452521 0.4 0.4 0 0
17 0 1.0 0 0.00 0.0 0 3.1622e-005 0 0 25 25 0.594813 0.4 0.4 0 0
18 0 1.0 0 0.00 0.0 0 0.000267804 0 0 25 25 0.611653 0.4 0.4 0 0
19 0 1.0 0 0.00 0.0 0 5.99819e-006 0 0 21 21 0.925271 0.4 0.4 0 0

```

rmse_Qdev_not_in_logL

pen_mean_Qdev_not_in_logL_in_randwalk_approach

INDEX_3

Index Q_parm_assignments

```

1 0 -- 0 -- 0 0
2 0 -- 0 -- 0 0
3 0 -- 0 -- 0 0
4 0 -- 0 -- 0 0
5 0 -- 0 -- 0 0
6 0 -- 0 -- 0 0
7 0 -- 0 -- 0 0
8 0 -- 0 -- 0 0
9 0 -- 0 -- 0 0
10 0 -- 0 -- 0 0
11 0 -- 0 -- 0 0
12 0 -- 0 -- 0 0
13 0 -- 0 -- 0 0
14 0 -- 0 -- 0 0
15 0 -- 0 -- 0 0
16 0 -- 0 -- 0 0
17 0 -- 0 -- 0 0
18 0 -- 0 -- 0 0
19 0 -- 0 -- 0 0

```

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 0.612363 0.1 -0.108363 2.22137 2.22137
1983 1 1 0 0.521 0.610247 0.1 -0.0892473 1.44645 1.44645
1984 1 1 0 0.518 0.599941 0.1 -0.0819413 1.24178 1.24178
1985 1 1 0 0.575 0.655972 0.1 -0.0809724 0.992146 0.992146
1986 1 1 0 0.613 0.602498 0.1 0.010502 0.0151573 0.0151573
1987 1 1 0 0.581 0.592906 0.1 -0.0119064 0.0216828 0.0216828
1988 1 1 0 0.588 0.64301 0.1 -0.05501 0.445738 0.445738
1989 1 1 0 0.668 0.735088 0.1 -0.0670882 0.512566 0.512566
1990 1 1 0 0.54 0.63509 0.1 -0.0950898 1.5246 1.5246
1991 1 1 0 0.537 0.624971 0.1 -0.0879709 1.32801 1.32801
1992 1 1 0 0.595 0.629074 0.1 -0.0340744 0.168527 0.168527
1993 1 1 0 0.571 0.609911 0.1 -0.0389107 0.238088 0.238088
1994 1 1 0 0.605 0.643092 0.1 -0.038092 0.203476 0.203476
1995 1 1 0 0.675 0.758197 0.1 -0.0831971 0.765681 0.765681
1996 1 1 0 0.621 0.755434 0.1 -0.134434 2.24981 2.24981
1997 1 1 0 0.697 0.840488 0.1 -0.143488 2.04817 2.04817
1998 1 1 0 0.759 0.945693 0.1 -0.186693 2.84759 2.84759
1999 1 1 0 0.755 0.996752 0.1 -0.241752 4.55675 4.55675
2000 1 1 0 0.85 1.04868 0.1 -0.198685 2.59336 2.59336
2001 1 1 0 0.903 1.09022 0.1 -0.187221 2.07559 2.07559
2002 1 1 0 0.898 1.08023 0.1 -0.182231 1.99375 1.99375

```

2003	1	1	0	0.999	1.09046	0.1	-0.0914585	0.427101	0.427101
2004	1	1	0	0.983	1.12325	0.1	-0.14025	1.01759	1.01759
2005	1	1	0	0.949	1.17917	0.1	-0.230173	2.77539	2.77539
2006	1	1	0	0.947	1.18552	0.1	-0.238523	2.97338	2.97338

FIT_LEN_COMPS

Index Year Seas Gender Mkt Nsamp effN Like

index	N	Npos	mean_effN	mean(inputN)	HarMean(effN)	Mean(effN/inputN)
1	0	0	0	0	0	-1.#IND
2	0	0	0	0	0	-1.#IND
3	0	0	0	0	0	-1.#IND
4	0	0	0	0	0	-1.#IND
5	0	0	0	0	0	-1.#IND
6	0	0	0	0	0	-1.#IND
7	0	0	0	0	0	-1.#IND
8	0	0	0	0	0	-1.#IND
9	0	0	0	0	0	-1.#IND
10	0	0	0	0	0	-1.#IND
11	0	0	0	0	0	-1.#IND
12	0	0	0	0	0	-1.#IND
13	0	0	0	0	0	-1.#IND
14	0	0	0	0	0	-1.#IND
15	0	0	0	0	0	-1.#IND
16	0	0	0	0	0	-1.#IND
17	0	0	0	0	0	-1.#IND
18	0	0	0	0	0	-1.#IND
19	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	70	200	81.2288	10.9277
1	1983	1	0	0	1	1	70	200	18.1541	12.7422
1	1984	1	0	0	1	1	70	200	54.4502	9.94839
1	1985	1	0	0	1	1	70	200	73.3926	5.38873
1	1986	1	0	0	1	1	70	200	17.2752	15.2438
1	1987	1	0	0	1	1	70	200	32.8046	7.88321
1	1988	1	0	0	1	1	70	200	1405	1.92141
1	1989	1	0	0	1	1	70	200	167.564	5.4684
1	1990	1	0	0	1	1	70	200	576.416	0.872547
1	1991	1	0	0	1	1	70	200	52.384	2.0233
1	1992	1	0	0	1	1	70	200	53.1101	9.20428
1	1993	1	0	0	1	1	70	200	144.595	6.31613
1	1994	1	0	0	1	1	70	200	119.826	4.70352
1	1995	1	0	0	1	1	70	200	51.9234	10.1064
1	1996	1	0	0	1	1	70	200	48.1564	8.60539
1	1997	1	0	0	1	1	70	200	13.4072	29.1135
1	1998	1	0	0	1	1	70	200	16.7415	21.6081
1	1999	1	0	0	1	1	70	200	24.2913	19.1481
1	2000	1	0	0	1	1	70	200	438.556	4.00258
1	2001	1	0	0	1	1	70	200	62.9992	7.98905
1	2002	1	0	0	1	1	70	200	79.9802	5.41049
1	2003	1	0	0	1	1	70	200	1422.43	0.431303
1	2004	1	0	0	1	1	70	200	1592.84	0.86772
1	2005	1	0	0	1	1	70	200	32.9787	22.7301
1	2006	1	0	0	1	1	70	200	301.77	2.63987

2	1982	1	0	0	1	1	70	200	3.8026	68.1553
2	1983	1	0	0	1	1	70	200	5.76288	34.4103
2	1984	1	0	0	1	1	70	200	28.5027	14.5649
2	1985	1	0	0	1	1	70	200	16.4207	15.0521
2	1986	1	0	0	1	1	70	200	39.3618	8.93881
2	1987	1	0	0	1	1	70	200	14.0057	12.9091
2	1988	1	0	0	1	1	70	200	12.4771	16.5247
2	1989	1	0	0	1	1	70	200	17.8017	41.3146
2	1990	1	0	0	1	1	70	200	5.57055	55.7759
2	1991	1	0	0	1	1	70	200	6.52591	34.8442
2	1992	1	0	0	1	1	70	200	3.1446	105.654
2	1993	1	0	0	1	1	70	200	13.3532	11.7807
2	1994	1	0	0	1	1	70	200	11.9292	31.5016
2	1995	1	0	0	1	1	70	200	15.9992	33.7177
2	1996	1	0	0	1	1	70	200	393.471	7.70327
2	1997	1	0	0	1	1	70	200	66.2459	9.10671
2	1998	1	0	0	1	1	70	200	2.77729	112.221
2	1999	1	0	0	1	1	70	200	120.838	8.27681
2	2000	1	0	0	1	1	70	200	31.7068	8.72331
2	2001	1	0	0	1	1	70	200	101.929	3.85757
2	2002	1	0	0	1	1	70	200	40.9014	9.8555
2	2003	1	0	0	1	1	70	200	51.4248	8.25974
2	2004	1	0	0	1	1	70	200	216.189	5.3073
2	2005	1	0	0	1	1	70	200	176.566	6.59189
2	2006	1	0	0	1	1	70	200	109.828	4.67639
3	1989	1	0	0	1	1	70	200	3.16961	72.6335
3	1990	1	0	0	1	1	70	200	19.072	19.4039
3	1991	1	0	0	1	1	70	200	21.8015	4.93728
3	1992	1	0	0	1	1	70	200	22.2457	25.6397
3	1993	1	0	0	1	1	70	200	55.2122	10.1551
3	1994	1	0	0	1	1	70	200	19.8687	15.9945
3	1995	1	0	0	1	1	70	200	9.8161	38.1155
3	1996	1	0	0	1	1	70	200	27.1249	10.9949
3	1997	1	0	0	1	1	70	200	35.5644	7.10751
3	1998	1	0	0	1	1	70	200	255.457	1.22471
3	1999	1	0	0	1	1	70	200	22.9628	12.2598
3	2000	1	0	0	1	1	70	200	23.4723	12.4819
3	2001	1	0	0	1	1	70	200	14.8139	15.1289
3	2002	1	0	0	1	1	70	200	114.63	2.59491
3	2003	1	0	0	1	1	70	200	34.0283	14.4182
3	2004	1	0	0	1	1	70	200	71.4402	18.4297
3	2005	1	0	0	1	1	70	200	44.9564	19.8598
3	2006	1	0	0	1	1	70	200	439.43	4.84659
4	1994	1	0	0	1	1	70	200	666.009	0.969069
4	1995	1	0	0	1	1	70	200	38.6227	3.13426
4	1996	1	0	0	1	1	70	200	2.95615	41.9267
4	1997	1	0	0	1	1	70	200	434.98	0.767602
4	1998	1	0	0	1	1	70	200	84.1527	2.26935
4	1999	1	0	0	1	1	70	200	42.5553	6.77184
4	2000	1	0	0	1	1	70	200	48.2405	5.42069
4	2001	1	0	0	1	1	70	200	3.75736	50.5105
4	2002	1	0	0	1	1	70	200	141.822	1.8854
4	2003	1	0	0	1	1	70	200	15.62	21.3211
4	2004	1	0	0	1	1	70	200	41.6863	5.86145
4	2005	1	0	0	1	1	70	200	15.2479	19.6928
4	2006	1	0	0	1	1	70	200	38.2419	7.13593
5	1982	1	0	0	1	1	70	200	43.2307	9.58757

5	1983	1	0	0	1	1	70	200	204.326	9.5561
5	1984	1	0	0	1	1	70	200	19.7119	12.3787
5	1985	1	0	0	1	1	70	200	538.178	2.19176
5	1986	1	0	0	1	1	70	200	81.3641	4.55726
5	1987	1	0	0	1	1	70	200	112.563	6.15826
5	1988	1	0	0	1	1	70	200	797.105	1.69369
5	1989	1	0	0	1	1	70	200	116.98	4.90465
5	1990	1	0	0	1	1	70	200	34.6077	8.71447
5	1991	1	0	0	1	1	70	200	45.2194	12.6433
5	1992	1	0	0	1	1	70	200	37.4275	16.0632
5	1993	1	0	0	1	1	70	200	31.4512	15.287
5	1994	1	0	0	1	1	70	200	65.4731	4.97609
5	1995	1	0	0	1	1	70	200	23.4387	17.5967
5	1996	1	0	0	1	1	70	200	21.1776	9.18798
5	1997	1	0	0	1	1	70	200	79.3723	10.8362
5	1998	1	0	0	1	1	70	200	105.893	4.11222
5	1999	1	0	0	1	1	70	200	45.7771	10.6191
5	2000	1	0	0	1	1	70	200	73.3322	4.60441
5	2001	1	0	0	1	1	70	200	356.533	3.10758
5	2002	1	0	0	1	1	70	200	41.7404	11.8396
5	2003	1	0	0	1	1	70	200	51.4947	9.51896
5	2004	1	0	0	1	1	70	200	63.3645	4.95205
5	2005	1	0	0	1	1	70	200	107.476	7.28217
5	2006	1	0	0	1	1	70	200	51.3523	8.112
6	1982	1	0	0	1	1	70	200	12.4067	6.76494
6	1983	1	0	0	1	1	70	200	759.853	0.128153
6	1984	1	0	0	1	1	70	200	7.5733	9.96616
6	1985	1	0	0	1	1	70	200	75.0085	1.23159
6	1986	1	0	0	1	1	70	200	135.613	0.786389
6	1987	1	0	0	1	1	70	200	447.703	0.23329
6	1988	1	0	0	1	1	70	200	19.9705	3.78513
6	1989	1	0	0	1	1	70	200	9194.22	0.0105341
6	1990	1	0	0	1	1	70	200	186.315	0.566594
6	1991	1	0	0	1	1	70	200	13.1603	10.76
6	1992	1	0	0	1	1	70	200	9.09531	15.899
6	1993	1	0	0	1	1	70	200	12.3575	11.8324
6	1994	1	0	0	1	1	70	200	22.8786	3.78152
6	1995	1	0	0	1	1	70	200	296.824	0.322372
6	1996	1	0	0	1	1	70	200	76.0402	1.53847
6	1997	1	0	0	1	1	70	200	18.5036	15.5983
6	1998	1	0	0	1	1	70	200	15.0593	11.5836
6	1999	1	0	0	1	1	70	200	12.6954	14.7175
6	2000	1	0	0	1	1	70	200	12.5219	13.0257
6	2001	1	0	0	1	1	70	200	109.945	2.94994
6	2002	1	0	0	1	1	70	200	232.786	1.16405
6	2003	1	0	0	1	1	70	200	246.275	1.64154
6	2004	1	0	0	1	1	70	200	191.157	2.39361
6	2005	1	0	0	1	1	70	200	35.0716	18.9543
6	2006	1	0	0	1	1	70	200	61.2349	16.2214
7	1992	1	0	0	1	1	70	100	20.4334	6.69599
7	1993	1	0	0	1	1	70	100	37.6724	5.19546
7	1994	1	0	0	1	1	70	100	21.5879	3.73244
7	1995	1	0	0	1	1	70	100	27.9392	8.08661
7	1996	1	0	0	1	1	70	100	3.66346	19.9512
7	1997	1	0	0	1	1	70	100	21.097	10.0181
7	1998	1	0	0	1	1	70	100	238.153	2.27403
7	1999	1	0	0	1	1	70	100	119.506	3.96714

7	2000	1	0	0	1	1	70	100	20.4977	14.5376
7	2001	1	0	0	1	1	70	100	34.8589	5.49118
7	2002	1	0	0	1	1	70	100	27.9556	5.62942
7	2003	1	0	0	1	1	70	100	1304.54	0.52771
7	2004	1	0	0	1	1	70	100	41.4193	5.27762
7	2005	1	0	0	1	1	70	100	265.329	2.22615
7	2006	1	0	0	1	1	70	100	591.112	1.40826
8	1982	1	0	0	1	1	70	100	10.0297	6.86622
8	1983	1	0	0	1	1	70	100	15.2703	15.1724
8	1984	1	0	0	1	1	70	100	9.69774	25.4142
8	1985	1	0	0	1	1	70	100	21.4656	4.26802
8	1986	1	0	0	1	1	70	100	8.67037	8.96271
8	1987	1	0	0	1	1	70	100	163.168	1.75976
8	1988	1	0	0	1	1	70	100	179.763	1.39299
8	1989	1	0	0	1	1	70	100	29.1283	4.26109
8	1990	1	0	0	1	1	70	100	3.5321	26.8234
8	1991	1	0	0	1	1	70	100	5.64761	16.7252
8	1992	1	0	0	1	1	70	100	10.3506	12.931
8	1993	1	0	0	1	1	70	100	61.5902	3.8568
8	1994	1	0	0	1	1	70	100	41.7044	2.7426
8	1995	1	0	0	1	1	70	100	5.18816	22.2668
8	1996	1	0	0	1	1	70	100	7.27063	8.82031
8	1997	1	0	0	1	1	70	100	100.308	1.44548
8	1998	1	0	0	1	1	70	100	387.196	2.87088
8	1999	1	0	0	1	1	70	100	31.9074	5.43968
8	2000	1	0	0	1	1	70	100	34.4858	7.1477
8	2001	1	0	0	1	1	70	100	32.6081	4.70801
8	2002	1	0	0	1	1	70	100	25.418	8.1727
8	2003	1	0	0	1	1	70	100	88.9827	2.04659
8	2004	1	0	0	1	1	70	100	48.3211	4.317
8	2005	1	0	0	1	1	70	100	39.1304	4.72244
8	2006	1	0	0	1	1	70	100	17.7634	12.1805
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9	1984	1	0	0	1	1	70	100	55.0798	2.27491
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9	1986	1	0	0	1	1	70	100	46.2871	4.17106
9	1987	1	0	0	1	1	70	100	28.4879	6.88516
9	1988	1	0	0	1	1	70	100	17.2359	4.41347
9	1989	1	0	0	1	1	70	100	3.21666	31.9961
9	1990	1	0	0	1	1	70	100	11.1548	10.9122
9	1991	1	0	0	1	1	70	100	8.76446	18.732
9	1992	1	0	0	1	1	70	100	18.537	8.07536
9	1993	1	0	0	1	1	70	100	9.75097	14.9005
9	1994	1	0	0	1	1	70	100	6.48049	22.318
9	1995	1	0	0	1	1	70	100	28.0355	7.06536
9	1996	1	0	0	1	1	70	100	23.6019	6.9859
9	1997	1	0	0	1	1	70	100	35.7451	6.5022
9	1998	1	0	0	1	1	70	100	23.2253	8.26108
9	1999	1	0	0	1	1	70	100	27.2086	8.93626
9	2000	1	0	0	1	1	70	100	31.4046	6.66092
9	2001	1	0	0	1	1	70	100	18.7651	12.152
9	2002	1	0	0	1	1	70	100	16.6363	15.3698
9	2003	1	0	0	1	1	70	100	34.1479	6.59077
9	2004	1	0	0	1	1	70	100	29.8708	7.30773
9	2005	1	0	0	1	1	70	100	129.5	2.25868
9	2006	1	0	0	1	1	70	100	46.2158	4.38971

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10	1983	1	0	0	1	1	70	100	2.05869	18.6739
10	1984	1	0	0	1	1	70	100	1.83717	21.0462
10	1985	1	0	0	1	1	70	100	9.31076	7.63144
10	1986	1	0	0	1	1	70	100	598.342	0.0821322
10	1987	1	0	0	1	1	70	100	9.16066	8.08937
10	1988	1	0	0	1	1	70	100	69.4141	0.785839
10	1989	1	0	0	1	1	70	100	918.89	0.0534227
10	1990	1	0	0	1	1	70	100	1.39423	35.3865
10	1991	1	0	0	1	1	70	100	129.869	0.366079
10	1992	1	0	0	1	1	70	100	411.026	0.118473
10	1993	1	0	0	1	1	70	100	32.3253	1.73067
10	1994	1	0	0	1	1	70	100	7.9807	8.63317
10	1995	1	0	0	1	1	70	100	5.10612	13.652
10	1996	1	0	0	1	1	70	100	70374.7	0.000503979
10	1997	1	0	0	1	1	70	100	23.0556	2.448
10	1998	1	0	0	1	1	70	100	48.8701	1.04235
10	1999	1	0	0	1	1	70	100	14.5356	3.39385
10	2000	1	0	0	1	1	70	100	86.8701	0.578703
10	2001	1	0	0	1	1	70	100	19.948	2.5066
10	2002	1	0	0	1	1	70	100	3.84199	14.0645
10	2003	1	0	0	1	1	70	100	7.2401	7.12041
10	2004	1	0	0	1	1	70	100	359.862	0.138972
10	2005	1	0	0	1	1	70	100	10.6554	4.98021
10	2006	1	0	0	1	1	70	100	5.33063	9.68156
11	1982	1	0	0	1	1	70	100	8.32143	9.45949
11	1983	1	0	0	1	1	70	100	27.0225	1.6438
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11	1985	1	0	0	1	1	70	100	11.4335	6.3576
11	1986	1	0	0	1	1	70	100	76.7816	0.617088
11	1987	1	0	0	1	1	70	100	12.3526	6.04738
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11	1995	1	0	0	1	1	70	100	2.33909	53.4097
11	1996	1	0	0	1	1	70	100	103.459	0.528176
11	1997	1	0	0	1	1	70	100	593.25	0.082214
11	1998	1	0	0	1	1	70	100	70.8331	0.723779
11	1999	1	0	0	1	1	70	100	32.9585	1.57496
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11	2003	1	0	0	1	1	70	100	3.69772	15.1233
11	2004	1	0	0	1	1	70	100	1.85329	32.4731
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12	1990	1	0	0	1	1	70	100	44.1905	5.10948

12	1991	1	0	0	1	1	70	100	53.0359	1.71795
12	1992	1	0	0	1	1	70	100	24.9954	2.59058
12	1993	1	0	0	1	1	70	100	26.4658	7.33133
12	1994	1	0	0	1	1	70	100	26.5058	3.70345
12	1995	1	0	0	1	1	70	100	31.0605	2.51229
12	1996	1	0	0	1	1	70	100	9.02059	8.181
12	1997	1	0	0	1	1	70	100	17.7548	8.64858
12	1998	1	0	0	1	1	70	100	78.3576	1.71525
12	1999	1	0	0	1	1	70	100	420.187	0.217204
12	2000	1	0	0	1	1	70	100	33.5937	5.65227
12	2001	1	0	0	1	1	70	100	57.3064	1.76072
12	2002	1	0	0	1	1	70	100	23.6434	4.08445
12	2003	1	0	0	1	1	70	100	24.7785	3.28699
12	2004	1	0	0	1	1	70	100	37.9583	2.62683
12	2005	1	0	0	1	1	70	100	8.74476	13.5448
12	2006	1	0	0	1	1	70	100	6.61996	13.1931
13	1984	1	0	0	1	1	70	100	63.8985	3.09085
13	1985	1	0	0	1	1	70	100	17.8443	9.46712
13	1986	1	0	0	1	1	70	100	27.6556	3.65434
13	1987	1	0	0	1	1	70	100	13.7063	5.76295
13	1988	1	0	0	1	1	70	100	33.6493	3.18531
13	1989	1	0	0	1	1	70	100	10.39	7.15931
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13	1991	1	0	0	1	1	70	100	44.3303	3.87655
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13	1994	1	0	0	1	1	70	100	9.98594	16.7722
13	1995	1	0	0	1	1	70	100	12.713	9.81254
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13	2006	1	0	0	1	1	70	100	92.0958	3.28434
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14	1983	1	0	0	1	1	70	100	18.4842	2.34882
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14	1985	1	0	0	1	1	70	100	46.6685	1.23403
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14	1987	1	0	0	1	1	70	100	37.7006	1.58658
14	1988	1	0	0	1	1	70	100	3.09892	39.1165
14	1989	1	0	0	1	1	70	100	4.14699	31.2496
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15	1990	1	0	0	1	1	70	100	33.2058	4.61254
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15	1995	1	0	0	1	1	70	100	5.63677	27.3157
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15	1999	1	0	0	1	1	70	100	1342	0.720132
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16	1992	1	0	0	1	1	70	100	12.6123	8.65407
16	1993	1	0	0	1	1	70	100	10.131	16.4695
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16	2004	1	0	0	1	1	70	100	5.43365	27.569
16	2005	1	0	0	1	1	70	100	13.1425	18.5097
16	2006	1	0	0	1	1	70	100	8.02483	22.3305

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

1	0	25	275.291	200	47.1266	1.37645	1.37645
2	0	25	60.2614	200	11.747	0.301307	0.301307
3	0	18	68.6148	200	19.3913	0.343074	0.343074
4	0	13	121.069	200	14.8229	0.605343	0.605343
5	0	25	125.944	200	52.6828	0.629718	0.629718
6	0	25	488.171	200	25.8763	2.44085	2.44085
7	0	15	185.051	100	23.6539	1.85051	1.85051
8	0	25	55.1439	100	15.0581	0.551439	0.551439
9	0	25	35.8521	100	17.5617	0.358521	0.358521
10	0	25	2926.93	100	7.65303	29.2693	29.2693
11	0	25	41.0652	100	4.58774	0.410652	0.410652

12 0 23 76.4201 100 17.1156 0.764201 0.764201
 13 0 23 33.7509 100 18.0277 0.337509 0.337509
 14 0 25 198.489 100 6.71055 1.98489 1.98489
 15 0 17 128.6 100 26.364 1.286 1.286
 16 0 19 27.7188 100 9.76412 0.277188 0.277188
 17 0 0 0 0 0 0 -1.#IND
 18 0 0 0 0 0 0 -1.#IND
 19 0 0 0 0 0 0 -1.#IND

LEN_SELECT

fleet	year	gender	label	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5	
20.5	21.5	22.5	23.5	24.5	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
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1	2006	1	2006-1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	2007	1	2007-1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1982	1	1982-2	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2006	1	2006-2	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2007	1	2007-2	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	1982	1	1982-3	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	2006	1	2006-3	1	1	1	1	1	1	1	1	1	1	1
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3	2007	1	2007-3	1	1	1	1	1	1	1	1	1	1	1
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4	1982	1	1982-4	1	1	1	1	1	1	1	1	1	1	1
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6	2006	1	2006-6	1	1	1	1	1	1	1	1	1	1	1
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8	1982	1	1982-8	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

1 1982 1 1982-1 0.0203317 0.38748 0.999742 0.999974 0.999972 0.999736
0.999252 0.998521 0.997545 0.996324 0.994858 0.99315 0.9912 0.98901 0.986581
0.983915
1 1994 1 1994-1 0.0203317 0.38748 0.999742 0.999974 0.999972 0.999736
0.999252 0.998521 0.997545 0.996324 0.994858 0.99315 0.9912 0.98901 0.986581
0.983915
1 1995 1 1995-1 0.00171496 0.0845306 0.680925 0.99941 0.999992 0.999917
0.999592 0.999021 0.998203 0.99714 0.995832 0.994281 0.992487 0.990451
0.988176 0.985663
1 2006 1 2006-1 0.00171496 0.0845306 0.680925 0.99941 0.999992 0.999917
0.999592 0.999021 0.998203 0.99714 0.995832 0.994281 0.992487 0.990451
0.988176 0.985663
1 2007 1 2007-1 0.00171496 0.0845306 0.680925 0.99941 0.999992 0.999917
0.999592 0.999021 0.998203 0.99714 0.995832 0.994281 0.992487 0.990451
0.988176 0.985663
2 1982 1 1982-2 0.00819924 0.110116 0.545141 0.995459 0.999974 0.99998
0.999762 0.999297 0.998585 0.997627 0.996424 0.994977 0.993287 0.991355
0.989183 0.986772
2 1994 1 1994-2 0.00819924 0.110116 0.545141 0.995459 0.999974 0.99998
0.999762 0.999297 0.998585 0.997627 0.996424 0.994977 0.993287 0.991355
0.989183 0.986772
2 1995 1 1995-2 0.000733328 0.0277331 0.29805 0.910385 0.999895 0.999995
0.999846 0.999447 0.998802 0.997911 0.996774 0.995393 0.993769 0.991903
0.989795 0.987449
2 2006 1 2006-2 0.000733328 0.0277331 0.29805 0.910385 0.999895 0.999995
0.999846 0.999447 0.998802 0.997911 0.996774 0.995393 0.993769 0.991903
0.989795 0.987449
2 2007 1 2007-2 0.000733328 0.0277331 0.29805 0.910385 0.999895 0.999995
0.999846 0.999447 0.998802 0.997911 0.996774 0.995393 0.993769 0.991903
0.989795 0.987449
3 1982 1 1982-3 0.353021 0.999749 0.999967 0.999996 0.999997 0.999998
0.999998 0.999998 0.999998 0.999998 0.999997 0.999996 0.999991 0.999959
0.997969 0.000269062
3 1994 1 1994-3 0.353021 0.999749 0.999967 0.999996 0.999997 0.999998
0.999998 0.999998 0.999998 0.999998 0.999997 0.999996 0.999991 0.999959
0.997969 0.000269062
3 1995 1 1995-3 0.0531117 0.494146 0.999627 0.999976 0.999996 0.999997
0.999998 0.999998 0.999997 0.999997 0.999997 0.999995 0.999991 0.999958
0.998144 0.000289815
3 2006 1 2006-3 0.0531117 0.494146 0.999627 0.999976 0.999996 0.999997
0.999998 0.999998 0.999997 0.999997 0.999997 0.999995 0.999991 0.999958
0.998144 0.000289815
3 2007 1 2007-3 0.0531117 0.494146 0.999627 0.999976 0.999996 0.999997
0.999998 0.999998 0.999997 0.999997 0.999997 0.999995 0.999991 0.999958
0.998144 0.000289815
4 1982 1 1982-4 0.0620616 0.475659 0.997452 0.998901 0.422747 0.0243512
0.000234937 4.57877e-005 4.55294e-005 4.55062e-005 4.54949e-005 4.54886e-005
4.54847e-005 4.54821e-005 4.54803e-005 4.54789e-005
4 1994 1 1994-4 0.0620616 0.475659 0.997452 0.998901 0.422747 0.0243512
0.000234937 4.57877e-005 4.55294e-005 4.55062e-005 4.54949e-005 4.54886e-005
4.54847e-005 4.54821e-005 4.54803e-005 4.54789e-005
4 1995 1 1995-4 0.00826784 0.24275 0.965991 0.999591 0.88052 0.760519
0.751165 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071
0.751071 0.751071
4 2006 1 2006-4 0.00826784 0.24275 0.965991 0.999591 0.88052 0.760519
0.751165 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071
0.751071 0.751071

4 2007 1 2007-4 0.00826784 0.24275 0.965991 0.999591 0.88052 0.760519
 0.751165 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071
 0.751071 0.751071
 5 1982 1 1982-5 0.0461053 0.566355 0.998889 0.999988 0.999943 0.999655
 0.999119 0.998337 0.99731 0.996037 0.994521 0.992762 0.990762 0.988521
 0.986042 0.983327
 5 1994 1 1994-5 0.0461053 0.566355 0.998889 0.999988 0.999943 0.999655
 0.999119 0.998337 0.99731 0.996037 0.994521 0.992762 0.990762 0.988521
 0.986042 0.983327
 5 1995 1 1995-5 0.00419129 0.0979857 0.605447 0.99898 0.999986 0.999953
 0.99968 0.999159 0.998392 0.99738 0.996123 0.994621 0.992877 0.990892
 0.988666 0.986202
 5 2006 1 2006-5 0.00419129 0.0979857 0.605447 0.99898 0.999986 0.999953
 0.99968 0.999159 0.998392 0.99738 0.996123 0.994621 0.992877 0.990892
 0.988666 0.986202
 5 2007 1 2007-5 0.00419129 0.0979857 0.605447 0.99898 0.999986 0.999953
 0.99968 0.999159 0.998392 0.99738 0.996123 0.994621 0.992877 0.990892
 0.988666 0.986202
 6 1982 1 1982-6 0.0747662 0.689093 0.999328 0.860711 0.145668 0.00338233
 5.59606e-005 4.55084e-005 4.54669e-005 4.54506e-005 4.54421e-005 4.54371e-005
 4.54339e-005 4.54317e-005 4.54301e-005 4.54289e-005
 6 1994 1 1994-6 0.0747662 0.689093 0.999328 0.860711 0.145668 0.00338233
 5.59606e-005 4.55084e-005 4.54669e-005 4.54506e-005 4.54421e-005 4.54371e-005
 4.54339e-005 4.54317e-005 4.54301e-005 4.54289e-005
 6 1995 1 1995-6 0.075963 0.693246 0.999339 0.857884 0.146672 0.00678497
 0.00354745 0.00353737 0.00353733 0.00353732 0.00353731 0.0035373 0.0035373
 0.0035373 0.00353729 0.00353729
 6 2006 1 2006-6 0.075963 0.693246 0.999339 0.857884 0.146672 0.00678497
 0.00354745 0.00353737 0.00353733 0.00353732 0.00353731 0.0035373 0.0035373
 0.0035373 0.00353729 0.00353729
 6 2007 1 2007-6 0.075963 0.693246 0.999339 0.857884 0.146672 0.00678497
 0.00354745 0.00353737 0.00353733 0.00353732 0.00353731 0.0035373 0.0035373
 0.0035373 0.00353729 0.00353729
 7 1982 1 1982-7 0.0445974 0.302843 0.836687 0.999732 0.999994 0.999913
 0.999583 0.999006 0.998184 0.997116 0.995803 0.994246 0.992447 0.990407
 0.988127 0.985608
 7 2006 1 2006-7 0.0445974 0.302843 0.836687 0.999732 0.999994 0.999913
 0.999583 0.999006 0.998184 0.997116 0.995803 0.994246 0.992447 0.990407
 0.988127 0.985608
 8 1982 1 1982-8 0.0465421 0.307688 0.838398 0.999735 0.999994 0.999913
 0.999583 0.999007 0.998185 0.997117 0.995804 0.994248 0.992449 0.990409
 0.988129 0.985611
 8 2006 1 2006-8 0.0465421 0.307688 0.838398 0.999735 0.999994 0.999913
 0.999583 0.999007 0.998185 0.997117 0.995804 0.994248 0.992449 0.990409
 0.988129 0.985611
 9 1982 1 1982-9 0.362942 0.999976 0.999971 0.99998 0.999763 0.999299 0.998588
 0.997631 0.996429 0.994983 0.993294 0.991363 0.989191 0.986781 0.984134
 0.981251
 9 2006 1 2006-9 0.362942 0.999976 0.999971 0.99998 0.999763 0.999299 0.998588
 0.997631 0.996429 0.994983 0.993294 0.991363 0.989191 0.986781 0.984134
 0.981251
 10 1982 1 1982-10 0.00131115 0.0833559 0.717597 0.999574 0.999993 0.999902
 0.99956 0.99897 0.998135 0.997054 0.995729 0.99416 0.992349 0.990296 0.988004
 0.985474
 10 2006 1 2006-10 0.00131115 0.0833559 0.717597 0.999574 0.999993 0.999902
 0.99956 0.99897 0.998135 0.997054 0.995729 0.99416 0.992349 0.990296 0.988004
 0.985474

11 1982 1 1982-11 0.00326107 0.14369 0.857466 0.999839 0.999996 0.99986
 0.999474 0.998842 0.997964 0.996841 0.995473 0.993861 0.992008 0.989913
 0.987579 0.985007
 11 2006 1 2006-11 0.00326107 0.14369 0.857466 0.999839 0.999996 0.99986
 0.999474 0.998842 0.997964 0.996841 0.995473 0.993861 0.992008 0.989913
 0.987579 0.985007
 12 1982 1 1982-12 0.00097569 0.0694773 0.669969 0.999416 0.999992 0.999913
 0.999584 0.999009 0.998187 0.997119 0.995807 0.994251 0.992453 0.990413
 0.988134 0.985616
 12 2006 1 2006-12 0.00097569 0.0694773 0.669969 0.999416 0.999992 0.999913
 0.999584 0.999009 0.998187 0.997119 0.995807 0.994251 0.992453 0.990413
 0.988134 0.985616
 13 1982 1 1982-13 0.0880745 0.73206 0.999613 0.999993 0.999908 0.999574
 0.998992 0.998164 0.997091 0.995773 0.994212 0.992408 0.990363 0.988078
 0.985555 0.982796
 13 2006 1 2006-13 0.0880745 0.73206 0.999613 0.999993 0.999908 0.999574
 0.998992 0.998164 0.997091 0.995773 0.994212 0.992408 0.990363 0.988078
 0.985555 0.982796
 14 1982 1 1982-14 0.00355502 0.151074 0.869513 0.999853 0.999995 0.999855
 0.999466 0.998829 0.997947 0.996819 0.995447 0.993831 0.991973 0.989875
 0.987537 0.984961
 14 2006 1 2006-14 0.00355502 0.151074 0.869513 0.999853 0.999995 0.999855
 0.999466 0.998829 0.997947 0.996819 0.995447 0.993831 0.991973 0.989875
 0.987537 0.984961
 15 1982 1 1982-15 0.0753511 0.454602 0.972856 0.999955 0.999992 0.999817
 0.999394 0.998724 0.997809 0.996648 0.995243 0.993595 0.991704 0.989573
 0.987203 0.984595
 15 2006 1 2006-15 0.0753511 0.454602 0.972856 0.999955 0.999992 0.999817
 0.999394 0.998724 0.997809 0.996648 0.995243 0.993595 0.991704 0.989573
 0.987203 0.984595
 16 1982 1 1982-16 0.443301 1 0.999975 0.99998 0.999761 0.999295 0.998582
 0.997624 0.99642 0.994973 0.993282 0.991349 0.989176 0.986764 0.984115
 0.981231
 16 2006 1 2006-16 0.443301 1 0.999975 0.99998 0.999761 0.999295 0.998582
 0.997624 0.99642 0.994973 0.993282 0.991349 0.989176 0.986764 0.984115
 0.981231
 17 1982 1 1982-17 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 17 2006 1 2006-17 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 18 1982 1 1982-18 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 18 2006 1 2006-18 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 19 1982 1 1982-19 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 19 2006 1 2006-19 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

13 2006 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 14 2006 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 15 2006 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 16 2006 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 17 2006 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 18 2006 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 19 2006 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	2006	1	1	sel*wt	0.000307115	0.0376789	0.549828	1.22382	1.66059	2.08799	2.48742	2.84605	3.15612	3.41532	3.62629	3.79461	3.92695	4.02974	4.10865	4.16834	
1	2006	1	1	sel*ret*wt	0.000307115	0.0376789	0.549828	1.22382	1.66059	2.08799	2.48742	2.84605	3.15612	3.41532	3.62629	3.79461	3.92695	4.02974	4.10865	4.16834	
1	2006	1	1	sel_nums	0.00171496	0.0845306	0.680925	0.99941	0.999992	0.999917	0.999592	0.999021	0.998203	0.99714	0.995832	0.994281	0.992487	0.990451	0.988176	0.985663	
1	2006	1	1	sel*ret_nums	0.00171496	0.0845306	0.680925	0.99941	0.999992	0.999917	0.999592	0.999021	0.998203	0.99714	0.995832	0.994281	0.992487	0.990451	0.988176	0.985663	
1	2006	1	1	dead_nums	0.00171496	0.0845306	0.680925	0.99941	0.999992	0.999917	0.999592	0.999021	0.998203	0.99714	0.995832	0.994281	0.992487	0.990451	0.988176	0.985663	
1	2006	1	1	dead*wt	0.000307115	0.0376789	0.549828	1.22382	1.66059	2.08799	2.48742	2.84605	3.15612	3.41532	3.62629	3.79461	3.92695	4.02974	4.10865	4.16834	
2	2006	1	1	sel*wt	0.000131324	0.0123618	0.240667	1.1148	1.66043	2.08815	2.48805	2.84727	3.15801	3.41796	3.62972	3.79885	3.93202	4.03565	4.11538	4.17589	
2	2006	1	1	sel*ret*wt	0.000131324	0.0123618	0.240667	1.1148	1.66043	2.08815	2.48805	2.84727	3.15801	3.41796	3.62972	3.79885	3.93202	4.03565	4.11538	4.17589	
2	2006	1	1	sel_nums	0.000733328	0.0277331	0.29805	0.910385	0.999895	0.999995	0.999846	0.999447	0.998802	0.997911	0.996774	0.995393	0.993769	0.991903	0.989795	0.987449	
2	2006	1	1	sel*ret_nums	0.000733328	0.0277331	0.29805	0.910385	0.999895	0.999995	0.999846	0.999447	0.998802	0.997911	0.996774	0.995393	0.993769	0.991903	0.989795	0.987449	
2	2006	1	1	dead_nums	0.000733328	0.0277331	0.29805	0.910385	0.999895	0.999995	0.999846	0.999447	0.998802	0.997911	0.996774	0.995393	0.993769	0.991903	0.989795	0.987449	
2	2006	1	1	dead*wt	0.000131324	0.0123618	0.240667	1.1148	1.66043	2.08815	2.48805	2.84727	3.15801	3.41796	3.62972	3.79885	3.93202	4.03565	4.11538	4.17589	
3	2006	1	1	sel*wt	0.00951124	0.220262	0.80717	1.22451	1.6606	2.08816	2.48842	2.84884	3.16179	3.42511	3.64145	3.81642	3.95664	4.06842	4.15009	0.00122562	
3	2006	1	1	sel*ret*wt	0.00951124	0.220262	0.80717	1.22451	1.6606	2.08816	2.48842	2.84884	3.16179	3.42511	3.64145	3.81642	3.95664	4.06842	4.15009	0.00122562	
3	2006	1	1	sel_nums	0.0531117	0.494146	0.999627	0.999976	0.999996	0.999997	0.999998	0.999998	0.999997	0.999997	0.999997	0.999995	0.999991	0.999958	0.998144	0.000289815	
3	2006	1	1	sel*ret_nums	0.0531117	0.494146	0.999627	0.999976	0.999996	0.999997	0.999997	0.999998	0.999998	0.999997	0.999997	0.999997	0.999995	0.999991	0.999958	0.998144	0.000289815

3 2006 1 1 dead_nums 0.0531117 0.494146 0.999627 0.999976 0.999996 0.999997 0.999998 0.999998 0.999997 0.999997 0.999997 0.999995 0.999991 0.999958 0.998144 0.000289815

3 2006 1 1 dead*wt 0.00951124 0.220262 0.80717 1.22451 1.6606 2.08816 2.48842 2.84884 3.16179 3.42511 3.64145 3.81642 3.95664 4.06842 4.15009 0.00122562

4 2006 1 1 sel*wt 0.0014806 0.108204 0.780011 1.22404 1.4622 1.58809 1.86922 2.13968 2.37474 2.57251 2.735 2.86641 2.97174 3.0558 3.12281 3.17626

4 2006 1 1 sel*ret*wt 0.0014806 0.108204 0.780011 1.22404 1.4622 1.58809 1.86922 2.13968 2.37474 2.57251 2.735 2.86641 2.97174 3.0558 3.12281 3.17626

4 2006 1 1 sel_nums 0.00826784 0.24275 0.965991 0.999591 0.88052 0.760519 0.751165 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071

4 2006 1 1 sel*ret_nums 0.00826784 0.24275 0.965991 0.999591 0.88052 0.760519 0.751165 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071

4 2006 1 1 dead_nums 0.00826784 0.24275 0.965991 0.999591 0.88052 0.760519 0.751165 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071 0.751071

4 2006 1 1 dead*wt 0.0014806 0.108204 0.780011 1.22404 1.4622 1.58809 1.86922 2.13968 2.37474 2.57251 2.735 2.86641 2.97174 3.0558 3.12281 3.17626

5 2006 1 1 sel*wt 0.000750575 0.0436764 0.488882 1.22329 1.66058 2.08806 2.48763 2.84645 3.15672 3.41615 3.62734 3.79591 3.92849 4.03154 4.11068 4.17061

5 2006 1 1 sel*ret*wt 0.000750575 0.0436764 0.488882 1.22329 1.66058 2.08806 2.48763 2.84645 3.15672 3.41615 3.62734 3.79591 3.92849 4.03154 4.11068 4.17061

5 2006 1 1 sel_nums 0.00419129 0.0979857 0.605447 0.99898 0.999986 0.999953 0.99968 0.999159 0.998392 0.99738 0.996123 0.994621 0.992877 0.990892 0.988666 0.986202

5 2006 1 1 sel*ret_nums 0.00419129 0.0979857 0.605447 0.99898 0.999986 0.999953 0.999953 0.99968 0.999159 0.998392 0.99738 0.996123 0.994621 0.992877 0.990892 0.988666 0.986202

5 2006 1 1 dead_nums 0.00419129 0.0979857 0.605447 0.99898 0.999986 0.999953 0.99968 0.999159 0.998392 0.99738 0.996123 0.994621 0.992877 0.990892 0.988666 0.986202

5 2006 1 1 dead*wt 0.000750575 0.0436764 0.488882 1.22329 1.66058 2.08806 2.48763 2.84645 3.15672 3.41615 3.62734 3.79591 3.92849 4.03154 4.11068 4.17061

6 2006 1 1 sel*wt 0.0136034 0.309009 0.806938 1.05051 0.243565 0.0141681 0.00882758 0.0100774 0.0111843 0.0121157 0.012881 0.0134999 0.0139959 0.0143918 0.0147074 0.0149591

6 2006 1 1 sel*ret*wt 0.0136034 0.309009 0.806938 1.05051 0.243565 0.0141681 0.00882758 0.0100774 0.0111843 0.0121157 0.012881 0.0134999 0.0139959 0.0143918 0.0147074 0.0149591

6 2006 1 1 sel_nums 0.075963 0.693246 0.999339 0.857884 0.146672 0.00678497 0.00354745 0.00353737 0.00353733 0.00353732 0.00353731 0.0035373 0.0035373 0.0035373 0.0035373 0.00353729 0.00353729

6 2006 1 1 sel*ret_nums 0.075963 0.693246 0.999339 0.857884 0.146672 0.00678497 0.00678497 0.00354745 0.00353737 0.00353733 0.00353732 0.00353731 0.0035373 0.0035373 0.0035373 0.00353729 0.00353729

6 2006 1 1 dead_nums 0.075963 0.693246 0.999339 0.857884 0.146672 0.00678497 0.00354745 0.00353737 0.00353733 0.00353732 0.00353731 0.0035373 0.0035373 0.0035373 0.00353729 0.00353729

6 2006 1 1 dead*wt 0.0136034 0.309009 0.806938 1.05051 0.243565 0.0141681 0.00882758 0.0100774 0.0111843 0.0121157 0.012881 0.0134999 0.0139959 0.0143918 0.0147074 0.0149591

ENVIRONMENTAL_DATA Begins_in_startyr-1

NUMBERS_AT_AGE

Population 1 gmorph 1 gender: 1 GrowPattern: 1 birthseason: 1
Year Per Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1980 VIRG 1 45538.3 37283.6 30525.2 24991.9 20461.7 16752.6 13715.9 11229.6
9194.02 7527.43 6162.94 5045.79 4131.14 3382.29 2769.19 12482.1
1981 INIT 1 43197 34167.7 14497.7 2177.33 326.874 49.0723 7.36998 1.10778
0.166717 0.0251318 0.00379636 0.000574899 8.73119e-005 1.33043e-005 2.03481e-
006 3.69501e-007
1982 TIME 1 44297.1 34167.7 14497.7 2177.33 326.874 49.0723 7.36998 1.10778
0.166717 0.0251318 0.00379636 0.000574899 8.73119e-005 1.33043e-005 2.03481e-
006 3.69501e-007
1983 TIME 1 62916.4 34496.2 13739.7 2273.85 270.692 41.1735 6.20238 0.932324
0.140314 0.0211531 0.00319569 0.000484008 7.35221e-005 1.12057e-005 1.71431e-
006 3.11418e-007
1984 TIME 1 36151.1 50120.6 17964.7 3246.65 426.958 51.5916 7.87606 1.18722
0.178626 0.0269177 0.00406467 0.000615296 9.34102e-005 1.42277e-005 2.17511e-
006 3.94779e-007
1985 TIME 1 47725.9 28202.5 20209.6 2459.76 308.956 41.1475 4.9899 0.762467
0.115091 0.0173491 0.00262072 0.000396904 6.02903e-005 9.18939e-006 1.40598e-
006 2.55447e-007
1986 TIME 1 52311.7 37547.1 12570.3 3569.68 336.151 42.2943 5.63938 0.684394
0.1047 0.0158294 0.00239108 0.000362093 5.49989e-005 8.38252e-006 1.2825e-006
2.3302e-007
1987 TIME 1 38847.8 40532.7 13866.3 1618.99 371.946 36.0175 4.5607 0.608732
0.0739782 0.0113387 0.00171837 0.000260312 3.95534e-005 6.03107e-006
9.23217e-007 1.6786e-007
1988 TIME 1 10621.7 30481.4 17509.3 2418.08 234.261 55.0735 5.36132 0.679452
0.0907935 0.0110514 0.00169722 0.000257833 3.91689e-005 5.97085e-006
9.13757e-007 1.66092e-007
1989 TIME 1 23587 8239.23 11073.4 2001.96 215.537 21.2305 5.01224 0.488437
0.0619927 0.00830073 0.00101296 0.000156049 2.37924e-005 3.62954e-006
5.55886e-007 1.0115e-007
1990 TIME 1 28244.9 18257.1 3821.36 2286.03 336.65 36.3249 3.58197 0.846196
0.0825425 0.0104906 0.00140711 0.000172073 2.65737e-005 4.06313e-006
6.21814e-007 1.14363e-007
1991 TIME 1 26297 21550.2 8566.97 964.998 491.33 73.9284 8.01547 0.790881
0.186984 0.0182594 0.00232386 0.000312223 3.82566e-005 5.92144e-006 9.07702e-
007 1.68093e-007
1992 TIME 1 32432.6 20078.5 9174.63 1678.26 156.587 82.4243 12.4926 1.35555
0.133885 0.0316971 0.00310064 0.000395445 5.3261e-005 6.54448e-006 1.0162e-
006 1.87993e-007
1993 TIME 1 28239.9 24940.6 8138.58 1529.41 243.813 23.3696 12.375 1.87723
0.203926 0.0201724 0.00478505 0.000469176 6.00011e-005 8.10672e-006 9.99645e-
007 1.86477e-007
1994 TIME 1 28620.9 21654.3 10567.3 1633.44 265.529 45.2531 4.39811 2.33111
0.353958 0.0385012 0.00381482 0.000906713 8.91114e-005 1.14267e-005 1.54851e-
006 2.29819e-007
1995 TIME 1 34451 22182.3 9515.15 2163.93 285.351 50.1376 8.81728 0.858771
0.455607 0.0692695 0.00754701 0.000749264 0.0001785 1.75897e-005 2.26228e-006
3.54915e-007
1996 TIME 1 25144.7 27895.5 14468.2 1926.21 154.602 19.9589 3.55233 0.62539
0.0609846 0.0324128 0.00493979 0.000539807 5.37839e-005 1.28666e-005
1.27392e-006 1.91109e-007

1997 TIME 1 25677 20387 18863.9 3791.7 216.248 17.0245 2.21519 0.394562
0.069531 0.00679023 0.00361598 0.000552423 6.05431e-005 6.05267e-006
1.45356e-006 1.66951e-007
1998 TIME 1 27386.1 20892.1 14834.6 7960.09 1070.81 61.7709 4.8876 0.636245
0.113387 0.0199972 0.00195492 0.0010424 0.000159497 1.75116e-005 1.75427e-006
4.71578e-007
1999 TIME 1 21247.3 22283.1 15339.2 6788.65 2538.52 346.333 20.1053 1.59153
0.207274 0.0369643 0.00652508 0.000638611 0.00034098 5.22552e-005 5.74752e-
006 7.34422e-007
2000 TIME 1 26996.8 17271.7 16466.7 8003.09 2790.3 1060.76 145.762 8.46559
0.670341 0.0873426 0.0155856 0.0027533 0.000269707 0.000144157 2.21184e-005
2.76496e-006
2001 TIME 1 29162.3 21941.2 12639.8 7941.81 2832.17 1011.03 387.231 53.2332
3.09293 0.245056 0.0319548 0.00570765 0.00100947 9.90189e-005 5.30068e-005
9.19373e-006
2002 TIME 1 33483.4 23703.2 16195.4 6617.68 3275.38 1214.12 437.983 167.832
23.0796 1.34159 0.106362 0.0138802 0.00248153 0.00043936 4.31499e-005
2.71883e-005
2003 TIME 1 24764.3 27287.2 18021.6 9164.91 2996.53 1504.56 560.885 202.399
77.5804 10.6731 0.620762 0.0492486 0.00643225 0.00115108 0.000204027
3.28655e-005
2004 TIME 1 40333.2 20179.2 20745.2 10293.6 4251.72 1412.77 713.005 265.876
95.9696 36.8005 5.06551 0.294814 0.023408 0.00306009 0.000548195 0.000113196
2005 TIME 1 23368.8 32877.8 15426 12139.4 4936.17 2075.59 693.563 350.13
130.596 47.1577 18.0923 2.49195 0.145142 0.0115342 0.00150936 0.000326933
2006 TIME 1 25925.7 19058.5 25332.3 9405.91 6263.98 2592.44 1095.62 366.197
184.909 68.9926 24.9239 9.5674 1.31863 0.0768607 0.00611328 0.000975072
2007 FORE 1 41729.8 21161.6 14899.7 16683.5 5453.01 3678.07 1528.03 645.902
215.92 109.054 40.7031 14.7101 5.64942 0.779069 0.0454397 0.00419682

CATCH_AT_AGE

fleet 1 fleetarea 1 gmorph 1
Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1981 E 1328.04 15081.2 11020.7 1655.29 248.502 37.303 5.60131 0.841681
0.126619 0.0190778 0.00288014 0.000435845 6.61403e-005 1.00691e-005 1.53846e-
006 2.79058e-007
1982 1 555.344 6055.43 4597.46 637.327 96.1036 14.4409 2.16842 0.325836
0.0490177 0.00738561 0.00111501 0.000168738 2.56073e-005 3.89862e-006
5.95704e-007 1.08061e-007
1983 1 970.72 8329.43 6169.05 936.801 112.135 17.0751 2.57157 0.386401
0.0581238 0.00875704 0.00132199 0.000200054 3.03594e-005 4.62213e-006
7.06272e-007 1.2813e-007
1984 1 532.188 10433.6 6374.38 1021.17 134.836 16.3079 2.48911 0.375095
0.0564149 0.00849755 0.00128248 0.000194021 2.94348e-005 4.47992e-006
6.84306e-007 1.24086e-007
1985 1 715.596 6217.37 7959 885 111.225 14.8156 1.79626 0.274383 0.0413992
0.00623741 0.000941635 0.000142508 2.16297e-005 3.2938e-006 5.03448e-007
9.13692e-008
1986 1 847.131 8312.39 4820.55 1275.96 121.256 15.2847 2.03771 0.247228
0.0378078 0.00571358 0.000862597 0.000130548 1.98153e-005 3.01775e-006
4.61309e-007 8.37363e-008
1987 1 615.558 9328.1 5751.65 628.676 145.597 14.1217 1.78782 0.238548
0.028978 0.00443912 0.000672324 0.000101775 1.54514e-005 2.35383e-006
3.59945e-007 6.53709e-008
1988 1 207.98 8099.26 7796.26 993.506 96.7564 22.7719 2.21646 0.280824
0.0375132 0.00456422 0.000700612 0.000106373 1.61495e-005 2.46004e-006
3.76176e-007 6.83173e-008

1989 1 363.866 1916.28 4788.99 803.344 86.5586 8.52743 2.0127 0.196062
0.0248721 0.00332832 0.000405871 6.24736e-005 9.5162e-006 1.45016e-006
2.2185e-007 4.13929e-008
1990 1 251.987 2485.28 1039.19 584.607 86.7932 9.37995 0.924716 0.218359
0.0212878 0.00270365 0.000362338 4.42667e-005 6.82867e-006 1.04281e-006
1.59382e-007 3.05562e-008
1991 1 297.308 3562.75 2680.37 282.035 145.316 21.9171 2.37583 0.234334
0.0553756 0.00540427 0.000687304 9.2266e-005 1.12946e-005 1.74634e-006
2.67397e-007 5.10036e-008
1992 1 535.657 4732.24 3940.64 686.81 64.6874 34.1134 5.16945 0.560741
0.0553589 0.013099 0.00128053 0.00016319 2.19606e-005 2.69581e-006 4.18159e-
007 7.88199e-008
1993 1 302.994 3896.99 2433.33 433.723 70.8413 6.82315 3.61257 0.547802
0.0594788 0.00588 0.00139375 0.00013654 1.74445e-005 2.35432e-006 2.89971e-
007 5.5294e-008
1994 1 305.083 3397.2 3146.35 458.887 76.7394 13.2273 1.28594 0.681326
0.103402 0.0112404 0.00111291 0.000264291 2.59489e-005 3.32374e-006 4.49886e-
007 6.74678e-008
1995 1 55.3359 1585.26 3360.96 790.609 103.651 18.2814 3.21499 0.313064
0.166046 0.0252365 0.00274843 0.000272732 6.49386e-005 6.3952e-006 8.21955e-
007 1.29438e-007
1996 1 24.3626 1222.18 3399.97 489.414 39.0544 5.05459 0.899561 0.158329
0.0154342 0.00819968 0.00124901 0.000136407 1.35816e-005 3.24659e-006
3.21172e-007 4.85813e-008
1997 1 13.1173 486.648 2836.75 708.972 40.6415 3.20576 0.417066 0.0742597
0.0130797 0.0012765 0.000679233 0.000103671 1.13495e-005 1.13324e-006
2.71776e-007 3.13421e-008
1998 1 12.2858 439.804 2028.89 1372.47 185.799 10.7449 0.850062 0.110615
0.0197024 0.00347236 0.000339168 0.000180669 2.76119e-005 3.02758e-006
3.02851e-007 8.17139e-008
1999 1 7.55535 373.132 1762.65 1031.75 388.768 53.1994 3.08792 0.244331
0.031801 0.00566665 0.000999308 9.76877e-005 5.20885e-005 7.97025e-006
8.75165e-007 1.14193e-007
2000 1 8.59107 257.657 1635.57 1022.15 360.1 137.312 18.8657 1.09524
0.0866762 0.0112852 0.00201194 0.00035504 3.47358e-005 1.854e-005 2.8402e-006
3.58176e-007
2001 1 9.59387 339.746 1345.92 1118.37 405.732 145.483 55.7145 7.65586
0.444543 0.0351936 0.00458468 0.000817951 0.00014447 1.41496e-005 7.56169e-
006 1.31454e-006
2002 1 12.5499 423.55 2032.09 1103.92 550.125 204.41 73.7256 28.2386 3.88079
0.225401 0.0178519 0.00232688 0.000415428 7.3437e-005 7.19969e-006 4.55007e-
006
2003 1 7.96154 418.245 1947.88 1325.36 436.66 219.725 81.8947 29.539 11.3151
1.55538 0.0903711 0.00716099 0.000933971 0.000166873 2.95255e-005 4.77603e-
006
2004 1 13.8133 330.295 2414.61 1608.64 670.07 223.187 112.617 41.9751
15.1414 5.80122 0.797702 0.0463697 0.00367648 0.000479848 8.5807e-005
1.77203e-005
2005 1 7.22101 487.259 1650.34 1767.62 724.858 305.461 102.049 51.4929
19.1936 6.92471 2.65386 0.365067 0.0212319 0.00168446 0.000220017 4.76414e-
005
2006 1 4.89249 173.633 1714.44 881.083 590.525 244.804 103.435 34.5546
17.4358 6.49962 2.34537 0.899099 0.123726 0.00719913 0.000571472 9.11465e-005
fleet 2 fleetarea 1 gmorph 1
Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1981 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

1982 1 167.318 1285.66 1872.92 473.998 71.7992 10.7915 1.62086 0.243622
0.0366593 0.00552501 0.000834337 0.000126296 1.91715e-005 2.91957e-006
4.46225e-007 8.09668e-008
1983 1 238.672 1443.19 2050.91 568.576 68.3673 10.413 1.56865 0.235767
0.0354743 0.00534604 0.000807269 0.000122195 1.85487e-005 2.82473e-006
4.3174e-007 7.8346e-008
1984 1 213.479 2949.36 3457.4 1011.16 134.121 16.2253 2.47717 0.373395
0.0561741 0.00846353 0.00127769 0.000193346 2.93403e-005 4.46672e-006
6.82471e-007 1.23786e-007
1985 1 198.393 1214.7 2983.58 605.671 76.4647 10.1879 1.23552 0.188779
0.0284907 0.00429369 0.000648372 9.81512e-005 1.49013e-005 2.26979e-006
3.47022e-007 6.29967e-008
1986 1 182.316 1260.67 1402.78 677.866 64.711 8.15899 1.08802 0.132041
0.0201979 0.00305316 0.000461067 6.97976e-005 1.05971e-005 1.61431e-006
2.46836e-007 4.48174e-008
1987 1 119.852 1279.88 1514.22 302.159 70.2955 6.81972 0.863613 0.115262
0.0140054 0.00214605 0.000325114 4.9228e-005 7.47579e-006 1.13914e-006
1.74242e-007 3.16532e-008
1988 1 43.0122 1180.37 2180.1 507.194 49.6192 11.6808 1.13724 0.144125
0.0192577 0.00234371 0.000359857 5.46513e-005 8.29929e-006 1.26456e-006
1.93421e-007 3.51365e-008
1989 1 77.8667 288.983 1385.72 424.372 45.9326 4.52621 1.06859 0.104122
0.0132122 0.00176849 0.000215716 3.32128e-005 5.06043e-006 7.71355e-007
1.18036e-007 2.20291e-008
1990 1 74.4466 517.42 415.127 426.348 63.5847 6.87341 0.67779 0.160093
0.0156117 0.00198328 0.000265866 3.24894e-005 5.0132e-006 7.65769e-007
1.17071e-007 2.24504e-008
1991 1 81.6481 689.487 995.302 191.195 98.9588 14.9289 1.61873 0.159702
0.0377493 0.00368505 0.000468781 6.29475e-005 7.70766e-006 1.19205e-006
1.82574e-007 3.48336e-008
1992 1 73.9438 460.345 735.534 234.038 22.1429 11.6801 1.77044 0.192094
0.0189694 0.00448974 0.000439022 5.59638e-005 7.53306e-006 9.24979e-007
1.43516e-007 2.70589e-008
1993 1 71.1611 644.972 772.735 251.452 41.2568 3.97466 2.10497 0.319278
0.0346755 0.00342889 0.000812976 7.96651e-005 1.01808e-005 1.37437e-006
1.69319e-007 3.22958e-008
1994 1 77.0766 604.824 1074.81 286.184 48.0755 8.28865 0.806025 0.427166
0.0648462 0.00705103 0.000698308 0.000165877 1.62906e-005 2.08719e-006
2.82586e-007 4.23897e-008
1995 1 18.6366 409.641 1158.7 567.231 81.6298 14.3999 2.53284 0.246681
0.130859 0.0198922 0.00216677 0.00021505 5.12131e-005 5.04437e-006 6.4845e-
007 1.02133e-007
1996 1 9.79813 377.134 1399.72 419.309 36.7286 4.75441 0.846285 0.148978
0.0145251 0.00771807 0.00117586 0.00012844 1.27906e-005 3.05801e-006 3.0257e-
007 4.57753e-008
1997 1 1.97554 56.2338 437.331 227.462 14.3129 1.12918 0.146931 0.026166
0.00460954 0.000449941 0.000239457 3.65544e-005 4.00253e-006 3.9972e-007
9.58784e-008 1.10589e-008
1998 1 2.7044 74.279 457.163 643.587 95.6364 5.5317 0.437707 0.0569669
0.0101485 0.00178889 0.000174762 9.3109e-005 1.42324e-005 1.56083e-006
1.56157e-007 4.2141e-008
1999 1 1.59523 60.4465 380.961 464.068 191.943 26.2703 1.52511 0.120695
0.0157118 0.00280018 0.000493895 4.82892e-005 2.5753e-005 3.94124e-006
4.32838e-007 5.64874e-008
2000 1 2.09286 48.1589 407.859 530.451 205.131 78.2333 10.7506 0.624231
0.0494095 0.00643421 0.0011473 0.000202494 1.98148e-005 1.05778e-005
1.62073e-006 2.04424e-007

2001 1 1.79114 48.6667 257.22 444.795 177.129 63.5242 24.3317 3.34404
 0.194208 0.0153777 0.00200361 0.000357525 6.31586e-005 6.18689e-006 3.30692e-
 006 5.7498e-007
 2002 1 2.74331 71.0364 454.7 514.058 281.197 104.503 37.6982 14.4417 1.98506
 0.115314 0.00913456 0.00119083 0.000212642 3.75961e-005 3.68652e-006
 2.33021e-006
 2003 1 1.47201 59.3316 368.657 522.017 188.787 95.0133 35.419 12.7777
 4.89543 0.673043 0.0391121 0.00309977 0.000404357 7.22592e-005 1.27873e-005
 2.06882e-006
 2004 1 2.73315 50.1427 489.055 678.049 310.027 103.282 52.1236 19.4311
 7.01046 2.68643 0.369464 0.0214803 0.00170339 0.000222362 3.97699e-005
 8.21444e-006
 2005 1 1.14875 59.4744 268.752 599.04 269.648 113.652 37.9755 19.1654
 7.14501 2.57824 0.988269 0.135971 0.00790927 0.000627601 8.19887e-005
 1.77565e-005
 2006 1 1.04859 28.5528 376.134 402.28 295.956 122.711 51.8571 17.3269
 8.74446 3.26027 1.17667 0.451153 0.0620947 0.00361366 0.000286904 4.57675e-
 005
 fleet 3 fleetarea 1 gmorph 1
 Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 1981 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1982 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1983 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1984 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1985 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1986 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1987 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1988 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1989 1 534.429 418.238 405.194 67.9568 7.32222 0.721529 0.170383 0.0166095
 0.00210912 0.000282583 3.45102e-005 5.3211e-006 8.1212e-007 1.24028e-007
 1.8983e-008 9.57508e-013
 1990 1 980.966 1437.69 233.045 131.076 19.4601 2.1036 0.207482 0.0490299
 0.00478461 0.000608411 8.16582e-005 9.9933e-006 1.54461e-006 2.36392e-007
 3.61471e-008 1.87345e-012
 1991 1 691.775 1231.85 359.272 37.7958 19.4741 2.93784 0.318618 0.0314491
 0.00743901 0.000726885 9.25799e-005 1.24496e-005 1.52699e-006 2.36614e-007
 3.62469e-008 1.86907e-012
 1992 1 566.903 744.224 240.248 41.864 3.94299 2.07986 0.315329 0.0342294
 0.00338259 0.000801368 7.84551e-005 1.00155e-005 1.35043e-006 1.66136e-007
 2.57822e-008 1.31379e-012
 1993 1 552.063 1055.11 255.403 45.5145 7.43405 0.716188 0.379374 0.0575696
 0.00625687 0.000619304 0.000147012 1.44269e-005 1.84681e-006 2.4979e-007
 3.07799e-008 1.58672e-012
 1994 1 282.475 467.41 167.818 24.4709 4.09227 0.70554 0.0686248 0.0363858
 0.0055275 0.000601608 5.96529e-005 1.41906e-005 1.39601e-006 1.79202e-007
 2.42673e-008 9.83843e-013
 1995 1 24.5991 133.021 70.8237 11.3549 1.48783 0.262435 0.0461671 0.00449815
 0.00238772 0.000363286 3.96163e-005 3.93734e-006 9.39185e-007 9.26786e-008
 1.19175e-008 5.46301e-013
 1996 1 33.4799 317.031 221.482 21.7294 1.73299 0.224309 0.039933 0.00703249
 0.000686102 0.000364892 5.5655e-005 6.08767e-006 6.07224e-007 1.45446e-007
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 1997 1 17.2407 120.735 176.74 30.1058 1.72483 0.136063 0.0177075 0.00315466
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1998 1 17.1777 116.072 134.469 61.9977 8.38823 0.485136 0.0383931 0.00499879
0.000891096 0.000157215 1.53764e-005 8.20348e-006 1.25601e-006 1.37997e-007
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0.00735915 0.00131273 0.000231803 2.26953e-005 1.21233e-005 1.85878e-006
2.042e-007 7.75606e-012
2000 1 32.5723 184.395 293.95 125.206 44.0849 16.8115 2.31054 0.134214
0.0106303 0.00138553 0.000247339 4.37151e-005 4.28464e-006 2.29152e-006
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2001 1 13.5566 90.6185 90.153 51.0566 18.5124 6.63846 2.54311 0.349654
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0.182372 0.0106037 0.00084092 0.000109779 1.96347e-005 3.47793e-006 3.41137e-
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fleet 5 fleetarea 1 gmorph 1
Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
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0.0193642 0.00291736 0.000440398 6.66468e-005 1.01151e-005 1.54026e-006
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1986 1 1369.92 8664.26 3434.72 909.93 86.4685 10.899 1.45295 0.176272
0.0269553 0.00407333 0.000614932 9.30606e-005 1.41246e-005 2.15098e-006
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0.0133238 0.00204096 0.000309097 4.67878e-005 7.10297e-006 1.08199e-006
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1988 1 236.731 5942.11 3909.95 498.692 48.5649 11.4293 1.11239 0.140932
0.0188251 0.00229033 0.000351549 5.33727e-005 8.10255e-006 1.23419e-006
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1989 1 182.858 620.718 1060.4 178.034 19.1819 1.88964 0.445982 0.0434418
0.00551067 0.000737388 8.99159e-005 1.38395e-005 2.10798e-006 3.21215e-007
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1990 1 377.95 2402.67 686.756 386.677 57.4053 6.2036 0.611546 0.144401
0.0140769 0.00178774 0.000239577 2.92676e-005 4.51463e-006 6.89394e-007
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1991 1 453.308 3501.33 1800.67 189.635 97.7038 14.7353 1.59723 0.15753
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1992 1 526.412 2997.56 1706.31 297.649 28.0329 14.7826 2.24 0.242965
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0.0451671 0.00446493 0.00105828 0.00010367 1.32443e-005 1.78737e-006 2.2013e-
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1997 1 56.7504 998.607 4465.08 1254.51 71.9446 5.67516 0.73837 0.131475
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006 7.93335e-007
2001 1 34.4835 579.2 1760.04 1644.08 596.709 213.97 81.9467 11.2611 0.653915
0.0517718 0.00674468 0.00120338 0.000212557 2.08191e-005 1.11265e-005
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2002 1 24.215 387.619 1426.5 871.172 434.321 161.388 58.2114 22.2974 3.06446
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2003 1 21.8931 545.504 1948.75 1490.61 491.313 247.237 92.1534 33.2409
12.7339 1.75049 0.101712 0.00806008 0.00105129 0.000187844 3.32376e-005
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2004 1 27.7723 314.972 1766.22 1322.79 551.237 183.613 92.6535 34.536
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2005 1 14.1551 453.035 1177 1417.18 581.398 245.016 81.8594 41.3077 15.3979
5.55558 2.12926 0.292917 0.0170366 0.00135169 0.000176561 3.82336e-005
2006 1 13.7498 231.45 1752.97 1012.76 679.065 281.521 118.955 39.7412
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fleet 6 fleetarea 1 gmorph 1
Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1981 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1982 1 63.1746 333.136 142.163 16.9699 0.433075 0.00151139 3.75664e-006
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1983 1 101.496 421.18 175.332 22.9266 0.464451 0.00164255 4.09477e-006
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1984 1 54.5825 517.512 177.711 24.5144 0.547822 0.00153881 3.88784e-006
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1985 1 18.9381 79.574 57.2551 5.4821 0.116604 0.000360733 7.23957e-007
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1986 1 145.169 688.886 224.548 51.1796 0.823138 0.0024098 5.31792e-006
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1987 1 89.9487 659.198 228.458 21.5025 0.842795 0.0018985 3.97855e-006
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1993 1 177.211 1102.26 386.853 59.3753 1.6413 0.00367148 3.21772e-005
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BIOLOGY 1 70 15 1 N_Used_morphs;_lengths;_ages;_season;_by_season_in_endyr
bin low Mean_Size Wt_len-F mat_len spawn Wt_len-M

1 10 10.5 0.0063863 1 0.0063863
2 11 11.5 0.00865928 1 0.00865928
3 12 12.5 0.0114467 1 0.0114467
4 13 13.5 0.0148098 1 0.0148098
5 14 14.5 0.0188113 1 0.0188113
6 15 15.5 0.0235157 1 0.0235157
7 16 16.5 0.0289892 1 0.0289892
8 17 17.5 0.0352991 1 0.0352991
9 18 18.5 0.0425145 1 0.0425145
10 19 19.5 0.0507059 1 0.0507059
11 20 20.5 0.0599448 1 0.0599448
12 21 21.5 0.0703042 1 0.0703042
13 22 22.5 0.0818585 1 0.0818585
14 23 23.5 0.0946829 1 0.0946829
15 24 24.5 0.108854 1 0.108854
16 25 25.5 0.12445 1 0.12445
17 26 26.5 0.14155 1 0.14155
18 27 27.5 0.160232 1 0.160232
19 28 28.5 0.180579 1 0.180579
20 29 29.5 0.202673 1 0.202673
21 30 30.5 0.226596 1 0.226596
22 31 31.5 0.252433 1 0.252433
23 32 32.5 0.280267 1 0.280267
24 33 33.5 0.310187 1 0.310187
25 34 34.5 0.342277 1 0.342277
26 35 35.5 0.376627 1 0.376627
27 36 36.5 0.413324 1 0.413324
28 37 37.5 0.452458 1 0.452458
29 38 38.5 0.494119 1 0.494119
30 39 39.5 0.538399 1 0.538399
31 40 40.5 0.58539 1 0.58539
32 41 41.5 0.635184 1 0.635184
33 42 42.5 0.687876 1 0.687876
34 43 43.5 0.743558 1 0.743558
35 44 44.5 0.802328 1 0.802328
36 45 45.5 0.86428 1 0.86428
37 46 46.5 0.929512 1 0.929512
38 47 47.5 0.99812 1 0.99812
39 48 48.5 1.0702 1 1.0702
40 49 49.5 1.14586 1 1.14586
41 50 50.5 1.22519 1 1.22519
42 51 51.5 1.3083 1 1.3083
43 52 52.5 1.39527 1 1.39527
44 53 53.5 1.48623 1 1.48623
45 54 54.5 1.58127 1 1.58127

46 55 55.5 1.68048 1 1.68048
47 56 56.5 1.78398 1 1.78398
48 57 57.5 1.89188 1 1.89188
49 58 58.5 2.00426 1 2.00426
50 59 59.5 2.12125 1 2.12125
51 60 60.5 2.24294 1 2.24294
52 61 61.5 2.36945 1 2.36945
53 62 62.5 2.50088 1 2.50088
54 63 63.5 2.63734 1 2.63734
55 64 64.5 2.77893 1 2.77893
56 65 65.5 2.92577 1 2.92577
57 66 66.5 3.07797 1 3.07797
58 67 67.5 3.23564 1 3.23564
59 68 68.5 3.39888 1 3.39888
60 69 69.5 3.56782 1 3.56782
61 70 70.5 3.74255 1 3.74255
62 71 71.5 3.9232 1 3.9232
63 72 72.5 4.10988 1 4.10988
64 73 73.5 4.30271 1 4.30271
65 74 74.5 4.50178 1 4.50178
66 75 75.5 4.70723 1 4.70723
67 76 76.5 4.91917 1 4.91917
68 77 77.5 5.13771 1 5.13771
69 78 78.5 5.36296 1 5.36296
70 79 79.5 5.59506 1 5.59506

Growth_Parameters

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

Season gmorph GrowPattern Sex BirthSeas age age_Beg age_Mid M Len_Beg Len_Mid
SD_Beg SD_Mid Wt_Beg Wt_Mid Len_Mat Age_Mat Mat*Fecund Len:_1 SelWt:_1
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 Len:_10 SelWt:_10
RetWt:_10 Len:_11 SelWt:_11 RetWt:_11 Len:_12 SelWt:_12 RetWt:_12 Len:_13
SelWt:_13 RetWt:_13 Len:_14 SelWt:_14 RetWt:_14 Len:_15 SelWt:_15 RetWt:_15
Len:_16 SelWt:_16 RetWt:_16 Len:_17 SelWt:_17 RetWt:_17 Len:_18 SelWt:_18
RetWt:_18 Len:_19 SelWt:_19 RetWt:_19
1 1 1 1 1 0 0 0.5 0.2 10 28.11 2.81 0.006815 0.17908 1 0.38 0.0025897 28.1
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1 1 1 1 1 1 1 1.5 0.2 32.7269 36.9026 3.27269 3.69026 0.298237 0.445742 1
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1 1 1 1 1 2 2 2.5 0.2 40.6711 44.0721 4.06711 4.40721 0.61717 0.807472 1 0.98
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1 1 1 1 1 6 6 6.5 0.2 60.2 61.6967 6.02 6.16967 2.29261 2.48843 1 1 2.29261
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1 1 1 1 1 7 7 7.5 0.2 63.0475 64.2666 6.30475 6.42666 2.67421 2.84884 1 1
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1 1 1 1 1 8 8 8.5 0.2 65.3667 66.3596 6.53667 6.63596 3.01152 3.1618 1 1
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1 1 1 1 1 11 11 11.5 0.2 70.0474 70.5839 7.00474 7.05839 3.73371 3.81643 1 1
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1 1 1 1 1 12 12 12.5 0.2 71.0681 71.505 7.10681 7.1505 3.89048 3.95667 1 1
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1 1 1 1 1 13 13 13.5 0.2 71.8994 72.2553 7.18994 7.22553 4.0158 4.06859 1 1
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1 1 1 1 1 14 14 14.5 0.2 72.5765 72.8663 7.25765 7.28663 4.11573 4.15781 1 1
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1 1 1 1 1 15 15 15.5 0.2 73.1279 73.364 7.31279 7.3364 4.19539 4.22897 1 1
4.19539 72.5389 4.22897 4.22897 72.5389 4.22897 4.22897 72.5389 4.22897
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MEAN_BODY_WT(begin)
morph year season 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

1 1982 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 1983 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 1984 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 1985 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 1986 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 1987 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 1988 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 1989 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 1990 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 1991 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 1992 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 1993 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 1994 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
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 1 1995 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
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 1 1997 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
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 1 1998 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
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 1 1999 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 2000 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
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 1 2001 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 2002 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 2003 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 2004 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 2005 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 2006 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 2007 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539

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 1982 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
 67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279

1 1996 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 1997 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 1997 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 1998 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 1998 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 1999 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 1999 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 2000 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
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1 2000 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
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1 2001 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
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1 2001 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 2002 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 2002 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
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3.68115e-012 2.90966e-012 2.40898e-012 2.06925e-012

21 0.00921523 1.87341e-005 1.92556e-007 7.76317e-009 7.81249e-010 1.45166e-010 4.11751e-011 1.57711e-011 7.51834e-012 4.21768e-012 2.67621e-012 1.86644e-012 1.40074e-012 1.11338e-012 9.25989e-013 7.9833e-013
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 17 0.000123603 1.16522e-007 1.24979e-009 5.98539e-011 7.16167e-012 1.54335e-012 4.94191e-013 2.08716e-013 1.0761e-013 6.42834e-014 4.29001e-014 3.11583e-014 2.41611e-014 1.9718e-014 1.67528e-014 1.46947e-014
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 13 2.231e-007 2.25534e-010 3.57356e-012 2.434e-013 3.85064e-014 1.03024e-014 3.90061e-015 1.877e-015 1.072e-015 6.94236e-016 4.93959e-016 3.77563e-016 3.04991e-016 2.57211e-016 2.24383e-016 2.01059e-016
 12 3.36116e-008 3.94173e-011 7.26998e-013 5.56178e-014 9.59302e-015 2.73825e-015 1.08893e-015 5.44154e-016 3.20029e-016 2.1207e-016 1.53654e-016 1.19152e-016 9.73628e-017 8.28696e-017 7.28303e-017 6.56501e-017
 11 4.46692e-009 6.40421e-012 1.4051e-013 1.22107e-014 2.3115e-015 7.06922e-016 2.96132e-016 1.5399e-016 9.33991e-017 6.34016e-017 4.68181e-017 3.68565e-017 3.04806e-017 2.6194e-017 2.31991e-017 2.10424e-017
 10 5.83176e-010 1.12322e-012 3.11849e-014 3.22251e-015 6.93596e-016 2.33679e-016 1.05418e-016 5.80595e-017 3.68354e-017 2.59089e-017 1.96795e-017 1.58451e-017 1.33426e-017 1.16338e-017 1.04248e-017 9.54536e-018
 mean 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666 66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
 sdsz 2.81 3.69026 4.40721 4.99116 5.46677 5.85416 6.16967 6.42666 6.63596 6.80644 6.9453 7.05839 7.1505 7.22553 7.28663 7.3364

AGE AGE_KEY

KEY: 1

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 0.001 0.001 0.001 0.001
 7 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1
 6 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
 5 0 0 0 0 0 1 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
 3 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0
 2 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Composition_Database

year	season	fleet	rep	pick_gender	kind	mkt	ageerr	gender	Lbin_lo	Lbin_hi	bin						
obs	exp	Pearson	N	effN	Like	Used											
1982	1	1	1	0	AGE	0	1	1	1	70	0	0.0999438	0.0502525	3.21671	200	81.2288	13.7432
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	1	0.476731	0.529875	-1.50583	200	81.2288	-10.077
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	2	0.390191	0.362313	0.820201	200	81.2288	5.78466
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	3	0.0161747	0.0485435	-2.13001	200	81.2288	-
3.55524	1																
1982	1	1	1	0	AGE	0	1	1	1	70	4	0.00432648	0.0074203	-0.509819	200	81.2288	-
0.466797	1																
1982	1	1	1	0	AGE	0	1	1	1	70	5	0.00682085	0.00120052	2.29537	200	81.2288	
2.36987	1																
1982	1	1	1	0	AGE	0	1	1	1	70	6	0.00404933	0.000265207	3.28659	200	81.2288	
2.20753	1																
1982	1	1	1	0	AGE	0	1	1	1	70	7	0.00176283	0.000129164	2.03299	200	81.2288	
0.921464	1																
1982	1	1	1	0	AGE	0	1	1	1	70							
1982	1	2	1	0	AGE	0	1	1	1	70	0	0.17237	0.0476363	8.28186	200	3.8026	44.3352
1																	
1982	1	2	1	0	AGE	0	1	1	1	70	1	0.608225	0.353956	7.51975	200	3.8026	65.8554
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1982	1	2	1	0	AGE	0	1	1	1	70	3	0.025036	0.113445	-3.94244	200	3.8026	-7.5659
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1982	1	2	1	0	AGE	0	1	1	1	70	4	0.00923145	0.0173054	-0.875588	200	3.8026	-
1.16021	1																
1982	1	2	1	0	AGE	0	1	1	1	70	5	0.00343644	0.00268734	0.204634	200	3.8026	
0.168994	1																
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0.198196	1																
1982	1	2	1	0	AGE	0	1	1	1	70	7	0.00115356	0.000168709	1.07239	200	3.8026	
0.443527	1																
1982	1	2	1	0	AGE	0	1	1	1	70							
1982	1	5	1	0	AGE	0	1	1	1	70	0	0.177705	0.0870522	4.54759	200	43.2307	25.3625
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0.0448251	1																
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1982	1	8	1	0	AGE	0	1	1	1	70	1	0.307977	0.460681	-3.06357	100	10.0297	-12.4016
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2.16622	1																

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1.38933 1
1982 1 9 1 0 AGE 0 1 1 1 70
1982 1 10 1 0 AGE 0 1 1 1 70 2 0.917916 0.838565 2.1567 100 21.4976 8.29931 1
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