

SS2 ALTERNATIVE RUN (F08 MULTI SVAge FLAT6.REP)

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

Time: Thu Mar 20 15:25:00 2008

Data_File: F08_SVAgecomp6.DAT
Control_File: F08_SVAgecomp_FLAT6.CTL

Convergence_Level:
Hessian:
Sum_of_months_on_read_was:_ 12 rescaled_to_sum_to: 1

LIKELIHOOD 2882.75
indices 780.521
discard 0
length_comps 0
age_comps 2072.58
size-at-age 0
mean_body_wt 0
Equil_catch 0
catch 29.6505
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 1 132.902 0 0
2 1 56.3759 0 0 0 0 1 94.4645 0 0
3 1 50.2471 0 0 0 0 1 170.465 0 0
4 1 28.0924 0 0 0 0 1 184.24 0 0
5 1 147.366 0 0 0 0 1 118.582 0 0
6 1 227.645 0 0 0 0 1 384.394 0 0
7 1 33.8026 0 0 0 0 1 132.792 0 0
8 1 26.9844 0 0 0 0 1 138.996 0 0
9 1 56.0583 0 0 0 0 1 336.231 0 0
10 1 35.6475 0 0 0 0 1 156.394 0 0
11 1 11.8535 0 0 0 0 1 223.12 0 0
12 1 28.2231 0 0 0 0 1 0 0 0
13 1 27.6765 0 0 0 0 1 0 0 0
14 1 50.548 0 0 0 0 1 0 0 0

Source Lambda Like
mean_body_wt 0 0
Equil_catch 0 0
Catch 10 2.96505
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
Index_extra_CV 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
MeanBodyWt_extra_CV 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
effN_mult_Agecomp 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

```

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 10.7104 1 3 31 10.1121 0 -1 99 1 0
2 0.951334 1 0.2 1 0.8 0 -1 99 2 0
3 0.6 -1
4 0 -1
5 0.261235 1 -5 5 0 0 -1 99 3 0
6 0 -1

```

```

Recr_Devs
1982 0.325619 - - - - - - 4
1983 0.804456 - - - - - - 5
1984 -0.0671377 - - - - - - 6
1985 0.55384 - - - - - - 7
1986 0.626122 - - - - - - 8
1987 0.364245 - - - - - - 9
1988 -1.35316 - - - - - - 10
1989 -0.156547 - - - - - - 11
1990 0.310527 - - - - - - 12

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```

1991 0.012096 - - - - - 13
1992 0.254122 - - - - - 14
1993 0.0991567 - - - - - 15
1994 0.158374 - - - - - 16
1995 0.246814 - - - - - 17
1996 -0.184163 - - - - - 18
1997 -0.226493 - - - - - 19
1998 -0.145966 - - - - - 20
1999 -0.416833 - - - - - 21
2000 -0.156891 - - - - - 22
2001 -0.0633979 - - - - - 23
2002 -0.0230323 - - - - - 24
2003 -0.351293 - - - - - 25
2004 0.188345 - - - - - 26
2005 -0.452512 - - - - - 27
2006 -0.346291 - - - - - 28
init_F_parms
1 1.6927 1 0 2 1 1 -1 10 29 0
Q_parms
sel_parms
#_size_sel:_1
#_male
#_size_sel:_2
#_male
#_size_sel:_3
#_male
#_size_sel:_4
#_male
#_size_sel:_5
#_male
#_size_sel:_6
#_male
#_size_sel:_7
#_male
#_size_sel:_8
#_male
#_size_sel:_9
#_male
#_size_sel:_10
#_male
#_size_sel:_11
#_male
#_size_sel:_12
#_male
#_size_sel:_13
#_male
#_size_sel:_14
#_male
#_age_sel:_1
1 1.94887 2 0.5 9 4 4 -1 99 30 0
2 -3 -3
3 0.195781 3 0 9 2 2 -1 99 31 0
4 9 -3
5 -999 -2
6 -999 -2
#_male
#_age_sel:_2

```

```

7 3.48574 2 0.5 9 4 4 -1 99 32 0
8 -3 -3
9 1.27732 3 0 9 2 2 -1 99 33 0
10 9 -3
11 -999 -2
12 -999 -2
#_male
#_age_sel:_3
13 3.15264 2 0.5 9 4 4 -1 99 34 0
14 -3 -3
15 1.0745 3 0 9 2 2 -1 99 35 0
16 9 -3
17 -999 -2
18 -999 -2
#_male
#_age_sel:_4
19 1.04469 2 0.5 9 4 4 -1 99 36 0
20 -3 -3
21 6.14273e-008 3 0 9 2 2 -1 99 37 0 LO
22 9 -3
23 -999 -2
24 -999 -2
#_male
#_age_sel:_5
25 2.72982 2 0.5 9 4 4 -1 99 38 0
26 -3 -3
27 3.25786e-009 3 0 9 2 2 -1 99 39 0 LO
28 9 -3
29 -999 -2
30 -999 -2
#_male
#_age_sel:_6
31 2.5354 2 0.5 9 4 4 -1 99 40 0
32 -3 -3
33 7.49481e-010 3 0 9 2 2 -1 99 41 0 LO
34 9 -3
35 -999 -2
36 -999 -2
#_male
#_age_sel:_7
37 2.79823 2 0.5 9 4 4 -1 99 42 0
38 -3 -3
39 1.58835e-008 3 0 9 2 2 -1 99 43 0 LO
40 9 -3
41 -999 -2
42 -999 -2
#_male
#_age_sel:_8
43 1.67615 2 0.5 9 4 4 -1 99 44 0
44 -3 -3
45 0.021067 3 0 9 2 2 -1 99 45 0 LO
46 9 -3
47 -999 -2
48 -999 -2
#_male
#_age_sel:_9
49 2.5068 2 0.5 9 4 4 -1 99 46 0

```

```

50 -3 -3
51 7.19415e-010 3 0 9 2 2 -1 99 47 0 LO
52 9 -3
53 -999 -2
54 -999 -2
#_male
#_age_sel:_10
55 2.96626 2 0.5 9 4 4 -1 99 48 0
56 -3 -3
57 1.08417 3 0 9 2 2 -1 99 49 0
58 9 -3
59 -999 -2
60 -999 -2
#_male
#_age_sel:_11
61 0.999988 2 0.5 9 4 4 -1 99 50 0
62 -3 -3
63 0.0984456 3 0 9 2 2 -1 99 51 0
64 9 -3
65 -999 -2
66 -999 -2
#_male
#_age_sel:_12
67 0 -3
68 0 -3
#_male
#_age_sel:_13
69 0 -3
70 0 -3
#_male
#_age_sel:_14
71 0 -3
72 0 -3
#_male
sel_parm_env_linkages
sel_parm_blockparms
73 2.42671 2 0.5 9 4 4 -1 99 52 0
74 0.0967715 3 0 9 2 2 -1 99 53 0
SEL_parm_devs
1_YR1982 0
Forecast_Recr_Devs
2007 0 - - - - - 54

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 73 73 73 73 73 73 73 73 73 73
3 0 0 0 0 0 0 0 0 0 0 0 0 0 74 74 74 74 74 74 74 74 74 74

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	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	1.94887	-3	0.195781	9	-999	-999
1	1995	2.42671	-3	0.0967715	9	-999	-999
2	1982	3.48574	-3	1.27732	9	-999	-999
3	1982	3.15264	-3	1.0745	9	-999	-999
4	1982	1.04469	-3	6.14273e-008	9	-999	-999
5	1982	2.72982	-3	3.25786e-009	9	-999	-999
6	1982	2.5354	-3	7.49481e-010	9	-999	-999
7	1982	2.79823	-3	1.58835e-008	9	-999	-999
8	1982	1.67615	-3	0.021067	9	-999	-999
9	1982	2.5068	-3	7.19415e-010	9	-999	-999
10	1982	2.96626	-3	1.08417	9	-999	-999
11	1982	0.999988	-3	0.0984456	9	-999	-999
12	1982	0	0				
13	1982	0	0				
14	1982	0	0				

EXPLOITATION Hrate_is_Continuous_F Fleet_in_columns;_year_in_rows
yr seas 1
init_yr 1 1.6927
1982 1 1.18484
1983 1 1.71053
1984 1 1.78559
1985 1 1.71667

1986 1 2.25341
 1987 1 1.72794
 1988 1 2.13806
 1989 1 1.68657
 1990 1 1.78713
 1991 1 1.90442
 1992 1 2.11489
 1993 1 1.86887
 1994 1 1.6676
 1995 1 2.12497
 1996 1 1.70532
 1997 1 1.01498
 1998 1 0.950804
 1999 1 0.781728
 2000 1 0.94831
 2001 1 0.86898
 2002 1 0.733562
 2003 1 0.695106
 2004 1 0.675384
 2005 1 0.605025
 2006 1 0.442444
 2007 1 0.0328236

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 SPB_vir_LH
 1 1980 VIRG 1 358829 358524 357261 44821.4 0 0 0 0 0 357284
 1 1981 INIT 1 26674.7 26278.1 25042.3 58202 23449 23449 23449 10000 1.6927
 25042.3
 1 1982 TIME 1 26580.2 26278.1 25042.3 44326.9 18908.3 18908.3 18908.3 18963
 1.18484 25006.3
 1 1983 TIME 1 28649.5 28156.3 26977.7 72362.1 26121.7 26121.7 26121.7 26466
 1.71053 27165.1
 1 1984 TIME 1 28444.7 28238.8 26610.1 30206.8 24933.7 24933.7 24933.7 26057
 1.78559 26688.3
 1 1985 TIME 1 21556.7 21190.4 20339.8 53752.2 20000.1 20000.1 20000.1 20432
 1.71667 20479
 1 1986 TIME 1 21024.9 20634.5 19437.3 57288.3 20918 20918 20918 20866 2.25341
 19585.7
 1 1987 TIME 1 21131 20830.2 19549.4 44138.1 18364 18364 18364 18312 1.72794
 19663.7
 1 1988 TIME 1 21358.9 21304.6 20217.4 7974.63 20975.3 20975.3 20975.3 21761
 2.13806 20238.1
 1 1989 TIME 1 9772.24 9624.45 9342.89 21685.5 9244.97 9244.97 9244.97 10314
 1.68657 9399.05
 1 1990 TIME 1 8369.74 8149.75 7680.44 32280.6 7391.75 7391.75 7391.75 7976
 1.78713 7764.04
 1 1991 TIME 1 11684.4 11501.4 10774.7 26851 10640.9 10640.9 10640.9 11316
 1.90442 10844.2
 1 1992 TIME 1 12060.8 11825.1 11183 34582.9 11944.4 11944.4 11944.4 11805
 2.11489 11272.6
 1 1993 TIME 1 12542.2 12338.4 11571.5 29912.3 11341.2 11341.2 11341.2 10781
 1.86887 11648.9
 1 1994 TIME 1 13227.5 13007.5 12295.2 32280 11561.9 11561.9 11561.9 12182
 1.6676 12378.8
 1 1995 TIME 1 14270.9 14025.7 13263.7 35983.4 9681.58 9681.58 9681.58 10495
 2.12497 13356.8

1 1996 TIME 1 19099.3 18928.4 17968 25083.5 12296.1 12296.1 12296.1 11643
 1.70532 18033
 1 1997 TIME 1 20593.3 20426.5 19654.4 24474 11242.1 11242.1 11242.1 10325
 1.01498 19717.8
 1 1998 TIME 1 22588.8 22404.7 21694.1 27010.3 12186.6 12186.6 12186.6 11641
 0.950804 21764
 1 1999 TIME 1 24050.3 23908.3 23143.9 20830.7 11199.3 11199.3 11199.3 10851
 0.781728 23197.9
 1 2000 TIME 1 25541.2 25355.2 24702.4 27301.4 14451.5 14451.5 14451.5 13756
 0.94831 24773.1
 1 2001 TIME 1 24643.4 24440.5 23695.4 29777.3 12337.4 12337.4 12337.4 11932
 0.86898 23772.5
 1 2002 TIME 1 26850 26635.9 25788.1 31420.5 11882 11882 11882 11308 0.733562
 25869.5
 1 2003 TIME 1 30852.1 30694.7 29788 23100.3 13460.1 13460.1 13460.1 12927
 0.695106 29847.9
 1 2004 TIME 1 32334.8 32063 31324.8 39889 14687.2 14687.2 14687.2 14306
 0.675384 31428.1
 1 2005 TIME 1 35545.6 35400.7 34355.7 21256.6 13651.5 13651.5 13651.5 13446
 0.605025 34410.7
 1 2006 TIME 1 37454.6 37292.4 36527.5 23806.8 12564 12564 12564 12574
 0.442444 36589.2
 1 2007 FORE 1 39972.6 39695.9 39115.4 40598.4 1187.77 1187.77 1187.77 1187.77
 0.0328236 39115.4

SPR_series uses_R0= 44821.4 ###note_Y/R_unit_is_Dead_Biomass
 Year Bio_all Bio_Smry SPBzero SPBfished SPBfished/R SPR Y/R GenTime Actual:
 Bio_all Bio_Smry Enc_Catch Dead_Catch Retain_Catch SPB Recruits Tot_Exploit
 More_F(by_morph): aveF-1 maxF-1
 1982 26950.5 26645 357261 25626.1 0.571739 0.0717295 0.438324 0.255201 +
 26580.2 26278.1 18908.3 18908.3 18908.3 25042.3 44326.9 0.71137 + 1.13793
 1.18482
 1983 20388.4 20082.9 357261 19133.4 0.42688 0.0535557 0.401905 0.152148 +
 28649.5 28156.3 26121.7 26121.7 26121.7 26977.7 72362.1 0.911771 + 1.64279
 1.71049
 1984 19774.5 19469 357261 18528.3 0.413381 0.0518622 0.397902 0.141317 +
 28444.7 28238.8 24933.7 24933.7 24933.7 26610.1 30206.8 0.876569 + 1.71489
 1.78555
 1985 20336.1 20030.6 357261 19081.8 0.42573 0.0534115 0.401569 0.151232 +
 21556.7 21190.4 20000.1 20000.1 20000.1 20339.8 53752.2 0.927791 + 1.64869
 1.71663
 1986 16867.6 16562.1 357261 15671.6 0.349646 0.0438661 0.377277 0.0891874 +
 21024.9 20634.5 20918 20918 20918 19437.3 57288.3 0.994919 + 2.16418
 2.25336
 1987 20241.2 19935.7 357261 18988.2 0.423642 0.0531495 0.400956 0.149564 +
 21131 20830.2 18364 18364 18364 19549.4 44138.1 0.869056 + 1.65952 1.7279
 1988 17468.1 17162.7 357261 16260.5 0.362785 0.0455145 0.381776 0.0999061 +
 21358.9 21304.6 20975.3 20975.3 20975.3 20217.4 7974.63 0.982037 + 2.0534
 2.13801
 1989 20595.9 20290.5 357261 19338.1 0.431447 0.0541287 0.403232 0.155777 +
 9772.24 9624.45 9244.97 9244.97 9244.97 9342.89 21685.5 0.946044 + 1.61979
 1.68653
 1990 19762.4 19457 357261 18516.5 0.413116 0.051829 0.397823 0.141103 +
 8369.74 8149.75 7391.75 7391.75 7391.75 7680.44 32280.6 0.883151 + 1.71637
 1.78709

1991 18902.2 18596.8 357261 17669.6 0.394223 0.0494586 0.392011 0.125725 +
 11684.4 11501.4 10640.9 10640.9 10640.9 10774.7 26851 0.910696 + 1.82901
 1.90438
 1992 17596.4 17290.9 357261 16386.4 0.365594 0.0458668 0.38272 0.102209 +
 12060.8 11825.1 11944.4 11944.4 11944.4 11183 34582.9 0.990345 + 2.03115
 2.11485
 1993 19151.5 18846.1 357261 17914.9 0.399696 0.0501452 0.39372 0.1302 +
 12542.2 12338.4 11341.2 11341.2 11341.2 11571.5 29912.3 0.904242 + 1.79487
 1.86883
 1994 20764.6 20459.1 357261 19504.4 0.435159 0.0545944 0.404301 0.158712 +
 13227.5 13007.5 11561.9 11561.9 11561.9 12295.2 32280 0.87408 + 1.60157
 1.66756
 1995 27642.3 27336.9 357261 26215.3 0.584883 0.0733785 0.468291 0.100934 +
 14270.9 14025.7 9681.58 9681.58 9681.58 13263.7 35983.4 0.678413 + 1.9752
 2.12496
 1996 30826.1 30520.7 357261 29378.6 0.655459 0.0822329 0.484012 0.152606 +
 19099.3 18928.4 12296.1 12296.1 12296.1 17968 25083.5 0.643796 + 1.58513
 1.70531
 1997 41880.4 41574.9 357261 40396.3 0.901272 0.113072 0.524221 0.301241 +
 20593.3 20426.5 11242.1 11242.1 11242.1 19654.4 24474 0.545911 + 0.943439
 1.01497
 1998 43747.9 43442.4 357261 42260.2 0.942857 0.118289 0.529331 0.320898 +
 22588.8 22404.7 12186.6 12186.6 12186.6 21694.1 27010.3 0.539495 + 0.883791
 0.9508
 1999 50165.6 49860.1 357261 48668.2 1.08583 0.136226 0.544062 0.379054 +
 24050.3 23908.3 11199.3 11199.3 11199.3 23143.9 20830.7 0.465661 + 0.726632
 0.781725
 2000 43825.7 43520.3 357261 42337.9 0.94459 0.118507 0.529535 0.321688 +
 25541.2 25355.2 14451.5 14451.5 14451.5 24702.4 27301.4 0.56581 + 0.881473
 0.948306
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 0.868976
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 30852.1 30694.7 13460.1 13460.1 13460.1 29788 23100.3 0.436277 + 0.646115
 0.695103
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 0.675381
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 35545.6 35400.7 13651.5 13651.5 13651.5 34355.7 21256.6 0.384055 + 0.562383
 0.605022
 2006 77364.3 77058.8 357261 75846.8 1.6922 0.212301 0.572455 0.529486 +
 37454.6 37292.4 12564 12564 12564 36527.5 23806.8 0.335445 + 0.41126
 0.442442
 2007 291073 290767 357261 289529 6.45963 0.810415 0.198007 0.792681 +
 39972.6 39695.9 1187.77 1187.77 1187.77 39115.4 40598.4 0.0297146 +
 0.0305102 0.0328234

SPAWN_RECRUIT Function: 3 - - - - -
 10.7104 Ln(R0) 44821.4
 0.951334 steep
 0.6 stddev_recr
 0 env_link_
 0.261235 init-eq 58202

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Virg 357261 44821.4 44821.4 37438 44821.4
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N_est r.m.s.e.
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INDEX_2

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9 1990 5196.26 0.12 0.169198 3.25614e-005 0.4 -0.343577 0.368891 -0.5474
9 1991 7563.63 0.09 0.246283 3.25614e-005 0.4 -1.00667 3.16683 2.25054
9 1992 9159.11 0.52 0.298234 3.25614e-005 0.4 0.555951 0.96588 0.0495893
9 1993 8262.75 0.29 0.269047 3.25614e-005 0.4 0.0749947 0.0175757 -0.898715
9 1994 9963.96 0.03 0.324441 3.25614e-005 0.4 -2.38091 17.7147 16.7984
9 1995 10526.7 0.2 0.342764 3.25614e-005 0.4 -0.538724 0.906949 -0.0093417
9 1996 15458.2 1.04 0.503341 3.25614e-005 0.4 0.725709 1.64579 0.729499
9 1997 19231.9 0.99 0.626219 3.25614e-005 0.4 0.458005 0.655528 -0.260763
9 1998 20302.3 0.45 0.661071 3.25614e-005 0.4 -0.384614 0.462275 -0.454016
9 1999 20658.4 2.26 0.672669 3.25614e-005 0.4 1.21187 4.58944 3.67315
9 2000 22863.3 1.69 0.744462 3.25614e-005 0.4 0.819822 2.10034 1.18405
9 2001 20228.1 0.93 0.658656 3.25614e-005 0.4 0.344984 0.371918 -0.544373
9 2002 22506.4 1.78 0.732842 3.25614e-005 0.4 0.887439 2.46109 1.5448
9 2003 26379.8 2.57 0.858964 3.25614e-005 0.4 1.09593 3.75335 2.83706
9 2004 28696.1 2.08 0.934387 3.25614e-005 0.4 0.800233 2.00116 1.08487
9 2005 27872.2 2.07 0.907559 3.25614e-005 0.4 0.824545 2.12461 1.20832
9 2006 33523.9 1.57 1.09159 3.25614e-005 0.4 0.363442 0.412783 -0.503508
10 1990 9442.94 0.29 0.308491 3.26689e-005 0.4 -0.0618109 0.0119393 -0.904351
10 1991 12712.7 0.15 0.415311 3.26689e-005 0.4 -1.01839 3.24101 2.32472
10 1992 13880.9 0.34 0.453474 3.26689e-005 0.4 -0.287991 0.259185 -0.657106
10 1993 13778.5 0.26 0.45013 3.26689e-005 0.4 -0.548855 0.941379 0.0250885

10 1994 14937.3 0.17 0.487986 3.26689e-005 0.4 -1.05449 3.47483 2.55854
10 1995 16031.4 0.08 0.523729 3.26689e-005 0.4 -1.87895 11.0326 10.1164
10 1996 20928.3 0.96 0.683704 3.26689e-005 0.4 0.339408 0.359993 -0.556298
10 1997 23029.7 0.73 0.752356 3.26689e-005 0.4 -0.0301654 0.0028436 -0.913447
10 1998 24333.2 0.43 0.794939 3.26689e-005 0.4 -0.61448 1.17996 0.263665
10 1999 24739.2 0.9 0.808203 3.26689e-005 0.4 0.107581 0.0361679 -0.880123
10 2000 26338.6 2.61 0.860455 3.26689e-005 0.4 1.10964 3.84785 2.93156
10 2001 24880.8 0.98 0.812829 3.26689e-005 0.4 0.187031 0.109315 -0.806976
10 2002 27404.9 2.03 0.895289 3.26689e-005 0.4 0.818644 2.09431 1.17802
10 2003 31015.5 3.78 1.01324 3.26689e-005 0.4 1.31657 5.41672 4.50043
10 2004 32973.5 2.17 1.07721 3.26689e-005 0.4 0.700354 1.5328 0.616509
10 2005 33745.1 2.49 1.10242 3.26689e-005 0.4 0.814777 2.07457 1.15828
10 2006 36519.3 1.32 1.19305 3.26689e-005 0.4 0.101122 0.0319553 -0.884335
11 1988 53764.8 4.26 7.5117 0.000139714 0.4 -0.567193 1.00534 0.089045
11 1989 26240.6 1.69 3.66618 0.000139714 0.4 -0.77442 1.87415 0.957856
11 1990 33453.8 2.86 4.67396 0.000139714 0.4 -0.491185 0.753944 -0.162346
11 1991 41571 3.97 5.80805 0.000139714 0.4 -0.380478 0.452386 -0.463904
11 1992 43020.4 4.75 6.01055 0.000139714 0.4 -0.235372 0.173125 -0.743166
11 1993 44791.3 8.46 6.25797 0.000139714 0.4 0.301493 0.284057 -0.632234
11 1994 45132.4 2.83 6.30563 0.000139714 0.4 -0.801167 2.00584 1.08955
11 1995 48906.6 8.37 6.83294 0.000139714 0.4 0.202899 0.128651 -0.78764
11 1996 54952.9 9.69 7.67769 0.000139714 0.4 0.232776 0.169327 -0.746964
11 1997 51471.2 16.35 7.19124 0.000139714 0.4 0.821364 2.10825 1.19196
11 1998 52264 9.47 7.30201 0.000139714 0.4 0.259979 0.211216 -0.705075
11 1999 51957.3 11.44 7.25917 0.000139714 0.4 0.454851 0.646529 -0.269761
11 2000 52685.8 7.35 7.36094 0.000139714 0.4 -0.00148766 6.91607e-006 -
0.916284
11 2001 54868.9 5.68 7.66596 0.000139714 0.4 -0.299838 0.280947 -0.635344
11 2002 60509.2 16.84 8.45399 0.000139714 0.4 0.689119 1.48401 0.567724
11 2003 62664.9 9.84 8.75516 0.000139714 0.4 0.116813 0.0426413 -0.873649
11 2004 65899.1 10.66 9.20702 0.000139714 0.4 0.146532 0.0670988 -0.849192
11 2005 68752.2 11.19 9.60565 0.000139714 0.4 0.152669 0.0728373 -0.843453
11 2006 64140.3 10.65 8.9613 0.000139714 0.4 0.172645 0.0931444 -0.823146
12 1982 44326.9 2.27 1.40218 3.16328e-005 0.4 0.48175 0.725259 -0.191031
12 1983 72362.1 5.01 2.28901 3.16328e-005 0.4 0.783316 1.91745 1.00116
12 1984 30206.8 1.58 0.955525 3.16328e-005 0.4 0.502919 0.7904 -0.125891
12 1985 53752.2 1.26 1.70033 3.16328e-005 0.4 -0.299712 0.28071 -0.635581
12 1986 57288.3 1.26 1.81219 3.16328e-005 0.4 -0.363423 0.412739 -0.503552
12 1987 44138.1 0.39 1.39621 3.16328e-005 0.4 -1.27537 5.08302 4.16673
12 1988 7974.63 0.54 0.252259 3.16328e-005 0.4 0.761111 1.81028 0.893992
12 1989 21685.5 1.24 0.685971 3.16328e-005 0.4 0.592031 1.09532 0.179026
12 1990 32280.6 2.54 1.02112 3.16328e-005 0.4 0.91126 2.59498 1.67869
12 1991 26851 2.64 0.849371 3.16328e-005 0.4 1.13404 4.01888 3.10259
12 1992 34582.9 0.89 1.09395 3.16328e-005 0.4 -0.206332 0.133041 -0.78325
12 1993 29912.3 0.5 0.946209 3.16328e-005 0.4 -0.637856 1.27144 0.355147
12 1994 32280 2.41 1.02111 3.16328e-005 0.4 0.858741 2.30449 1.3882
12 1995 35983.4 0.63 1.13825 3.16328e-005 0.4 -0.591531 1.09346 0.177174
12 1996 25083.5 0.81 0.793459 3.16328e-005 0.4 0.020632 0.00133025 -0.91496
12 1997 24474 0.89 0.774179 3.16328e-005 0.4 0.139419 0.0607425 -0.855548
12 1998 27010.3 0.73 0.85441 3.16328e-005 0.4 -0.157366 0.077388 -0.838903
12 1999 20830.7 0.53 0.658931 3.16328e-005 0.4 -0.217742 0.148162 -0.768129
12 2000 27301.4 0.57 0.863619 3.16328e-005 0.4 -0.415495 0.539488 -0.376803
12 2001 29777.3 0.47 0.941939 3.16328e-005 0.4 -0.695208 1.51036 0.594065
12 2002 31420.5 0.77 0.993919 3.16328e-005 0.4 -0.255265 0.203625 -0.712666
12 2003 23100.3 0.44 0.730726 3.16328e-005 0.4 -0.507264 0.804113 -0.112177
12 2004 39889 1.3 1.2618 3.16328e-005 0.4 0.0298247 0.00277972 -0.913511
12 2005 21256.6 0.35 0.672404 3.16328e-005 0.4 -0.652926 1.33223 0.415937

12 2006 23806.8 0.8 0.753074 3.16328e-005 0.4 0.0604476 0.0114185 -0.904872
13 1982 44326.9 3.408 11.875 0.000267896 0.4 -1.24831 4.8696 3.95331
13 1983 72362.1 17.699 19.3855 0.000267896 0.4 -0.0910161 0.0258873 -0.890403
13 1984 30206.8 13.31 8.09227 0.000267896 0.4 0.497606 0.773787 -0.142504
13 1985 53752.2 12.843 14.4 0.000267896 0.4 -0.114428 0.0409183 -0.875372
13 1986 57288.3 59.526 15.3473 0.000267896 0.4 1.35547 5.74159 4.8253
13 1987 44138.1 7.584 11.8244 0.000267896 0.4 -0.444124 0.616395 -0.299896
13 1988 7974.63 1.763 2.13637 0.000267896 0.4 -0.19209 0.115308 -0.800983
13 1989 21685.5 2.855 5.80944 0.000267896 0.4 -0.710412 1.57714 0.66085
13 1990 32280.6 4.733 8.64783 0.000267896 0.4 -0.602749 1.13533 0.219041
13 1991 26851 7.337 7.19326 0.000267896 0.4 0.0197849 0.00122326 -0.915067
13 1992 34582.9 8.487 9.26461 0.000267896 0.4 -0.0876667 0.024017 -0.892274
13 1993 29912.3 4.145 8.01338 0.000267896 0.4 -0.65921 1.35799 0.441702
13 1994 32280 22.311 8.64767 0.000267896 0.4 0.94779 2.80721 1.89092
13 1995 35983.4 13.067 9.63979 0.000267896 0.4 0.304191 0.289162 -0.627128
13 1996 25083.5 6.493 6.71975 0.000267896 0.4 -0.0343262 0.00368215 -0.912609
13 1997 24474 7.997 6.55646 0.000267896 0.4 0.198615 0.123275 -0.793016
13 1998 27010.3 14.983 7.23593 0.000267896 0.4 0.727857 1.65555 0.739257
13 1999 20830.7 8.565 5.58044 0.000267896 0.4 0.428416 0.573564 -0.342727
13 2000 27301.4 9.874 7.31392 0.000267896 0.4 0.300125 0.281485 -0.634806
13 2001 29777.3 13.543 7.97721 0.000267896 0.4 0.529281 0.875431 -0.0408593
13 2002 31420.5 5.406 8.41742 0.000267896 0.4 -0.442794 0.612709 -0.303582
13 2003 23100.3 8.18 6.18846 0.000267896 0.4 0.279005 0.243262 -0.673028
13 2004 39889 6.993 10.6861 0.000267896 0.4 -0.424034 0.56189 -0.354401
13 2005 21256.6 2.198 5.69454 0.000267896 0.4 -0.95196 2.83196 1.91567
13 2006 23806.8 9.658 6.37773 0.000267896 0.4 0.414974 0.538135 -0.378155
14 1986 57288.3 0.32 0.345075 6.02348e-006 0.4 -0.0754407 0.0177853 -0.898505
14 1987 44138.1 0.26 0.265865 6.02348e-006 0.4 -0.0223061 0.00155488 -
0.914736
14 1988 7974.63 0.01 0.048035 6.02348e-006 0.4 -1.56934 7.69638 6.78009
14 1989 21685.5 0.14 0.130622 6.02348e-006 0.4 0.0693359 0.0150233 -0.901267
14 1990 32280.6 0.36 0.194441 6.02348e-006 0.4 0.615973 1.1857 0.269406
14 1991 26851 0.38 0.161736 6.02348e-006 0.4 0.854203 2.2802 1.36391
14 1992 34582.9 0.37 0.20831 6.02348e-006 0.4 0.574478 1.03133 0.115037
14 1993 29912.3 0.05 0.180176 6.02348e-006 0.4 -1.28191 5.13531 4.21902
14 1994 32280 0.57 0.194438 6.02348e-006 0.4 1.07552 3.61485 2.69856
14 1995 35983.4 0.3 0.216745 6.02348e-006 0.4 0.325061 0.330201 -0.58609
14 1996 25083.5 0.08 0.15109 6.02348e-006 0.4 -0.635847 1.26344 0.347151
14 1997 24474 0.22 0.147418 6.02348e-006 0.4 0.400354 0.500884 -0.415407
14 1998 27010.3 0.39 0.162696 6.02348e-006 0.4 0.874265 2.38856 1.47227
14 1999 20830.7 0.35 0.125473 6.02348e-006 0.4 1.02584 3.2886 2.37231
14 2000 27301.4 0.21 0.164449 6.02348e-006 0.4 0.244505 0.186821 -0.72947
14 2001 29777.3 0.14 0.179363 6.02348e-006 0.4 -0.247769 0.191843 -0.724448
14 2002 31420.5 0.13 0.189261 6.02348e-006 0.4 -0.375592 0.440842 -0.475449
14 2003 23100.3 0.21 0.139144 6.02348e-006 0.4 0.411598 0.529415 -0.386875
14 2004 39889 0.27 0.240271 6.02348e-006 0.4 0.116656 0.0425268 -0.873764
14 2005 21256.6 0.01 0.128038 6.02348e-006 0.4 -2.54975 20.3163 19.4
14 2006 23806.8 0.17 0.1434 6.02348e-006 0.4 0.170163 0.0904858 -0.825805

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
2 0 1.0 0 0.00 0.0 0 0.000876068 0 0 15 15 0.438668 0.16 0.16 0 0
3 0 1.0 0 0.00 0.0 0 7.65724e-005 0 0 25 25 0.421036 0.21 0.21 0 0
4 0 1.0 0 0.00 0.0 0 3.7939e-005 0 0 25 25 0.464731 0.31 0.31 0 0

```

5 0 1.0 0 0.00 0.0 0 7.19837e-005 0 0 25 25 0.721046 0.21 0.21 0 0
6 0 1.0 0 0.00 0.0 0 4.74153e-005 0 0 25 25 0.896176 0.21 0.21 0 0
7 0 1.0 0 0.00 0.0 0 3.44968e-005 0 0 23 23 0.685782 0.4 0.4 0 0
8 0 1.0 0 0.00 0.0 0 4.2525e-005 0 0 23 23 0.612727 0.4 0.4 0 0
9 0 1.0 0 0.00 0.0 0 3.25614e-005 0 0 25 25 0.847081 0.4 0.4 0 0
10 0 1.0 0 0.00 0.0 0 3.26689e-005 0 0 17 17 0.819153 0.4 0.4 0 0
11 0 1.0 0 0.00 0.0 0 0.000139714 0 0 19 19 0.446808 0.4 0.4 0 0
12 0 1.0 0 0.00 0.0 0 3.16328e-005 0 0 25 25 0.601046 0.4 0.4 0 0
13 0 1.0 0 0.00 0.0 0 0.000267896 0 0 25 25 0.595197 0.4 0.4 0 0
14 0 1.0 0 0.00 0.0 0 6.02348e-006 0 0 21 21 0.877642 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

```

```

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 0.5898 0.1 -0.0858002 1.42938 1.42938
1983 1 1 0 0.521 0.610447 0.1 -0.0894474 1.45265 1.45265
1984 1 1 0 0.518 0.559585 0.1 -0.0415851 0.32946 0.32946
1985 1 1 0 0.575 0.617058 0.1 -0.0420578 0.273983 0.273983
1986 1 1 0 0.613 0.513437 0.1 0.0995635 1.30635 1.30635
1987 1 1 0 0.581 0.52464 0.1 0.0563597 0.478708 0.478708
1988 1 1 0 0.588 0.592399 0.1 -0.00439887 0.00289133 0.00289133
1989 1 1 0 0.668 0.687625 0.1 -0.0196249 0.0445296 0.0445296
1990 1 1 0 0.54 0.515437 0.1 0.0245625 0.106531 0.106531
1991 1 1 0 0.537 0.510453 0.1 0.0265472 0.125758 0.125758
1992 1 1 0 0.595 0.527739 0.1 0.0672609 0.646565 0.646565
1993 1 1 0 0.571 0.513394 0.1 0.0576057 0.517134 0.517134
1994 1 1 0 0.605 0.548861 0.1 0.0561388 0.438598 0.438598
1995 1 1 0 0.675 0.652766 0.1 0.0222343 0.0559584 0.0559584
1996 1 1 0 0.621 0.687349 0.1 -0.0663486 0.578836 0.578836
1997 1 1 0 0.697 0.784303 0.1 -0.0873029 0.790108 0.790108
1998 1 1 0 0.759 0.870746 0.1 -0.111746 1.08132 1.08132
1999 1 1 0 0.755 0.903129 0.1 -0.148129 1.8712 1.8712
2000 1 1 0 0.85 0.942084 0.1 -0.0920844 0.594819 0.594819
2001 1 1 0 0.903 0.942133 0.1 -0.0391327 0.0967294 0.0967294

```


2002 1 1 0 0.898 0.918153 0.1 -0.0201526 0.025999 0.025999
 2003 1 1 0 0.999 0.938836 0.1 0.0601637 0.186267 0.186267
 2004 1 1 0 0.983 0.989492 0.1 -0.00649183 0.00225323 0.00225323
 2005 1 1 0 0.949 1.005 0.1 -0.0560018 0.178885 0.178885
 2006 1 1 0 0.947 1.025 0.1 -0.0779964 0.346574 0.346574

FIT_LEN_COMPS

Index Year Seas Gender Mkt Nsamp effN Like

index N Npos mean_effN mean(inputN) HarMean(effN) Mean(effN/inputN)
 MeaneffN/MeaninputN
 1 0 0 0 0 0 0 -1.#IND
 2 0 0 0 0 0 0 -1.#IND
 3 0 0 0 0 0 0 -1.#IND
 4 0 0 0 0 0 0 -1.#IND
 5 0 0 0 0 0 0 -1.#IND
 6 0 0 0 0 0 0 -1.#IND
 7 0 0 0 0 0 0 -1.#IND
 8 0 0 0 0 0 0 -1.#IND
 9 0 0 0 0 0 0 -1.#IND
 10 0 0 0 0 0 0 -1.#IND
 11 0 0 0 0 0 0 -1.#IND
 12 0 0 0 0 0 0 -1.#IND
 13 0 0 0 0 0 0 -1.#IND
 14 0 0 0 0 0 0 -1.#IND

FIT_AGE_COMPS

Index Year Seas Gender Mkt Ageerr Lbin_lo Lbin_hi Nsamp effN Like

1 1982 1 0 0 1 1 70 82 64.8368 3.99756
 1 1983 1 0 0 1 1 70 69 16.1371 4.31202
 1 1984 1 0 0 1 1 70 53 12.7667 3.16884
 1 1985 1 0 0 1 1 70 65 96.5793 1.98832
 1 1986 1 0 0 1 1 70 78 8.64958 11.653
 1 1987 1 0 0 1 1 70 66 18.0473 6.24598
 1 1988 1 0 0 1 1 70 90 60.3402 2.99848
 1 1989 1 0 0 1 1 70 84 45.7634 3.85335
 1 1990 1 0 0 1 1 70 34 156.495 0.488038
 1 1991 1 0 0 1 1 70 46 15.2244 3.77918
 1 1992 1 0 0 1 1 70 34 81.0315 1.70277
 1 1993 1 0 0 1 1 70 36 32.5246 1.36151
 1 1994 1 0 0 1 1 70 40 84.5481 0.963621
 1 1995 1 0 0 1 1 70 30 42.3093 1.23864
 1 1996 1 0 0 1 1 70 46 81.5544 2.08066
 1 1997 1 0 0 1 1 70 89 18.3428 9.56086
 1 1998 1 0 0 1 1 70 101 30.818 5.22017
 1 1999 1 0 0 1 1 70 105 57.1213 3.74488
 1 2000 1 0 0 1 1 70 110 63.8735 3.59989
 1 2001 1 0 0 1 1 70 103 77.432 2.22418
 1 2002 1 0 0 1 1 70 74 17.6416 7.30429
 1 2003 1 0 0 1 1 70 87 21.5935 7.52746
 1 2004 1 0 0 1 1 70 140 26.2485 9.53913
 1 2005 1 0 0 1 1 70 172 31.5286 20.6796
 1 2006 1 0 0 1 1 70 181 17.0345 13.6695
 2 1992 1 0 0 1 1 70 100 39.9859 3.00673
 2 1993 1 0 0 1 1 70 100 14.4874 6.89405
 2 1994 1 0 0 1 1 70 100 10.6153 6.7324
 2 1995 1 0 0 1 1 70 100 46.3902 6.17776

2	1996	1	0	0	1	1	70	100	3.56098	19.5937
2	1997	1	0	0	1	1	70	100	20.1382	9.40423
2	1998	1	0	0	1	1	70	100	617.382	1.47669
2	1999	1	0	0	1	1	70	100	138.907	3.49433
2	2000	1	0	0	1	1	70	100	25.3774	12.6108
2	2001	1	0	0	1	1	70	100	47.746	4.52875
2	2002	1	0	0	1	1	70	100	30.1272	5.39143
2	2003	1	0	0	1	1	70	100	597.811	0.882789
2	2004	1	0	0	1	1	70	100	33.8562	6.68653
2	2005	1	0	0	1	1	70	100	113.17	4.71701
2	2006	1	0	0	1	1	70	100	475.268	2.86737
3	1982	1	0	0	1	1	70	100	9.97462	8.04422
3	1983	1	0	0	1	1	70	100	80.0969	5.52988
3	1984	1	0	0	1	1	70	100	6.29528	23.5355
3	1985	1	0	0	1	1	70	100	47.6616	1.70478
3	1986	1	0	0	1	1	70	100	20.3029	4.25291
3	1987	1	0	0	1	1	70	100	72.3373	1.25364
3	1988	1	0	0	1	1	70	100	238.773	1.3944
3	1989	1	0	0	1	1	70	100	37.548	4.06982
3	1990	1	0	0	1	1	70	100	4.62462	20.0482
3	1991	1	0	0	1	1	70	100	15.2528	6.5231
3	1992	1	0	0	1	1	70	100	12.6915	8.6553
3	1993	1	0	0	1	1	70	100	124.463	2.17176
3	1994	1	0	0	1	1	70	100	24.5796	2.77631
3	1995	1	0	0	1	1	70	100	6.44256	18.3226
3	1996	1	0	0	1	1	70	100	6.02898	10.0741
3	1997	1	0	0	1	1	70	100	114.056	1.4765
3	1998	1	0	0	1	1	70	100	590.544	2.37646
3	1999	1	0	0	1	1	70	100	41.2788	4.35892
3	2000	1	0	0	1	1	70	100	43.6019	6.21563
3	2001	1	0	0	1	1	70	100	37.777	3.95742
3	2002	1	0	0	1	1	70	100	22.9811	9.58721
3	2003	1	0	0	1	1	70	100	113.341	2.57241
3	2004	1	0	0	1	1	70	100	62.1463	3.99562
3	2005	1	0	0	1	1	70	100	43.765	5.15281
3	2006	1	0	0	1	1	70	100	21.9337	12.4156
4	1982	1	0	0	1	1	70	100	109.989	2.07031
4	1983	1	0	0	1	1	70	100	25.3133	5.68669
4	1984	1	0	0	1	1	70	100	115.311	1.59018
4	1985	1	0	0	1	1	70	100	86.9293	1.37598
4	1986	1	0	0	1	1	70	100	224.234	1.71442
4	1987	1	0	0	1	1	70	100	23.526	10.2368
4	1988	1	0	0	1	1	70	100	42.8965	2.00221
4	1989	1	0	0	1	1	70	100	2.88187	34.518
4	1990	1	0	0	1	1	70	100	18.0069	5.00209
4	1991	1	0	0	1	1	70	100	7.71461	14.1025
4	1992	1	0	0	1	1	70	100	20.7203	5.91734
4	1993	1	0	0	1	1	70	100	16.3291	8.89332
4	1994	1	0	0	1	1	70	100	7.35514	17.1563
4	1995	1	0	0	1	1	70	100	27.3324	5.22965
4	1996	1	0	0	1	1	70	100	33.0278	5.15221
4	1997	1	0	0	1	1	70	100	43.827	6.38592
4	1998	1	0	0	1	1	70	100	29.5251	6.45008
4	1999	1	0	0	1	1	70	100	31.6055	7.42814
4	2000	1	0	0	1	1	70	100	38.9092	5.55154
4	2001	1	0	0	1	1	70	100	21.4101	10.7867
4	2002	1	0	0	1	1	70	100	20.9918	13.4484

4	2003	1	0	0	1	1	70	100	63.5637	3.48525
4	2004	1	0	0	1	1	70	100	32.8679	6.32809
4	2005	1	0	0	1	1	70	100	112.819	2.28605
4	2006	1	0	0	1	1	70	100	147.02	1.44193
5	1982	1	0	0	1	1	70	100	12.0745	5.04861
5	1983	1	0	0	1	1	70	100	6.34502	7.05583
5	1984	1	0	0	1	1	70	100	5.40754	8.31088
5	1985	1	0	0	1	1	70	100	8.40679	8.4994
5	1986	1	0	0	1	1	70	100	83.5991	0.617745
5	1987	1	0	0	1	1	70	100	14.125	5.09878
5	1988	1	0	0	1	1	70	100	96.6583	0.557778
5	1989	1	0	0	1	1	70	100	3451.76	0.0142239
5	1990	1	0	0	1	1	70	100	2.11331	24.6237
5	1991	1	0	0	1	1	70	100	11.6444	3.52532
5	1992	1	0	0	1	1	70	100	12.6308	3.31662
5	1993	1	0	0	1	1	70	100	103.466	0.517966
5	1994	1	0	0	1	1	70	100	14.9946	4.41364
5	1995	1	0	0	1	1	70	100	6.55392	10.5662
5	1996	1	0	0	1	1	70	100	115.642	0.403225
5	1997	1	0	0	1	1	70	100	27.0035	2.07654
5	1998	1	0	0	1	1	70	100	36.1562	1.41032
5	1999	1	0	0	1	1	70	100	18.525	2.67598
5	2000	1	0	0	1	1	70	100	159.958	0.31413
5	2001	1	0	0	1	1	70	100	26.6128	1.88426
5	2002	1	0	0	1	1	70	100	5.42987	10.0385
5	2003	1	0	0	1	1	70	100	9.89586	5.23421
5	2004	1	0	0	1	1	70	100	261.671	0.191135
5	2005	1	0	0	1	1	70	100	9.22586	5.75194
5	2006	1	0	0	1	1	70	100	8.09588	6.43516
6	1982	1	0	0	1	1	70	100	6.76727	11.6955
6	1983	1	0	0	1	1	70	100	10450.8	0.0046515
6	1984	1	0	0	1	1	70	100	11.7387	3.79539
6	1985	1	0	0	1	1	70	100	11.0762	6.57648
6	1986	1	0	0	1	1	70	100	18676.7	0.00253149
6	1987	1	0	0	1	1	70	100	21.3414	3.35008
6	1988	1	0	0	1	1	70	100	10.6815	7.16627
6	1989	1	0	0	1	1	70	100	9.44955	7.0074
6	1990	1	0	0	1	1	70	100	1.01186	119.898
6	1991	1	0	0	1	1	70	100	23.1712	2.98093
6	1992	1	0	0	1	1	70	100	3.1402	36.9882
6	1993	1	0	0	1	1	70	100	37.0085	1.59595
6	1994	1	0	0	1	1	70	100	3.04049	38.2741
6	1995	1	0	0	1	1	70	100	2.53922	47.6866
6	1996	1	0	0	1	1	70	100	6633.81	0.00730474
6	1997	1	0	0	1	1	70	100	147.564	0.322861
6	1998	1	0	0	1	1	70	100	75.4289	0.679303
6	1999	1	0	0	1	1	70	100	33.1632	1.56514
6	2000	1	0	0	1	1	70	100	5.22135	10.7102
6	2001	1	0	0	1	1	70	100	5.34373	10.0966
6	2002	1	0	0	1	1	70	100	4.3416	13.6832
6	2003	1	0	0	1	1	70	100	5.00437	11.2428
6	2004	1	0	0	1	1	70	100	2.04533	29.7045
6	2005	1	0	0	1	1	70	100	21.9946	2.28833
6	2006	1	0	0	1	1	70	100	3.42019	17.0711
7	1984	1	0	0	1	1	70	100	8.25813	6.9848
7	1985	1	0	0	1	1	70	100	19.3368	8.20328
7	1986	1	0	0	1	1	70	100	14.7936	3.61345

7	1987	1	0	0	1	1	70	100	31.429	1.73716
7	1988	1	0	0	1	1	70	100	359.236	1.30475
7	1989	1	0	0	1	1	70	100	4.83027	24.6103
7	1990	1	0	0	1	1	70	100	32.3509	4.5862
7	1991	1	0	0	1	1	70	100	11.0733	5.12683
7	1992	1	0	0	1	1	70	100	335.963	0.42712
7	1993	1	0	0	1	1	70	100	23.0992	12.2452
7	1994	1	0	0	1	1	70	100	62.5431	3.25668
7	1995	1	0	0	1	1	70	100	17.3542	5.29334
7	1996	1	0	0	1	1	70	100	5.24766	10.4753
7	1997	1	0	0	1	1	70	100	18.6303	8.11398
7	1998	1	0	0	1	1	70	100	143.882	1.33458
7	1999	1	0	0	1	1	70	100	857.203	0.191224
7	2000	1	0	0	1	1	70	100	38.5714	5.03445
7	2001	1	0	0	1	1	70	100	75.1605	1.18904
7	2002	1	0	0	1	1	70	100	44.8808	1.99846
7	2003	1	0	0	1	1	70	100	26.9698	2.80052
7	2004	1	0	0	1	1	70	100	36.331	2.29212
7	2005	1	0	0	1	1	70	100	9.60705	11.9548
7	2006	1	0	0	1	1	70	100	8.57845	10.0183
8	1984	1	0	0	1	1	70	100	18.4102	4.54296
8	1985	1	0	0	1	1	70	100	26.9806	8.12946
8	1986	1	0	0	1	1	70	100	143.311	1.1527
8	1987	1	0	0	1	1	70	100	19.121	4.17489
8	1988	1	0	0	1	1	70	100	65.1255	1.2906
8	1989	1	0	0	1	1	70	100	29.2282	2.81552
8	1990	1	0	0	1	1	70	100	19.4224	7.3551
8	1991	1	0	0	1	1	70	100	171.332	3.27202
8	1992	1	0	0	1	1	70	100	76.8018	9.04476
8	1993	1	0	0	1	1	70	100	26.9083	3.74674
8	1994	1	0	0	1	1	70	100	9.94617	17.6834
8	1995	1	0	0	1	1	70	100	19.3099	6.25986
8	1996	1	0	0	1	1	70	100	16.93	4.19126
8	1997	1	0	0	1	1	70	100	37.3177	6.77101
8	1998	1	0	0	1	1	70	100	5.96955	16.5325
8	1999	1	0	0	1	1	70	100	14.5464	6.87929
8	2000	1	0	0	1	1	70	100	80.5006	3.64965
8	2001	1	0	0	1	1	70	100	11.7926	12.9252
8	2002	1	0	0	1	1	70	100	28.9198	5.37934
8	2003	1	0	0	1	1	70	100	231.586	1.10884
8	2004	1	0	0	1	1	70	100	52.3915	5.80277
8	2005	1	0	0	1	1	70	100	174.299	1.88069
8	2006	1	0	0	1	1	70	100	83.9928	4.4076
9	1982	1	0	0	1	1	70	100	208.647	0.251776
9	1983	1	0	0	1	1	70	100	985.747	0.0497684
9	1984	1	0	0	1	1	70	100	214.121	0.242147
9	1985	1	0	0	1	1	70	100	45.6547	1.26301
9	1986	1	0	0	1	1	70	100	292.347	0.175495
9	1987	1	0	0	1	1	70	100	202.589	0.26908
9	1988	1	0	0	1	1	70	100	3.24286	36.6722
9	1989	1	0	0	1	1	70	100	4.83745	26.0097
9	1990	1	0	0	1	1	70	100	1.08339	112.256
9	1991	1	0	0	1	1	70	100	41.7896	1.03417
9	1992	1	0	0	1	1	70	100	4.68037	7.78725
9	1993	1	0	0	1	1	70	100	5.16502	7.41111
9	1994	1	0	0	1	1	70	100	2.90925	39.3783
9	1995	1	0	0	1	1	70	100	2.45821	48.6746

9 1996 1 0 0 1 1 70 100 14.5063 5.37061
 9 1997 1 0 0 1 1 70 100 8.48157 8.34783
 9 1998 1 0 0 1 1 70 100 9.5999 5.71063
 9 1999 1 0 0 1 1 70 100 5.40759 10.5617
 9 2000 1 0 0 1 1 70 100 17.6222 2.98559
 9 2001 1 0 0 1 1 70 100 23.3255 2.20642
 9 2002 1 0 0 1 1 70 100 17.0242 3.14846
 9 2003 1 0 0 1 1 70 100 6.68663 8.27219
 9 2004 1 0 0 1 1 70 100 108.8 0.464876
 9 2005 1 0 0 1 1 70 100 9.79511 5.21194
 9 2006 1 0 0 1 1 70 100 21.1011 2.47604
 10 1990 1 0 0 1 1 70 100 26.9697 5.71399
 10 1991 1 0 0 1 1 70 100 9.41817 5.10869
 10 1992 1 0 0 1 1 70 100 34.2329 12.2575
 10 1993 1 0 0 1 1 70 100 26.6699 24.9727
 10 1994 1 0 0 1 1 70 100 10.8411 22.8785
 10 1995 1 0 0 1 1 70 100 5.76923 25.7497
 10 1996 1 0 0 1 1 70 100 34.3639 6.62327
 10 1997 1 0 0 1 1 70 100 89.5466 1.64161
 10 1998 1 0 0 1 1 70 100 20.8822 5.3163
 10 1999 1 0 0 1 1 70 100 203.839 1.35959
 10 2000 1 0 0 1 1 70 100 94.17 2.77456
 10 2001 1 0 0 1 1 70 100 15.2568 12.3834
 10 2002 1 0 0 1 1 70 100 18.1067 7.96666
 10 2003 1 0 0 1 1 70 100 17.3073 9.80374
 10 2004 1 0 0 1 1 70 100 67.0202 3.3487
 10 2005 1 0 0 1 1 70 100 55.1594 4.531
 10 2006 1 0 0 1 1 70 100 32.3053 3.9641
 11 1988 1 0 0 1 1 70 100 32.195 2.12063
 11 1989 1 0 0 1 1 70 100 3.58721 26.7625
 11 1990 1 0 0 1 1 70 100 98.4343 3.57212
 11 1991 1 0 0 1 1 70 100 36.9348 3.44843
 11 1992 1 0 0 1 1 70 100 15.6917 5.64784
 11 1993 1 0 0 1 1 70 100 19.5684 10.3134
 11 1994 1 0 0 1 1 70 100 4.88623 26.1767
 11 1995 1 0 0 1 1 70 100 4.88225 25.4773
 11 1996 1 0 0 1 1 70 100 1045.32 0.694766
 11 1997 1 0 0 1 1 70 100 31.8357 4.55512
 11 1998 1 0 0 1 1 70 100 8.37632 18.3787
 11 1999 1 0 0 1 1 70 100 35.9082 5.87997
 11 2000 1 0 0 1 1 70 100 13.9409 10.494
 11 2001 1 0 0 1 1 70 100 16.5398 7.84779
 11 2002 1 0 0 1 1 70 100 21.2814 6.68675
 11 2003 1 0 0 1 1 70 100 20.1215 9.14835
 11 2004 1 0 0 1 1 70 100 5.79483 24.2037
 11 2005 1 0 0 1 1 70 100 16.497 14.5249
 11 2006 1 0 0 1 1 70 100 8.65758 17.1867

index N Npos mean_effN mean(inputN) HarMean(effN) Mean(effN/inputN)
 MeaneffN/MeainputN
 1 0 25 47.1377 80.6 27.6866 0.8483 0.584835
 2 0 15 147.655 100 21.9047 1.47655 1.47655
 3 0 25 71.9399 100 18.6871 0.719399 0.719399
 4 0 25 52.1643 100 19.9406 0.521643 0.521643
 5 0 25 180.32 100 11.3793 1.8032 1.8032
 6 0 25 1448.23 100 5.74022 14.4823 14.4823
 7 0 23 95.0143 100 17.3944 0.950143 0.950143

DEADFISH equals_sel*(retain+(1-retain)*discmort)
 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
 1 1982 1 1982-1
 1
 1 2007 1 2007-1
 1

AGE_SELEX

fleet year gender label 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 1 1982 1 1982-1 0.0440365 0.477016 0.999411 0.999979 0.999969 0.999727
 0.999237 0.998501 0.997519 0.996292 0.994821 0.993107 0.991151 0.988955
 0.98652 0.983849
 1 1994 1 1994-1 0.0440365 0.477016 0.999411 0.999979 0.999969 0.999727
 0.999237 0.998501 0.997519 0.996292 0.994821 0.993107 0.991151 0.988955
 0.98652 0.983849
 1 1995 1 1995-1 0.00476902 0.157596 0.848032 0.999824 0.999996 0.999868
 0.999491 0.998866 0.997996 0.996881 0.99552 0.993917 0.992071 0.989984
 0.987658 0.985094
 1 2006 1 2006-1 0.00476902 0.157596 0.848032 0.999824 0.999996 0.999868
 0.999491 0.998866 0.997996 0.996881 0.99552 0.993917 0.992071 0.989984
 0.987658 0.985094
 1 2007 1 2007-1 0.00476902 0.157596 0.848032 0.999824 0.999996 0.999868
 0.999491 0.998866 0.997996 0.996881 0.99552 0.993917 0.992071 0.989984
 0.987658 0.985094
 2 1982 1 1982-2 0.0337993 0.178606 0.540432 0.936431 0.99992 0.999997 0.99987
 0.999495 0.998873 0.998005 0.996891 0.995534 0.993932 0.992088 0.990004
 0.987679
 2 2006 1 2006-2 0.0337993 0.178606 0.540432 0.936431 0.99992 0.999997 0.99987
 0.999495 0.998873 0.998005 0.996891 0.995534 0.993932 0.992088 0.990004
 0.987679
 3 1982 1 1982-3 0.0335775 0.205499 0.6353 0.992599 0.999977 0.999984 0.999778
 0.999324 0.998624 0.997678 0.996487 0.995052 0.993373 0.991453 0.989292
 0.986892
 3 2006 1 2006-3 0.0335775 0.205499 0.6353 0.992599 0.999977 0.999984 0.999778
 0.999324 0.998624 0.997678 0.996487 0.995052 0.993373 0.991453 0.989292
 0.986892
 4 1982 1 1982-4 0.335777 0.9986 0.999966 0.999983 0.999775 0.99932 0.998618
 0.99767 0.996477 0.995039 0.993359 0.991437 0.989274 0.986872 0.984233
 0.981359
 4 2006 1 2006-4 0.335777 0.9986 0.999966 0.999983 0.999775 0.99932 0.998618
 0.99767 0.996477 0.995039 0.993359 0.991437 0.989274 0.986872 0.984233
 0.981359
 5 1982 1 1982-5 0.000580775 0.0501765 0.587146 0.999014 0.999989 0.999931
 0.999625 0.999072 0.998273 0.997228 0.995938 0.994405 0.992629 0.990611
 0.988354 0.985858
 5 2006 1 2006-5 0.000580775 0.0501765 0.587146 0.999014 0.999989 0.999931
 0.999625 0.999072 0.998273 0.997228 0.995938 0.994405 0.992629 0.990611
 0.988354 0.985858
 6 1982 1 1982-6 0.00161586 0.0946661 0.751006 0.99966 0.999994 0.999893
 0.999541 0.998942 0.998098 0.997007 0.995673 0.994094 0.992273 0.990211
 0.98791 0.98537

6 2006 1 2006-6 0.00161586 0.0946661 0.751006 0.99966 0.999994 0.999893
0.999541 0.998942 0.998098 0.997007 0.995673 0.994094 0.992273 0.990211
0.98791 0.98537
7 1982 1 1982-7 0.000397994 0.039417 0.528854 0.998658 0.999986 0.999942
0.999652 0.999115 0.998332 0.997303 0.99603 0.994512 0.992752 0.99075
0.988508 0.986028
7 2006 1 2006-7 0.000397994 0.039417 0.528854 0.998658 0.999986 0.999942
0.999652 0.999115 0.998332 0.997303 0.99603 0.994512 0.992752 0.99075
0.988508 0.986028
8 1982 1 1982-8 0.063872 0.639238 0.999273 0.999991 0.99993 0.999623 0.999069
0.998269 0.997224 0.995933 0.994399 0.992622 0.990603 0.988345 0.985849
0.983116
8 2006 1 2006-8 0.063872 0.639238 0.999273 0.999991 0.99993 0.999623 0.999069
0.998269 0.997224 0.995933 0.994399 0.992622 0.990603 0.988345 0.985849
0.983116
9 1982 1 1982-9 0.0018665 0.103273 0.773762 0.999708 0.999994 0.999887
0.999528 0.998923 0.998071 0.996974 0.995633 0.994048 0.99222 0.990152
0.987844 0.985298
9 2006 1 2006-9 0.0018665 0.103273 0.773762 0.999708 0.999994 0.999887
0.999528 0.998923 0.998071 0.996974 0.995633 0.994048 0.99222 0.990152
0.987844 0.985298
10 1982 1 1982-10 0.0510192 0.270505 0.729261 0.999868 0.999988 0.999966
0.999716 0.999218 0.998474 0.997485 0.99625 0.994771 0.99305 0.991087
0.988883 0.986441
10 2006 1 2006-10 0.0510192 0.270505 0.729261 0.999868 0.999988 0.999966
0.999716 0.999218 0.998474 0.997485 0.99625 0.994771 0.99305 0.991087
0.988883 0.986441
11 1982 1 1982-11 0.404074 1 0.999973 0.99998 0.999761 0.999295 0.998582
0.997624 0.99642 0.994973 0.993282 0.991349 0.989176 0.986765 0.984116
0.981232
11 2006 1 2006-11 0.404074 1 0.999973 0.99998 0.999761 0.999295 0.998582
0.997624 0.99642 0.994973 0.993282 0.991349 0.989176 0.986765 0.984116
0.981232
12 1982 1 1982-12 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
12 2006 1 2006-12 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
13 1982 1 1982-13 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
13 2006 1 2006-13 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
14 1982 1 1982-14 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
14 2006 1 2006-14 1 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

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 0.000854034 0.0702472 0.684762 1.22432 1.6606 2.08789
2.48716 2.84561 3.15546 3.41444 3.62515 3.79322 3.9253 4.02784 4.10649
4.16593
1 2006 1 1 sel*ret*wt 0.000854034 0.0702472 0.684762 1.22432 1.6606 2.08789
2.48716 2.84561 3.15546 3.41444 3.62515 3.79322 3.9253 4.02784 4.10649
4.16593
1 2006 1 1 sel_nums 0.00476902 0.157596 0.848032 0.999824 0.999996 0.999868
0.999491 0.998866 0.997996 0.996881 0.99552 0.993917 0.992071 0.989984
0.987658 0.985094
1 2006 1 1 sel*ret_nums 0.00476902 0.157596 0.848032 0.999824 0.999996
0.999868 0.999491 0.998866 0.997996 0.996881 0.99552 0.993917 0.992071
0.989984 0.987658 0.985094
1 2006 1 1 dead_nums 0.00476902 0.157596 0.848032 0.999824 0.999996 0.999868
0.999491 0.998866 0.997996 0.996881 0.99552 0.993917 0.992071 0.989984
0.987658 0.985094
1 2006 1 1 dead*wt 0.000854034 0.0702472 0.684762 1.22432 1.6606 2.08789
2.48716 2.84561 3.15546 3.41444 3.62515 3.79322 3.9253 4.02784 4.10649
4.16593

```

ENVIRONMENTAL_DATA Begins_in_startyr-1

NUMBERS_AT_AGE

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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 44821.4 36696.6 30044.7 24598.5 20139.5 16488.9 13499.9 11052.8
9049.28 7408.93 6065.92 4966.35 4066.1 3329.04 2725.59 12285.6
1981 INIT 1 58202 44228.9 16150.2 2435.68 366.981 55.2936 8.3346 1.25734
0.189918 0.0287341 0.00435645 0.000662139 0.000100931 1.54362e-005 2.36956e-
006 4.32162e-007
1982 TIME 1 44326.9 44228.9 16150.2 2435.68 366.981 55.2936 8.3346 1.25734
0.189918 0.0287341 0.00435645 0.000662139 0.000100931 1.54362e-005 2.36956e-
006 4.32162e-007
1983 TIME 1 72362.1 34446.8 20577.4 4046.24 609.82 91.8821 13.848 2.08857
0.315353 0.0476884 0.00722566 0.00109741 0.000167135 2.55358e-005 3.91556e-
006 7.13091e-007
1984 TIME 1 30206.8 54946.3 12471.8 3048.57 598.876 90.2596 13.6051 2.05221
0.309907 0.0468716 0.00710292 0.00107893 0.000164346 2.51137e-005 3.85145e-
006 7.01526e-007
1985 TIME 1 53752.2 22861.1 19194.1 1714.17 418.583 82.2298 12.3986 1.87052
0.282523 0.042739 0.00647819 0.000984287 0.000149971 2.2924e-005 3.51677e-006
6.40821e-007
1986 TIME 1 57288.3 40804.4 8252.85 2826.23 252.157 61.5752 12.1014 1.82618
0.275856 0.0417355 0.00632689 0.000961428 0.000146509 2.23979e-005 3.43658e-
006 6.26327e-007
1987 TIME 1 44138.1 42472.8 11403 710.685 243.067 21.6869 5.29871 1.0425
0.157583 0.0238565 0.00361936 0.000550498 8.39769e-005 1.28535e-005 1.97476e-
006 3.6052e-007
1988 TIME 1 7974.63 33489.5 15250.5 1660.23 103.371 35.3554 3.1558 0.771702
0.152023 0.0230185 0.00349219 0.00053116 8.10282e-005 1.24025e-005 1.90553e-
006 3.47914e-007
1989 TIME 1 21685.5 5942.39 9888.21 1473.75 160.244 9.97754 3.41432 0.305079
0.07472 0.0147506 0.00223932 0.000340802 5.20261e-005 7.96981e-006 1.22563e-
006 2.24049e-007

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1990 TIME 1 32280.6 16483.7 2176.23 1500.45 223.416 24.2929 1.5132 0.518247
 0.0463644 0.0113744 0.00225009 0.000342439 5.22667e-005 8.00528e-006
 1.23087e-006 2.24968e-007
 1991 TIME 1 26851 24428.9 5753.92 298.648 205.702 30.6293 3.33189 0.207725
 0.071236 0.00638425 0.00156966 0.000311328 4.75262e-005 7.27934e-006
 1.11931e-006 2.04595e-007
 1992 TIME 1 34582.9 20215.3 8063.36 702.287 36.4118 25.08 3.73617 0.406804
 0.0253976 0.00872601 0.000783864 0.000193265 3.84577e-005 5.89272e-006
 9.0634e-007 1.65734e-007
 1993 TIME 1 29912.3 25796.2 6035.16 797.466 69.3727 3.59687 2.47876 0.369643
 0.0403104 0.00252189 0.000868713 7.82804e-005 1.93704e-005 3.87049e-006
 5.95821e-007 1.09054e-007
 1994 TIME 1 32280 22555.3 8660.28 763.252 100.747 8.76425 0.454619 0.313584
 0.0468275 0.00511602 0.000320802 0.000110811 1.00173e-005 2.48784e-006
 4.99151e-007 9.13882e-008
 1995 TIME 1 35983.4 24557.4 8335.31 1339.28 117.922 15.5656 1.35464
 0.0703254 0.0485682 0.00726458 0.000795298 4.9992e-005 1.73175e-005 1.57062e-
 006 3.91502e-007 9.33735e-008
 1996 TIME 1 25083.5 29163.7 14384.1 1125.76 131.013 11.5313 1.52253 0.13261
 0.00689349 0.0047696 0.000715104 7.85135e-005 4.95217e-006 1.7222e-006
 1.56889e-007 4.87256e-008
 1997 TIME 1 24474 20370.3 18250.1 2773.09 167.536 19.4916 1.71597 0.226712
 0.0197672 0.00102909 0.000713384 0.000107206 1.18027e-005 7.4679e-007
 2.60635e-007 3.12736e-008
 1998 TIME 1 27010.3 19940.8 14212.5 6318.24 822.972 49.7112 5.78428 0.50942
 0.0673469 0.00587722 0.000306318 0.000212638 3.20068e-005 3.53036e-006
 2.2385e-007 8.77307e-008
 1999 TIME 1 20830.7 22014.1 14054.3 5195.58 1999.31 260.375 15.7297 1.83093
 0.161345 0.021348 0.00186497 9.73271e-005 6.76651e-005 1.0203e-005 1.12763e-
 006 9.98107e-008
 2000 TIME 1 27301.4 16991.2 15934.5 5929.83 1946.86 749.072 97.5628 5.89569
 0.68659 0.0605449 0.00801784 0.000701187 3.66387e-005 2.55092e-005 3.85274e-
 006 4.64411e-007
 2001 TIME 1 29777.3 22251.6 11980.1 5837.42 1881.09 617.493 237.615 30.9592
 1.87196 0.218182 0.0192601 0.00255386 0.000223684 1.17085e-005 8.16804e-006
 1.38576e-006
 2002 TIME 1 31420.5 24278.8 15886.5 4694.19 2004.64 645.892 212.046 81.6231
 10.6406 0.643874 0.0751179 0.0066389 0.000881538 7.73348e-005 4.05535e-006
 3.31683e-006
 2003 TIME 1 23100.3 25635.1 17707.6 6982.34 1845.76 788.127 253.958 83.3971
 32.1169 4.18951 0.25372 0.0296299 0.00262176 0.000348599 3.06285e-005
 2.92722e-006
 2004 TIME 1 39889 18850.3 18810.5 8040.77 2853.08 754.116 322.03 103.795
 34.0999 13.1401 1.7154 0.103984 0.012157 0.00107708 0.00014342 1.38299e-005
 2005 TIME 1 21256.6 32553.4 13875.1 8685.64 3351 1188.89 314.269 134.237
 43.2846 14.2288 5.48706 0.716976 0.0435087 0.00509305 0.000451867 6.6085e-005
 2006 TIME 1 23806.8 17353.3 24228.5 6800.61 3883.56 1498.16 531.567 140.546
 60.0553 19.375 6.37337 2.45979 0.321725 0.0195453 0.00229082 0.000233346
 2007 FORE 1 40598.4 19450.3 13250.7 13630.7 3577.43 2042.78 788.086 279.67
 73.965 31.6174 10.2054 3.35907 1.29735 0.169824 0.0103266 0.00133514

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 3793.85 22504.5 12264.6 1850.09 278.751 41.9957 6.3289 0.954482
 0.144114 0.0217931 0.00330212 0.000501538 7.63888e-005 1.16721e-005 1.78994e-
 006 3.26086e-007

1982 1 2044.24 17469.7 10355 1562.16 235.368 35.4586 5.34338 0.805773
 0.121645 0.0183923 0.00278627 0.000423091 6.44236e-005 9.84092e-006 1.50862e-
 006 2.74737e-007
 1983 1 4764.73 17649 15692.8 3086.48 465.17 70.0807 10.5601 1.59221 0.240313
 0.0363227 0.00550027 0.000834782 0.000127035 1.93917e-005 2.97047e-006
 5.40376e-007
 1984 1 2073 28953.7 9673.46 2365.08 464.605 70.0165 10.5518 1.5912 0.240197
 0.0363111 0.00549945 0.000834807 0.000127063 1.93997e-005 2.9723e-006
 5.40819e-007
 1985 1 3551.6 11740.7 14659 1309.45 319.753 62.8089 9.46848 1.42804 0.215606
 0.0325999 0.00493841 0.000749815 0.000114155 1.74336e-005 2.67182e-006
 4.8632e-007
 1986 1 4913.17 24789.1 6927 2372.58 211.682 51.6877 10.1567 1.53239 0.23141
 0.0349983 0.00530326 0.000805466 0.00012267 1.87412e-005 2.87341e-006
 5.23262e-007
 1987 1 2934.81 21906.8 8731.54 544.311 186.163 16.6083 4.05706 0.79798
 0.120574 0.0182448 0.00276634 0.000420465 6.40901e-005 9.80086e-006 1.50427e-
 006 2.74326e-007
 1988 1 650.478 19731.8 12597.6 1371.67 85.4046 29.2081 2.6067 0.63728
 0.125504 0.0189957 0.00288053 0.000437888 6.67579e-005 1.0211e-005 1.5676e-
 006 2.85966e-007
 1989 1 1408.6 3016.32 7498.08 1117.78 121.538 7.56679 2.58884 0.231251
 0.0566152 0.0111709 0.00169485 0.000257757 3.93168e-005 6.0174e-006 9.24439e-
 007 1.68801e-007
 1990 1 2217.16 8690.84 1688.5 1164.44 173.383 18.8508 1.17399 0.401959
 0.0359473 0.0088146 0.00174271 0.000265045 4.04231e-005 6.18597e-006
 9.50224e-007 1.7349e-007
 1991 1 1960.43 13412.6 4571.27 237.314 163.456 24.3366 2.6469 0.164976
 0.0565558 0.00506635 0.00124497 0.000246774 3.76447e-005 5.76121e-006
 8.85075e-007 1.61621e-007
 1992 1 2791.67 11834.1 6637.8 578.231 29.9797 20.6481 3.07547 0.334786
 0.0208948 0.00717614 0.000644334 0.000158775 3.15746e-005 4.8346e-006
 7.43002e-007 1.35746e-007
 1993 1 2144.78 13996 4761.99 629.365 54.7492 2.83841 1.95572 0.291567
 0.0317844 0.00198759 0.000684291 6.16227e-005 1.52374e-005 3.04215e-006
 4.67876e-007 8.55495e-008
 1994 1 2074.03 11363.1 6536.59 576.22 76.0588 6.61593 0.343112 0.236598
 0.0353168 0.00385648 0.000241675 8.3419e-005 7.5349e-006 1.86961e-006
 3.74726e-007 6.85299e-008
 1995 1 328.891 6369.35 6489.33 1104.31 97.2387 12.8349 1.11686 0.0579697
 0.040024 0.00598446 0.000654871 4.11438e-005 1.4244e-005 1.29099e-006
 3.21558e-007 7.66277e-008
 1996 1 184.166 6257.1 10200.4 857.627 99.8148 8.78494 1.15974 0.100985
 0.00524771 0.00362924 0.000543831 5.96699e-005 3.76078e-006 1.30676e-006
 1.18929e-007 3.68971e-008
 1997 1 107.119 2736.38 9682.14 1629.06 98.4297 11.4507 1.00785 0.133107
 0.0115997 0.000603486 0.000418007 6.2757e-005 6.90152e-006 4.36132e-007
 1.52e-007 1.82101e-008
 1998 1 110.762 2521.3 7224.83 3568.22 464.822 28.0751 3.266 0.287526
 0.0379914 0.00331315 0.000172535 0.000119651 1.79895e-005 1.98167e-006
 1.2547e-007 4.90948e-008
 1999 1 70.2586 2317.44 6241.45 2586.79 995.539 129.64 7.8298 0.911002
 0.0802323 0.0106078 0.000925847 4.82647e-005 3.35132e-005 5.04618e-006
 5.56815e-007 4.91992e-008
 2000 1 111.663 2143.12 8086.1 3343.47 1097.83 422.367 54.9985 3.32226
 0.386691 0.0340757 0.00450879 0.000393917 2.05595e-005 1.42957e-005 2.15599e-
 006 2.59466e-007

2001 1 111.622 2587.03 5730.64 3115.59 1004.1 329.582 126.794 16.5136
 0.997944 0.116229 0.0102512 0.00135789 0.00011879 6.20952e-006 4.3253e-006
 7.32587e-007
 2002 1 99.4579 2407 6737.9 2238.11 955.891 307.96 101.077 38.8909 5.06686
 0.306365 0.0357085 0.0031524 0.00041805 3.66209e-005 1.91724e-006 1.56526e-
 006
 2003 1 69.294 2415.17 7217.93 3206.5 847.733 361.943 116.598 38.2726 14.7301
 1.91996 0.116162 0.0135502 0.00119741 0.000158975 1.39446e-005 1.33026e-006
 2004 1 116.266 1728.11 7504.41 3618.14 1283.97 339.344 144.871 46.6732
 15.3242 5.90033 0.769521 0.0465933 0.00544011 0.000481256 6.3975e-005
 6.15762e-006
 2005 1 55.5117 2687.56 5090.25 3608.89 1392.52 494.001 130.547 55.7361
 17.9605 5.89922 2.27263 0.296604 0.0179743 0.00210076 0.00018606 2.71587e-005
 2006 1 45.482 1060.55 6912.96 2219.64 1267.73 489 173.451 45.8373 19.5726
 6.30884 2.073 0.799039 0.104353 0.00632888 0.00074038 7.52585e-005

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
1 1 1 1 1 0 0 0.5 0.2 10 28.1 1 2.81 0.006815 0.17908 1 0.38 0.0025897 28.1
0.17908 0.17908 28.1 0.17908 0.17908 28.1 0.17908 0.17908 28.1 0.17908
0.17908 28.1 0.17908 0.17908 28.1 0.17908 0.17908 28.1 0.17908 28.1
0.17908 0.17908 28.1 0.17908 0.17908 28.1 0.17908 0.17908 28.1 0.17908
0.17908 28.1 0.17908 0.17908 28.1 0.17908 0.17908 28.1 0.17908 0.17908
1 1 1 1 1 1 1 1.5 0.2 32.7269 36.9026 3.27269 3.69026 0.298237 0.445742 1
0.91 0.271396 36.9026 0.445742 0.445742 36.9026 0.445742 0.445742 36.9026
0.445742 0.445742 36.9026 0.445742 0.445742 36.9026 0.445742 0.445742 36.9026
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0.445742 0.445742 36.9026 0.445742 0.445742 36.9026 0.445742 0.445742
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
0.604826 44.0721 0.807472 0.807472 44.0721 0.807472 0.807472 44.0721 0.807472

0.807472 44.0721 0.807472 0.807472 44.0721 0.807472 0.807472 44.0721 0.807472
0.807472 44.0721 0.807472 0.807472 44.0721 0.807472 0.807472 44.0721 0.807472
0.807472 44.0721 0.807472 0.807472 44.0721 0.807472 0.807472 44.0721 0.807472
0.807472 44.0721 0.807472 0.807472 44.0721 0.807472 0.807472
1 1 1 1 1 3 3 3.5 0.2 47.1415 49.9116 4.71415 4.99116 1.01154 1.22454 1 1
1.01154 49.9116 1.22454 1.22454 49.9116 1.22454 1.22454 49.9116 1.22454
1.22454 49.9116 1.22454 1.22454 49.9116 1.22454 1.22454 49.9116 1.22454
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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 10 10 10.5 0.2 68.7943 69.453 6.87943 6.9453 3.53886 3.64146 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 14 14 14.5 0.2 72.5765 72.8663 7.25765 7.28663 4.11573 4.15781 1 1
 4.11573 72.1499 4.15781 4.15781 72.1499 4.15781 4.15781 72.1499 4.15781
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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
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539

1 1995 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 1996 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 1997 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 1998 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 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
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 2001 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
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 1 2002 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
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 1 2003 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
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 1 2004 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
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 1 2005 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
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 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 1982 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 1983 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 1983 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 1984 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 1984 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 1985 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
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 1 1985 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 1986 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
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 1 1986 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 1987 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
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 1 1987 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 1988 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
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 1 1988 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 2003 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 2003 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 2004 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
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1 2004 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
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1 2005 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
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1 2005 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
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1 2006 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
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1 2006 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 2007 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 2007 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
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mean_size_Jan_1_for_gender: 1

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 1983 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
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1 1984 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
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1 1985 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
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1 1986 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 1987 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 1988 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 1989 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 1990 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 1991 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 1992 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 1993 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 1994 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 1995 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 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 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 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 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 2000 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 2001 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 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 2003 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 2004 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
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 1 2005 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 2006 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 2007 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

AGE_LENGTH_KEY

sdratio 1000
 sdwithin 1
 sdbetween 1e-006

SEASON: 1 MORPH: 1

Age: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 79 0 0 1.11022e-015 2.81379e-009 4.27853e-006 0.000237354 0.00251925
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 0.221178
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Composition_Database

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obs exp Pearson N effN Like Used
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