

**SS2 BASE RUN (F08 BASE T2.REP)**

Code\_version: \_\_2.00o;\_01/31/08;\_Stock\_Synthesis\_2\_by\_Richard\_Methot\_(NOAA);\_  
using\_Otter\_Research\_ADMB\_7.0.1

Time: Fri Mar 07 09:59:38 2008

Data\_File: F08\_BASE\_T2.DAT  
Control\_File: F08\_BASE\_T2.CTL

Convergence\_Level:  
Hessian:  
Sum\_of\_months\_on\_read\_was:\_ 12 rescaled\_to\_sum\_to: 1

LIKELIHOOD 1049.61  
indices 980.127  
discard 0  
length\_comps 0  
age\_comps 62.5156  
size-at-age 0  
mean\_body\_wt 0  
Equil\_catch 0  
catch 6.96389  
Recruitment 0  
Parm\_priors 0  
Parm\_devs 0  
penalties 0  
Forecast\_Recruitment 0

	Fleet	surv_lambda	surv_like	disc_lambda	disc_like	length_lambda	length_like	age_lambda	age_like	sizeage_lambda	sizeage_like
1	0	0	0	0	0	0	0	1	62.5156	0	0
2	1	45.0328	0	0	0	0	0	0	0	0	0
3	1	12.5742	0	0	0	0	0	0	0	0	0
4	1	28.7336	0	0	0	0	0	0	0	0	0
5	1	38.7276	0	0	0	0	0	0	0	0	0
6	1	20.2474	0	0	0	0	0	0	0	0	0
7	1	37.3957	0	0	0	0	0	0	0	0	0
8	1	20.22	0	0	0	0	0	0	0	0	0
9	1	45.0815	0	0	0	0	0	0	0	0	0
10	1	13.0915	0	0	0	0	0	0	0	0	0
11	1	6.40653	0	0	0	0	0	0	0	0	0
12	1	24.0979	0	0	0	0	0	0	0	0	0
13	1	9.3846	0	0	0	0	0	0	0	0	0
14	1	26.7067	0	0	0	0	0	0	0	0	0
15	1	16.351	0	0	0	0	0	0	0	0	0
16	1	60.9862	0	0	0	0	0	0	0	0	0
17	1	41.6652	0	0	0	0	0	0	0	0	0
18	1	137.576	0	0	0	0	0	0	0	0	0
19	1	44.8097	0	0	0	0	0	0	0	0	0
20	1	17.8631	0	0	0	0	0	0	0	0	0
21	1	17.8111	0	0	0	0	0	0	0	0	0
22	1	18.2993	0	0	0	0	0	0	0	0	0
23	1	14.9983	0	0	0	0	0	0	0	0	0
24	1	8.38893	0	0	0	0	0	0	0	0	0
25	1	6.84621	0	0	0	0	0	0	0	0	0

```

26 1 21.3152 0 0 0 0 0 0 0 0
27 1 17.3603 0 0 0 0 0 0 0 0
28 1 20.9734 0 0 0 0 0 0 0 0
29 1 19.1558 0 0 0 0 0 0 0 0
30 1 18.1813 0 0 0 0 0 0 0 0
31 1 11.2386 0 0 0 0 0 0 0 0
32 1 24.9327 0 0 0 0 0 0 0 0
33 1 14.454 0 0 0 0 0 0 0 0
34 1 12.8309 0 0 0 0 0 0 0 0
35 1 23.0387 0 0 0 0 0 0 0 0
36 1 10.8479 0 0 0 0 0 0 0 0
37 1 9.90421 0 0 0 0 0 0 0 0
38 1 12.9866 0 0 0 0 0 0 0 0
39 1 22.3021 0 0 0 0 0 0 0 0
40 1 27.3099 0 0 0 0 0 0 0 0

```

```

Source Lambda Like
mean_body_wt 0 0
Equil_catch 0 0
Catch 10 0.696389
Recruitment 0 0
Parm_priors 0 0
Parm_devs 1 0
penalties 0

```

```

Variance_adjustments_to_input_values 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
Index_extra_CV 0 0.14 0.14 0.14 0.14 0.14 0.14 0.19 0.19 0.19 0.19 0.19 0.2 0.2
0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
Discard_extra_CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MeanBodyWt_extra_CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
effN_mult_Lencomp 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
effN_mult_Agecomp 1.863 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
effN_mult_Len-at-age 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

```

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 10.7176 1 3 31 10.1121 0 -1 99 1 0
2 0.939164 1 0.2 1 0.8 0 -1 99 2 0
3 0.6 -1
4 0 -1
5 0.0676784 1 -5 5 0 0 -1 99 3 0
6 0 -1
Recr_Devs
1982 0.649771 - - - - - 4
1983 0.696608 - - - - - 5
1984 0.205706 - - - - - 6
1985 0.470484 - - - - - 7
1986 0.549011 - - - - - 8
1987 0.239684 - - - - - 9
1988 -1.08107 - - - - - 10
1989 -0.0240164 - - - - - 11
1990 0.306391 - - - - - 12
1991 -0.0233986 - - - - - 13
1992 0.1834 - - - - - 14
1993 0.212817 - - - - - 15
1994 0.129323 - - - - - 16
1995 0.130302 - - - - - 17
1996 -0.239727 - - - - - 18
1997 -0.17978 - - - - - 19
1998 -0.094609 - - - - - 20
1999 -0.334627 - - - - - 21
2000 -0.131961 - - - - - 22
2001 -0.177638 - - - - - 23
2002 -0.169975 - - - - - 24
2003 -0.467014 - - - - - 25
2004 -0.0922965 - - - - - 26
2005 -0.725908 - - - - - 27
2006 -0.0314726 - - - - - 28
init_F_parms
1 1.31198 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  
#\_size\_sel:\_15  
#\_male  
#\_size\_sel:\_16  
#\_male  
#\_size\_sel:\_17  
#\_male  
#\_size\_sel:\_18  
#\_male  
#\_size\_sel:\_19  
#\_male  
#\_size\_sel:\_20  
#\_male  
#\_size\_sel:\_21  
#\_male  
#\_size\_sel:\_22  
#\_male  
#\_size\_sel:\_23  
#\_male  
#\_size\_sel:\_24  
#\_male  
#\_size\_sel:\_25  
#\_male  
#\_size\_sel:\_26  
#\_male  
#\_size\_sel:\_27  
#\_male  
#\_size\_sel:\_28  
#\_male  
#\_size\_sel:\_29  
#\_male  
#\_size\_sel:\_30  
#\_male

```

#_size_sel:_31
#_male
#_size_sel:_32
#_male
#_size_sel:_33
#_male
#_size_sel:_34
#_male
#_size_sel:_35
#_male
#_size_sel:_36
#_male
#_size_sel:_37
#_male
#_size_sel:_38
#_male
#_size_sel:_39
#_male
#_size_sel:_40
#_male
#_age_sel:_1
1 1.82586 2 0.5 9 4 4 -1 99 30 0
2 -3 -3
3 0.0263013 3 0 9 2 2 -1 99 31 0 LO
4 9 -3
5 -999 -2
6 -999 -2
#_male
#_age_sel:_2
7 1 -3
8 1 -3
#_male
#_age_sel:_3
9 2 -3
10 2 -3
#_male
#_age_sel:_4
11 3 -3
12 3 -3
#_male
#_age_sel:_5
13 4 -3
14 4 -3
#_male
#_age_sel:_6
15 5 -3
16 15 -3
#_male
#_age_sel:_7
17 1 -3
18 1 -3
#_male
#_age_sel:_8
19 2 -3
20 2 -3
#_male
#_age_sel:_9

```

21 3 -3  
22 3 -3  
#\_male  
#\_age\_sel:\_10  
23 4 -3  
24 4 -3  
#\_male  
#\_age\_sel:\_11  
25 5 -3  
26 15 -3  
#\_male  
#\_age\_sel:\_12  
27 0 -3  
28 0 -3  
#\_male  
#\_age\_sel:\_13  
29 2 -3  
30 2 -3  
#\_male  
#\_age\_sel:\_14  
31 3 -3  
32 3 -3  
#\_male  
#\_age\_sel:\_15  
33 4 -3  
34 4 -3  
#\_male  
#\_age\_sel:\_16  
35 2 -3  
36 2 -3  
#\_male  
#\_age\_sel:\_17  
37 3 -3  
38 3 -3  
#\_male  
#\_age\_sel:\_18  
39 3 -3  
40 3 -3  
#\_male  
#\_age\_sel:\_19  
41 4 -3  
42 4 -3  
#\_male  
#\_age\_sel:\_20  
43 2 -3  
44 2 -3  
#\_male  
#\_age\_sel:\_21  
45 3 -3  
46 3 -3  
#\_male  
#\_age\_sel:\_22  
47 4 -3  
48 4 -3  
#\_male  
#\_age\_sel:\_23  
49 2 -3

50 2 -3  
#\_male  
#\_age\_sel:\_24  
51 3 -3  
52 3 -3  
#\_male  
#\_age\_sel:\_25  
53 4 -3  
54 4 -3  
#\_male  
#\_age\_sel:\_26  
55 5 -3  
56 15 -3  
#\_male  
#\_age\_sel:\_27  
57 3 -3  
58 3 -3  
#\_male  
#\_age\_sel:\_28  
59 4 -3  
60 4 -3  
#\_male  
#\_age\_sel:\_29  
61 1 -3  
62 1 -3  
#\_male  
#\_age\_sel:\_30  
63 2 -3  
64 15 -3  
#\_male  
#\_age\_sel:\_31  
65 1 -3  
66 1 -3  
#\_male  
#\_age\_sel:\_32  
67 2 -3  
68 2 -3  
#\_male  
#\_age\_sel:\_33  
69 3 -3  
70 3 -3  
#\_male  
#\_age\_sel:\_34  
71 4 -3  
72 15 -3  
#\_male  
#\_age\_sel:\_35  
73 0 -3  
74 0 -3  
#\_male  
#\_age\_sel:\_36  
75 0 -3  
76 0 -3  
#\_male  
#\_age\_sel:\_37  
77 0 -3  
78 0 -3

```

#_male
#_age_sel:_38
79 0 -3
80 0 -3
#_male
#_age_sel:_39
81 0 -3
82 0 -3
#_male
#_age_sel:_40
83 4 -3
84 15 -3
#_male
sel_parm_env_linkages
sel_parm_blockparms
85 2.81625 2 0.5 9 4 4 -1 99 32 0
86 -3 -3
87 0.538898 3 0 9 2 2 -1 99 33 0
88 9 -3
SEL_parm_devs
1_YR1982 0
Forecast_Recr_Devs
2007 0 - - - - - 34

```

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
2	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0

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
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
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
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
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
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
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
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
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
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
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
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
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
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
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



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	1.82586	-3	0.0263013	9	-999	-999
1	1995	2.81625	-3	0.538898	9	-999	-999
2	1982	1	1				
3	1982	2	2				
4	1982	3	3				
5	1982	4	4				
6	1982	5	15				
7	1982	1	1				
8	1982	2	2				
9	1982	3	3				
10	1982	4	4				
11	1982	5	15				
12	1982	0	0				
13	1982	2	2				
14	1982	3	3				
15	1982	4	4				
16	1982	2	2				
17	1982	3	3				
18	1982	3	3				
19	1982	4	4				
20	1982	2	2				
21	1982	3	3				
22	1982	4	4				
23	1982	2	2				
24	1982	3	3				
25	1982	4	4				
26	1982	5	15				
27	1982	3	3				
28	1982	4	4				
29	1982	1	1				
30	1982	2	15				
31	1982	1	1				
32	1982	2	2				
33	1982	3	3				
34	1982	4	15				
35	1982	0	0				
36	1982	0	0				
37	1982	0	0				
38	1982	0	0				
39	1982	0	0				

40 1982 4 15

```
EXPLOITATION   Hrate_is_Continuous_F   Fleet_in_columns;_year_in_rows
yr seas 1
init_yr 1 1.31198
1982 1 1.13836
1983 1 1.55817
1984 1 1.54648
1985 1 1.43054
1986 1 1.66612
1987 1 1.34542
1988 1 1.84378
1989 1 1.53288
1990 1 1.33127
1991 1 1.4755
1992 1 1.58689
1993 1 1.39564
1994 1 1.31609
1995 1 1.65754
1996 1 1.34458
1997 1 0.882212
1998 1 0.825846
1999 1 0.648569
2000 1 0.732475
2001 1 0.60453
2002 1 0.504336
2003 1 0.511568
2004 1 0.534382
2005 1 0.490766
2006 1 0.430377
2007 1 -0.0753161
```

```
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 361392 361084 359812 45141.5 0 0 0 0 0 359835
1 1981 INIT 1 26232 25902.8 24825.9 48302.3 20518.6 20518.6 20518.6 10000
1.31198 24825.9
1 1982 TIME 1 26306.7 25902.8 24825.9 59260.4 18893.4 18893.4 18893.4 18963
1.13836 24854.3
1 1983 TIME 1 30829.6 30394.5 28937.2 63849.3 26441 26441 26441 26466 1.55817
29102.6
1 1984 TIME 1 29872.1 29607.2 28076.1 38877.9 25307.8 25307.8 25307.8 26057
1.54648 28176.8
1 1985 TIME 1 24561.8 24228.7 23199.9 48873.9 20587.2 20587.2 20587.2 20432
1.43054 23326.4
1 1986 TIME 1 23610.6 23254 22093 52333.3 20866.3 20866.3 20866.3 20866
1.66612 22228.5
1 1987 TIME 1 23209 22948.2 21708 38266.1 18103.6 18103.6 18103.6 18312
1.34542 21807.1
1 1988 TIME 1 22768.5 22698.9 21697.8 10213.5 21465.3 21465.3 21465.3 21761
1.84378 21724.3
1 1989 TIME 1 11125.5 10961.7 10636.5 24033.7 9958.29 9958.29 9958.29 10314
1.53288 10698.7
1 1990 TIME 1 9914.97 9699.42 9166.09 31629 7541.43 7541.43 7541.43 7976
1.33127 9247.99
```

1 1991 TIME 1 13576.3 13402.5 12648.1 25499.1 11132.6 11132.6 11132.6 11316  
 1.4755 12714.1  
 1 1992 TIME 1 13699.6 13484.9 12839.5 31507 12014.5 12014.5 12014.5 11805  
 1.58689 12921.1  
 1 1993 TIME 1 13873.5 13651.9 12913 32505.9 11055 11055 11055 10781 1.39564  
 12997.1  
 1 1994 TIME 1 15741.9 15529.9 14733.8 31111.1 12255.9 12255.9 12255.9 12182  
 1.31609 14814.4  
 1 1995 TIME 1 16677.8 16461.9 15682.9 31691.4 9961.4 9961.4 9961.4 10495  
 1.65754 15764.9  
 1 1996 TIME 1 20798.4 20640.3 19763 23202.9 11615.2 11615.2 11615.2 11643  
 1.34458 19823.1  
 1 1997 TIME 1 22566.4 22395 21679.7 25149.1 10675.6 10675.6 10675.6 10325  
 0.882212 21744.8  
 1 1998 TIME 1 25380 25188.7 24474.2 28072.7 11880.4 11880.4 11880.4 11641  
 0.825846 24546.9  
 1 1999 TIME 1 27843.3 27690.2 26895.3 22476.6 10792.5 10792.5 10792.5 10851  
 0.648569 26953.5  
 1 2000 TIME 1 30862.4 30671.3 29970.9 28045.7 13926.2 13926.2 13926.2 13756  
 0.732475 30043.5  
 1 2001 TIME 1 31673 31489.7 30711.7 26900.5 12108.4 12108.4 12108.4 11932  
 0.60453 30781.3  
 1 2002 TIME 1 34515.3 34328 33529.4 27480.8 11553.9 11553.9 11553.9 11308  
 0.504336 33600.6  
 1 2003 TIME 1 38468.2 38326.8 37520.3 20750 13359.7 13359.7 13359.7 12927  
 0.511568 37574.1  
 1 2004 TIME 1 39429.8 39223.3 38559.6 30293.8 14728.8 14728.8 14728.8 14306  
 0.534382 38638  
 1 2005 TIME 1 40151.2 40041.4 39221.1 16112.3 13511.3 13511.3 13511.3 13446  
 0.490766 39262.9  
 1 2006 TIME 1 39624.5 39404.9 38820.4 32222.4 12585.5 12585.5 12585.5 12574  
 0.430377 38903.9  
 1 2007 FORE 1 42413.6 42140.1 41414.3 40143.5 -2798.3 -2798.3 -2798.3 -2798.3  
 -0.0753161 41414.3

SPR\_series uses\_R0= 45141.5 ###note\_Y/R\_unit\_is\_Dead\_Biomass  
 Year Bio\_all Bio\_Smry SPBzero SPBfished SPBfished/R SPR Y/R GenTime Actual:  
 Bio\_all Bio\_Smry Enc\_Catch Dead\_Catch Retain\_Catch SPB Recruits Tot\_Exploit  
 More\_F(by\_morph): aveF-1 maxF-1  
 1982 27478.1 27170.5 359812 26139.4 0.579056 0.0726475 0.439307 0.267242 +  
 26306.7 25902.8 18893.4 18893.4 18893.4 24825.9 59260.4 0.718197 + 1.09592  
 1.13834  
 1983 21500.3 21192.7 359812 20218.2 0.447886 0.0561911 0.407957 0.176843 +  
 30829.6 30394.5 26441 26441 26441 28937.2 63849.3 0.857647 + 1.50008  
 1.55815  
 1984 21620.7 21313.1 359812 20337.2 0.450521 0.0565217 0.408674 0.178888 +  
 29872.1 29607.2 25307.8 25307.8 25307.8 28076.1 38877.9 0.847203 + 1.48883  
 1.54646  
 1985 22927.2 22619.5 359812 21628.9 0.479136 0.0601117 0.416208 0.200496 +  
 24561.8 24228.7 20587.2 20587.2 20587.2 23199.9 48873.9 0.838182 + 1.37721  
 1.43052  
 1986 20471 20163.3 359812 19201.9 0.425372 0.0533666 0.401664 0.159029 +  
 23610.6 23254 20866.3 20866.3 20866.3 22093 52333.3 0.883768 + 1.60401  
 1.6661  
 1987 24037.5 23729.8 359812 22727.9 0.503482 0.0631662 0.422274 0.218003 +  
 23209 22948.2 18103.6 18103.6 18103.6 21708 38266.1 0.780027 + 1.29526  
 1.3454

1988 19047.5 18739.8 359812 17798.8 0.394289 0.0494668 0.392454 0.133534 +  
 22768.5 22698.9 21465.3 21465.3 21465.3 21697.8 10213.5 0.942762 + 1.77504  
 1.84375  
 1989 21763.3 21455.7 359812 20478.1 0.453642 0.0569133 0.409518 0.181297 +  
 11125.5 10961.7 9958.29 9958.29 9958.29 10636.5 24033.7 0.895087 + 1.47573  
 1.53286  
 1990 24236.6 23929 359812 22925.1 0.507851 0.0637142 0.42333 0.221058 +  
 9914.97 9699.42 7541.43 7541.43 7541.43 9166.09 31629 0.76061 + 1.28164  
 1.33125  
 1991 22395 22087.4 359812 21102.6 0.467476 0.0586489 0.413193 0.191823 +  
 13576.3 13402.5 11132.6 11132.6 11132.6 12648.1 25499.1 0.820001 + 1.42049  
 1.47547  
 1992 21212.2 20904.6 359812 19933.7 0.441582 0.0554003 0.406225 0.171918 +  
 13699.6 13484.9 12014.5 12014.5 12014.5 12839.5 31507 0.876998 + 1.52773  
 1.58687  
 1993 23365.1 23057.5 359812 22062.3 0.488736 0.0613161 0.418636 0.207496 +  
 13873.5 13651.9 11055 11055 11055 12913 32505.9 0.796848 + 1.34361 1.39562  
 1994 24455.2 24147.6 359812 23141.7 0.512649 0.0643161 0.42448 0.224383 +  
 15741.9 15529.9 12255.9 12255.9 12255.9 14733.8 31111.1 0.778554 + 1.26703  
 1.31607  
 1995 33624.2 33316.6 359812 32168.9 0.712624 0.0894047 0.493758 0.1597 +  
 16677.8 16461.9 9961.4 9961.4 9961.4 15682.9 31691.4 0.597284 + 1.52121  
 1.65753  
 1996 37919.1 37611.5 359812 36446.4 0.807381 0.101293 0.511005 0.217435 +  
 20798.4 20640.3 11615.2 11615.2 11615.2 19763 23202.9 0.558465 + 1.23399  
 1.34456  
 1997 49621.9 49314.3 359812 48122.1 1.06603 0.133742 0.54504 0.343034 +  
 22566.4 22395 10675.6 10675.6 10675.6 21679.7 25149.1 0.473074 + 0.809652  
 0.882203  
 1998 51922 51614.3 359812 50418.8 1.11691 0.140125 0.549958 0.36264 + 25380  
 25188.7 11880.4 11880.4 11880.4 24474.2 28072.7 0.468101 + 0.757922  
 0.825837  
 1999 61662.1 61354.5 359812 60148 1.33243 0.167165 0.565842 0.431911 +  
 27843.3 27690.2 10792.5 10792.5 10792.5 26895.3 22476.6 0.387617 + 0.595225  
 0.648562  
 2000 56486.7 56179 359812 54977.8 1.2179 0.152796 0.558328 0.397614 +  
 30862.4 30671.3 13926.2 13926.2 13926.2 29970.9 28045.7 0.451235 + 0.67223  
 0.732467  
 2001 64921.6 64614 359812 63404.8 1.40458 0.176216 0.569624 0.45108 + 31673  
 31489.7 12108.4 12108.4 12108.4 30711.7 26900.5 0.382294 + 0.554808  
 0.604523  
 2002 74285.1 73977.4 359812 72761.9 1.61186 0.202222 0.576993 0.497922 +  
 34515.3 34328 11553.9 11553.9 11553.9 33529.4 27480.8 0.334747 + 0.462856  
 0.504331  
 2003 73497.5 73189.9 359812 71974.8 1.59443 0.200035 0.576554 0.494384 +  
 38468.2 38326.8 13359.7 13359.7 13359.7 37520.3 20750 0.347291 + 0.469493  
 0.511563  
 2004 71140 70832.3 359812 69618.7 1.54223 0.193486 0.575052 0.483386 +  
 39429.8 39223.3 14728.8 14728.8 14728.8 38559.6 30293.8 0.373545 + 0.49043  
 0.534376  
 2005 75819 75511.4 359812 74295 1.64583 0.206483 0.57776 0.504629 + 40151.2  
 40041.4 13511.3 13511.3 13511.3 39221.1 16112.3 0.336511 + 0.450401  
 0.490761  
 2006 83672.4 83364.7 359812 82144.5 1.81971 0.228298 0.580004 0.535592 +  
 39624.5 39404.9 12585.5 12585.5 12585.5 38820.4 32222.4 0.317618 + 0.39498  
 0.430373

2007 361368 361061 359812 359812 7.97076 1 0 0.818731 + 42413.6 42140.1 -  
2798.3 -2798.3 -2798.3 41414.3 40143.5 -0.0659764 + 0 0

SPAWN\_RECRUIT Function: 3 - - - - -

10.7176 Ln(R0) 45141.5

0.939164 steep

0.6 stddev\_recr

0 env\_link\_

0.0676784 init-eq 48302.3

1982 2006 recdev:start\_end 1957 first\_year\_with\_full\_bias\_adjustment

year spawn\_bio exp\_recr with-env bias-adj pred\_recr dev

S/Rcurve 359812 45141.5

Virg 359812 45141.5 45141.5 37705.3 45141.5

Init 24825.9 48302.3 48302.3 40345.5 48302.3

1982 24825.9 37046.3 37046.3 30943.7 59260.4 0.649771

1983 28937.2 38088.7 38088.7 31814.4 63849.3 0.696608

1984 28076.1 37891.3 37891.3 31649.4 38877.9 0.205706

1985 23199.9 36552.9 36552.9 30531.5 48873.9 0.470484

1986 22093 36184.2 36184.2 30223.6 52333.3 0.549011

1987 21708 36049 36049 30110.7 38266.1 0.239684

1988 21697.8 36045.4 36045.4 30107.7 10213.5 -1.08107

1989 10636.5 29473 29473 24617.9 24033.7 -0.0240164

1990 9166.09 27873.7 27873.7 23282.1 31629 0.306391

1991 12648.1 31250.7 31250.7 26102.8 25499.1 -0.0233986

1992 12839.5 31400 31400 26227.5 31507 0.1834

1993 12913 31456.5 31456.5 26274.7 32505.9 0.212817

1994 14733.8 32728.3 32728.3 27337 31111.1 0.129323

1995 15682.9 33306.2 33306.2 27819.7 31691.4 0.130302

1996 19763 35304.3 35304.3 29488.6 23202.9 -0.239727

1997 21679.7 36039 36039 30102.3 25149.1 -0.17978

1998 24474.2 36944.1 36944.1 30858.3 28072.7 -0.094609

1999 26895.3 37603.7 37603.7 31409.2 22476.6 -0.334627

2000 29970.9 38313.2 38313.2 32001.9 28045.7 -0.131961

2001 30711.7 38466.3 38466.3 32129.8 26900.5 -0.177638

2002 33529.4 38996.1 38996.1 32572.3 27480.8 -0.169975

2003 37520.3 39628.9 39628.9 33100.9 20750 -0.467014

2004 38559.6 39775.1 39775.1 33222.9 30293.8 -0.0922965

2005 39221.1 39864.6 39864.6 33297.7 16112.3 -0.725908

2006 38820.4 39810.7 39810.7 33252.7 32222.4 -0.0314726

2007 41414.3 40143.5 40143.5 40143.5 40143.5 0 forecast

N\_est r.m.s.e.

25 0.397466

INDEX\_2

index year vuln\_bio obs exp eff\_Q SE Dev Like Like+log(s)

2 1982 37579.7 -0.001 6.32077 0.000168196 0.16

2 1983 46417.5 -0.001 7.80725 0.000168196 0.16

2 1984 49202.1 -0.001 8.27562 0.000168196 0.16

2 1985 29972.9 -0.001 5.04132 0.000168196 0.16

2 1986 37849.5 -0.001 6.36615 0.000168196 0.16

2 1987 40159 -0.001 6.7546 0.000168196 0.16

2 1988 29732.7 -0.001 5.00094 0.000168196 0.16

2 1989 7783.54 -0.001 1.30916 0.000168196 0.16

2 1990 18538.6 -0.001 3.11812 0.000168196 0.16

2 1991 24589.3 -0.001 4.13582 0.000168196 0.16

2 1992 19712.8 7.15 3.31563 0.000168196 0.3 0.768465 3.28077 2.0768

2 1993 24252.1 6.5 4.07911 0.000168196 0.3 0.465923 1.20602 0.00204876  
 2 1994 25207.8 3.76 4.23986 0.000168196 0.3 -0.120112 0.0801492 -1.12382  
 2 1995 24200.9 6.07 4.07049 0.000168196 0.3 0.399594 0.887087 -0.316886  
 2 1996 25529.3 22.17 4.29394 0.000168196 0.3 1.64154 14.9702 13.7662  
 2 1997 18748.7 3.86 3.15345 0.000168196 0.3 0.202169 0.227068 -0.976904  
 2 1998 20413.3 1.68 3.43345 0.000168196 0.3 -0.714771 2.83832 1.63435  
 2 1999 22799 2.11 3.8347 0.000168196 0.3 -0.597405 1.98273 0.778762  
 2 2000 18285.9 0.7 3.07562 0.000168196 0.3 -1.48018 12.1719 10.9679  
 2 2001 22797.9 3.07 3.83452 0.000168196 0.3 -0.222366 0.274704 -0.929269  
 2 2002 21894.4 2.77 3.68255 0.000168196 0.3 -0.284759 0.450487 -0.753486  
 2 2003 22388.6 8.17 3.76568 0.000168196 0.3 0.77454 3.33285 2.12887  
 2 2004 16903.8 1.45 2.84316 0.000168196 0.3 -0.673353 2.51892 1.31494  
 2 2005 24673.2 2.96 4.14993 0.000168196 0.3 -0.337903 0.634325 -0.569648  
 2 2006 13128.4 2.64 2.20815 0.000168196 0.3 0.178623 0.177257 -1.02672  
 3 1982 15661.9 -0.001 7.33616 0.000468409 0.16  
 3 1983 17125.8 -0.001 8.02186 0.000468409 0.16  
 3 1984 17042.9 -0.001 7.98305 0.000468409 0.16  
 3 1985 18174.3 -0.001 8.51302 0.000468409 0.16  
 3 1986 11752.2 -0.001 5.50482 0.000468409 0.16  
 3 1987 13146 -0.001 6.15768 0.000468409 0.16  
 3 1988 16451.2 -0.001 7.7059 0.000468409 0.16  
 3 1989 9424.47 -0.001 4.41451 0.000468409 0.16  
 3 1990 2895.29 -0.001 1.35618 0.000468409 0.16  
 3 1991 7649.87 -0.001 3.58327 0.000468409 0.16  
 3 1992 9420.76 4.74 4.41277 0.000468409 0.3 0.0715343 0.0284287 -1.17554  
 3 1993 7131.67 6.7 3.34054 0.000468409 0.3 0.695975 2.69101 1.48703  
 3 1994 9681.42 7.2 4.53486 0.000468409 0.3 0.462286 1.18727 -0.0167046  
 3 1995 10483.5 4.59 4.91056 0.000468409 0.3 -0.0675087 0.025319 -1.17865  
 3 1996 15556.2 8.33 7.28666 0.000468409 0.3 0.133818 0.099484 -1.10449  
 3 1997 17177.1 4.8 8.04592 0.000468409 0.3 -0.51655 1.48235 0.27838  
 3 1998 13495.5 3.25 6.32142 0.000468409 0.3 -0.665289 2.45894 1.25497  
 3 1999 14815.2 4.8 6.93956 0.000468409 0.3 -0.368622 0.754901 -0.449071  
 3 2000 16980.3 6.52 7.95372 0.000468409 0.3 -0.198766 0.219488 -0.984485  
 3 2001 13453.2 5.33 6.30162 0.000468409 0.3 -0.167456 0.155785 -1.04819  
 3 2002 17089 10.74 8.00462 0.000468409 0.3 0.293956 0.480056 -0.723917  
 3 2003 16653.5 14.36 7.80064 0.000468409 0.3 0.610241 2.06886 0.864884  
 3 2004 17011.4 8.68 7.96831 0.000468409 0.3 0.0855489 0.040659 -1.16331  
 3 2005 12801.3 4.03 5.99623 0.000468409 0.3 -0.397365 0.877214 -0.326759  
 3 2006 18804.3 9.06 8.8081 0.000468409 0.3 0.0281969 0.00441702 -1.19956  
 4 1982 3459.49 -0.001 1.31103 0.000378967 0.16  
 4 1983 4114.39 -0.001 1.55922 0.000378967 0.16  
 4 1984 2958.36 -0.001 1.12112 0.000378967 0.16  
 4 1985 2978.61 -0.001 1.1288 0.000378967 0.16  
 4 1986 3566.24 -0.001 1.35149 0.000378967 0.16  
 4 1987 1822.64 -0.001 0.690722 0.000378967 0.16  
 4 1988 2808.39 -0.001 1.06429 0.000378967 0.16  
 4 1989 2136.67 -0.001 0.809726 0.000378967 0.16  
 4 1990 1669.65 -0.001 0.632744 0.000378967 0.16  
 4 1991 627.328 -0.001 0.237737 0.000378967 0.16  
 4 1992 1435.19 0.33 0.543889 0.000378967 0.3 -0.499653 1.38696 0.18299  
 4 1993 1581.37 0.31 0.599286 0.000378967 0.3 -0.659166 2.41389 1.20991  
 4 1994 1449.03 0.82 0.549135 0.000378967 0.3 0.40096 0.893162 -0.310811  
 4 1995 2129.73 0.25 0.807097 0.000378967 0.3 -1.17198 7.6308 6.42683  
 4 1996 2789.92 0.6 1.05729 0.000378967 0.3 -0.566533 1.78311 0.579139  
 4 1997 5118.47 1.04 1.93973 0.000378967 0.3 -0.623329 2.15855 0.954581  
 4 1998 7732.66 2.29 2.93042 0.000378967 0.3 -0.246596 0.33783 -0.866143  
 4 1999 6311.96 2.9 2.39203 0.000378967 0.3 0.192569 0.206017 -0.997956

4	2000	7814.12	4.96	2.96129	0.000378967	0.3	0.515779	1.47793	0.273962
4	2001	8460.83	6.42	3.20638	0.000378967	0.3	0.694276	2.67789	1.47392
4	2002	7310.84	5.58	2.77057	0.000378967	0.3	0.700136	2.72328	1.51931
4	2003	9939.34	8.48	3.76668	0.000378967	0.3	0.811515	3.65865	2.45468
4	2004	9638.67	4.56	3.65274	0.000378967	0.3	0.221845	0.273417	-0.930556
4	2005	9694.74	3.07	3.67399	0.000378967	0.3	-0.1796	0.179201	-1.02477
4	2006	7514.34	4.29	2.84769	0.000378967	0.3	0.40978	0.932885	-0.271088
5	1982	762.742	-0.001	0.305663	0.000400743	0.16			
5	1983	907.354	-0.001	0.363616	0.000400743	0.16			
5	1984	709.173	-0.001	0.284196	0.000400743	0.16			
5	1985	515.91	-0.001	0.206748	0.000400743	0.16			
5	1986	583.297	-0.001	0.233752	0.000400743	0.16			
5	1987	551.79	-0.001	0.221126	0.000400743	0.16			
5	1988	388.637	-0.001	0.155743	0.000400743	0.16			
5	1989	363.804	-0.001	0.145792	0.000400743	0.16			
5	1990	377.718	-0.001	0.151368	0.000400743	0.16			
5	1991	361.088	-0.001	0.144704	0.000400743	0.16			
5	1992	117.448	0.04	0.0470665	0.000400743	0.3	-0.162682	0.14703	-1.05694
5	1993	240.372	0.05	0.0963272	0.000400743	0.3	-0.655728	2.38877	1.1848
5	1994	320.674	0.26	0.128508	0.000400743	0.3	0.704693	2.75884	1.55487
5	1995	318.168	0.02	0.127504	0.000400743	0.3	-1.85241	19.0635	17.8595
5	1996	332.817	0.12	0.133374	0.000400743	0.3	-0.105666	0.0620298	-1.14194
5	1997	596.044	0.43	0.238861	0.000400743	0.3	0.587905	1.92018	0.716208
5	1998	1735.65	0.42	0.69555	0.000400743	0.3	-0.504448	1.41371	0.209735
5	1999	2774.02	0.84	1.11167	0.000400743	0.3	-0.280217	0.43623	-0.767743
5	2000	2703.16	2.51	1.08327	0.000400743	0.3	0.840297	3.92277	2.7188
5	2001	3077.35	2.44	1.23323	0.000400743	0.3	0.682363	2.58677	1.3828
5	2002	3786.43	2.26	1.51739	0.000400743	0.3	0.398376	0.881686	-0.322287
5	2003	3616.27	2.67	1.4492	0.000400743	0.3	0.611069	2.07447	0.8705
5	2004	4881.05	1.64	1.95605	0.000400743	0.3	-0.17623	0.172538	-1.03143
5	2005	4626.72	1.34	1.85413	0.000400743	0.3	-0.324745	0.585883	-0.61809
5	2006	4860.92	2.47	1.94798	0.000400743	0.3	0.237425	0.313169	-0.890804
6	1982	215.778	-0.001	0.127912	0.000592793	0.16			
6	1983	256.683	-0.001	0.15216	0.000592793	0.16			
6	1984	200.678	-0.001	0.118961	0.000592793	0.16			
6	1985	158.701	-0.001	0.0940767	0.000592793	0.16			
6	1986	132.133	-0.001	0.0783278	0.000592793	0.16			
6	1987	110.717	-0.001	0.0656321	0.000592793	0.16			
6	1988	141.283	-0.001	0.0837517	0.000592793	0.16			
6	1989	68.6638	-0.001	0.0407034	0.000592793	0.16			
6	1990	76.4633	-0.001	0.0453269	0.000592793	0.16			
6	1991	98.2364	-0.001	0.0582338	0.000592793	0.16			
6	1992	86.0091	0.04	0.0509855	0.000592793	0.3	-0.242663	0.32714	-0.876833
6	1993	34.0871	0.04	0.0202066	0.000592793	0.3	0.682871	2.59062	1.38665
6	1994	55.6635	0.01	0.0329969	0.000592793	0.3	-1.19383	7.91793	6.71396
6	1995	82.6431	-0.001	0.0489902	0.000592793	0.16			
6	1996	62.5521	0.03	0.0370804	0.000592793	0.3	-0.211892	0.249434	-0.954539
6	1997	84.3759	0.15	0.0500174	0.000592793	0.3	1.09826	6.70102	5.49705
6	1998	230.562	0.12	0.136675	0.000592793	0.3	-0.130118	0.0940587	-1.10991
6	1999	704.886	0.41	0.417851	0.000592793	0.3	-0.0189682	0.00199884	-1.20197
6	2000	1489.09	1.08	0.882724	0.000592793	0.3	0.201704	0.226024	-0.977949
6	2001	1650.04	1.34	0.978134	0.000592793	0.3	0.314778	0.550474	-0.653499
6	2002	2114.66	1.33	1.25355	0.000592793	0.3	0.0591971	0.0194683	-1.1845
6	2003	2917.85	1.96	1.72968	0.000592793	0.3	0.125007	0.0868157	-1.11716
6	2004	3207.64	1.44	1.90146	0.000592793	0.3	-0.277981	0.429298	-0.774675
6	2005	3881.26	1.49	2.30078	0.000592793	0.3	-0.434473	1.0487	-0.155268
6	2006	4264.48	2.6	2.52795	0.000592793	0.3	0.0281023	0.00438745	-1.19959

7 1982 37579.7 0.7 0.602157 1.60235e-005 0.4 0.150562 0.0708404 -0.84545  
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40 1994 376.337 0.04 0.00742192 1.97215e-005 0.6 1.68444 3.94076 3.42993  
40 1995 400.811 0.03 0.00790458 1.97215e-005 0.6 1.33376 2.4707 1.95987  
40 1996 395.369 0.02 0.00779725 1.97215e-005 0.6 0.941961 1.23235 0.721522  
40 1997 680.42 0.04 0.0134189 1.97215e-005 0.6 1.09222 1.65686 1.14603  
40 1998 1966.21 -0.001 0.0387766 1.97215e-005 0.4  
40 1999 3478.91 0.03 0.0686091 1.97215e-005 0.6 -0.827228 0.950425 0.439599  
40 2000 4192.25 0.09 0.0826773 1.97215e-005 0.6 0.0848644 0.0100027 -0.500823  
40 2001 4727.4 0.01 0.0932312 1.97215e-005 0.6 -2.2325 6.92228 6.41146  
40 2002 5901.09 0.11 0.116378 1.97215e-005 0.6 -0.0563631 0.00441222 -  
0.506413  
40 2003 6534.13 0.05 0.128862 1.97215e-005 0.6 -0.946723 1.24484 0.734013  
40 2004 8088.69 0.1 0.159521 1.97215e-005 0.6 -0.467004 0.302906 -0.20792  
40 2005 8507.98 0.04 0.16779 1.97215e-005 0.6 -1.43383 2.85538 2.34456  
40 2006 9125.4 0.04 0.179966 1.97215e-005 0.6 -1.50389 3.14123 2.6304

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 0.000168196 0 0 25 15 0.735114 0.3 0.3 0 0  
3 0 1.0 0 0.00 0.0 0 0.000468409 0 0 25 15 0.388446 0.3 0.3 0 0  
4 0 1.0 0 0.00 0.0 0 0.000378967 0 0 25 15 0.587199 0.3 0.3 0 0  
5 0 1.0 0 0.00 0.0 0 0.000400743 0 0 25 15 0.681712 0.3 0.3 0 0  
6 0 1.0 0 0.00 0.0 0 0.000592793 0 0 25 14 0.510219 0.3 0.3 0 0  
7 0 1.0 0 0.00 0.0 0 1.60235e-005 0 0 25 25 0.691856 0.4 0.4 0 0  
8 0 1.0 0 0.00 0.0 0 4.33039e-005 0 0 25 25 0.50874 0.4 0.4 0 0  
9 0 1.0 0 0.00 0.0 0 3.5748e-005 0 0 25 24 0.775298 0.4 0.4 0 0  
10 0 1.0 0 0.00 0.0 0 4.23331e-005 0 0 25 20 0.457672 0.4 0.4 0 0  
11 0 1.0 0 0.00 0.0 0 7.61515e-005 0 0 25 15 0.369693 0.4 0.4 0 0

12	0	1.0	0	0.00	0.0	0	9.2937e-006	0	0	25	25	0.708116	0.51	0.51	0	0
13	0	1.0	0	0.00	0.0	0	7.67662e-005	0	0	25	25	0.441899	0.51	0.51	0	0
14	0	1.0	0	0.00	0.0	0	9.69511e-005	0	0	25	25	0.745462	0.51	0.51	0	0
15	0	1.0	0	0.00	0.0	0	0.000100846	0	0	25	23	0.608126	0.51	0.51	0	0
16	0	1.0	0	0.00	0.0	0	4.69679e-005	0	0	25	25	0.905617	0.41	0.41	0	0
17	0	1.0	0	0.00	0.0	0	4.75558e-005	0	0	25	25	0.748541	0.41	0.41	0	0
18	0	1.0	0	0.00	0.0	0	0.000136271	0	0	25	24	1.38824	0.41	0.41	0	0
19	0	1.0	0	0.00	0.0	0	0.000753321	0	0	25	24	0.792281	0.41	0.41	0	0
20	0	1.0	0	0.00	0.0	0	2.02756e-005	0	0	25	23	0.747792	0.6	0.6	0	0
21	0	1.0	0	0.00	0.0	0	2.09241e-005	0	0	25	23	0.746703	0.6	0.6	0	0
22	0	1.0	0	0.00	0.0	0	3.45572e-005	0	0	25	22	0.773877	0.6	0.6	0	0
23	0	1.0	0	0.00	0.0	0	5.14376e-005	0	0	25	22	0.70061	0.6	0.6	0	0
24	0	1.0	0	0.00	0.0	0	0.000127172	0	0	25	22	0.523972	0.6	0.6	0	0
25	0	1.0	0	0.00	0.0	0	0.000106478	0	0	25	22	0.473347	0.6	0.6	0	0
26	0	1.0	0	0.00	0.0	0	7.93041e-005	0	0	25	22	0.835217	0.6	0.6	0	0
27	0	1.0	0	0.00	0.0	0	0.000125252	0	0	25	25	0.70709	0.6	0.6	0	0
28	0	1.0	0	0.00	0.0	0	9.89305e-005	0	0	25	20	0.868932	0.6	0.6	0	0
29	0	1.0	0	0.00	0.0	0	1.19787e-005	0	0	25	17	0.900723	0.6	0.6	0	0
30	0	1.0	0	0.00	0.0	0	2.0766e-005	0	0	25	17	0.877515	0.6	0.6	0	0
31	0	1.0	0	0.00	0.0	0	0.000182296	0	0	25	19	0.652598	0.6	0.6	0	0
32	0	1.0	0	0.00	0.0	0	7.93802e-005	0	0	25	19	0.972017	0.6	0.6	0	0
33	0	1.0	0	0.00	0.0	0	4.87617e-005	0	0	25	16	0.806493	0.6	0.6	0	0
34	0	1.0	0	0.00	0.0	0	6.94122e-005	0	0	25	15	0.784781	0.6	0.6	0	0
35	0	1.0	0	0.00	0.0	0	2.06377e-006	0	0	25	19	0.93437	0.6	0.6	0	0
36	0	1.0	0	0.00	0.0	0	3.2025e-005	0	0	25	25	0.558944	0.6	0.6	0	0
37	0	1.0	0	0.00	0.0	0	4.47349e-005	0	0	25	19	0.612632	0.6	0.6	0	0
38	0	1.0	0	0.00	0.0	0	0.000271218	0	0	25	25	0.611568	0.6	0.6	0	0
39	0	1.0	0	0.00	0.0	0	6.20708e-006	0	0	25	21	0.87444	0.6	0.6	0	0
40	0	1.0	0	0.00	0.0	0	1.97215e-005	0	0	25	15	1.14493	0.6	0.6	0	0

rmse\_Qdev\_not\_in\_logL

pen\_mean\_Qdev\_not\_in\_logL\_in\_randwalk\_approach

### INDEX\_3

Index Q\_parm assignments

1	0	--	0	--	0	0
2	0	--	0	--	0	0
3	0	--	0	--	0	0
4	0	--	0	--	0	0
5	0	--	0	--	0	0
6	0	--	0	--	0	0
7	0	--	0	--	0	0
8	0	--	0	--	0	0
9	0	--	0	--	0	0
10	0	--	0	--	0	0
11	0	--	0	--	0	0
12	0	--	0	--	0	0
13	0	--	0	--	0	0
14	0	--	0	--	0	0
15	0	--	0	--	0	0
16	0	--	0	--	0	0
17	0	--	0	--	0	0
18	0	--	0	--	0	0
19	0	--	0	--	0	0
20	0	--	0	--	0	0
21	0	--	0	--	0	0
22	0	--	0	--	0	0
23	0	--	0	--	0	0



24 0 -- 0 -- 0 0  
 25 0 -- 0 -- 0 0  
 26 0 -- 0 -- 0 0  
 27 0 -- 0 -- 0 0  
 28 0 -- 0 -- 0 0  
 29 0 -- 0 -- 0 0  
 30 0 -- 0 -- 0 0  
 31 0 -- 0 -- 0 0  
 32 0 -- 0 -- 0 0  
 33 0 -- 0 -- 0 0  
 34 0 -- 0 -- 0 0  
 35 0 -- 0 -- 0 0  
 36 0 -- 0 -- 0 0  
 37 0 -- 0 -- 0 0  
 38 0 -- 0 -- 0 0  
 39 0 -- 0 -- 0 0  
 40 0 -- 0 -- 0 0

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 0.619221 0.1 -0.115221 2.48929 2.48929  
 1983 1 1 0 0.521 0.598493 0.1 -0.0774935 1.10287 1.10287  
 1984 1 1 0 0.518 0.590682 0.1 -0.0726816 0.985202 0.985202  
 1985 1 1 0 0.575 0.631041 0.1 -0.0560408 0.483167 0.483167  
 1986 1 1 0 0.613 0.581626 0.1 0.031374 0.134753 0.134753  
 1987 1 1 0 0.581 0.578985 0.1 0.00201513 0.00062152 0.00062152  
 1988 1 1 0 0.588 0.6381 0.1 -0.0500996 0.370614 0.370614  
 1989 1 1 0 0.668 0.704673 0.1 -0.0366728 0.154943 0.154943  
 1990 1 1 0 0.54 0.558556 0.1 -0.0185558 0.0608879 0.0608879  
 1991 1 1 0 0.537 0.560992 0.1 -0.0239924 0.102794 0.102794  
 1992 1 1 0 0.595 0.589711 0.1 0.00528873 0.00408152 0.00408152  
 1993 1 1 0 0.571 0.566771 0.1 0.00422915 0.00283404 0.00283404  
 1994 1 1 0 0.605 0.588205 0.1 0.0167955 0.0397673 0.0397673  
 1995 1 1 0 0.675 0.717821 0.1 -0.0428207 0.206544 0.206544  
 1996 1 1 0 0.621 0.758726 0.1 -0.137726 2.35329 2.35329  
 1997 1 1 0 0.697 0.853032 0.1 -0.156032 2.39441 2.39441  
 1998 1 1 0 0.759 0.937301 0.1 -0.178301 2.61728 2.61728  
 1999 1 1 0 0.755 0.969756 0.1 -0.214756 3.70105 3.70105  
 2000 1 1 0 0.85 1.01567 0.1 -0.165674 1.84814 1.84814  
 2001 1 1 0 0.903 1.04998 0.1 -0.146984 1.3118 1.3118  
 2002 1 1 0 0.898 1.06486 0.1 -0.166865 1.68856 1.68856  
 2003 1 1 0 0.999 1.1078 0.1 -0.108801 0.601036 0.601036  
 2004 1 1 0 0.983 1.1556 0.1 -0.172604 1.51632 1.51632  
 2005 1 1 0 0.949 1.18586 0.1 -0.23686 2.92448 2.92448  
 2006 1 1 0 0.947 1.19757 0.1 -0.250569 3.25105 3.25105

FIT\_LEN\_COMPS

Index Year Seas Gender Mkt Nsamp effN Like

index N Npos mean\_effN mean(inputN) HarMean(effN) Mean(effN/inputN)  
 MeaneffN/MeaninputN  
 1 0 0 0 0 0 0 -1.#IND

2 0 0 0 0 0 0 -1.#IND  
 3 0 0 0 0 0 0 -1.#IND  
 4 0 0 0 0 0 0 -1.#IND  
 5 0 0 0 0 0 0 -1.#IND  
 6 0 0 0 0 0 0 -1.#IND  
 7 0 0 0 0 0 0 -1.#IND  
 8 0 0 0 0 0 0 -1.#IND  
 9 0 0 0 0 0 0 -1.#IND  
 10 0 0 0 0 0 0 -1.#IND  
 11 0 0 0 0 0 0 -1.#IND  
 12 0 0 0 0 0 0 -1.#IND  
 13 0 0 0 0 0 0 -1.#IND  
 14 0 0 0 0 0 0 -1.#IND  
 15 0 0 0 0 0 0 -1.#IND  
 16 0 0 0 0 0 0 -1.#IND  
 17 0 0 0 0 0 0 -1.#IND  
 18 0 0 0 0 0 0 -1.#IND  
 19 0 0 0 0 0 0 -1.#IND  
 20 0 0 0 0 0 0 -1.#IND  
 21 0 0 0 0 0 0 -1.#IND  
 22 0 0 0 0 0 0 -1.#IND  
 23 0 0 0 0 0 0 -1.#IND  
 24 0 0 0 0 0 0 -1.#IND  
 25 0 0 0 0 0 0 -1.#IND  
 26 0 0 0 0 0 0 -1.#IND  
 27 0 0 0 0 0 0 -1.#IND  
 28 0 0 0 0 0 0 -1.#IND  
 29 0 0 0 0 0 0 -1.#IND  
 30 0 0 0 0 0 0 -1.#IND  
 31 0 0 0 0 0 0 -1.#IND  
 32 0 0 0 0 0 0 -1.#IND  
 33 0 0 0 0 0 0 -1.#IND  
 34 0 0 0 0 0 0 -1.#IND  
 35 0 0 0 0 0 0 -1.#IND  
 36 0 0 0 0 0 0 -1.#IND  
 37 0 0 0 0 0 0 -1.#IND  
 38 0 0 0 0 0 0 -1.#IND  
 39 0 0 0 0 0 0 -1.#IND  
 40 0 0 0 0 0 0 -1.#IND

FIT\_AGE\_COMPS

Index	Year	Seas	Gender	Mkt	Ageerr	Lbin_lo	Lbin_hi	Nsamp	effN	Like
1	1982	1	0	0	1	1	70	152.766	76.7753	6.94297
1	1983	1	0	0	1	1	70	128.547	136.919	1.64938
1	1984	1	0	0	1	1	70	98.739	58.403	2.3275
1	1985	1	0	0	1	1	70	121.095	41.1938	3.1194
1	1986	1	0	0	1	1	70	145.314	33.0397	5.67836
1	1987	1	0	0	1	1	70	122.958	62.0682	2.66351
1	1988	1	0	0	1	1	70	167.67	2680.39	0.633005
1	1989	1	0	0	1	1	70	156.492	372.092	1.40647
1	1990	1	0	0	1	1	70	63.342	573.118	0.217351
1	1991	1	0	0	1	1	70	85.698	59.5326	1.67836
1	1992	1	0	0	1	1	70	63.342	207.712	0.496468
1	1993	1	0	0	1	1	70	67.068	156.05	1.10289
1	1994	1	0	0	1	1	70	74.52	131.993	0.454891
1	1995	1	0	0	1	1	70	55.89	597.119	0.394825
1	1996	1	0	0	1	1	70	85.698	47.2827	2.11532

```

1 1997 1 0 0 1 1 70 165.807 897.926 3.1689
1 1998 1 0 0 1 1 70 188.163 330.883 2.32368
1 1999 1 0 0 1 1 70 195.615 300.509 1.48002
1 2000 1 0 0 1 1 70 204.93 185.764 4.53811
1 2001 1 0 0 1 1 70 191.889 148.25 5.11785
1 2002 1 0 0 1 1 70 137.862 100.321 4.25713
1 2003 1 0 0 1 1 70 162.081 1544.24 1.57472
1 2004 1 0 0 1 1 70 260.82 349.134 2.4554
1 2005 1 0 0 1 1 70 320.436 489.656 4.24492
1 2006 1 0 0 1 1 70 337.203 468.529 2.47418

```

```

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

```

```

1 0 25 401.956 150.158 119.859 2.99406 2.67689
2 0 0 0 0 0 0 -1.#IND
3 0 0 0 0 0 0 -1.#IND
4 0 0 0 0 0 0 -1.#IND
5 0 0 0 0 0 0 -1.#IND
6 0 0 0 0 0 0 -1.#IND
7 0 0 0 0 0 0 -1.#IND
8 0 0 0 0 0 0 -1.#IND
9 0 0 0 0 0 0 -1.#IND
10 0 0 0 0 0 0 -1.#IND
11 0 0 0 0 0 0 -1.#IND
12 0 0 0 0 0 0 -1.#IND
13 0 0 0 0 0 0 -1.#IND
14 0 0 0 0 0 0 -1.#IND
15 0 0 0 0 0 0 -1.#IND
16 0 0 0 0 0 0 -1.#IND
17 0 0 0 0 0 0 -1.#IND
18 0 0 0 0 0 0 -1.#IND
19 0 0 0 0 0 0 -1.#IND
20 0 0 0 0 0 0 -1.#IND
21 0 0 0 0 0 0 -1.#IND
22 0 0 0 0 0 0 -1.#IND
23 0 0 0 0 0 0 -1.#IND
24 0 0 0 0 0 0 -1.#IND
25 0 0 0 0 0 0 -1.#IND
26 0 0 0 0 0 0 -1.#IND
27 0 0 0 0 0 0 -1.#IND
28 0 0 0 0 0 0 -1.#IND
29 0 0 0 0 0 0 -1.#IND
30 0 0 0 0 0 0 -1.#IND
31 0 0 0 0 0 0 -1.#IND
32 0 0 0 0 0 0 -1.#IND
33 0 0 0 0 0 0 -1.#IND
34 0 0 0 0 0 0 -1.#IND
35 0 0 0 0 0 0 -1.#IND
36 0 0 0 0 0 0 -1.#IND
37 0 0 0 0 0 0 -1.#IND
38 0 0 0 0 0 0 -1.#IND
39 0 0 0 0 0 0 -1.#IND
40 0 0 0 0 0 0 -1.#IND

```

```

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

```













1 2007 1 2007-1 0.00978427 0.145956 0.677984 0.999163 0.999989 0.999945  
0.99966 0.999127 0.998348 0.997323 0.996054 0.99454 0.992784 0.990787  
0.988549 0.986073  
2 1982 1 1982-2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
2 2006 1 2006-2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
3 1982 1 1982-3 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
3 2006 1 2006-3 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
4 1982 1 1982-4 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
4 2006 1 2006-4 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
5 1982 1 1982-5 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
5 2006 1 2006-5 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
6 1982 1 1982-6 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
6 2006 1 2006-6 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
7 1982 1 1982-7 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
7 2006 1 2006-7 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
8 1982 1 1982-8 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
8 2006 1 2006-8 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
9 1982 1 1982-9 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
9 2006 1 2006-9 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
10 1982 1 1982-10 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
10 2006 1 2006-10 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
11 1982 1 1982-11 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
11 2006 1 2006-11 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
12 1982 1 1982-12 1 0 0 0 0 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 0 0 0 0  
13 1982 1 1982-13 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
13 2006 1 2006-13 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
14 1982 1 1982-14 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
14 2006 1 2006-14 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
15 1982 1 1982-15 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
15 2006 1 2006-15 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
16 1982 1 1982-16 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
16 2006 1 2006-16 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
17 1982 1 1982-17 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
17 2006 1 2006-17 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
18 1982 1 1982-18 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
18 2006 1 2006-18 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
19 1982 1 1982-19 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
19 2006 1 2006-19 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
20 1982 1 1982-20 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
20 2006 1 2006-20 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
21 1982 1 1982-21 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
21 2006 1 2006-21 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
22 1982 1 1982-22 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
22 2006 1 2006-22 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
23 1982 1 1982-23 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
23 2006 1 2006-23 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
24 1982 1 1982-24 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
24 2006 1 2006-24 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
25 1982 1 1982-25 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
25 2006 1 2006-25 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
26 1982 1 1982-26 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
26 2006 1 2006-26 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1  
27 1982 1 1982-27 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
27 2006 1 2006-27 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
28 1982 1 1982-28 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
28 2006 1 2006-28 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0

29	1982	1	1982-29	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	2006	1	2006-29	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	1982	1	1982-30	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30	2006	1	2006-30	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31	1982	1	1982-31	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	2006	1	2006-31	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	1982	1	1982-32	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	2006	1	2006-32	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	1982	1	1982-33	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	2006	1	2006-33	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	1982	1	1982-34	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34	2006	1	2006-34	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35	1982	1	1982-35	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	2006	1	2006-35	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	1982	1	1982-36	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	2006	1	2006-36	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	1982	1	1982-37	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	2006	1	2006-37	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	1982	1	1982-38	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	2006	1	2006-38	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	1982	1	1982-39	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	2006	1	2006-39	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	1982	1	1982-40	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40	2006	1	2006-40	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1

AGE\_SELECT from size\_select 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	1
2	2006	1	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	1
4	2006	1	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	1
6	2006	1	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	1
8	2006	1	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	1
10	2006	1	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	1
12	2006	1	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	1
14	2006	1	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	1
16	2006	1	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	1
18	2006	1	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	1
20	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

31 2006 1  
32 2006 1  
33 2006 1  
34 2006 1  
35 2006 1  
36 2006 1  
37 2006 1  
38 2006 1  
39 2006 1  
40 2006 1

AGE\_SELECT\_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 0.00175216 0.0650588 0.547453 1.22351 1.66059 2.08805  
2.48758 2.84635 3.15658 3.41595 3.62709 3.7956 3.92812 4.03111 4.1102 4.17007  
1 2006 1 1 sel\*ret\*wt 0.00175216 0.0650588 0.547453 1.22351 1.66059 2.08805  
2.48758 2.84635 3.15658 3.41595 3.62709 3.7956 3.92812 4.03111 4.1102 4.17007  
1 2006 1 1 sel\_nums 0.00978427 0.145956 0.677984 0.999163 0.999989 0.999945  
0.99966 0.999127 0.998348 0.997323 0.996054 0.99454 0.992784 0.990787  
0.988549 0.986073  
1 2006 1 1 sel\*ret\_nums 0.00978427 0.145956 0.677984 0.999163 0.999989  
0.999945 0.99966 0.999127 0.998348 0.997323 0.996054 0.99454 0.992784  
0.990787 0.988549 0.986073  
1 2006 1 1 dead\_nums 0.00978427 0.145956 0.677984 0.999163 0.999989 0.999945  
0.99966 0.999127 0.998348 0.997323 0.996054 0.99454 0.992784 0.990787  
0.988549 0.986073  
1 2006 1 1 dead\*wt 0.00175216 0.0650588 0.547453 1.22351 1.66059 2.08805  
2.48758 2.84635 3.15658 3.41595 3.62709 3.7956 3.92812 4.03111 4.1102 4.17007

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 45141.5 36958.7 30259.2 24774.2 20283.4 16606.6 13596.3 11131.7  
9113.9 7461.83 6109.23 5001.82 4095.14 3352.82 2745.06 12373.3  
1981 INIT 1 48302.3 37579.7 15661.9 3459.49 762.742 168.175 37.0935 8.18712  
1.80884 0.400171 0.088676 0.0196889 0.00438156 0.000977613 0.000218762  
6.33933e-005  
1982 TIME 1 59260.4 37579.7 15661.9 3459.49 762.742 168.175 37.0935 8.18712  
1.80884 0.400171 0.088676 0.0196889 0.00438156 0.000977613 0.000218762  
6.33933e-005  
1983 TIME 1 63849.3 46417.5 17125.8 4114.39 907.354 200.059 44.124 9.73797  
2.1512 0.475827 0.105418 0.0234 0.00520587 0.00116113 0.000259728 7.52244e-  
005  
1984 TIME 1 38877.9 49202.1 17042.9 2958.36 709.173 156.403 34.4992 7.61513  
1.68263 0.372293 0.0825094 0.0183225 0.00407817 0.000910089 0.000203694  
5.90414e-005  
1985 TIME 1 48873.9 29972.9 18174.3 2978.61 515.91 123.679 27.288 6.02398  
1.33127 0.294616 0.0653124 0.0145085 0.00323052 0.00072125 0.00016151  
4.68484e-005  
1986 TIME 1 52333.3 37849.5 11752.2 3566.24 583.297 101.034 24.2304 5.35004  
1.18235 0.261671 0.0580131 0.0128883 0.00287015 0.000640898 0.000143544  
4.16501e-005  
1987 TIME 1 38266.1 40159 13146 1822.64 551.79 90.2559 15.6405 3.7542  
0.829982 0.183733 0.040748 0.00905655 0.00201787 0.000450856 0.000101049  
2.93488e-005

1988 TIME 1 10213.5 29732.7 16451.2 2808.39 388.637 117.661 19.2528 3.33867  
 0.802208 0.177594 0.0393805 0.00875137 0.00194962 0.000435553 9.76077e-005  
 2.83472e-005  
 1989 TIME 1 24033.7 7783.54 9424.47 2136.67 363.804 50.3475 15.2505 2.49782  
 0.433764 0.104418 0.0231698 0.00515201 0.00114859 0.00025682 5.76104e-005  
 1.67546e-005  
 1990 TIME 1 31629 18538.6 2895.29 1669.65 377.718 64.3159 8.9045 2.69937  
 0.442637 0.0769862 0.0185683 0.00412968 0.000920726 0.000205893 4.61939e-005  
 1.34391e-005  
 1991 TIME 1 25499.1 24589.3 7649.87 627.328 361.088 81.6906 13.9149 1.92784  
 0.585015 0.0960587 0.0167351 0.00404439 0.000901583 0.000201543 4.52026e-005  
 1.31457e-005  
 1992 TIME 1 31507 19712.8 9420.76 1435.19 117.448 67.6059 15.3009 2.6083  
 0.361776 0.109947 0.0180866 0.00315798 0.000765157 0.00017107 3.83673e-005  
 1.11581e-005  
 1993 TIME 1 32505.9 24252.1 7131.67 1581.37 240.372 19.6717 11.3284 2.566  
 0.437951 0.060842 0.0185273 0.00305506 0.0005349 0.000130011 2.91701e-005  
 8.48611e-006  
 1994 TIME 1 31111.1 25207.8 9681.42 1449.03 320.674 48.7453 3.99076 2.29983  
 0.521495 0.0891314 0.0124042 0.00378519 0.000625678 0.000109852 2.67833e-005  
 7.79078e-006  
 1995 TIME 1 31691.4 24200.9 10483.5 2129.73 318.168 70.4141 10.7074 0.877211  
 0.506036 0.114898 0.0196703 0.00274289 0.000838922 0.000139033 2.44819e-005  
 7.73652e-006  
 1996 TIME 1 23202.9 25529.3 15556.2 2789.92 332.817 49.6527 10.9895 1.67189  
 0.137092 0.0791863 0.0180102 0.00308981 0.000431934 0.000132494 2.20308e-005  
 5.12927e-006  
 1997 TIME 1 25149.1 18748.7 17177.1 5118.47 596.044 71.0247 10.5968 2.34625  
 0.357204 0.0293207 0.0169594 0.00386386 0.000664229 9.30741e-005 2.86268e-005  
 5.88964e-006  
 1998 TIME 1 28072.7 20413.3 13495.5 7732.66 1735.65 201.969 24.0675 3.59174  
 0.795629 0.121213 0.00995866 0.00576666 0.00131557 0.000226508 3.17951e-005  
 1.18189e-005  
 1999 TIME 1 22476.6 22799 14815.2 6311.96 2774.02 622.224 72.4076 8.63047  
 1.28854 0.285617 0.0435503 0.00358176 0.00207665 0.000474442 8.18217e-005  
 1.57926e-005  
 2000 TIME 1 28045.7 18285.9 16980.3 7814.12 2703.16 1187.36 266.338 30.9992  
 3.69617 0.552122 0.122464 0.0186885 0.00153853 0.000893031 0.000204291  
 4.2104e-005  
 2001 TIME 1 26900.5 22797.9 13453.2 8460.83 3077.35 1063.91 467.34 104.851  
 12.2084 1.45649 0.21773 0.0483388 0.00738486 0.000608741 0.000353858 9.7823e-  
 005  
 2002 TIME 1 27480.8 21894.4 17089 7310.84 3786.43 1376.5 475.902 209.083  
 46.9245 5.46627 0.652542 0.0976227 0.0216933 0.00331767 0.00027381  
 0.000203505  
 2003 TIME 1 20750 22388.6 16653.5 9939.34 3616.27 1872.16 680.613 235.344  
 103.424 23.2205 2.70638 0.323283 0.0484013 0.0107651 0.00164802 0.000237495  
 2004 TIME 1 30293.8 16903.8 17011.4 9638.67 4881.05 1775.14 919.02 334.153  
 115.576 50.8111 11.414 1.33117 0.159135 0.0238468 0.00530926 0.000931136  
 2005 TIME 1 16112.3 24673.2 12801.3 9694.74 4626.72 2341.95 851.742 441.028  
 160.402 55.5025 24.4141 5.488 0.640566 0.0766484 0.0114982 0.00301313  
 2006 TIME 1 32222.4 13128.4 18804.3 7514.34 4860.92 2318.89 1173.8 426.958  
 221.134 80.4575 27.854 12.2599 2.75792 0.322185 0.0385896 0.0073158  
 2007 FORE 1 40143.5 26270.7 10094.2 11499.4 4002.01 2587.92 1234.58 625.011  
 227.394 117.814 42.8842 14.8544 6.54241 1.47286 0.17221 0.0245646

CATCH\_AT\_AGE

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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 2179.22 16909.4 10586.3 2340.03 515.916 113.737 25.08 5.53341 1.22191
0.270152 0.059819 0.0132699 0.0029501 0.000657477 0.000146939 4.25207e-005
1982 1 2327.32 15248.6 9819.77 2170.75 478.594 105.508 23.2647 5.13271
1.13337 0.250561 0.0554766 0.0123056 0.00273543 0.000609564 0.000136213
3.94117e-005
1983 1 3405.54 23511.1 12553.7 3017.85 665.523 146.721 32.3527 7.1377
1.57607 0.348422 0.0771406 0.01711 0.00380314 0.000847422 0.000189347
5.47732e-005
1984 1 2058.53 24796.9 12451.7 2162.75 518.443 114.325 25.2119 5.56324
1.2287 0.271706 0.0601765 0.0133527 0.00296938 0.000661988 0.000148 4.28457e-
005
1985 1 2398.96 14328.4 12814 2101.5 363.986 87.247 19.2451 4.24693 0.938101
0.207483 0.0459633 0.0102018 0.00226943 0.000506135 0.000113204 3.27938e-005
1986 1 2978.72 20031.5 8863.98 2691.37 440.198 76.2393 18.28 4.03493
0.891339 0.197164 0.0436844 0.00969799 0.00215789 0.0004814 0.000107709
3.12165e-005
1987 1 1769.32 18394.8 8998.06 1248.42 377.944 61.8117 10.7087 2.56943
0.567767 0.125608 0.0278364 0.00618146 0.00137591 0.000307078 6.87387e-005
1.99373e-005
1988 1 641.2 16773.1 12912 2205.36 305.184 92.3862 15.1141 2.62023 0.629344
0.13926 0.0308627 0.00685399 0.00152578 0.000340576 7.62517e-005 2.2122e-005
1989 1 1261.68 3899.66 6858.66 1555.94 264.921 36.6585 11.1015 1.81765
0.315505 0.0759075 0.0168321 0.00373984 0.000833017 0.000186071 4.16931e-005
1.21105e-005
1990 1 1447.44 8428.42 1971.37 1137.65 257.361 43.8163 6.06477 1.83781
0.301208 0.0523551 0.012618 0.00280385 0.000624502 0.000139494 3.12575e-005
9.0811e-006
1991 1 1289.87 12006.4 5471.92 449.016 258.449 58.4627 9.95597 1.37887
0.41823 0.0686329 0.0119487 0.00288533 0.000642609 0.000143501 3.21477e-005
9.33722e-006
1992 1 1710.56 10106.3 6960.85 1061.08 86.8322 49.9768 11.3085 1.92709
0.267173 0.081152 0.013341 0.00232762 0.000563477 0.000125857 2.81961e-005
8.19029e-006
1993 1 1557.64 11397.3 4969.48 1102.67 167.607 13.7149 7.89605 1.78789
0.304998 0.0423459 0.0128856 0.00212297 0.000371345 9.01601e-005 2.02044e-005
5.86999e-006
1994 1 1407.9 11367.8 6554.25 981.679 217.244 33.0186 2.70252 1.55683
0.352837 0.060267 0.00838087 0.00255518 0.000421937 7.39961e-005 1.80184e-005
5.23395e-006
1995 1 462.2 4732.41 6531.22 1603.29 239.604 53.0261 8.06238 0.660369
0.380824 0.0864313 0.014789 0.00206092 0.000629875 0.000104301 1.83486e-005
5.79223e-006
1996 1 274.911 4136.58 8559.77 1909.6 227.894 33.9986 7.52375 1.14433
0.0937963 0.0541506 0.0123083 0.00211 0.000294705 9.03088e-005 1.49995e-005
3.48785e-006
1997 1 195.933 2057.45 7077.81 2757.23 321.247 38.2788 5.71008 1.26385
0.192319 0.015776 0.00911759 0.00207524 0.000356348 4.98685e-005 1.53159e-005
3.14601e-006
1998 1 204.791 2105.18 5292.92 3991.25 896.349 104.301 12.4266 1.85385
0.410447 0.0624891 0.00512969 0.00296742 0.000676184 0.000116267 1.62962e-005
6.04761e-006
1999 1 128.878 1869.3 4812.26 2757.7 1212.69 272.003 31.6462 3.77056
0.562632 0.12462 0.0189844 0.00155964 0.000903102 0.000206027 3.54731e-005
6.83434e-006

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2000 1 181.542 1683.41 6073.47 3720.14 1287.65 565.585 126.842 14.7577  
 1.75868 0.262519 0.0581773 0.00886875 0.000729228 0.000422687 9.65432e-005  
 1.98628e-005  
 2001 1 143.8 1747.62 4128.04 3511.65 1278.03 441.83 194.04 43.517 5.06403  
 0.603692 0.0901605 0.0199943 0.0030506 0.00025109 0.000145713 4.02072e-005  
 2002 1 122.613 1409.99 4511.05 2644.85 1370.7 498.282 172.234 75.638 16.9651  
 1.9747 0.235499 0.0351899 0.007809 0.0011924 9.82361e-005 7.28701e-005  
 2003 1 93.9061 1461.75 4449.2 3635.7 1323.64 685.231 249.057 86.0839 37.8075  
 8.4817 0.987575 0.117829 0.017617 0.00391213 0.000597855 8.5989e-005  
 2004 1 143.196 1151.04 4714.29 3646.18 1847.6 671.915 347.785 126.402  
 43.6934 19.194 4.30745 0.501779 0.059904 0.00896291 0.00199204 0.000348692  
 2005 1 69.9594 1547.65 3302.09 3433.43 1639.63 829.92 301.765 156.187  
 56.7708 19.6281 8.62529 1.93655 0.225724 0.0269668 0.00403819 0.00105613  
 2006 1 122.729 725.209 4334.14 2397.34 1551.84 740.274 374.633 136.21  
 70.5031 25.6306 8.86404 3.89671 0.875332 0.102091 0.0122056 0.00230924

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 Len:\_20 SelWt:\_20 RetWt:\_20 Len:\_21  
SelWt:\_21 RetWt:\_21 Len:\_22 SelWt:\_22 RetWt:\_22 Len:\_23 SelWt:\_23 RetWt:\_23  
Len:\_24 SelWt:\_24 RetWt:\_24 Len:\_25 SelWt:\_25 RetWt:\_25 Len:\_26 SelWt:\_26  
RetWt:\_26 Len:\_27 SelWt:\_27 RetWt:\_27 Len:\_28 SelWt:\_28 RetWt:\_28 Len:\_29  
SelWt:\_29 RetWt:\_29 Len:\_30 SelWt:\_30 RetWt:\_30 Len:\_31 SelWt:\_31 RetWt:\_31  
Len:\_32 SelWt:\_32 RetWt:\_32 Len:\_33 SelWt:\_33 RetWt:\_33 Len:\_34 SelWt:\_34  
RetWt:\_34 Len:\_35 SelWt:\_35 RetWt:\_35 Len:\_36 SelWt:\_36 RetWt:\_36 Len:\_37  
SelWt:\_37 RetWt:\_37 Len:\_38 SelWt:\_38 RetWt:\_38 Len:\_39 SelWt:\_39 RetWt:\_39  
Len:\_40 SelWt:\_40 RetWt:\_40  
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  
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2.84884 64.2476 2.84884 2.84884 64.2476 2.84884 2.84884 64.2476 2.84884  
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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  
3.01152 66.3006 3.1618 3.1618 66.3006 3.1618 3.1618 66.3006 3.1618 3.1618  
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1 1 1 1 1 9 9 9.5 0.2 67.2557 68.0644 6.72557 6.80644 3.29959 3.42512 1 1  
3.29959 67.9344 3.42512 3.42512 67.9344 3.42512 3.42512 67.9344 3.42512  
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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  
3.53886 69.2242 3.64146 3.64146 69.2242 3.64146 3.64146 69.2242 3.64146  
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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  
3.73371 70.2376 3.81643 3.81643 70.2376 3.81643 3.81643 70.2376 3.81643  
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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 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  
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279  
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  
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279  
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  
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279  
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  
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279  
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 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 1989 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 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 1990 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 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 1991 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 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 1992 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 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 1993 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





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  
0.0109369 0.0284014 0.0540658 0.0846271 0.116561 0.147279 0.175291 0.199958  
0.221178  
78 0 0 5.88418e-015 6.3458e-009 5.58929e-006 0.000206594 0.00159578 0.0053641  
0.0113026 0.0181166 0.0246051 0.0301418 0.0345743 0.0379975 0.0405922  
0.0425435  
77 0 0 3.29736e-014 1.95158e-008 1.21737e-005 0.000363991 0.00244668  
0.00747509 0.0147151 0.0224413 0.0293659 0.034971 0.0392493 0.0424099  
0.0447063 0.0463642  
76 0 0 1.78635e-013 5.76668e-008 2.56452e-005 0.000622912 0.00365424  
0.0101681 0.0187285 0.0272059 0.03433 0.039769 0.0436949 0.046438 0.0483201  
0.0495994  
75 0 0 9.17599e-013 1.63721e-007 5.22525e-005 0.00103544 0.00531659 0.0135012  
0.0233023 0.032279 0.0393113 0.0443281 0.0477034 0.0498855 0.051253 0.0520849  
74 0 0 4.47686e-012 4.466e-007 0.000102973 0.0016718 0.00753503 0.0174988  
0.0283433 0.0374818 0.0440934 0.0484296 0.0510725 0.0525738 0.0533511  
0.0536898  
73 0 0 2.07532e-011 1.1705e-006 0.000196272 0.00262183 0.0104028 0.0221386  
0.0337022 0.0425954 0.0484442 0.0518609 0.0536221 0.0543575 0.0545008  
0.0543272  
72 0 0 9.13976e-011 2.94756e-006 0.000361832 0.00399378 0.0139905 0.02734  
0.0391763 0.0473749 0.0521341 0.0544334 0.0552105 0.0551374 0.0546381  
0.0539614  
71 0 0 3.82414e-010 7.13165e-006 0.000645164 0.00590911 0.0183286 0.0329573  
0.044519 0.0515675 0.0549557 0.0560001 0.0557469 0.0548687 0.053755 0.0526131  
70 0 0 1.52013e-009 1.65788e-005 0.00111262 0.00849217 0.0233906 0.0387803  
0.0494565 0.0549345 0.0567436 0.0564692 0.0551996 0.0535673 0.0519012  
0.0503557  
69 0 0 5.74086e-009 3.70301e-005 0.0018558 0.0118542 0.0290783 0.0445429  
0.0537104 0.0572739 0.0573899 0.0558121 0.0536011 0.0513062 0.0491779  
0.0473094  
68 0 0 2.05979e-008 7.94675e-005 0.00299384 0.0160725 0.0352137 0.0499403  
0.0570227 0.0584403 0.0568542 0.0540686 0.0510425 0.0482097 0.0457293  
0.0436303  
67 0 2.22045e-016 7.02135e-008 0.000163854 0.00467128 0.0211667 0.0415404  
0.054655 0.0591826 0.0583591 0.0551701 0.0513404 0.047666 0.0444419 0.0417303  
0.0394977  
66 0 1.33227e-015 2.27389e-007 0.000324608 0.00704939 0.0270758 0.0477359  
0.0583867 0.0600481 0.0570358 0.0524395 0.0477827 0.0436521 0.0401926  
0.0373717 0.0350994  
65 0 1.18794e-014 6.99629e-007 0.000617862 0.010289 0.0336408 0.0534363  
0.0608841 0.0595604 0.0545545 0.0488229 0.0435891 0.0392032 0.0356611  
0.0328448 0.0306177  
64 0 9.18154e-014 2.04512e-006 0.00112993 0.0145246 0.0405986 0.0582696  
0.0619729 0.0577529 0.0510687 0.0445247 0.0389748 0.0345269 0.0310412  
0.0283286 0.0262173  
63 0 6.6358e-013 5.67961e-006 0.00198538 0.019831 0.0475898 0.061896  
0.0615748 0.0547454 0.0467866 0.0397732 0.0341576 0.0298204 0.026508  
0.0239782 0.0220367  
62 0 4.4561e-012 1.49854e-005 0.00335166 0.0261873 0.0541847 0.0640471  
0.059719 0.0507313 0.0419498 0.034801 0.0293419 0.0252575 0.022208 0.0199178  
0.0181824



61 0 2.78199e-011 3.75638e-005 0.0054363 0.0334461 0.0599235 0.0645585  
0.0565364 0.045958 0.0368113 0.0298268 0.0247051 0.0209791 0.0182531  
0.0162367 0.0147264  
60 0 1.61458e-010 8.94576e-005 0.0084717 0.041315 0.0643687 0.0633899  
0.0522455 0.0407007 0.0316137 0.02504 0.0203884 0.0170885 0.0147184 0.0129894  
0.0117081  
59 0 8.71099e-010 0.0002024 0.0126842 0.0493606 0.06716 0.0606324 0.0471276  
0.0352371 0.0265713 0.0205908 0.0164921 0.0136502 0.0116433 0.010198  
0.0091373  
58 0 4.36904e-009 0.000435062 0.0182464 0.0570376 0.0680625 0.0564943  
0.0414962 0.0298232 0.0218571 0.0165854 0.0130758 0.0106929 0.00903625  
0.00785723 0.00699992  
57 0 2.03712e-008 0.000888451 0.0252183 0.0637458 0.0669978 0.0512766  
0.0356654 0.0246755 0.017596 0.0130854 0.0101614 0.00821426 0.00688008  
0.00594099 0.00526395  
56 0 8.82996e-008 0.00172368 0.0334871 0.0689047 0.064058 0.0453366 0.0299222  
0.0199588 0.0138637 0.0101126 0.00773995 0.00618817 0.00513918 0.0044084  
0.00388573  
55 0 3.55808e-007 0.00317702 0.0427233 0.0720368 0.0594901 0.0390477  
0.0245044 0.0157819 0.0106901 0.00765507 0.00577856 0.00457168 0.00376606  
0.00321023 0.00281565  
54 0 1.33287e-006 0.00556314 0.0523693 0.0728401 0.0536628 0.032761 0.0195886  
0.0121994 0.00806735 0.00567607 0.00422861 0.00331214 0.00270755 0.00229417  
0.00200275  
53 0 4.64172e-006 0.00925457 0.0616758 0.0712349 0.0470176 0.0267754 0.015285  
0.00921877 0.00595827 0.00412247 0.00303301 0.00235322 0.00190968 0.00160897  
0.00139837  
52 0 1.50274e-005 0.0146261 0.0697874 0.0673792 0.0400135 0.0213172 0.0116422  
0.00681027 0.00430677 0.00293279 0.0021323 0.00163959 0.00132142 0.0011074  
0.000958428  
51 2.22045e-016 4.52278e-005 0.02196 0.0758688 0.0616406 0.0330759 0.0165325  
0.00865585 0.00491826 0.00304668 0.00204369 0.00146933 0.00112029 0.000897052  
0.000747991 0.000644827  
50 3.10862e-015 0.000126544 0.0313237 0.0792455 0.05454 0.0265568 0.01249  
0.00628188 0.00347228 0.00210932 0.00139497 0.000992409 0.000750666  
0.000597435 0.000495819 0.000425865  
49 4.82947e-014 0.000329146 0.0424472 0.0795264 0.0466738 0.0207108  
0.00919181 0.00445015 0.00239649 0.00142923 0.000932665 0.000656993  
0.00049327 0.000390356 0.000322542 0.000276088  
48 6.64357e-013 0.000795878 0.0546464 0.0766783 0.0386313 0.0156884  
0.00658953 0.00307728 0.00161694 0.000947781 0.000610804 0.000426315  
0.000317867 0.000250223 0.000205914 0.000175699  
47 8.05378e-012 0.00178901 0.0668361 0.0710329 0.0309254 0.0115429 0.00460176  
0.00207714 0.00106652 0.000615115 0.000391826 0.000271144 0.000200877  
0.00015736 0.000129009 0.000109759  
46 8.61089e-011 0.00373837 0.07766 0.0632222 0.0239441 0.00824917 0.00313046  
0.00136858 0.000687704 0.000390706 0.000246206 0.000169033 0.000124491  
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AGE\_AGE\_KEY

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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	0.146828	0.0803743	3.02112	152.766	76.7753	13.5158	1
1982	1	1	1	0	AGE	0	1	1	1	70	1	0.533389	0.514038	0.47855	152.766	76.7753	3.0112	1
1982	1	1	1	0	AGE	0	1	1	1	70	2	0.278757	0.315626	-0.980484	152.766	76.7753	-5.28974	1
1982	1	1	1	0	AGE	0	1	1	1	70	3	0.0257718	0.0698377	-2.13694	152.766	76.7753	-3.92482	1
1982	1	1	1	0	AGE	0	1	1	1	70	4	0.00910569	0.0154754	-0.637818	152.766	76.7753	-0.737738	1
1982	1	1	1	0	AGE	0	1	1	1	70	5	0.00328489	0.00348961	-0.042909	152.766	76.7753	-0.0303387	1
1982	1	1	1	0	AGE	0	1	1	1	70	6	0.00193951	0.000847401	0.463895	152.766	76.7753	0.245335	1
1982	1	1	1	0	AGE	0	1	1	1	70	7	0.000923618	0.000311614	0.428574	152.766	76.7753	0.153307	1
1982	1	1	1	0	AGE	0	1	1	1	70								
1983	1	1	1	0	AGE	0	1	1	1	70	0	0.103629	0.0840048	0.802107	128.547	136.919	2.79675	1
1983	1	1	1	0	AGE	0	1	1	1	70	1	0.597964	0.557394	0.926066	128.547	136.919	5.40044	1
1983	1	1	1	0	AGE	0	1	1	1	70	2	0.229462	0.273737	-1.12582	128.547	136.919	-5.20403	1
1983	1	1	1	0	AGE	0	1	1	1	70	3	0.0459472	0.0658604	-0.91024	128.547	136.919	-2.12657	1
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1983	1	1	1	0	AGE	0	1	1	1	70	5	0.00688977	0.00329726	0.71051	128.547	136.919	0.652683	1
1983	1	1	1	0	AGE	0	1	1	1	70	6	0.000436259	0.000805028	-0.147419	128.547	136.919	-0.0343568	1
1983	1	1	1	0	AGE	0	1	1	1	70	7	0.00100383	0.000299633	0.461314	128.547	136.919	0.156012	1
1983	1	1	1	0	AGE	0	1	1	1	70								
1984	1	1	1	0	AGE	0	1	1	1	70	0	0.0942628	0.0522183	1.87796	98.739	58.403	5.49745	1
1984	1	1	1	0	AGE	0	1	1	1	70	1	0.521349	0.604399	-1.6877	98.739	58.403	-7.60915	1
1984	1	1	1	0	AGE	0	1	1	1	70	2	0.303139	0.279458	0.524394	98.739	58.403	2.43463	1
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1984	1	1	1	0	AGE	0	1	1	1	70	6	0.000178356	0.000665488	-0.1877	98.739	58.403	-0.0231887	1
1984	1	1	1	0	AGE	0	1	1	1	70	7	0.000296011	0.000260147	0.0220975	98.739	58.403	0.00377471	1

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