

APPENDIX 4

SAW 47 Working Paper 10 (TOR 4) – Surplus Production Model

Re-evaluation of Summer Flounder (*Paralichthys dentatus*) Stock Status Following Adjustments for Retrospective Bias and Inclusion of Trophic Effects

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SUMMARY

In this report, a time series (1982-2006) of age aggregated (ages 1+) F and stock size estimates was derived for summer flounder from 1982 to 2006. A subset of tuning indices that significantly ($P < 0.01$) predicted the converged portion of the flounder time series (1982-2000) was used to project stock sizes for the non-converged portion (2001-2006) where the presence of retrospective bias from ADAPT was shown to systematically overestimate stock size. In addition, overfishing thresholds (F_{msy} , B_{msy}) were estimated for flounder by dynamic surplus production models. Finally, I examined the hypothesis that flounder stock rebuilding has been recently halted due mainly to enhanced predation and shifts in environmental factors. The stepwise regression analyses revealed that the recreational cpue index and the NEFSC spring trawl index were selected as the best predictors of mean ages 1+ numbers, biomass and SSB from 1982 to 2000. These regression models accounted for 62 to 89% of the variation in abundance over three converged periods (1982-1998, 1982-1999, 1982-2000), and were then used to project recent (2001-2006) ages 1+ abundance in an effort to address systematic retrospective bias during those years. The ADAPT model overestimated ages 1+ abundance by 35 to 50% in most years after 2000. Based on these analyses, the most reliable time series (1982-2006) of flounder abundance and SSB consisted of the converged portion (1982-2000) from ADAPT plus the predicted abundance and SSB estimates from 2001 to 2006 based on the predictive equations. This time series of stock size estimates was used in all subsequent analyses.

Biomass weighted fishing mortality (F) on ages 1+ flounder was high and variable before 1995, ranging from a low of 0.74 in 1994 to a high of 1.88 in 1988. After 1994, ages 1+ fishing mortality rates dropped considerably and remained relatively stable between 0.38 and 0.54. Ages 1+ flounder biomass (mt) based on ADAPT was relatively high and stable from 1982 to 1987 at around 25 thousand mt, than flounder biomass dropped quickly to below 16 thousand mt from 1988 to 1994. Thereafter stock biomass began to rise and eventually reached about 30 thousand mt by 2001. Ages 1+ stock biomass remained relatively steady at around 30 thousand mt from 2001 to 2005, but the 2006 biomass level fell by 30% to 23 thousand mt. The dynamic Gompertz production model was a good fit to flounder surplus production data, but the model generated an anomalous residual pattern. As a result, several candidate predators (striped bass, bluefish and spiny dogfish) and

environmental variables (mean annual water temperatures and deviations in the winter NAO index) were added to the Gompertz model in a stepwise regression. Striped bass was the only additional variable selected to the Gompertz model at the $P < 0.02$ level. The extended Gompertz model with striped bass predatory effects explained over 83% of the variability in surplus production and, more importantly, removed the serial residual pattern noted from the original Gompertz model. This extended Gompertz production model was then used to estimate flounder overfishing thresholds (F_{msy} , B_{msy}). The resulting overfishing threshold (F_{msy}) for flounder was 0.64 (80% C.I.: 0.51 to 0.77) and the biomass threshold was 32,500 mt (80% C. I: 25,900-39,200 mt). All of the ages 1+ fishing mortality (FW) rates (biomass weighted) on flounder from 1982 to 1994 exceeded the F_{msy} threshold of 0.64, indicating that overfishing had occurred on flounder from 1982 to 1994. However, all subsequent FW estimates were below the F_{msy} threshold, suggesting that overfishing was corrected by additional management measures imposed during the early to mid 1990's. Recent (2002-2005) biomass (mt) levels have approached my B_{msy} threshold, but the 2006 biomass level of 22,900 mt represented a 30% drop and was well below the B_{msy} threshold of 32,500 mt. Since fishing mortality rates (FW) have stabilized below F_{msy} since 1995, the recent lack of stock rebuilding is likely due to enhanced striped bass predation and not overfishing. When the dome-shaped Ricker S-R model was fitted to the flounder S-R data, the model converged and the parameter estimates (A , K_p) were highly significant ($P < 0.0001$). However, the residual pattern from the Ricker Model looked almost exactly like the atypical residual pattern exhibited by the asymptotic Beverton-Holt S-R model. When striped bass abundance from 1982 to 2006 was added as a second explanatory variable, the extended Ricker model explained 91% of the recruitment variability, all three parameter estimates (A , K_p , c) were highly significant ($P < 0.0001$), and most importantly, the anomalous residual pattern observed in the basic Beverton-Holt and Ricker S-R models virtually disappeared. These findings are consistent with the Predation Hypothesis, indicating that surplus production and the transmission of age 0 recruits to the adult stock has been recently impeded due to a recent rise in striped bass predation. The management implications of successful stock rebuilding of summer flounder in the presence of rising predatory mortality are discussed.

INTRODUCTION

The most recent stock assessment for summer flounder (Terceiro 2006) concluded that overfishing on the coast-wide stock has occurred since at least 1982. Current (2006) spawning stock biomass based on the 2007 ADAPT (Terceiro 2007) run is about 6% below the biomass threshold, and the current fully recruited fishing mortality rate (F) is about 25% above the current F_{max} threshold of 0.28. As indicated by Terceiro (2006), all ADAPT model runs conducted thus far have exhibited a pronounced and systematic retrospective bias for the terminal (most recent year) F and stock size estimates. Although the exact origin of retrospective bias is still unclear (ICES 2002), this problem occurs at some level in nearly all catch-at-age models. The ADAPT model for summer flounder almost always underestimated F and overestimated stock size for fully recruited fish in the last three to five years of the time series by a sizeable amount. Such a large systematic bias greatly confounds our ability to establish conservative quotas on the commercial fisheries and, more importantly, over-inflates the true pace of flounder stock rebuilding toward the SSB threshold of 44,760 mt. Given that the most recent (2002-2006)

biomass estimates from ADAPT have been consistently overestimated, the rate of stock rebuilding since 2002 may be much slower than previously suggested based on output from ADAPT.

The current target and overfishing thresholds for summer flounder are both expressed by an F_{max} value of 0.28 based on the Thompson-Bell yield-per-recruit (YPR) model (Terceiro 2006). The threshold F_{max} is assumed to be a suitable proxy for F_{msy} when the shape of the stock-recruitment relationship is indeterminate. The YPR model assumes no density-dependence and constant age-specific somatic growth and natural mortality rates (M). The notion that F_{max} closely approximates F_{msy} under most conditions was challenged recently during a review of reference points for summer flounder conducted by the Mid Atlantic Fishery Management Council (MAFMC). Three reports (Gibson 2000; Crecco 2000; Armstrong 2000) from this meeting estimated F_{msy} for summer flounder based on stock-recruitment and dynamic surplus production models that assume the presence of density-dependent mortality. All of their findings indicated that the range of F_{msy} thresholds (F_{msy} : 0.58-0.82) for summer flounder always exceeded the F_{max} level of 0.28 used in the current assessment as did the range of F_{msy} levels (F_{msy} range: 0.45-0.69) reported earlier by Chang and Pacheco (1976). These findings strongly suggest that summer flounder are under some density-dependent control and are thus more resilient to fishing pressure than previously thought.

Over the last seven years, the stock-recruitment (S-R) relationship for flounder has been extensively examined (Terceiro 2000, 2006; Gibson 2000; Crecco 2000). Terceiro (2006) has shown that the residuals from all Beverton-Holt S-R model runs have exhibited a pronounced and consistent serial correlation over time. The residuals were all large and positive from 1983 to 1987, after which nearly all residuals switched to a negative direction. Gibson (2000) also noted a similar residual pattern for the dome-shaped form of the Shepherd (1982) S-R model, indicating that this serial correlation in residuals over time is widespread and not related to the shape of the S-R curve. The other potential cause for serial residuals is that the basic S-R model lacks an additional important explanatory variable such as an environmental or trophic factor. Given the uncertainty and controversy surrounding the effects of retrospective bias in ADAPT on current F and stock biomass, as well as the persistent occurrence of serial residuals from all current flounder S-R models, I argue here that a thorough examination of these issues are needed even if it occurs outside the normal Peer Review process. The need for such a review may appear unwarranted since the last eight flounder assessments have been upheld by Peer Review (Terceiro 2006). Nevertheless, the ramifications of persistent retrospective bias from ADAPT and residual anomalies from S-R models require more attention here and in future Peer Reviews.

In this report, a time series (1982-2006) of age aggregated (ages 1+) F and stock size estimates was derived from 1982 to 2006. The F and stock size estimates were expressed annually as ratios of landings and discards to ages 1+ abundance from the converged portion of the 2007 ADAPT run (Terceiro 2007). A subset of tuning indices that significantly ($P < 0.01$) predicted the converged numbers and biomass time series was then used to project stock sizes estimates for the non-converged portion (2001-2006) of the biomass, stock numbers and spawning stock biomass (SSB) time series. In addition, overfishing thresholds (F_{msy} , B_{msy}) were estimated for flounder by dynamic surplus production models. Finally, I examined the hypothesis that flounder surplus production and recruitment have recently fallen mainly due to enhanced predation and shifts in environmental factors.

METHODS

Method to Adjust Recent Stock Size for Retrospective Bias

Retrospective bias has been persistent in the most recent (> 2001) flounder abundance estimates from the ADAPT model (Terceiro 2006). In an effort to reduce the impact of retrospective bias, I developed a number of linear least squares predictive models based on the tuning indices and the mean ages 1+ biomass, mean ages 1+stock numbers and spawning stock biomass (SSB) values from the converged portion of the 2007 ADAPT run (Terceiro 2007), where retrospective bias was minimal. Annual mean ages 1+ biomass and SSB are direct outputs from ADAPT, but mean ages 1+ stock numbers are not. To estimate mean stock numbers according to the VPA manual (Alan Seaver, NEFSC pers. comm.), ages 1+ stock size estimates at the beginning of each year from ADAPT was multiplied by the quantity $(1 - \exp(-Z_t)/Z_t)$, where Z_t is the instantaneous total mortality estimate (numbers weighted) from ADAPT.

My approach involved the use of the Pearson correlation and stepwise regression analyses to relate all ages 1+ tuning indices in weight and number against average ages 1+ biomass, spawning stock biomass (SSB) and average ages 1+ numbers from the converged portion (1982-2000) of the VPA (Tables 1-3). Both the Pearson correlation and Stepwise regression methods were conducted in the Statistical Analysis System (SAS 2002). A subset of tuning indices was selected from this analysis that best predicted (maximum rsquare) stock size within the converged portion of the VPA. Before the predictive equation was accepted, residual diagnostics was performed on each model to determine whether or not serial correlations were evident between model residuals and time (1982-2000). The residuals from each predictive model were linearly regressed against time (years) and a significant serial correlation coefficient ($P < 0.05$) would indicate an abnormal residual pattern. This would indicate that the current model configuration was either incorrect or an additional explanatory variable was missing from the model. In addition, the partial correlation coefficients were examined for each explanatory variable from the stepwise model. If the model accurately predicted ($P < 0.01$) abundance trends over the converged portion and passed the residual test, it was then used to estimate ages 1+ abundance in number, biomass (mt) and SSB for the non-converged portion (from 2001 to 2006) of the time series.

Since the degree of retrospective bias declines backwards in time from the terminal stock estimate, the exact cutoff for the most recent value in the converged time series is somewhat subjective. It is clear that the degree of retrospective bias in the abundance time series diminished sharply prior to 2001. Thus, the time series of ages 1+ abundance and SSB from 1982-2000 was defined as the converged portion. This converged portion was therefore considered to be the most reliable time series of flounder abundance. This allowed the converged portion to be used as an unbiased dependent variable in the stepwise model, against which the tuning indices can be regressed in the stepwise model. The stepwise model was designed to screen out tuning indices that were poorly correlated ($P > 0.05$) to ages 1+abundance. The definition of the 1982-2000 time series of ages 1+ abundance as a time frame with which to ground truth the tuning indices is arbitrary. Retrospective bias in ages 1+ F and stock size was still discernible albeit at a low level as far back as 1998 (Terceiro 2007). As a result, to further examine how the 1982-2000 time frame might affect the choice of informative indices, the Pearson correlation and stepwise analyses were repeated for ages 1+ abundance and SSB from ADAPT for an additional two periods 1982-1998 and 1982-1999.

The theoretical foundation of this regression approach could be questioned by the fact that trawl survey indices were used to directly tune the 2007 ADAPT run. The potential influence of the tuning indices on the trend in ages 1+ abundance over the converged portion of ADAPT should be minimal. The overall trend in flounder abundance within the converged portion (1982-2000) is mainly influenced by the catch-at-age matrix, whereas more recent abundance estimates are mainly affected by trends in the tuning indices (Mohn 1999). The candidate abundance indices used in the Pearson correlation and stepwise regression analyses included 10 trawl survey indices and one additional recreational cpue index that has not been previously used to tune ADAPT (Tables 1 and 2). The trawl indices included ages 1+ number/tow from the 1982-2006 Massachusetts (MA) spring trawl survey, ages 1+ number/tow in the 1982-2006 Rhode Island fall trawl survey, ages 1+ number/tow in the 1990-2006 Rhode Island fixed station trawl survey, ages 1+ number from the 1984-2006 Connecticut spring and fall trawl surveys, both ages 1+ number and kg/tow from the 1982-2006 NEFSC spring and fall indices, both ages 1+ number and kg /tow from the 1992-2006 NEFSC winter trawl survey, ages 1+ number /tow from the 1989-2006 New Jersey trawl survey, ages 1+ number/tow from 1990 to 2006 for the Delaware trawl survey. A shorter (1990-2006) time series of flounder kg/tow data are also available for the Connecticut spring and fall surveys. At this time, there are no reported biomass (kg/tow) time series for trawl surveys in Massachusetts, Rhode Island, New Jersey and Delaware. A more extensive description of these 10 trawl survey indices is found in the 2006 assessment report (Terceiro 2007).

The new coast-wide recreational cpue index was derived based on a coast-wide recreational catch-effort ratio from 1982 to 2006:

$$\text{RelNt} = \text{ATLN} / \text{Et}. \quad (1)$$

The coast-wide recreational catch (ATLN) (type A, B1 and B2) in numbers and recreational fishing effort (Et, trips) in equation (1) were based on the private boat sector of the MRFSS annual surveys (Table 1). Flounder catch and fishing effort data were confined to the private boat sector for two reasons. First, the flounder total catch and total effort estimates each year were derived with relatively high precision (proportional CV < 5% of the mean). Second, the private boat sector of the fishery is highly mobile and capable of catching flounder of all sizes throughout their range.

A second time series (1982-2006) of relative abundance indices in weight (RelWt) was also derived as a ratio of recreational catches (A, B1, B2) in weight (RelWt) to fishing effort (Et) (Table 2). The MRFSS has monitored weight (kg) data from only the harvest (A, B1) so weight data from released fish (B2) are not available. As a result, average weight for A, B1 and B2 catches was estimated indirectly as the average weight (kg) per flounder taken from the NEFSC spring and fall surveys from 1982-2006. The average weight (avwt) of a flounder was derived annually from the NEFSC spring and fall surveys as the average kg/tow index divided by the average number/tow index. The resulting weight index (RelWt) for the recreational fishery was expressed annually as the product of the relative abundance index in number (RelNt) and the average weight (avwt) from the spring and fall NEFSC trawl surveys.

The proposed recreational indices for flounder (RelNt and RelWt) are fishery dependent and thus not entirely independent of the total (sport, commercial and discards) coast-wide landings. However, the problem of colinearity between recreational indices and total coast wide landings should be relatively minor for two reasons. First, auto-correlation between the relative abundance

indices (RelNt and RelWt) and total harvest is minimized by the fact that private boat recreational catches (type A, B1 and B2) were used here rather than harvest (type A and B1) to derive the RelNt. The recreational catches are usually three to four times higher each year than the harvest after 1993. Second, in order to derive the recreational indices, the private boat catches (A, B1, B2) in the MRFSS were further divided by private boat fishing effort (Et). Note that the trend in Et from 1982 to 2006 was inversely related ($r = -0.53$, $P < 0.01$) to total coast-wide flounder harvest.

RESULTS

Each of the ages 1+ abundance indices for the three converged periods 1982-1998, 1982-1999 and 1982-2000 was correlated to the corresponding ages 1+ abundance in number and weight (mt) based on ADAPT (Tables 4 and 5). Regardless of the converged time frames (1982-1998, 1982-1999, 1982-2000), ages 1+ number/tow from the NEFSC spring and winter surveys, as well as the Massachusetts, Rhode Island and Delaware surveys were poorly ($P > 0.05$) correlated to ages 1+ stock size in number from the three converged portions (Table 4). The Rhode Island fixed station survey and Connecticut fall survey of ages 1+ abundance were significantly correlated ($P < 0.03$) to the 1982-2000 and 1982-1999 abundance estimates but not to ages 1+ abundance from the 1982-1998 period. All of the other surveys (NEFSC fall, Connecticut spring, New Jersey and the coast-wide recreational cpue (RelNt) were significantly ($P < 0.05$) correlated to ages 1+ abundance across the three converged periods. However, recreational cpue in number was consistently the most highly ($P < 0.0001$) correlated index to ages 1+ abundance across the three converged periods.

Results of the correlation analyses for biomass (Table 5) revealed that the NEFSC winter biomass indices were poorly correlated to ages 1+ biomass from the converged portions, whereas the Connecticut spring and fall indices were significantly ($P < 0.05$) correlated to ADAPT biomass from 1982 to 1999 and 1982-2000, but not for the period 1982-1998. The NEFSC spring and fall biomass (kg/tow) indices and the recreational cpue index in kg (RelWt) were highly correlated ($P < 0.05$) to ages 1+ biomass across the three converged periods (Table 4). The recreational index (RelWt) always exhibited the highest correlation ($P < 0.0001$) to ages 1+ abundance across the three converged periods.

Ages 1+ biomass (mt) from the converged portion (1982-2000) was highly correlated ($P < 0.0001$) to spawning stock biomass (SSB). The correlation matrix (Table 5) indicated that all biomass indices except the NEFSC winter survey were significantly correlated to SSB levels from 1982 to 2000. As in the other comparisons, the recreational cpue (RelWt) was the most highly correlated ($P < 0.0001$) time series to the SSB for the converged portion (1982-2000).

Results from the stepwise regression that related ages 1+ abundance from the converged portion to the tuning indices revealed that the recreational cpue index was the only index selected as the best predictor of mean ages 1+ numbers, accounting for 62 to 68% of the variation in abundance over the three converged periods (1982-1998, 1982-1999, 1982-2000) (Table 6). None of the ten trawl survey indices were selected as a second predictor variable from the stepwise regression. The predictive equation that explained 68% of the variation in abundance from 1982-2000 (Figure 1) was:

$$\text{PredN} = 5.28 + 26.38 * \text{RelNt} . \quad (2)$$

The resulting residual pattern from equation (2) was random over time ($P < 0.15$) (Figure 2), indicating that this predictive model was unbiased and a reliable predictor of abundance at least from 1982-2000. As a result, this model was used to predict ages 1+ flounder abundance from 2001 to 2006 in an effort to adjust recent ages 1+ abundance for systematic retrospective bias. Severe overestimation of ages 1+ stock size from ADAPT was clearly evident in recent years (2001-2006) (Figure 3). The lowest systematic bias occurred in 2001 (23.7%) and highest took place in 2003 (53.9%). The percentage bias for ages 1+ abundance was 50.5% in the terminal (2006) year. The most reliable time series (1982-2006) of ages 1+ abundance was considered to be the converged portion (1982-2000) of ages 1+ abundance from ADAPT plus the predicted ages 1+ abundance estimates from 2001 to 2006 based on equation (2).

Results from the stepwise regression of ages 1+ biomass (mt) from the converged portion and the tuning indices revealed that the recreational cpue index in weight (RelWt) and the NEFSC spring index (kg/tow) were together the best predictors of ages 1+ biomass for the three converged periods (1982-1998, 1982-1999, 1982-2000), each accounting for 87 to 88% of the variation (Table 6). The partial correlation coefficients were always much higher for the recreational cpue (0.77-0.80) than for the NEFSC spring indices (0.09-0.11). The predictive equation for the converged period 1982-2000 was:

$$\text{PredW} = 4.30 + 4.94 * \text{NEFSC} + 23.10 * \text{RelWt}, \quad (3)$$

which explained 88% of the variation in ages 1+ stock biomass from 1982-2000 (Figure 4). A plot of residuals was random ($P < 0.60$) across the time series (Figure 5), indicating that the predictive model (equation 3) was unbiased. As a result, this model was used to predict ages 1+ flounder biomass from 2001 to 2006 in an effort to adjust ages 1+ biomass for retrospective bias (Figure 6). The percentage bias between the ADAPT stock biomass and the predicted (PredW) biomass from equation (3) was relatively low (1.5%) in 2001, but the bias generally increased in magnitude over time to the highest (45.5%) level in 2006, indicating that the terminal stock biomass estimate is severely overestimated by ADAPT. The most reliable time series (1982-2006) of ages 1+ biomass for further analyses was the converged portion (1982-2000) of ages 1+ biomass from ADAPT plus the predicted ages 1+ biomass estimates from 2001 to 2006 based on equation (3). This biomass time series was used in all subsequent surplus production modeling.

Stepwise regression analyses of SSB (mt) relating the converged portion of ADAPT to the tuning indices also revealed that the recreational cpue index in weight (RelWt) and the NEFSC spring index (kg/tow) were the best predictors of flounder SSB for the 1982-2000 period (Table 6), accounting for 79% of the variation in SSB (Figure 7). The partial correlation coefficient was much higher for the recreational cpue (0.67) than for the NEFSC spring indices (0.11). The predictive equation for SSB over the converged period 1982-2000 was:

$$\text{PredSSB} = 4.40 + 5.90 * \text{NEFSC} + 19.26 * \text{RelWt}. \quad (4)$$

The residuals based on the difference between observed and predicted SSB (PredSSB) were random ($P < 0.17$) across the time series (Figure 8), indicating that the predictive model (equation 4) was unbiased. As a result, this model was used to predict flounder SSB from 2001 to 2006 in an effort to adjust SSB for retrospective bias (Figure 9). The percentage bias between the ADAPT stock biomass and the predicted (PredW) biomass from equation (4) was relatively low (-5.8%) in 2001, but the bias generally rose in magnitude over time to the highest (47.3%)

level in 2006. Based on this analysis, the most reliable time series (1982-2006) of flounder SSB for further analyses was the converged portion (1982-2000) of SSB from ADAPT plus the predicted SSB estimates from 2001 to 2006 based on equation (4) (Table 3). This SSB time series was used in all subsequent stock-recruitment analyses.

Approach to Estimate ages 1+ F and Surplus Production

In this analysis, age aggregated (ages 1+) fishing mortality (F_t) was derived annually on summer flounder from 1982 to 2006. The theoretical underpinnings of our approach is based on a simple re-arrangement of the Baranov catch equation (Ricker 1975, page 13, equation 1.17) with respect to F :

$$F = \text{Catch} / \text{Mean Stock Size}, \quad (5)$$

where: mean stock size is typically expressed as the average stock size in years t and $t+1$. The ages 1+ F_t estimates were based on the ratio of ages 1+ coast-wide (commercial and sport plus discards) landings (numbers) of flounder in year t (Catch $_t$) to the corresponding ages 1+ abundance estimates (N_t , N_{t+1}) in year t and $t+1$:

$$F_t = \text{Catch}_t / [(N_t + N_{t+1})/2], \quad (6)$$

where: N_t and N_{t+1} are the flounder ages 1+ abundance estimates from the converged portion (1982-2000) of ADAPT whereas N_t values from 2001 to 2006 represent the predictive values (equation 2). The landings and discards (Catch $_t$, $n \times 1000$) of ages 1+ flounder (Table 2) in the numerator of equation (6) were derived earlier in the 2007 stock assessment (Terceiro 2007). Equation (6) is very similar to the equation introduced earlier by Sinclair (1998) except that he estimated relative exploitation:

$$\text{Relu} = \text{Catch} / \text{Rel}N_t \quad (7)$$

instead of F . Because the 2007 abundance estimate (N_t) is not yet available, the N_{t+1} value a year later in 2006 was assumed to be the same as the 2006 N_t abundance estimate. Ages 1+ F estimates via equation (6) do not consider temporal and spatial shifts in the age structure, so this approach is designed only to monitor age aggregated F values across time (1982-2006). Thus, the F_t values are uninformative about year-class and age-specific changes in F over the time series. However, since F_t estimates from equation (6) are expressed as a ratio of annual harvest to average abundance, the trend in ages 1+ F is not confounded by the assumption of constant natural mortality ($M = 0.2$) used explicitly to derive F estimates ($F = Z - 0.2$) in ADAPT and in other catch-age models.

Another time series (1982-2006) of biomass weighted F estimates for ages 1+ flounder was estimated from 1982 to 2006 as a ratio of ages 1+ landings and discards (mt) to the average ages 1+ biomass estimates in year t (Biot) and $t+1$ (Biot+1). As with the other analysis, Biot and Biot+1 represent the flounder ages 1+ biomass estimates from the converged portion (1982-2000) of ADAPT whereas the Biot estimates from 2001 to 2006 were derived from the predictive equation (equation 3).

A time series (1982-2006) of surplus production estimates in year t (SURPt) was also derived for flounder. As in Jacobson et al (2002), the SURPt values were expressed each year by subtracting flounder biomass in year t (BIOt) from the biomass in year t+1 (BIOt+1), and then adding the coast-wide harvest and discards (mt) (catcht):

$$\text{SURPt} = \text{BIOt+1} - \text{BIOt} + \text{Catcht}. \quad (8)$$

Overfishing Thresholds (Fmsy, Bmsy)

Surplus production estimates have been used to monitor trends in per capita stock productivity for many exploited finfish populations (Jacobson et al 2002). Having a time series (1982-2006) of flounder surplus production (SURPt) (Table 7) and stock biomass estimates in year t (Biot) (Table 7), updated Fmsy and Nmsy thresholds were estimated for flounder using the dynamic version of the Gompertz external surplus production model (Quinn and Deriso 1999; Jacobson et al 2002). Like stock-recruitment models, the theoretical foundation of production models assumes the existence of compensatory density-dependent mortality for finfish populations, a position widely held by most fish population ecologists (Wahle 2003). We selected the Gompertz form over the more widely used logistics equation because Yoshimoto and Clarke (1993) reported that under simulation conditions, the Gompertz model produced more realistic (positive) and stable overfishing thresholds than the logistics model. In the asymmetrical Gompertz model, surplus production estimates (SURPt) from 1982-2006 were regressed against biomass (Biot) and the product of the log flounder biomass and biomass (LogBiot*Biot) in a two variable linear regression model without a y-axis intercept:

$$\text{SURPt} = a * \text{Biot} + b * ((\text{LogBiot}) * \text{Biot}), \quad (9)$$

where: K – theoretical carrying capacity (mt) = $\exp(a/b)$;
 MSY- maximum sustainable yield (mt) = $(-b * K)/2.72$;
 Bmsy – stock size (mt) at MSY = $K / 2.72$;
 Fmsy – instantaneous fishing mortality at MSY = MSY / Bmsy ;
 Fcoll – instantaneous fishing mortality at stock collapse = $\text{Fmsy} * 2.72$.

Our ability to estimate precise Fmsy and Bmsy values in surplus production models are often plagued by the presence of outliers caused by moderate to high measurement errors. To minimize the effects of outliers, the Gompertz model (equation 9) was fitted as a linear robust regression model using the least trimmed squares regression (LTS) objective function as recommended by Rousseeuw and Van Driessen (2000). The parameter estimates (a, b) and resulting reference points (Fmsy, Bmsy, Fcoll) from the dynamic production model (equation 9) were derived from the ROBUSTREG procedure contained in the Statistical Analysis System (SAS 2002). The parameter estimates (a, b) and their standard errors based on least squares (LS) are highly prone to the presence of outliers. With robust linear regression like LTS, outlying observations are identified and automatically down-weighted, resulting in higher precision and greater overall stability of the parameter estimates (a, b) over those derived from ordinary least squares.

Before the overfishing thresholds (F_{msy} , B_{msy}) were estimated via equation (9), the pattern of residuals was examined for the presence of serial correlations over time. The residuals from an unbiased model should be distributed randomly over time. By contrast, a significant ($P < 0.05$) correlation between residuals and time (1982-2006) would indicate model misspecification. A serial correlation occurs when the residuals are all in one direction during say the first half of the time series then they switch abruptly in the opposite direction thereafter. This anomalous residual pattern could be due to an incorrect configuration of the production model (i. e. Logistics versus Gompertz), or perhaps, the model lacks an important explanatory variable. If the parameter estimates (a , b) of the model are statistically significant ($P < 0.05$), and if the residual pattern from the model exhibited no serial correlation, the model was considered unbiased and used to estimate overfishing (F_{msy} , B_{msy}) thresholds.

To examine the hypothesis that flounder surplus production has recently been eroded by trophic and environmental factors, candidate predators such as striped bass, bluefish and spiny dogfish abundance (pred term) were included in the production model as an extra independent variable (Table 3). In addition, environmental variables such as annual mean water temperature and deviations in the winter North Atlantic Oscillation (NAO) index (environ term) from 1981 to 2006 (Table 3) were also added to the external production model:

$$SURPt = a*Biot + b * ((LogBiot)*Biot) + c*(Pred of Environ), \quad (10)$$

in a stepwise regression fashion. Since all female flounder reach sexual maturity by age 2 (Almeida et al 1992), water temperature and winter NAO values were lagged t-1 and t-2 years to coincide with flounder recruitment to the adult stock. Environmental disturbances have been proposed as a major process structuring ecological systems (Hollowed et al 2000), both by causing direct mortality and by changing the carrying capacity of the ecosystem. Bluefish, striped bass and spiny dogfish are major inshore finfish predators that have recently risen sharply in abundance along the Atlantic coast. Moreover, these finfish predators overlap the spatial and temporal distribution of flounder, and all are considered, to some extent, as potential candidate predators on flounder (Rountree 1999). Striped bass is regarded as a voracious predator from the Mid and North Atlantic on menhaden, gizzard shad and herring (Hartman 1993). Larger (> 70 cm) striped bass, however, have been reported to switch their prey preference from herring and small menhaden to spot, flounder and weakfish in Chesapeake Bay (Hartman and Brandt 1995; Walter and Austin 2003). Bluefish (*Pomatomous saltatrix*) also prey upon a variety of finfishes including flounder throughout the Atlantic coast (Bowman et al 2000). Dogfish (*Squalus acanthias*) are found coast-wide and are regarded as a primary finfish predator of juvenile summer flounder (Rountree 1999).

Statistical evidence consistent with the predation hypothesis would be evident if the slope (c) for predation effects in equation (10) was negative and statistically significant ($P < 0.05$). This would imply that enhanced predation has eroded flounder surplus production independent of fishery effects. Moreover, if the slope for predation effects is significant, the inclusion of the extra predation term in the model can greatly enhance the precision around the (a) and (b) parameters of equation (10), thus allowing more precise estimates of F_{msy} and B_{msy} thresholds. To test for potential joint effects of fishing (F) and trophic interactions on flounder productivity, residual plots against time were examined for the presence of serial correlations. Further statistical support for the predation hypothesis would exist, if the pronounced serial correlation

evident in the basic production model (equation 9) should disappear following the addition of predation effects to the model (equation 10).

Annual changes in coast-wide striped bass abundance (ages 7+) in numbers (Table 3) have been monitored annually from 1988 to 2006 by the ratio of ages 7+ harvest to the tag-based F derived from the catch equation approach (Versak 2007). In addition, a time series (1982-2006) of ages 8+ striped bass abundance has been derived recently from the Statistical Catch-at-Age model (Nelson 2007). Annual changes in spiny dogfish and bluefish from 1982 to 2006 were indexed here as cpue based on the coast-wide recreational catches in number (A, B1, B2) and coast-wide effort (trips) from the private boat fishery in the MRFSS surveys (Table 3). These trends in coast-wide recreational cpue of dogfish and bluefish were assumed to be informative about coast-wide changes in these stocks from 1982 to 2006. A time series (1982-2006) of average annual surface water temperatures was taken from a continuous temperature recorder in Long Island Sound located at the Millstone Nuclear Power Station, Waterford CT. Annual deviations in the winter NAO indices from 1982 to 2006 were taken from the NOAA web site.

Stock-Recruitment Effects

Over the last seven years, the stock-recruitment (S-R) relationship for flounder has been extensively examined (Terceiro 2000, 2006; Gibson 2000; Crecco 2000). Terceiro (2006) has argued that the asymptotic Beverton-Holt S-R model should be chosen over the parabolic Ricker S-R model based on theoretical grounds, despite the fact that the parabolic model was a better fit to stock-recruitment data (Gibson 2000). Terceiro (2006, 2007) has repeatedly shown that the residuals from all Beverton-Holt S-R model runs have exhibited a persistent serial correlation over time. The residuals were all high and positive from 1983 to 1987, then nearly all subsequent residuals switched to a negative direction. Since Gibson (2000) noted a similar anomalous residual pattern when flounder S-R data were fitted to the dome-shaped form of the Shepherd (1982) S-R model, this serial residual pattern is widespread and not related directly to the shape of the S-R curve. The other potential cause for the serial correlation in residuals is that the basic S-R model may lack an additional important explanatory variable such as environmental or predatory effects.

In this report, the shape and residual pattern of the flounder stock-recruitment relationship was further explored with the flexible Shepherd (1982) S-R model:

$$\text{Rec} = A * \text{SSB} / (1 + (\text{SSB} / K_p)^b), \quad (11)$$

where: A = the magnitude of compensatory reserve;

K_p = the flounder spawning stock biomass (mt) at which compensatory effects dominate;

b = the degree of compensatory density-dependent mortality;

Rec = estimated age 0 recruits from the most recent ADAPT run (Terceiro 2007) (Table 3);

SSB = estimated SSB from the converged portion (1982-2000) of ADAPT plus predicted SSB from the stepwise model from 2001-2006 (Table 3).

If the b parameter estimate in equation (11) is less than 1.0, the curve approximates a power function. If (b) is equal to 1.0, the S-R curve is consistent with the asymptotic Beverton-Holt model, whereas a (b) estimate greater than 1.0 is consistent with the parabolic Ricker type S-R curve. The entire time series (1982-2006) of flounder recruitment (Rec) based on the 2007

ADAPT run (Terceiro 2007) was fitted to equation (11) because Terceiro (2006) has shown that the degree of retrospective bias on recent recruitment estimates from ADAPT was relatively small. In order to explore the residual patterns from the Beverton-Holt and Ricker type S-R models, the S-R data were fitted to equation 11 holding the (b) parameter constant at 1.0 and 2.0, respectively. The remaining parameter estimates (A, Kp) from the S-R model (equation 11) were derived from the NLIN procedure (marquardt algorithm) contained in the Statistical Analysis System (SAS 2002).

Given the likely presence of outliers in the S-R data, the Shepherd S-R model was fitted as a nonlinear robust regression using the iterative reweighted least squares method outlined by Holland and Welsch (1978). The algorithm and rationale for this approach is described in SAS (2002). This re-weighting scheme is designed to detect outliers, thereby allowing the down weighting of S-R data from certain years in the model where model residuals, regardless of direction, exceeded a previously defined threshold level. As indicated by Holland and Welsch (1978), the choice of a threshold is subjective and always represents a trade-off between minimizing the variances around the parameters (A, Kp) and at the same time generating globally converged parameter estimates. As suggested by Holland and Welsch (1978), a range of threshold estimates was used initially and the final threshold value was selected that satisfied the trade-off between global convergence of all parameter estimates and parameter estimates with maximum precision and minimum variance. The two-step re-weighting approach always produced converged estimates (global estimates) that were within 10% of the parameter estimates (A, Kp) derived by the nonlinear least squares approach. However, the standard errors about the estimates based on iterative re-weighting were always 30 to 45% lower than the standard errors from the least squares method.

To examine for potential predatory and environmental effects on flounder recruitment and on the residuals from the S-R model, the Shepherd S-R model (equation 11) included an extra exponent (c) reflecting potential predation (pred) and environmental (environ) effects:

$$\text{Rec} = A * \text{SSB} / (1 + (\text{SSB} / \text{Kp})^{**b}) * \exp(c * \text{pred}, \text{environ}). \quad (12)$$

As in the surplus production analyses, candidate predators (pred) included striped bass, bluefish and spiny dogfish abundance (Table 3) were added separately to the model. Potential environmental variables (environ) included annual water temperature and deviations in the winter North Atlantic Oscillation (NAO) index. Statistical evidence consistent with the predation and environmental hypotheses would exist if the additional exponent (c) for predation and environmental effects in equation (12) was negative and statistically significant ($P < 0.05$). This would imply that biotic and abiotic factors external to the fishery have reduced recent age 0 recruitment over time. Further statistical support for the predation and environmental hypotheses would be evident, if the serial correlation in residuals evident in the basic Shepherd S-R model (equation 11) disappeared following the addition of predation or environmental effects to the S-R model (equation 12).

RESULTS

Ages 1+ Fishing Mortality (F) and Surplus Production (SURPt)

Ages 1+ fishing mortality estimates (FN) (catch weighted) were derived from 1982 to 2006 as the ratio of total annual landings (including discards) to average (t, t+1) ages 1+ abundance (Table 7). These FN estimates on ages 1+ flounder were high and variable before 1995, ranging from a low of 0.74 in 1982 to a high of 2.22 in 1988 (Figure 10). After 1994, ages 1+ fishing mortality rates dropped considerably and remained relatively stable at around 0.50 thereafter.

Ages 1+ abundance in number from ADAPT was relatively high from 1982 to 1984, then flounder abundance fell quickly to the lowest level in the time series at 9.5 million fish in 1989 (Table 7, Figure 10). Ages 1+ abundance rose steadily after 1988 to a peak abundance of 33 million fish in 2000. Note that ages 1+ flounder stock sizes from 2001 to 2006 were predicted from equation 2 in order to adjust for retrospective bias from ADAPT. These predicted biomass levels fell slightly after 2000 and remained relatively stable thereafter at around 25 million fish.

Ages 1+ fishing mortality (FW) (biomass weighted) on flounder were again high and variable before 1995 (Table 7), ranging from a low of 0.74 in 1994 to a high of 1.88 in 1988 (Figure 11). Biomass weighted FW levels on ages 1+ flounder dropped steadily from 1994 through 2002 to below 0.38, but FW levels rose slightly thereafter to a peak of 0.54 in 2006.

Ages 1+ flounder biomass (mt) based on ADAPT was relatively high and stable from 1982 to 1987 at around 25 thousand mt, then flounder biomass dropped quickly to below 16 thousand mt from 1988 to 1994 (Table 7, Figure 11). Thereafter stock biomass began to rise and eventually reached about 30 thousand mt by 2001. Ages 1+ stock biomass remained relatively steady at around 30 thousand mt from 2001 to 2005, but the 2006 biomass level fell by 30% to 23 thousand mt. Note that stock biomass from 2001 to 2006 was predicted by equation 3 in order to adjust for severe retrospective bias from ADAPT.

Surplus production (SURPt) estimates (mt) for flounder were derived via equation 8 from 1982-2006 (Table 7, Figure 12). Surplus production was highest during the early to mid-1980's despite the presence of high fishing mortality (F) rates (Figures 10 and 11). SURPt levels did fall steadily after 1986, presumably due to high fishing mortality, to the lowest level in the time series in 1990. SURPt levels for flounder increased by 20 to 30% after 1991 but never recovered to the pre 1987 levels despite the presence of relatively low and steady fishing mortality from 1997 to 2006 (Figures 10 and 11).

Overfishing Thresholds (Fmsy, Bmsy)

To estimate overfishing thresholds (Fmsy, Bmsy), flounder surplus production estimates from 1982 to 2006 (Figure 12) were fitted to flounder biomass via the Gompertz dynamic production model (equation 9). The Gompertz model accounted for 80% of the variation in surplus production and the parameter estimates (a, b) were determined with high precision (Table 8). However, the plot of model residuals indicated a severe ($P < 0.01$) serial correlation over time (Figure 13), indicating model misspecification. The residuals were large and positive from 1982 to 1986, then the residuals for most years shifted in the opposite direction. Even when the Logistics form of the surplus production model was used instead of Gompertz, the same serial residual pattern persisted over time, indicating that the residual problem was not due to the

configuration of the production model. Due to the clear residual problem with the basic Gompertz and Logistics models, they were not used to estimate overfishing thresholds for flounder.

Since a serial residual pattern persisted in the basic (equation 9) production model, the environmental-dependent form of the Gompertz model (equation 10) was used in the linear stepwise regression model with potential explanatory variables such as striped bass, bluefish and spiny dogfish, mean annual water temperature and winter NAO. The stepwise model selected striped bass abundance (either tag-based or SCAM estimates) as the only negative and significant ($P < 0.01$) explanatory variable (Table 9). No other variables were chosen at the $P < 0.05$ level.

When this extended production model was fitted to the robust regression procedure, all parameters (a, b, c) estimates were highly significant ($P < 0.0001$) (Table 8). This production model with striped bass effects explained 83% of the variation in flounder surplus production from 1982-2006. Moreover, the serial residual pattern present in the basic production model virtually disappeared (Figure 14) ($P < 0.49$) when striped bass abundance was added as a second variable to the production model. These findings are consistent with the Predation Hypothesis, indicating that flounder productivity has recently been eroded by enhanced striped bass predation.

This extended production model with striped bass predatory effects was then used to estimate flounder overfishing thresholds (F_{msy} , B_{msy}). The resulting overfishing threshold (F_{msy}) for flounder was 0.64 (80% C.I.: 0.51 to 0.77) and the biomass threshold was 32,500 mt (80% C. I: 25,900-39,200 mt) (Table 8). All of the ages 1+ fishing mortality (FW) rates (biomass weighted) on flounder from 1982 to 1994 exceeded the F_{msy} threshold of 0.64 (Figure 16), indicating that overfishing had occurred on flounder from 1982 to 1994. However, all subsequent FW estimates were below the F_{msy} threshold, suggesting that overfishing was corrected by additional management measures imposed during the early to mid 1990's. By contrast, although ages 1+ biomass (mt) has risen steadily since 1989 (Figure 15), except for the 2001 ages 1+ stock biomass of 33,900 mt, all other ages 1+ biomass estimates have remained below the estimated B_{msy} threshold of 32,500 mt (Figure 16). Recent (2002-2005) biomass levels have approached the B_{msy} threshold, but the 2006 biomass level of 22,900 mt represented a 30% drop and is well below the B_{msy} threshold of 32,500 mt. Since fishing mortality rates (FW) have stabilized below the F_{msy} threshold since 1995, the recent lack of stock biomass growth is likely due largely to enhanced striped bass predation and not overfishing.

Stock –Recruitment Effects

The Beverton-Holt version ($b = 1.0$) of the Shepherd S-R (equation 11) model was fitted to age 0 recruitment and spawning stock biomass (mt) estimates (Table 3) from 1982-2006 using iterative reweighted least squares regression. The S-R model converged but the parameter estimates (A , K_p) did not differ significantly ($P < 0.05$) from zero (Table 10, Figure 17). Moreover, the residual plot over time indicated the presence of significant ($P < 0.0005$) serial correlation in the residuals (Figure 18). The residuals were large and positive from 1982 to 1987 then the residuals became smaller and mostly negative (Figure 17), indicating model misspecification.

When the Ricker version ($b = 2.0$) of the S-R model was fitted to the S-R data (Table 3), the model converged and the parameter estimates (A , K_p) were highly significant ($P < 0.0001$)

(Table 10, Figure 19). However, the residual pattern from the Ricker Model (Figure 20) looked almost exactly like the atypical residual pattern from the Beverton-Holt S-R model. When bluefish and dogfish abundance, as well as lagged (t-1, t-2) mean annual temperature and lagged winter NAO were added separately to the extended Ricker model (equation 12), the resulting exponent (c) for each of these variables did not differ significantly ($P < 0.05$) from zero. However, when striped bass abundance was added as a second explanatory variable, the model explained 91% of the recruitment variation, all three parameter estimates (A, K_p , c) were highly significant ($P < 0.0001$) (Table 10, Figure 21) and, most importantly, the anomalous residual pattern seen in the basic Beverton-Holt and Ricker S-R models virtually disappeared (Figure 22). These findings are consistent with the Predation Hypothesis, indicating that the transmission of age 0 recruits to the adult stock has been recently impeded due to enhanced striped bass predation.

Management Implications and Scientific Advice

My results indicate that density-dependent processes play a much greater role in stabilizing flounder abundance than is assumed in the current stock assessment (Terceiro 2006). The main conclusion from the last stock assessment (Terceiro 2006) is that flounder have been overfished since at least 1982 despite the implementation of catch quotas on commercial fisheries beginning in 1990 and a steady decline in fishing mortality (F) since 1995. The current assessment results show that flounder stock biomass has not yet reached the biomass threshold of 44,760 mt because F has remained too high. The important conclusion from the last assessment that summer flounder have remained overfished for at least 25 years largely depends on the degree of compensatory density-dependent mortality inherent to the flounder stock. It is widely recognized that the magnitude of F_{msy} and the level of resilience to exploitation depends on the degree of density-dependent compensation (Quinn and Deriso 1999). The current assessment has assumed that little if any compensation occurs for flounder and therefore used an F_{max} of 0.28 from the YPR model as a proxy for F_{msy} . In this report, F_{msy} was estimated directly to be 0.64 based on the extended Gompertz model that assumes moderate to high density-dependent compensation. My findings indicate that the flounder were overfished before 1995 when ages 1+ F estimates exceeded my F_{msy} , but that extensive management measures imposed during the early to mid 1990's enabled F to drop below the overfishing threshold. The very strong fit of both the production and dome-shaped Ricker models suggests that moderate to strong density-dependent mortality is evident in the summer flounder stock, allowing the flounder stock to absorb the effects of relatively high ($F < 0.64$) fishing mortality. My findings of moderate to high density-dependent compensation for summer flounder is consistent with their suite of life history traits that include early female maturation (age 2) (Almeida et al 1992), relatively rapid somatic growth and a relatively short lifespan (12 years) (Dery 1988). My F_{msy} threshold of 0.64 is well within the range of F_{msy} levels reported from four earlier studies (Chang and Pacheco 1976; Gibson 2000; Crecco 2000; Armstrong 2000). They reported F_{msy} thresholds (F_{msy} : 0.45-0.82) for summer flounder that always exceeded the F_{max} level of 0.28 used in the current assessment, and were clearly closer to my F_{msy} estimate of 0.64 based on the Gompertz production model. These earlier findings are consistent with my results, suggesting that summer flounder are under at least partial density-dependent control and are thus more resilient to fishing pressure than previously thought.

The possibility for further rebuilding of summer flounder biomass beyond the B_{msy} level of 32,500 mt over the next five years is more uncertain due to the recent rise in predatory mortality. My findings indicate that the rapid build-up in stock biomass inferred from 2001 to 2006 based on ADAPT is overstated due to persistent retrospective bias. When the recent (2001-2006) abundance estimates from ADAPT were adjusted downward by 20 to 50% to account for retrospective bias, the rate of stock rebuilding after 2000 was minimal. My results suggest that enhanced predation by striped bass on young flounder provides the most plausible explanation for the recent stagnation of flounder population growth and age 0 recruitment to the adult stock. Moreover, the inclusion of striped bass effects in both the extended Ricker S-R and Gompertz models was the only variable examined thus far that removed the recurring residual problem that constantly plagued the Beverton-Holt S-R model in previous assessments (Terceiro 2006). The fact that the exponent for striped bass predation was negative and highly significant ($P < 0.0001$) in both the extended Ricker S-R and Gompertz surplus production models is not surprising, given that annual changes in age 0 recruitment largely govern the net changes in fish surplus production (Walters and Martell 2004).

It is widely recognized that statistical evidence (regression and production models) alone does not demonstrate causality, but recent empirical evidence is wholly consistent with the Predation Hypothesis involving striped bass. Due to the success of striped bass management, striped bass abundance has risen steadily to record levels in mid and north Atlantic coastal waters from 1993 to 2006 (Crecco 1994; Nelson 2007). The results of coast-wide tagging of striped bass since 1987 indicate that abundance of ages 7+ stripers has risen nearly four-fold coast-wide from 1998 to 2006 (Versak 2007). Moreover, coast-wide tag returns from Maine to North Carolina indicate that striped bass are found mostly in state waters (Versak 2007) that clearly overlap the temporal and spatial distribution of summer flounder. Since striped bass are known to consume finfish prey up to 60% of their own body length (Manooch 1973), it is reasonable to hypothesize that striped bass abundance has reached such high abundance that flounder population growth would be severely impeded by enhanced striped bass predation. Larger (> 70 cm) striped bass have been reported to switch their prey preference from herring and small menhaden to spot, flounder and weakfish in Chesapeake Bay (Hartman and Brandt 1995; Walter and Austin 2003). Striped bass grow rapidly to a large size (>90 cm) that can easily prey on smaller adult flounder, are highly piscivorous (Hartman 1993), and are efficient diurnal and nocturnal predators along inshore waters (Nelson et al 2006). Recent studies on river herring and American shad in the Connecticut River (Savoy and Crecco 2004), as well as the coast-wide weakfish stock assessment (Kahn et al 2005; Uphoff 2005) concluded that enhanced striped bass predation was the most reasonable hypothesis to explain the unexpected declines of these finfishes under low exploitation. Nelson et al (2006) reported that the average consumption level (mt) of Atlantic menhaden by striped bass along the Massachusetts coast from 1997 to 2000 was 12 times greater than the total menhaden commercial landings (mt) from Massachusetts. Finally, Bax (1998), in a comprehensive review of finfish predatory effects, noted that finfish predation accounts for between 2 and 35 times the finfish losses (mt) reported annually to commercial fisheries throughout the world.

The management implications and long-term prognosis for flounder in the presence of enhanced striped bass predation are challenging and somewhat ambiguous. In the current assessment (Terceiro 2006), natural mortality (M) in both the ADAPT and YPR models was assumed constant at 0.20 for all ages and years. It is widely recognized from recent multispecies models (Hollowed et al 2000; Walters et al 2005) that the scientific foundation supporting the

constant M assumption in single species assessments is highly questionable, particularly for younger fish. Moreover, unless long-term tagging studies are conducted, there is no other way to scientifically verify the assumption of a fixed M estimate. Despite the lack of scientific foundation around the fixed M assumption, the constant M approach is used in nearly all single species assessments conducted along the Atlantic coast. The wide acceptance of constant M occurs because time varying M is often difficult to estimate with confidence, and because a constant M assumption greatly reduces the number of parameters to be estimated in age structured VPA models. The constant M assumption implies that no systematic shifts in finfish mortality and productivity associated with predation, inter-specific competition and environmental effects are possible. Thus, the constant M assumption greatly limits our ability to explore for enhanced predation effects that may result in a systematic rise in M particularly among younger and smaller prey, as well as temporal shifts in environmental factors that can adversely affect recruitment, somatic growth and maturation. Since the choice of a fixed M value can greatly affect the magnitude of the F_{max} reference point, more detailed analyses are therefore required to determine whether or not M has change systematically over time due to enhanced predation and shifts in environmental variables. In future flounder stock assessments, the assumption that trophic and environmental effects are constant over time should be critically examined. The potential impacts of trophic and environmental effects on summer flounder should also be integrated into fisheries models and rigorously tested as a potential alternative hypothesis to the Overfishing Hypothesis.

The highly significant exponent (c) for striped bass predation from the extended Ricker S-R and Gompertz models is consistent with the presence of enhanced density-independent mortality although, under certain conditions, enhanced finfish predation can give rise to compensatory or even depensatory density-dependent mortality (Tsou and Collie 2001). In any event, increased predation should result in a systematic rise in M , particularly for smaller flounder. This phenomenon plus the apparent emergence of a flounder recruitment bottleneck between ages 0 and 1 makes stock rebuilding of flounder via further management measures an exceedingly difficult task. As indicated by Spencer and Collie (1997), fish stocks that are subject to moderate to severe predatory mortality, often undergo a sudden and persistent drop or prolonged stagnation in recruitment and surplus production over time even when fishing mortality rates have remained low for several years. Note that biomass weighted fishing mortality (F_W) on ages 1+ flounder reported here have been below my estimated F_{msy} threshold of 0.64 since 1995. If density-independent predation remains high, flounder recruitment and biomass may remain unresponsive to favorable climatic events and to further fishery management restrictions. The phenomenon of enhanced predation mortality could lead to a persistent stagnation in future flounder rebuilding unless predation pressure reverts back to pre 1998 levels.

There is a prevailing consensus that overfishing has had an adverse effect on many fish stocks throughout the world (Myers et al 1997; Hutchings and Reynolds 2004; Scheffer et al. 2001). However, the catch-at-age models traditionally used to estimate fishing mortality over time have almost always assumed a low and constant ($M = 0.20$) natural mortality rate. Under the assumption of low and constant M , a rise in total mortality (Z) over time is always construed as a rise in fishing mortality (F). Thus in nearly all single species assessments, projection models always predict rapid stock rebuilding following sizeable reductions in F . But if the wide-spread assumption of constant M is violated and M actually rises systematically over time due to enhanced predatory mortality, the results from projection models of rapid stock rebuilding would

be highly misleading. Clearly there are finfish stocks throughout the world where natural mortality (M) approximates 0.20 for some period of time or can otherwise vary without trend. But as shown here for flounder and elsewhere for American shad (Savoy and Crecco 2004) and weakfish (Kahn et al 2005; Uphoff 2005), a systematic rise in predatory mortality on age 0 flounder coupled with relatively low and stable fishing mortality (F) can either greatly extend the timetable for rebuilding, or can simply eliminate the likelihood of any stock rebuilding even after the imposition of stringent conservation measures. A similar case study linking a rise in natural mortality to the lack of stock rebuilding has been recently addressed for Northern cod stocks (Shelton et al 2006). Several cod stocks on the Grand Banks have been under a landings moratorium since 1996, but stock rebuilding of these depleted stocks has, as of 2006, not been realized. Shelton et al (2006) reported that the lack of stock rebuilding of eight cod stocks was attributed to a recent rise in natural mortality from 0.2 prior to 1990 to 0.4 to 0.8 due mainly to enhanced gray seal (*Halichoerus grypus*) predation. In the case of summer flounder, the probability of successful stock rebuilding via management intervention is reduced further by the emergence of a recruitment bottleneck at age 0 as indicated by results from the extended Ricker S-R model. Due to recent increases in the minimum size on flounder, age 0 flounder are now only slightly susceptible to direct harvest, so a coast-wide moratorium would have little if any impact on the recently emergent recruitment bottleneck.

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Table 1 Flounder Ages 1+ mean stock size (NAV, millions) from ADAPT and predicted stock size (PREDNAV), ten trawl surveys and the recreational cpue in numbers (RelNt) from 1982-2006. Trawl survey indices include the federal spring (NMFSS), federal fall (NMFSF), federal winter (NMFSW), Massachusetts spring (MA), Connecticut Long Island Sound spring (CTS) and fall (CTF), Rhode Island fall (RIF) and fixed station (RIFIX), New Jersey (NJ) and Delaware (DE).

YEAR	nav	prednav	NMFSS	NMFSF	NMFSW	MA	CTS	CTF	RIF	RIFIX	NJ	DE	RelNt
1982	41.70	25.86	2.27	1.95		2.03			0.81				0.78
1983	42.20	37.20	0.95	1.94		2.12			0.68				1.21
1984	43.40	41.16	0.66	1.91		0.30	0.63	1.00	1.24				1.36
1985	31.80	22.95	2.38	1.33		1.41	0.44	1.19	0.61				0.67
1986	26.80	31.40	2.14	1.05		1.64	0.95	1.72	2.89				0.99
1987	33.90	28.76	0.93	0.83		1.22	1.06	1.40	1.22				0.89
1988	24.70	22.95	1.50	0.83		1.24	0.50	1.42	0.56		4.09		0.67
1989	9.50	8.45	0.32	0.26		0.43	0.10	0.14	0.07		0.69		0.12
1990	14.00	16.62	0.72	0.45		0.36	0.35	0.87	0.78	0.27	1.58	1.40	0.43
1991	18.30	22.69	1.08	0.94		0.09	0.64	1.26	0.23	0.15	2.98	1.35	0.66
1992	13.20	20.84	1.20	1.33	12.29	0.70	0.56	1.02	1.30	0.34	3.65	0.36	0.59
1993	21.20	31.13	1.27	0.84	13.60	0.68	0.51	1.11	0.72	0.25	5.91	2.36	0.98
1994	22.90	24.01	0.93	0.78	12.05	3.02	0.86	0.55	0.18	0.13	1.17	0.44	0.71
1995	24.00	23.22	1.09	1.47	10.93	1.38	0.28	0.54	0.73	0.05	3.42	1.47	0.68
1996	30.30	27.18	1.76	1.85	31.25	0.84	0.96	2.19	2.24	0.94	8.03	1.33	0.83
1997	28.70	25.33	1.06	2.76	10.28	2.01	1.00	2.50	1.80	0.69	14.70	1.24	0.76
1998	28.30	30.60	1.19	4.14	7.76	2.00	1.31	1.72	0.54	0.43	8.80	1.55	0.96
1999	32.50	32.19	1.60	3.58	11.06	2.26	1.44	2.68	3.10	0.87	10.41	1.49	1.02
2000	33.20	27.18	2.14	3.10	15.76	3.49	1.79	1.91	2.55	2.52	6.40	1.05	0.83
2001	38.40	29.29	2.69	2.88	18.59	2.09	1.75	4.42	2.14	0.97	5.06	2.30	0.91
2002	44.80	21.64	2.47	2.57	22.68	2.12	3.19	6.12	4.70	1.92	15.33	0.32	0.62
2003	51.00	23.48	2.91	2.80	35.62	2.41	3.42	3.39	5.47	3.73	9.24	0.58	0.69
2004	49.70	24.01	3.03	3.88	17.77	0.78	1.84	1.95	2.86	2.07	9.76	0.14	0.71
2005	55.30	27.70	1.81	2.59	12.89	2.02	0.80	2.41	3.29	2.46	8.08	0.43	0.85
2006	46.90	23.22	1.77	2.25	21.04	2.00	0.86	2.19	3.00			0.40	0.68

Table 2. Flounder ages 1+ stock biomass (BAV, mt*1000) from ADAPT and predicted biomass (PREDBAV), five trawl surveys and the recreational cpue in kg/effort (RelWt) from 1982-2006 trawl survey indices include the federal spring (NMFSSK), federal fall (NMFSFK), federal winter (NMFSWK) and spring and fall CT (CTSK, CTFK),

YEAR	bav	predbav	nmfssk	nmfsfk	nmfswk	ctsk	ctfk	RelWt
1982	21.20	19.25	1.11	0.90				0.41
1983	25.00	21.93	0.53	0.47				0.65
1984	25.30	25.58	0.38	0.65				0.84
1985	20.80	19.47	1.20	0.87				0.40
1986	19.70	20.13	0.82	0.45				0.51
1987	20.60	21.65	0.38	0.28				0.67
1988	16.30	18.98	0.68	0.11				0.49
1989	7.67	7.10	0.24	0.08				0.07
1990	9.40	10.72	0.27	0.19				0.22
1991	10.00	11.11	0.35	0.17				0.22
1992	10.40	13.04	0.46	0.49	4.90	0.35	0.87	0.28
1993	12.40	14.99	0.48	0.04	5.50	0.27	0.85	0.36
1994	14.90	15.35	0.46	0.35	6.03	0.48	0.47	0.38
1995	18.20	15.58	0.46	0.83	4.81	0.16	0.43	0.39
1996	21.30	17.31	0.67	0.45	12.35	0.53	1.61	0.42
1997	21.00	18.63	0.61	0.92	5.54	0.60	1.84	0.49
1998	23.30	22.61	0.76	1.58	5.13	1.15	1.77	0.63
1999	22.50	24.77	1.01	1.66	7.99	1.09	2.27	0.67
2000	27.80	29.56	1.70	1.82	12.59	1.35	1.77	0.73
2001	33.40	33.91	2.16	1.55	15.68	1.21	3.19	0.82
2002	36.30	29.93	2.29	1.40	18.43	2.38	4.41	0.62
2003	44.80	30.58	2.42	1.93	27.48	2.45	3.27	0.62
2004	44.70	31.32	2.43	3.06	15.25	1.69	1.74	0.65
2005	45.70	32.48	1.59	1.83	10.32	0.67	1.93	0.88
2006	42.00	22.93	1.34		15.93	0.61	1.35	0.52

Table 3. Flounder recruitment (REC) from ADAPT, spawning stock biomass (SSB2, mt) and various environmental predictors, note that SSB2 from 1982-2000 from ADAPT and 2001-2006 from predicted model. Ages 7+ striped bass (STRIP) abundance from tagging (STRIP) and ages 8+ striper abundance from VPA.

YRC	REC	SSB2	temp	nao	blue	STRIP	stripvpa	DGFISH
1982	74300	22600.0	11.10	2.00	0.68		463	1.31
1983	80300	24400.0	12.00	0.74	0.69		333	3.33
1984	48400	21900.0	12.00	-0.38	0.48		245	0.92
1985	48600	19900.0	12.00	-0.03	0.52		232	0.35
1986	53400	18400.0	11.90	0.34	0.68		337	10.59
1987	43900	19100.0	11.80	0.10	0.78		412	5.58
1988	13000	10900.0	11.10	2.86	0.43	1770	495	5.74
1989	27300	7000.0	11.30	2.37	0.46	2830	628	10.19
1990	30400	9900.0	12.10	0.21	0.55	1996	1375	6.78
1991	28700	8700.0	12.60	1.68	0.38	1526	1918	14.21
1992	32300	9900.0	11.50	1.43	0.40	1715	2329	11.06
1993	33200	12300.0	11.70	1.80	0.27	2177	2621	8.94
1994	35300	15100.0	11.60	2.44	0.28	3728	3052	10.22
1995	38700	19000.0	12.50	-2.32	0.28	3308	3496	5.91
1996	28200	20000.0	10.60	0.18	0.26	4869	3865	3.40
1997	28900	20300.0	10.90	0.80	0.30	4397	4498	6.68
1998	31000	22000.0	12.10	0.98	0.24	3739	4372	6.72
1999	29200	22300.0	12.90	1.85	0.26	3921	4421	6.61
2000	33200	25400.0	12.20	-0.50	0.33	7454	4982	2.49
2001	33400	32945.4	12.50	0.79	0.38	9339	6934	18.14
2002	36600	29858.4	12.70	0.40	0.35	11371	7133	16.34
2003	27900	30625.4	11.50	-0.20	0.38	12168	7669	20.80
2004	38000	31262.5	11.70	-0.11	0.48	14727	8028	27.28
2005	17000	30738.6	11.80	-0.82	0.42	11865	6927	26.07
2006	30300	22326.4	13.00	1.83	0.39	12852	5915	33.76

Table 4. Pearson Correlation (r) Analyses between relative abundance (catch/tow) of each of the 11 candidate tuning indices and ages 1+ flounder abundance over the converged portion from ADAPT. This analysis was conducted on ages 1+ abundance over three converged time periods (1982-1998, 1982-1999, 1982-2000). An asterisk (*) indicates a statistically significant ($P < 0.05$) correlation between the ages 1+ tuning index and ages 1+ abundance.

Index	Time Periods (Years)					
	82-98		82-99		82-00	
	r	P	r	P	r	P
NMFSS	0.34	0.18	0.35	0.15	0.38	0.11
NMFSF	0.48	0.05*	0.48	0.04*	0.50	0.03*
NMFSW	0.31	0.49	0.20	0.63	0.23	0.56
MA	0.39	0.13	0.41	0.09	0.42	0.08
CTS	0.51	0.05*	0.54	0.03*	0.56	0.02*
CTF	0.46	0.09	0.50	0.05*	0.52	0.03*
RIF	0.24	0.35	0.27	0.27	0.31	0.20
RIFIX	0.58	0.10	0.68	0.03*	0.65	0.03*
NJ	0.72	0.01*	0.76	0.004*	0.72	0.005*
DE	0.25	0.52	0.28	0.44	0.19	0.58
RelNt	0.79	0.0001*	0.79	0.0001	0.79	0.0001*

Table 5. Pearson Correlation (r) Analyses between relative abundance (kg/effort) of each of the 6 candidate tuning indices and ages 1+ flounder biomass (mt) and SSB over the converged portion from ADAPT. This analysis was conducted on ages 1+ biomass and SSB over three converged time periods (1982-1998, 1982-1999, 1982-2000). An asterisk (*) indicates a statistically significant ($P < 0.05$) correlation between the ages 1+ tuning index and ages 1+ biomass and SSB.

Index	Time Periods (Years)							
	82-00		82-98		82-99		82-00	
	SSB				Biomass			
	R	P	r	P	r	P	r	P
NMFSSk	0.66	0.002*	0.51	0.04*	0.54	0.02	0.63	0.004*
NMFSFk	0.66	0.002*	0.63	0.007*	0.62	0.006*	0.69	0.001*
NMFSSWk	0.57	0.11	0.34	0.45	0.40	0.33	0.62	0.07
CTSk	0.85	0.004*	0.66	0.10	0.72	0.04*	0.82	0.007*
CTFk	0.82	0.007*	0.70	0.08	0.75	0.03*	0.73	0.02*
RelWt	0.82	0.0001*	0.88	0.0001*	0.88	0.0001*	0.89	0.0001*

Table 6. STEPWISE REGRESSION MODEL relating the 11 tuning indices to ages 1+ numbers, ages 1+ biomass and SSB for the three converged time periods (1982-1998, 1982-1999, 1982-2000). Flounder ages 1+ abundance, biomass and SSB from ADAPT were used as dependent variables. Independent variables selected by the stepwise model at the $P < 0.05$ level were the recreational cpue in number (RelNt) and weight (RelWt) and the NEFSC spring index in kg/tow (NMFSSk). The parameter estimates (Est) and their standard error (SE) are give as well as the coefficient of determination (r^{**2}).

Parameter	Time Periods (Years)							
	82-00		82-00		82-99		82-98	
	SSB				Ages +Biomass			
	Est	SE	Est	SE	Est	SE	Est	SE
Intercept	4.40	1.76	4.30	1.40	3.46	1.58	2.68	1.57
NMFSSk	5.90	1.93	4.94	1.54	6.32	1.96	7.28	1.96
RelWt	19.26	3.63	23.10	2.89	23.32	2.87	24.25	2.79
r^{**2}	0.79		0.88		0.88		0.88	
	Ages 1+ numbers							
Intercept			5.28	3.80	5.15	4.46	5.08	4.63
RelNt			26.28	4.66	27.58	5.30	27.72	5.58
r^{**2}			0.68		0.63		0.62	

Table 7. Combination of estimated and predicted ages 1+ abundance, coast-wide landings (#), catch weighted F ages 1+ biomass, landings biomass and biomass weighted F and surplus production, 1982-2006.

YEAR	nav2	nav2l	catchn	FN2	bav2	bav2l	catchw	Fw2	surpbb
1982	41741.99	42186.33	31100	0.7411	21200.0	25000.0	18960	0.8208	22760.0
1983	42186.33	43434.67	42600	0.9951	25000.0	25300.0	26500	1.0537	26800.0
1984	43434.67	31760.21	46200	1.2288	25300.0	20800.0	26100	1.1323	21600.0
1985	31760.21	26774.55	35300	1.2061	20800.0	19700.0	20400	1.0074	19300.0
1986	26774.55	33900.41	32500	1.0713	19700.0	20600.0	20900	1.0372	21800.0
1987	33900.41	24732.20	30200	1.0301	20600.0	16300.0	18300	0.9919	14000.0
1988	24732.20	9517.85	38000	2.2190	16300.0	7600.0	21800	1.8243	13100.0
1989	9517.85	14033.94	14300	1.2144	7600.0	9400.0	10300	1.2118	12100.0
1990	14033.94	18316.34	12200	0.7542	9400.0	10000.0	8000	0.8247	8600.0
1991	18316.34	13185.28	20100	1.2761	10000.0	10400.0	11300	1.1078	11700.0
1992	13185.28	21166.18	18600	1.0829	10400.0	12400.0	11800	1.0351	13800.0
1993	21166.18	22903.52	17600	0.7987	12400.0	14900.0	10800	0.7912	13300.0
1994	22903.52	23991.90	18700	0.7975	14900.0	18200.0	12200	0.7372	15500.0
1995	23991.90	30334.12	14800	0.5449	18200.0	21300.0	10500	0.5317	13600.0
1996	30334.12	28649.71	18500	0.6273	21300.0	21000.0	11600	0.5485	11300.0
1997	28649.71	28259.64	14500	0.5096	21000.0	23300.0	10300	0.4650	12600.0
1998	28259.64	32531.04	15000	0.4935	23300.0	22500.0	11600	0.5066	10800.0
1999	32531.04	33174.50	14100	0.4292	22500.0	27800.0	10900	0.4334	16200.0
2000	33174.50	29285.80	15700	0.5027	27800.0	33912.4	13800	0.4472	19912.4
2001	29285.80	21635.60	13200	0.5185	33912.4	29934.6	11900	0.3728	7922.2
2002	21635.60	23482.20	12200	0.5408	29934.6	30576.8	11300	0.3735	11942.2
2003	23482.20	24009.80	13000	0.5475	30576.8	31319.2	12900	0.4168	13642.4
2004	24009.80	27703.00	14300	0.5531	31319.2	32482.6	13800	0.4326	14963.4
2005	27703.00	23218.40	13900	0.5459	32482.6	22931.6	13400	0.4836	3849.0
2006	23218.40	23218.00	12635	0.5442	22931.6	22932.0	12300	0.5364	12300.4

Table 8. Parameter estimates (a, b, c) for summer flounder derived from the Gompertz external production model with and without striped bass predation. The overfishing thresholds (F_{msy} , B_{msy}) were derived from the Gompertz model with striped bass effects. The models were fitted to the LTS Robust regression model. The standard error (SE) is given for each parameter estimate (a, b, Strip), as well as the coefficient of determination (r^2). Overfishing thresholds (F_{msy} , B_{msy}) are presented with 80% CI.

LTS Robust Regression Model Without Striped Bass

Parameter	Mean	SE	P
a	8.05	1.08	< 0.0001
b	-0.74	0.11	< 0.0001
r^2	0.80		

LTS Robust Regression With Striped Bass Effects

Parameter	Mean	SE	P
a	7.29	1.01	< 0.0001
b	-0.64	0.10	< 0.0001
c**	-1.36	0.34	<0.0001
r^2	0.83		

Threshold	Mean	80% Confidence Limit
F_{msy}	0.64	0.51 – 0.77
Fcoll	1.74	1.39 – 2.09
B_{msy}	32,500 mt	29,900 – 39,200 mt

** c is the slope estimate for striped bass effects

TABLE 9. Stepwise model relating the abundance of three candidate predators (bluefish, striped bass and spiny dogfish) and two environmental variables (t and t-1 lagged mean annual water temperature and deviations in the winter NAO) to surplus production from the Gompertz Production model. The stepwise model selected striped bass abundance (SCAM based) as the only significant ($P < 0.02$) explanatory variable. The standard error (SE) is given for each parameter estimate (a, b, c), as well as the coefficient of determination (r^2).

Least Squares Fit

Parameter	Mean	SE	P
a	7.84	1.20	< 0.0001
b	-0.70	0.12	< 0.0001
c**	-1.04	0.42	< 0.02
r^2	0.85		

** c is the slope estimate for striped bass effects

Table 10. Shepherd S-R Parameter estimates (A, Kp, c) for summer flounder with and without striped bass predation. The S-R models were fitted by nonlinear iterative re-weighted least squares regression. The shape parameter (b) was fixed at 1.0 for the Beverton-Holt model and at 2.0 for the dome-shaped Ricker model. The approximate standard error (SE) is given for each parameter estimate (a, Kp, Strip), as well as the coefficient of determination (r^2).

Parameter	Beverton-Holt			Ricker		
	Mean	SE	P	Mean	SE	P
A	23.65	15.45	<0.34	4.16	0.51	<0.0001
Kp	1488.3	1056.5	< 0.47	17532.0	1903.3	< 0.0001
r^2	0.85			0.81		

Ricker S-R With Striped Bass Effects

Parameter	Mean	SE	P
a	4.46	0.31	< 0.0001
Kp	22171.6	1948.5	< 0.0001
c **	-0.000092	0.000012	<0.0001
r^2	0.91		

** c is the exponent for striped bass effects

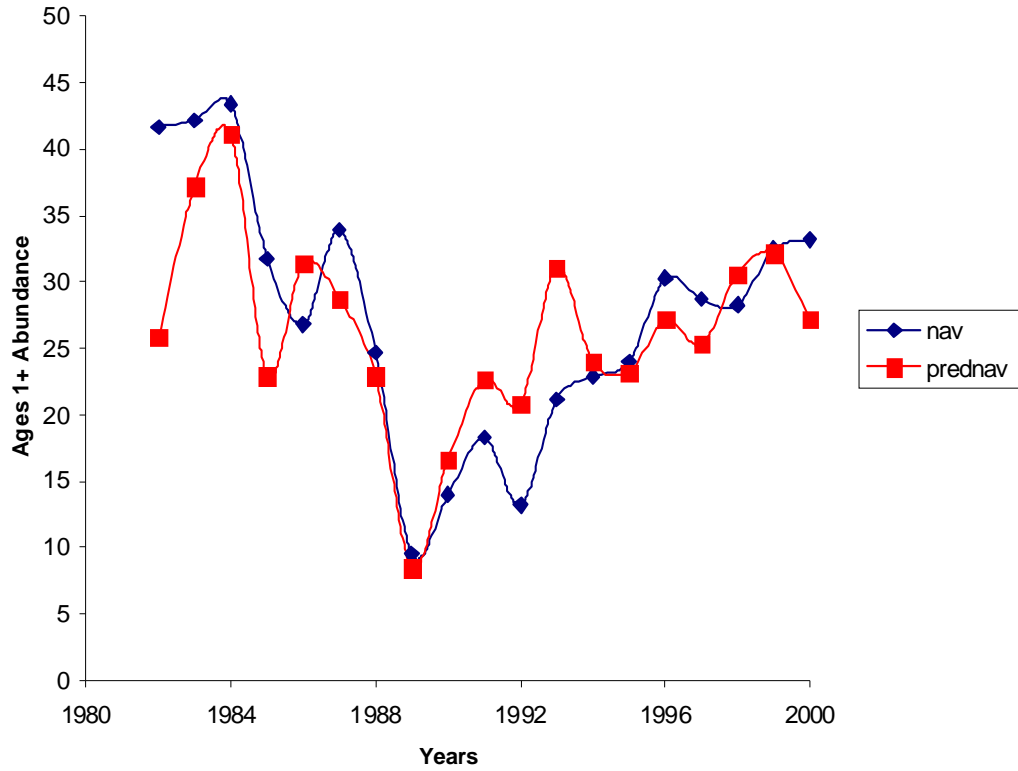


Figure 1. Plot of estimated and predicted ages 1+ flounder numbers over the converged portion (1982-2000) of ADAPT.

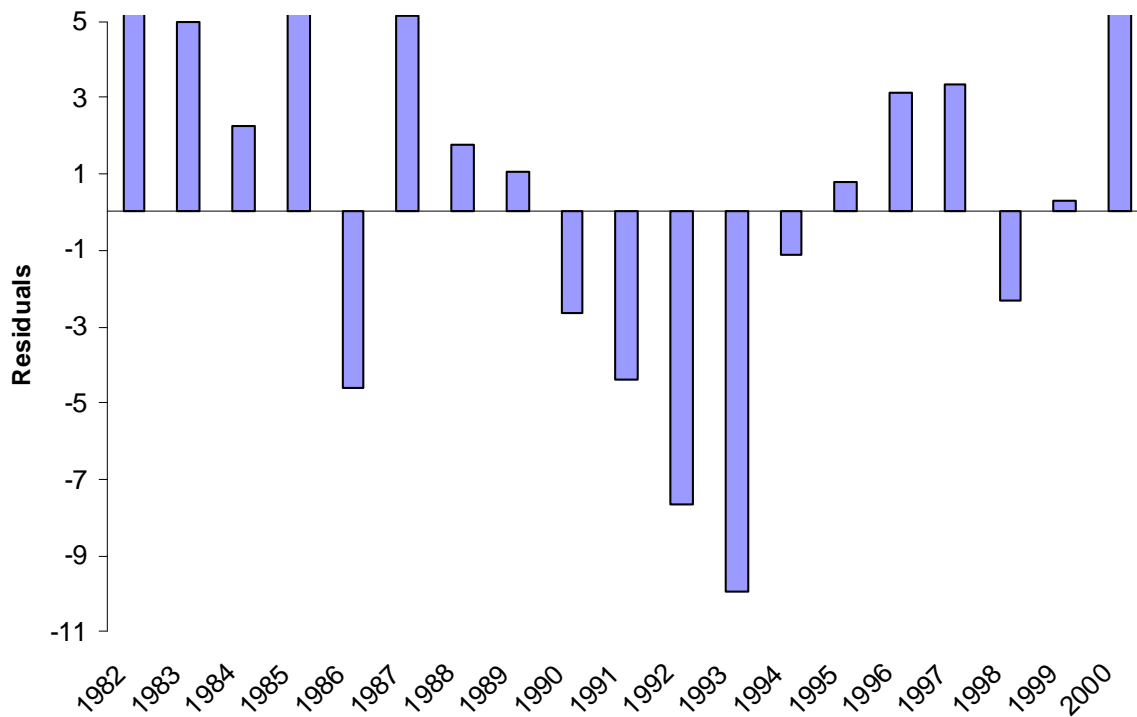


Figure 2. Residual plot for estimated and predicted ages 1+ numbers over time 1982-2000.

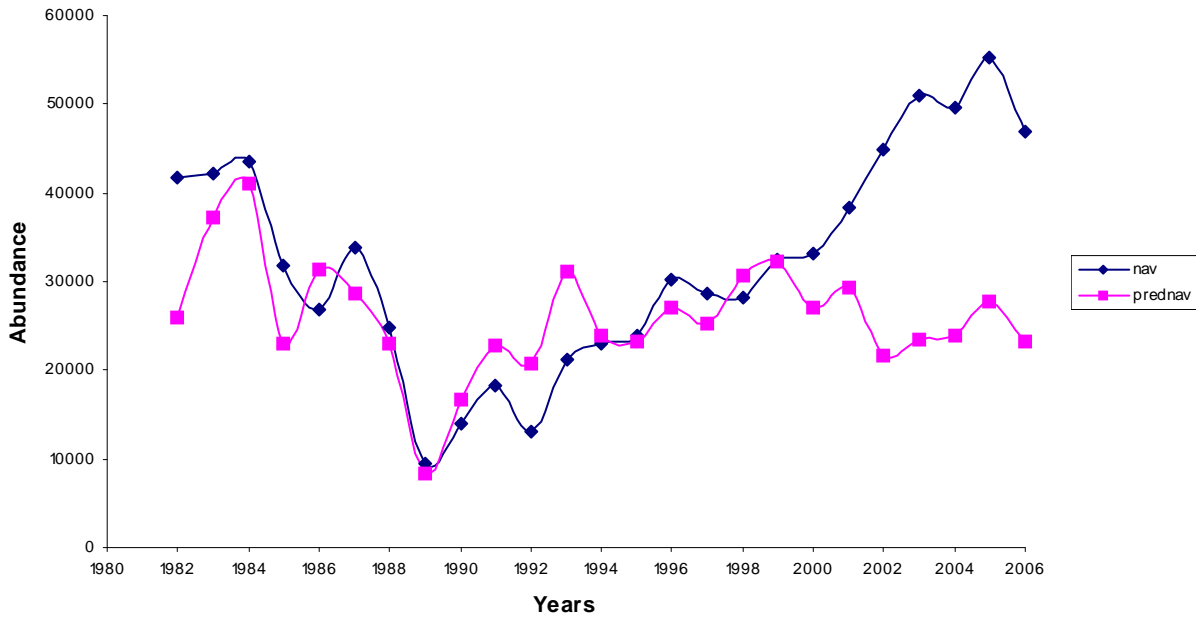


Figure 3. Estimated and predicted ages 1+ flounder abundance, 1982-2006.

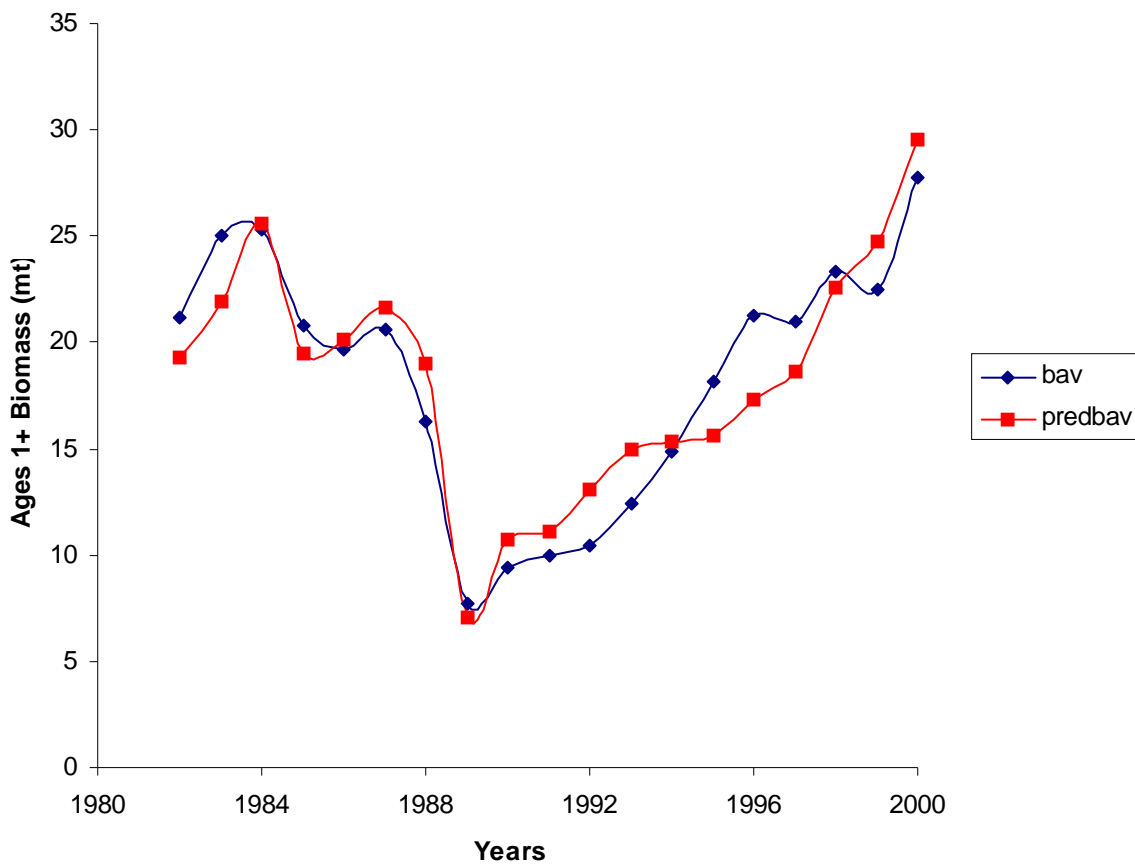


Figure 4. Plot of Estimate and predicted ages 1+ flounder biomass over the converged portion (1982-2000) of ADAPT.

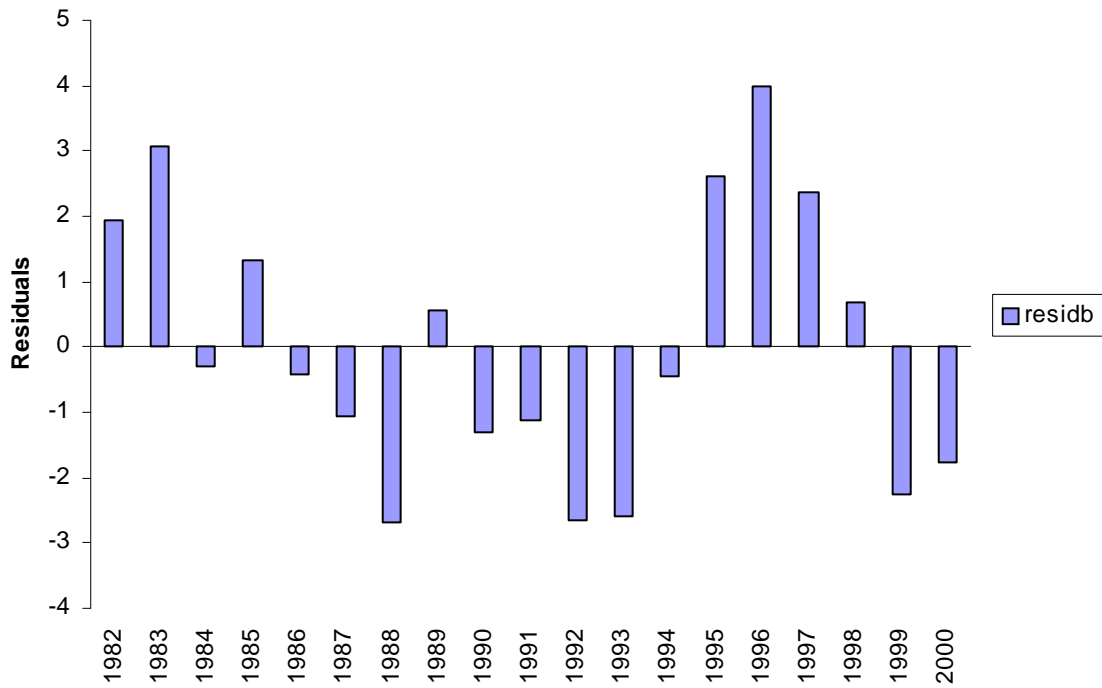


Figure 5. Residual plot for estimated and predicted ages 1+ biomass over time 1982-2000.

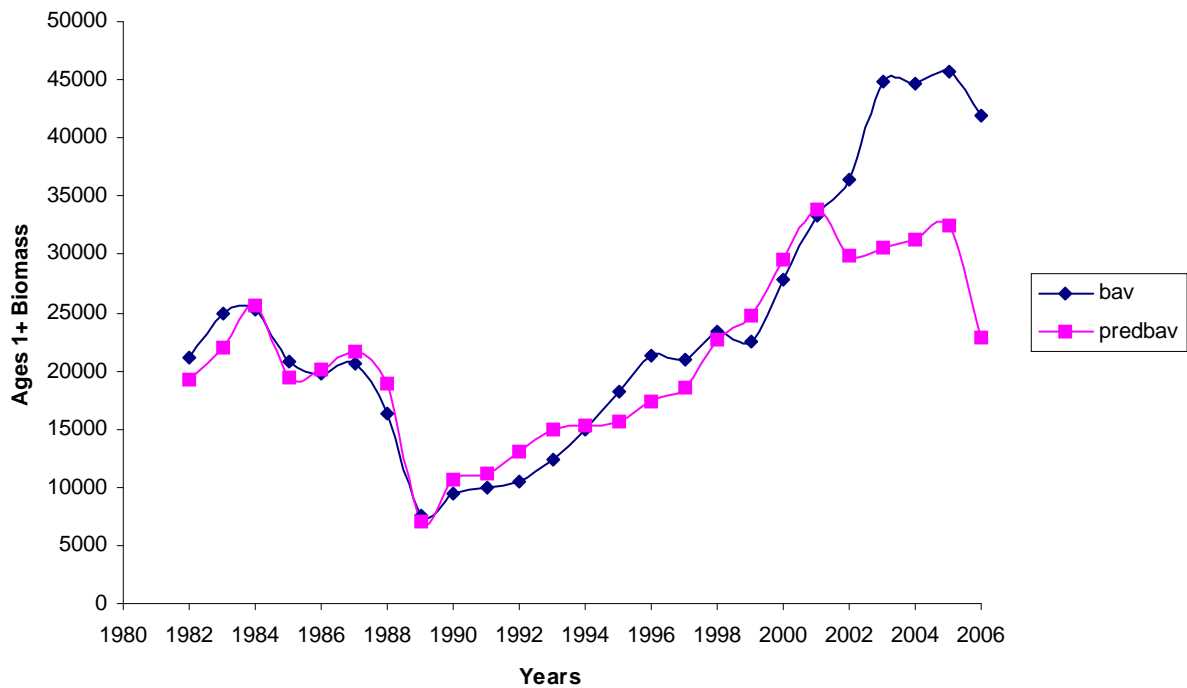


Figure 6. Estimated and predicted ages 1+ flounder biomass, 1982-2006.

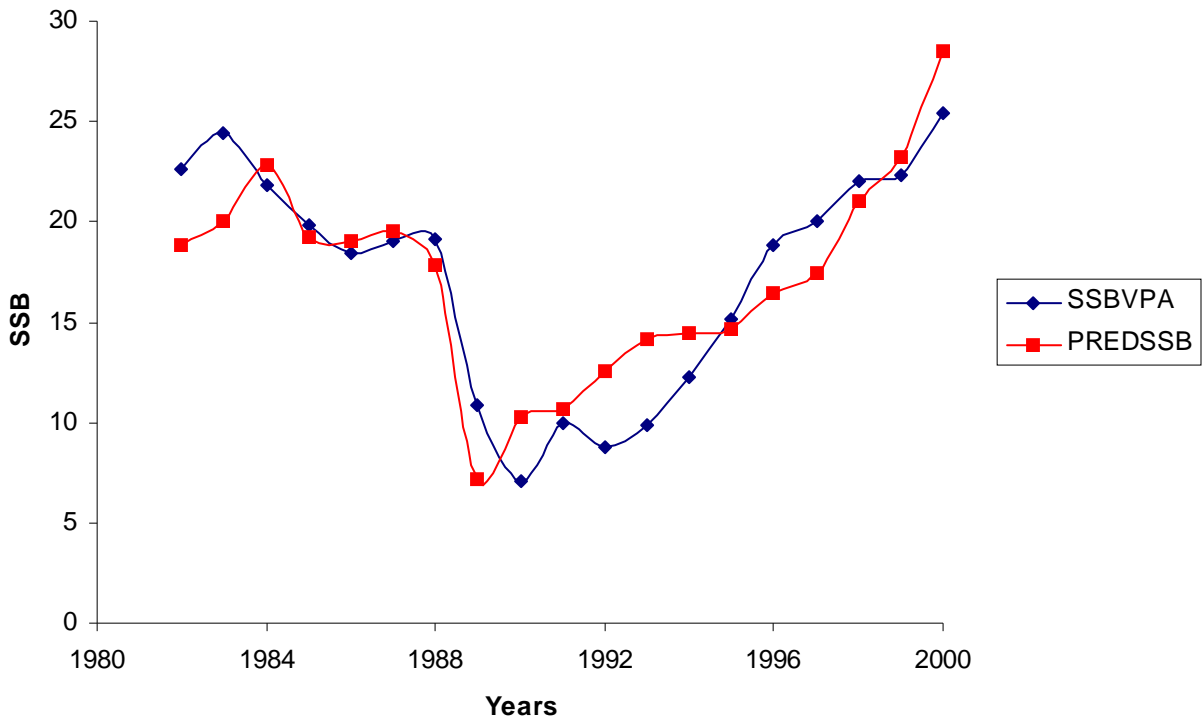


Figure 7. Plot of estimated and predicted ages 1+ flounder ssb over the converged portion (1982-2000) of ADAPT

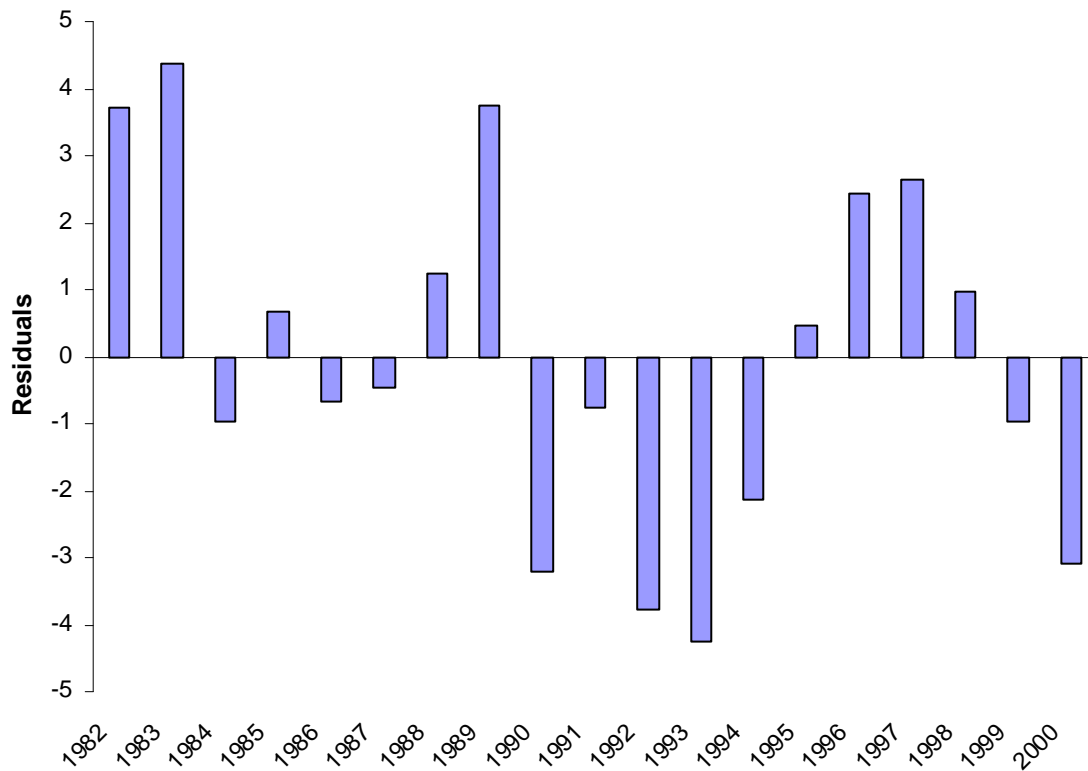


Figure 8. Residual plot for estimated and predicted SSB over time 1982-2000.

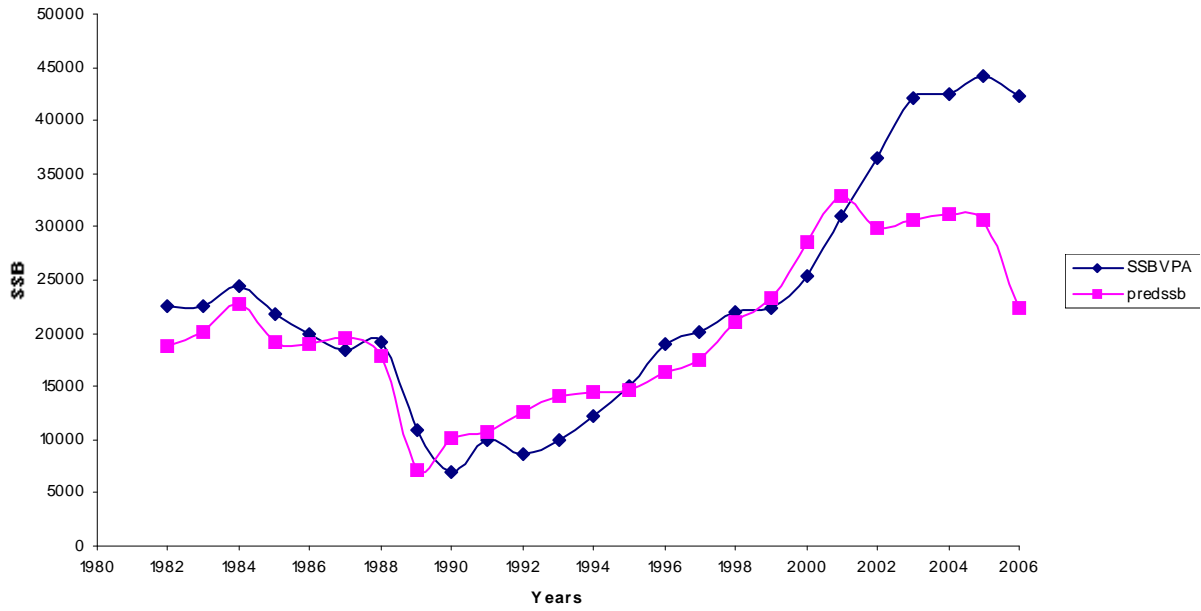


Figure 9. Estimated and predicted flounder SSB, 1982-2006.

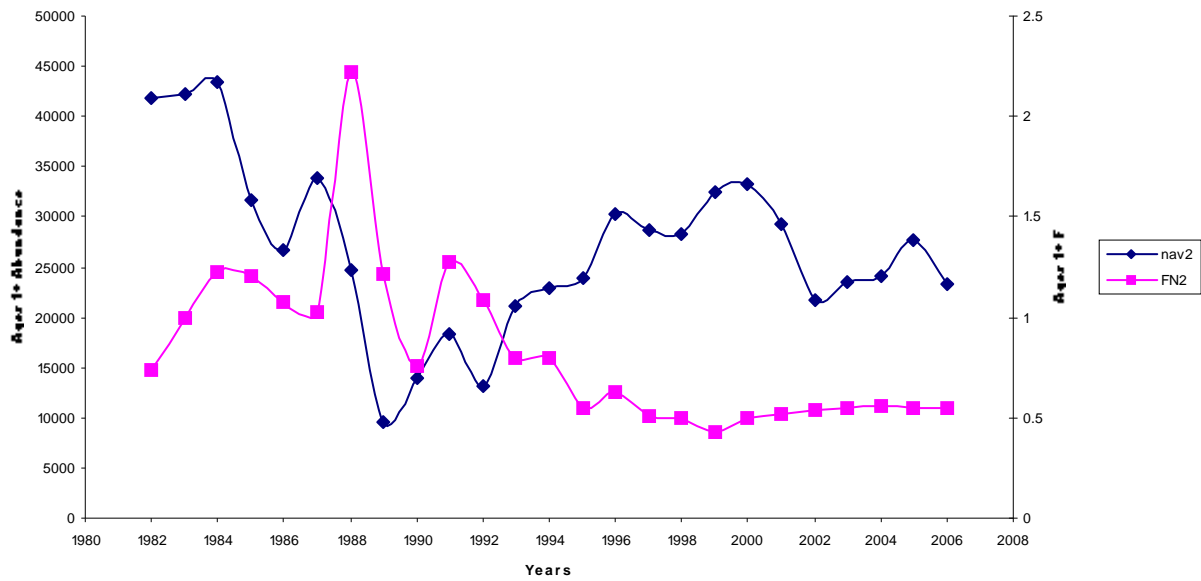


Figure 10. Relationship between ages 1+ fishing mortality and ages 1+ abundance, 1982-2006.

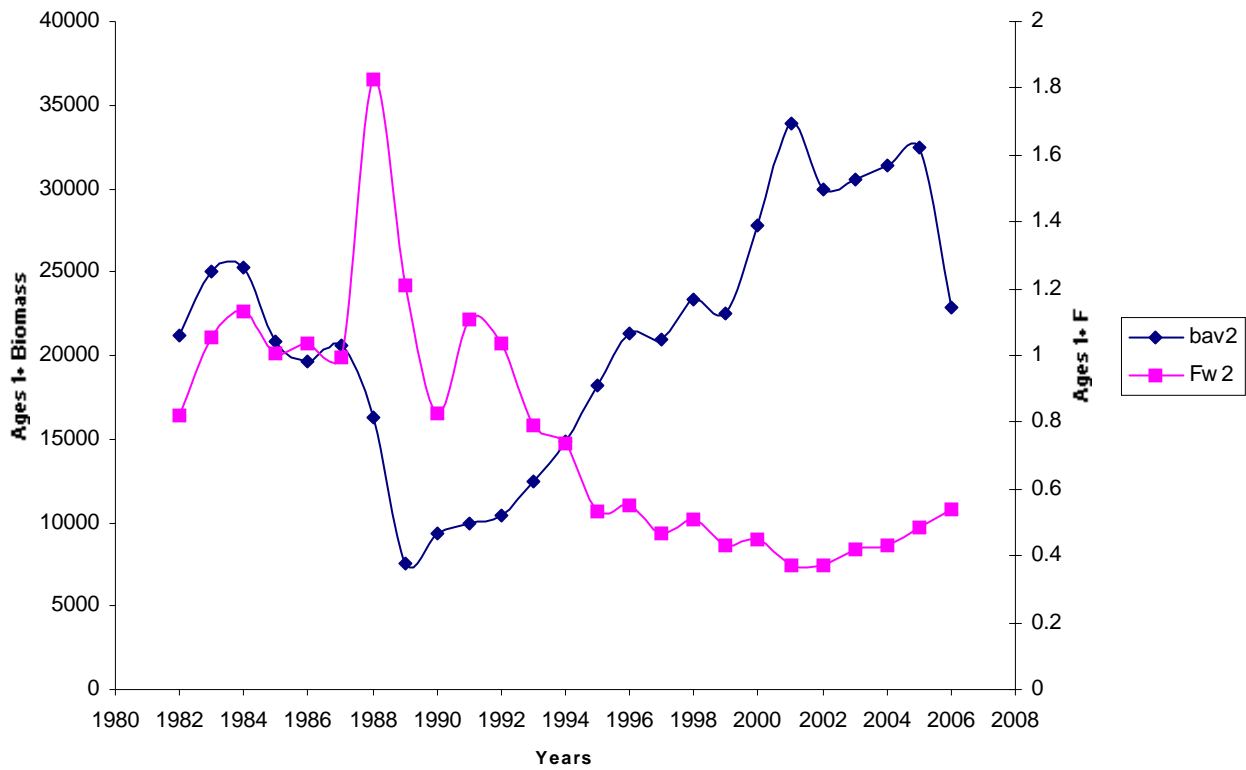


Figure 11. Relationship between biomass weighted F and ages 1+ flounder biomass 1982-2006.

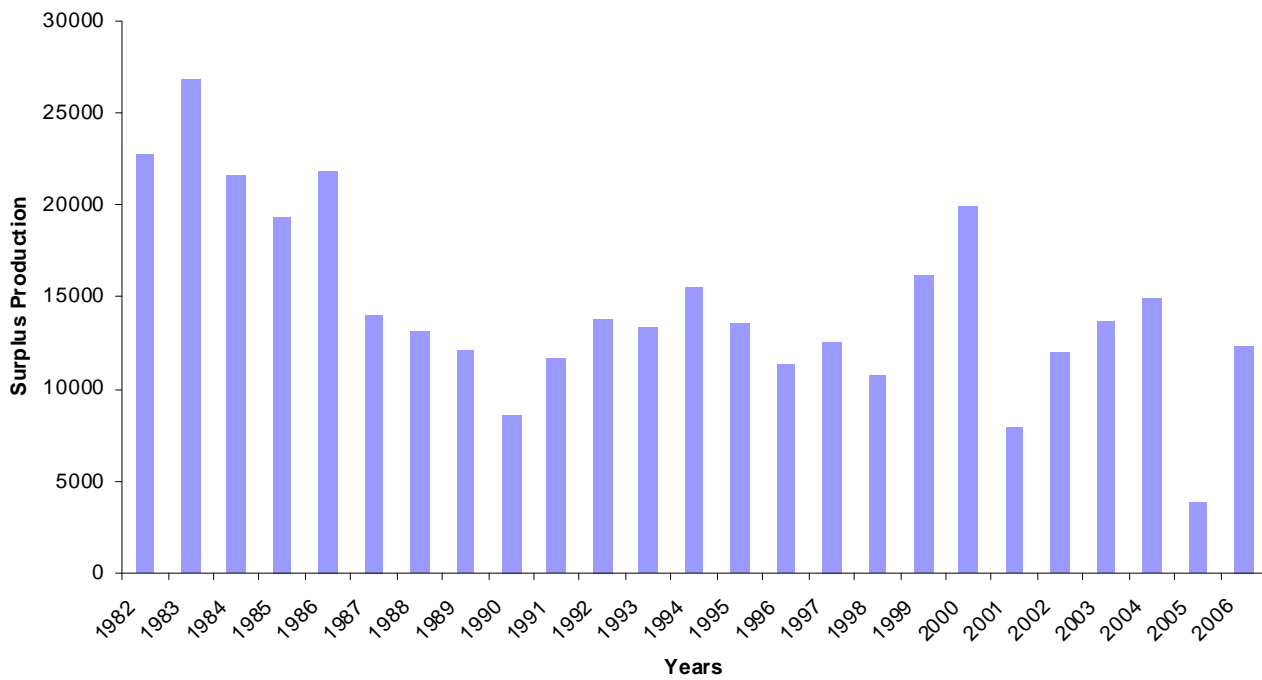


Figure 12. Plot of flounder surplus production, 1982-2006.

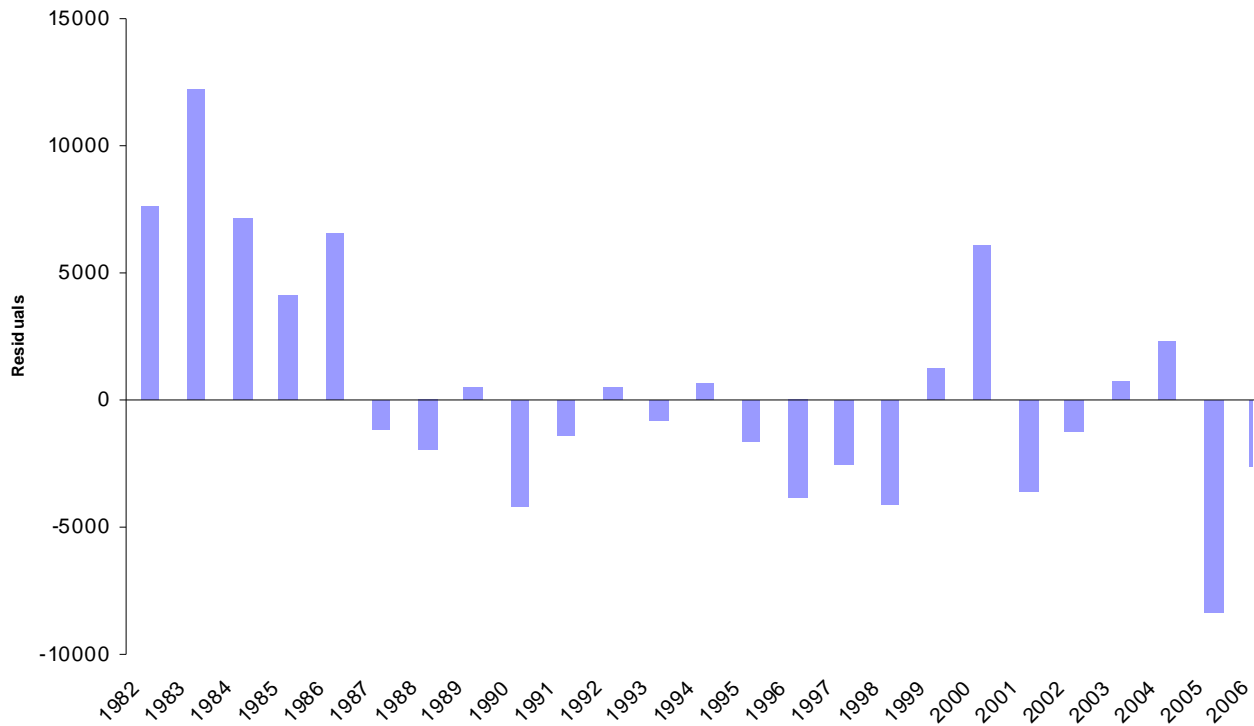


Figure 13. Residual plot for Gompertz Surplus Production Model for flounder without predation, 1982-2006.

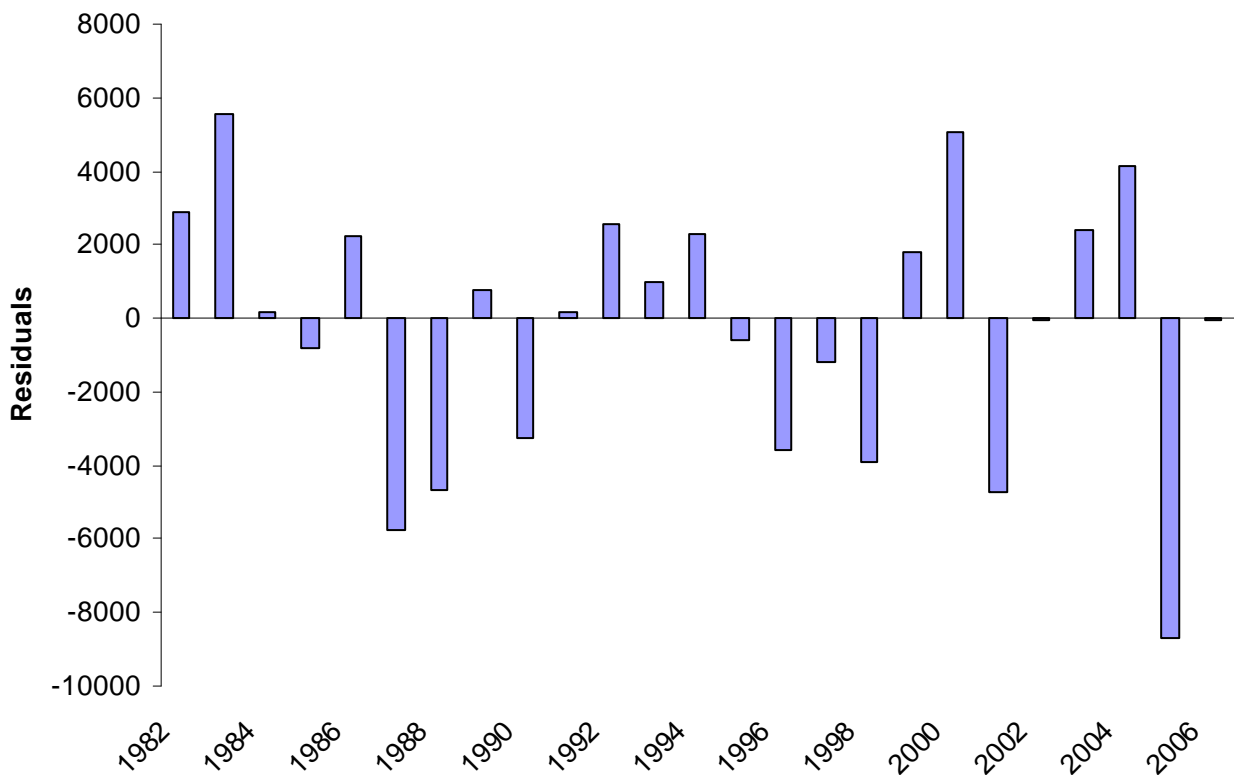


Figure 14. Residual plot from Gompertz model for flounder with striper predation effects, 1982-2006

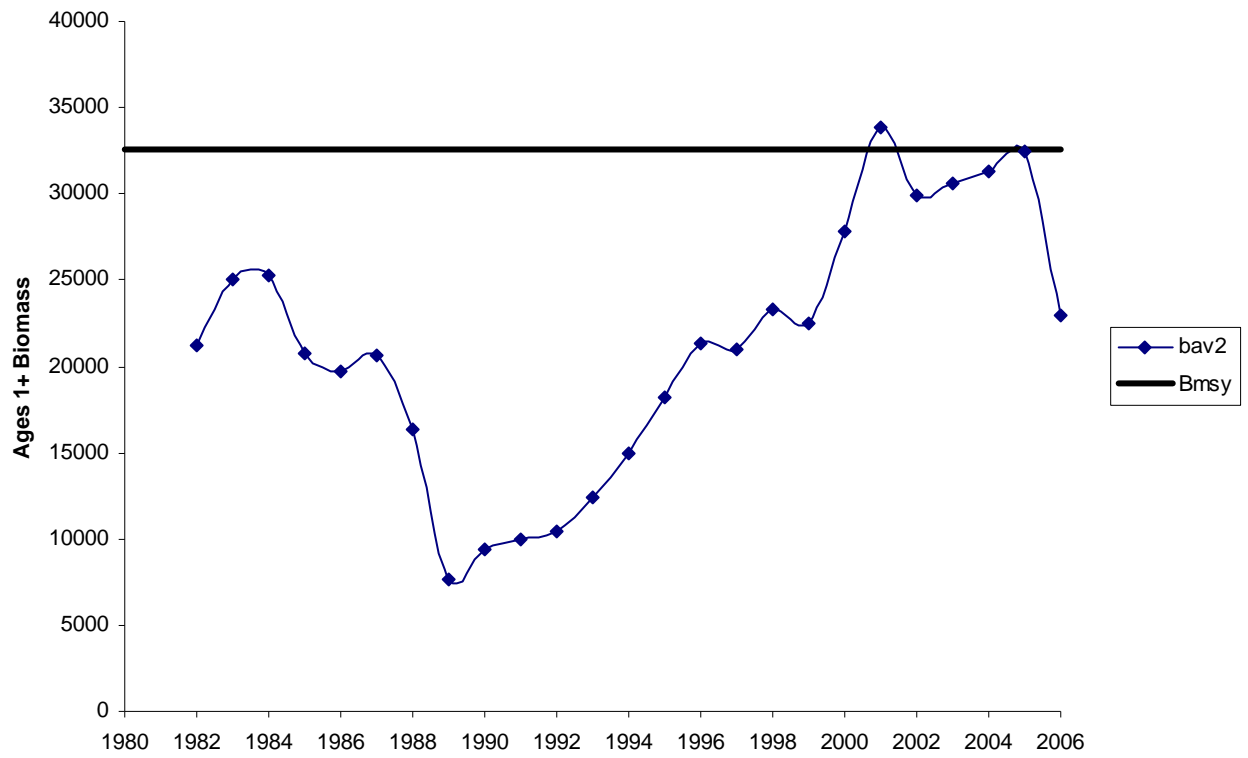


Figure 15. Plot of ages 1+ biomass and Bmsy from Gompertz model with predation 1982-2006.

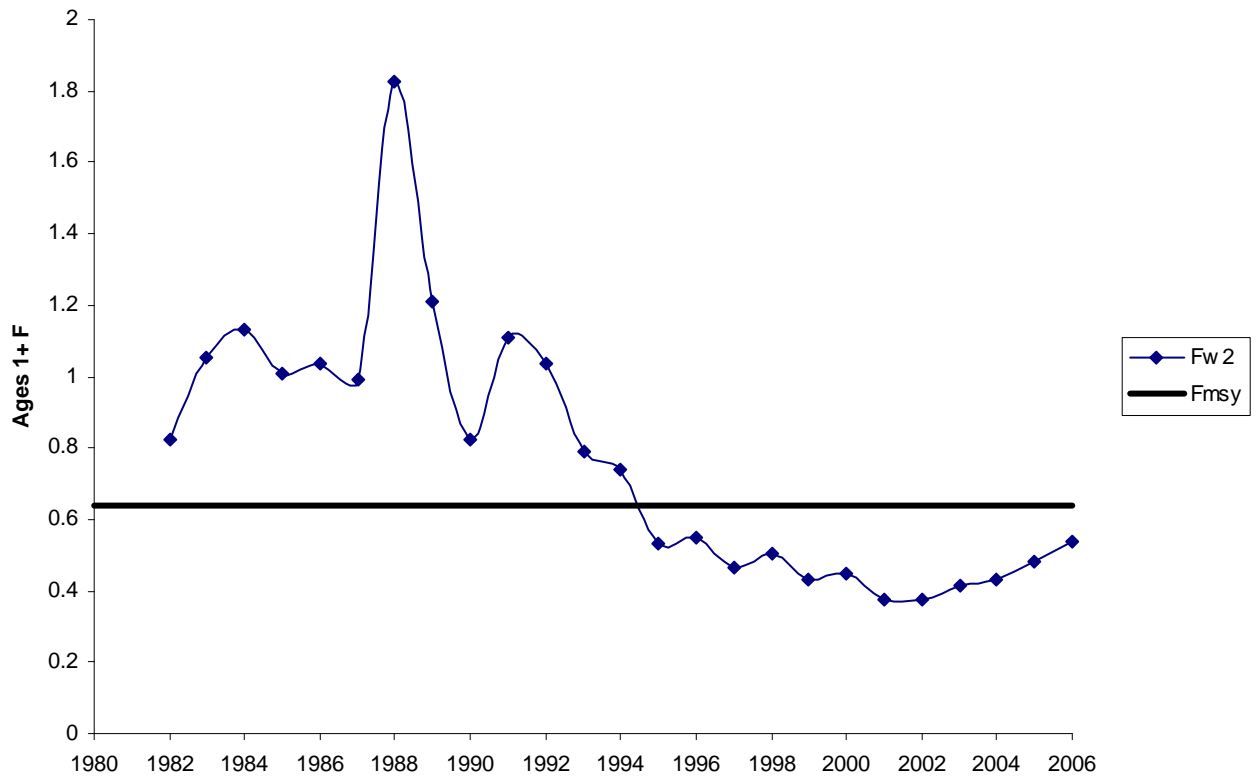


Figure 16. Plot of ages 1+ biomass weighted F and Fmsy from Gompertz model with predation, 1982-2006.

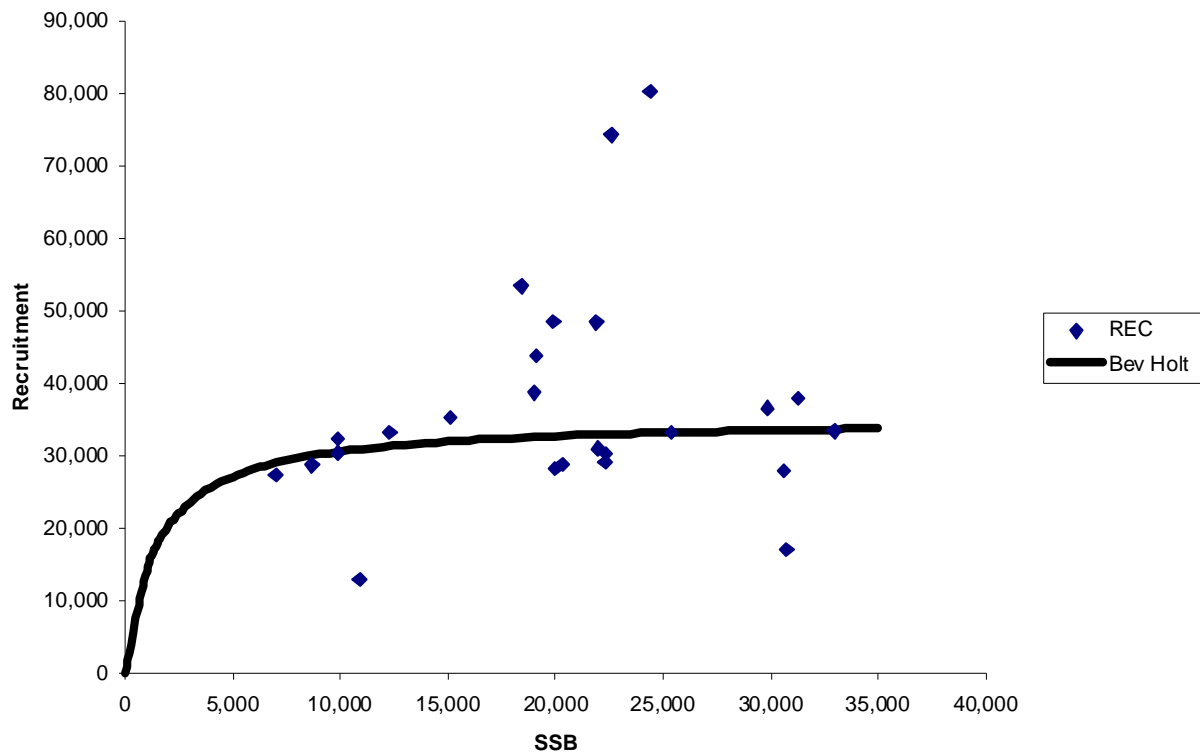


Figure 17. Stock-Recruitment fit to the Beverton-Holt model, 1982-2006.

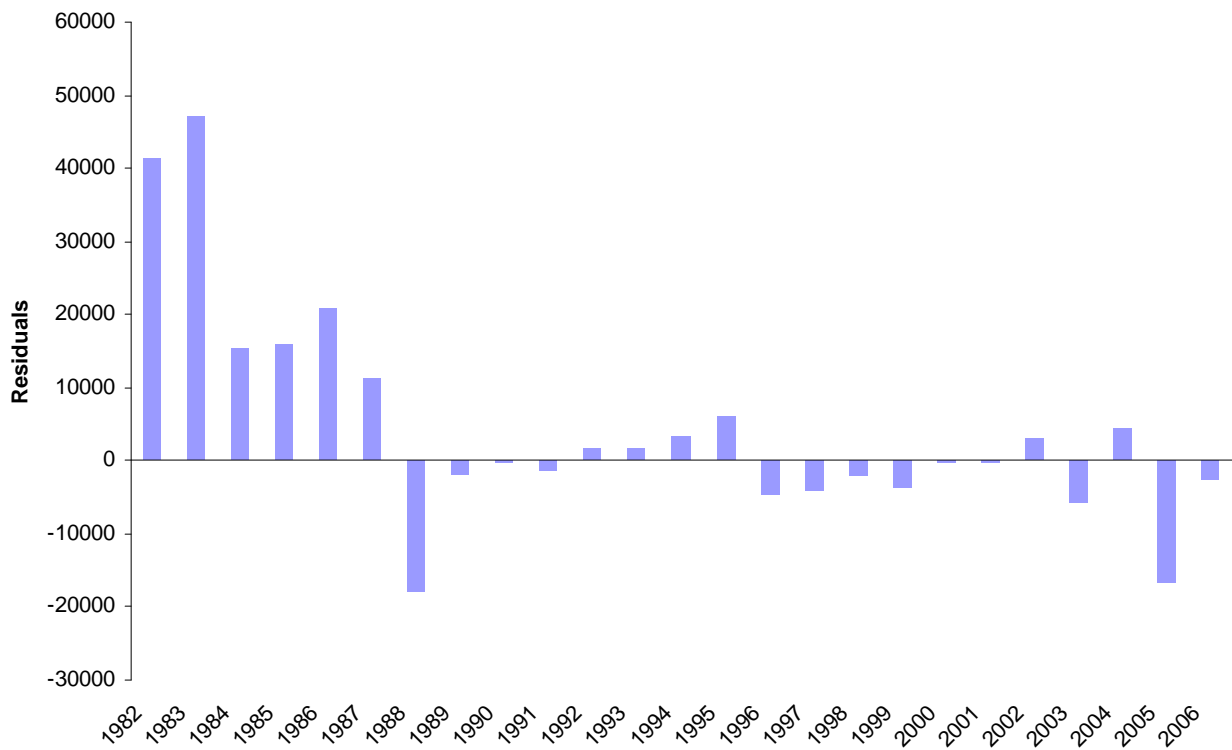


Figure 18. Plot of residuals for Beverton-Holt Model, 1982-2006

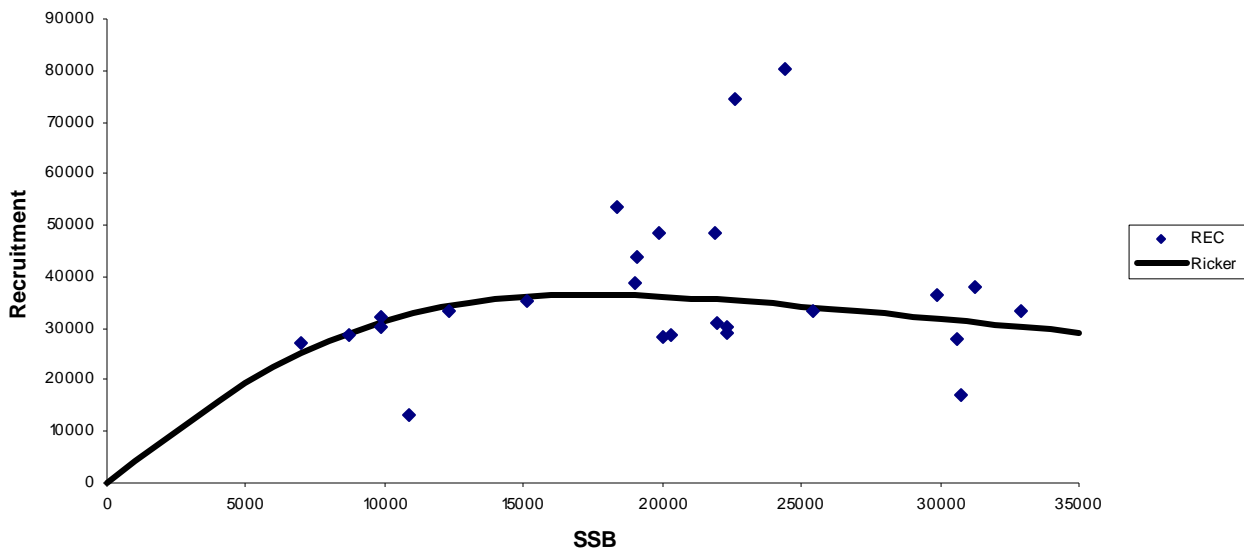


Figure 19. Stock-recruitment fit to the Ricker S-R model, 1982-2006.

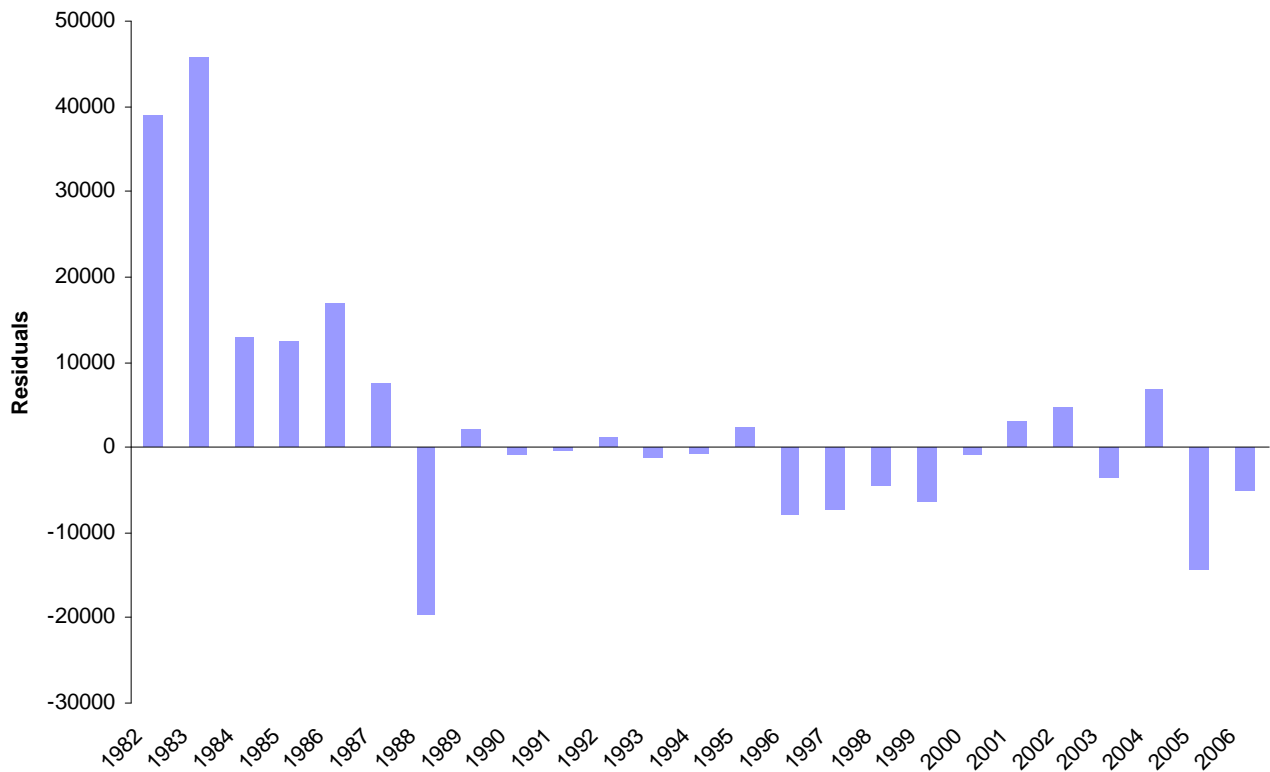


Figure 20. Plot of residuals for the Ricker Type Model, 1982-2006.

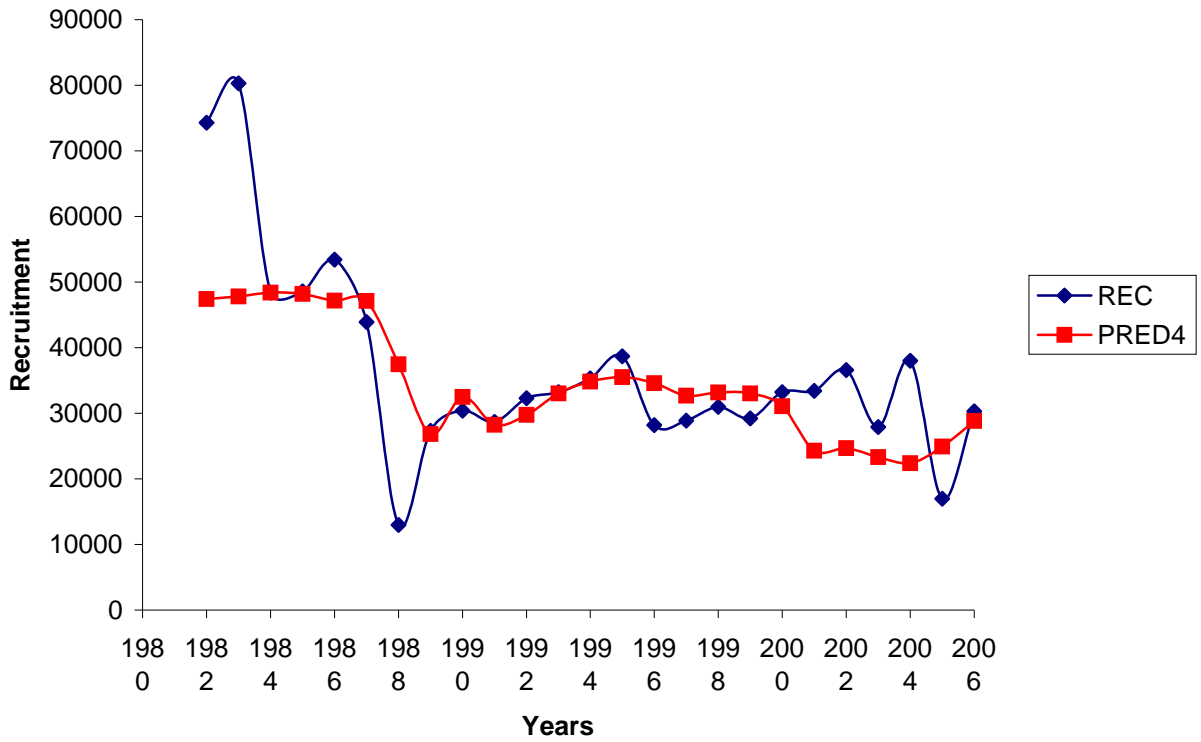


Figure 21. Observed and predicted recruitment from the Ricker Type Model with striped bass predation, 1982-2006.

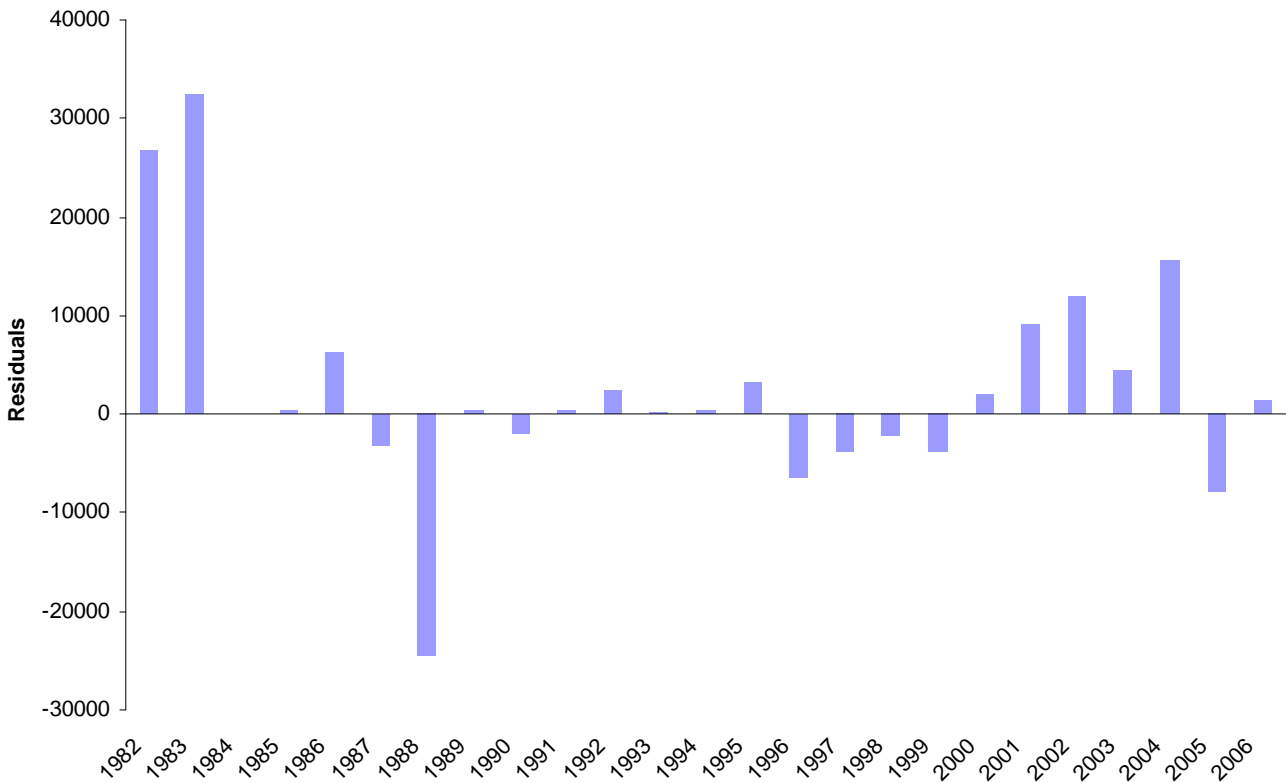


Figure 22. Plot of residuals from the Ricker Type Model with striped bass predation, 1982-2006.

ADAPT VPA BASE RUN (F08 BASE .OUT)

VPA Version 2.7.1

Model ID: Summer flounder: agreed BASE configuration

Input File: C:\F2008\ADAPT\F08_BASE_00.DAT

Date of Run: 19-FEB-2008

Time of Run: 08:54

Levenburg-Marquardt Algorithm Completed 5 Iterations
Residual Sum of Squares = 422.904

Number of Residuals = 823
Number of Parameters = 6
Degrees of Freedom = 817
Mean Squared Residual = 0.517630
Standard Deviation = 0.719465

Number of Years = 25
Number of Ages = 8
First Year = 1982
Youngest Age = 0
Oldest True Age = 6

Number of Survey Indices Available = 51
Number of Survey Indices Used in Estimate = 39

VPA Classic Method - Auto Estimated Q's

Stock Numbers Predicted in Terminal Year Plus One (2007)

Age	Stock Predicted	Std. Error	CV
1	25416.986	0.629488E+04	0.247664E+00
2	10309.217	0.211378E+04	0.205038E+00
3	17336.856	0.313950E+04	0.181088E+00
4	5396.882	0.107440E+04	0.199078E+00
5	4052.447	0.975869E+03	0.240810E+00
6	1050.270	0.596189E+03	0.567654E+00

Catchability Values for Each Survey Used in Estimate

INDEX	Catchability	Std. Error	CV
1	0.141956E-03	0.269635E-04	0.189943E+00
2	0.416467E-03	0.456733E-04	0.109668E+00
3	0.341157E-03	0.456260E-04	0.133739E+00
4	0.337567E-03	0.675095E-04	0.199988E+00
5	0.447993E-03	0.742654E-04	0.165774E+00
6	0.138176E-04	0.196560E-05	0.142253E+00
7	0.379163E-04	0.379567E-05	0.100107E+00
8	0.344239E-04	0.555454E-05	0.161357E+00
9	0.383975E-04	0.476407E-05	0.124072E+00

10	0.652723E-04	0.813949E-05	0.124700E+00
11	0.676126E-04	0.443512E-05	0.655960E-01
12	0.811036E-04	0.103929E-04	0.128143E+00
13	0.756270E-04	0.106850E-04	0.141286E+00
15	0.406577E-04	0.766483E-05	0.188521E+00
16	0.432367E-04	0.710121E-05	0.164240E+00
18	0.168215E-03	0.178525E-04	0.106129E+00
19	0.657295E-04	0.129519E-04	0.197048E+00
21	0.173459E-04	0.278618E-05	0.160625E+00
22	0.184656E-04	0.284132E-05	0.153871E+00
23	0.295921E-04	0.560622E-05	0.189450E+00
24	0.425758E-04	0.678960E-05	0.159471E+00
25	0.107830E-03	0.138240E-04	0.128201E+00
26	0.882136E-04	0.121995E-04	0.138295E+00
27	0.606059E-04	0.105664E-04	0.174347E+00
29	0.111458E-03	0.169981E-04	0.152506E+00
30	0.854502E-04	0.180487E-04	0.211218E+00
31	0.104477E-04	0.217262E-05	0.207952E+00
32	0.209505E-04	0.353428E-05	0.168696E+00
33	0.158198E-03	0.236253E-04	0.149340E+00
34	0.688016E-04	0.153953E-04	0.223764E+00
35	0.436851E-04	0.803555E-05	0.183943E+00
36	0.588380E-04	0.101782E-04	0.172986E+00
40	0.184557E-05	0.398576E-06	0.215963E+00
41	0.281985E-04	0.321951E-05	0.114173E+00
43	0.238811E-03	0.304404E-04	0.127466E+00
44	0.392777E-04	0.583899E-05	0.148659E+00
45	0.818325E-05	0.123329E-05	0.150710E+00
50	0.548734E-05	0.107239E-05	0.195430E+00
51	0.105736E-05	0.214457E-06	0.202823E+00

-- Non-Linear Least Squares Fit --

Default Tolerances Used

Scaled Gradient Tolerance = 6.055454E-06
 Scaled Step Tolerance = 3.666853E-11
 Relative Function Tolerance = 3.666853E-11
 Absolute Function Tolerance = 4.930381E-32

VPA Method Options

- Catchability Values Estimated as an Analytic Function of N
- Catch Equation Used in Cohort Solution
- Plus Group Backward Calculation Method Used
- Rivard Weights Used for JAN-1 Biomass
- Rivard Weights Calculation Used 3 Years for Terminal Year Plus One

- Heincke Rule Used in F-Oldest Calculation
- F-Oldest Calculation in Years Prior to Terminal Year
 Uses Stock Sizes in Ages 3 to 6
- Calculation of Population of Age 0 In Year 2007
 = CDF Using First Age Populations
 Year Range Applied = 1982 to 2005

Stock Estimates

Age 1
 Age 2
 Age 3
 Age 4
 Age 5
 Age 6

Full F in Terminal Year = 0.4413

F in Oldest True Age in Terminal Year = 0.4413

Full F Calculated Using Classic Method

Age	Input Partial Recruitment	Calc Partial Recruitment	Fishing Mortality	Used In Full F	Comments
0	0.020	0.012	0.0068	NO	Stock Estimate in
T+1					
1	0.130	0.162	0.0897	NO	Stock Estimate in
T+1					
2	0.670	0.421	0.2336	NO	Stock Estimate in
T+1					
3	1.000	0.784	0.4346	YES	Stock Estimate in
T+1					
4	1.000	0.605	0.3351	YES	Stock Estimate in
T+1					
5	1.000	1.000	0.5542	YES	Stock Estimate in
T+1					
6	1.000	0.796	0.4413		Input PR * Full F

Catch At Age - Input Data

AGE	1982	1983	1984	1985	1986
0	5344.0	4925.0	4802.0	2078.0	1942.0
1	19423.0	28441.0	26582.0	14623.0	17140.0
2	10149.0	10911.0	15454.0	17979.0	11055.0
3	935.0	2181.0	3180.0	1767.0	3782.0
4	328.0	693.0	829.0	496.0	316.0
5	116.0	323.0	95.0	252.0	140.0
6	67.0	16.0	4.0	30.0	58.0
7	30.0	43.0	10.0	8.0	15.0
AGE	1987	1988	1989	1990	1991
0	1137.0	795.0	960.0	1856.0	1001.0
1	17212.0	20557.0	4790.0	8808.0	12149.0
2	10838.0	14562.0	7306.0	2187.0	7148.0
3	1648.0	2137.0	1692.0	995.0	742.0
4	544.0	644.0	353.0	221.0	217.0
5	25.0	121.0	55.0	30.0	32.0
6	29.0	19.0	9.0	8.0	3.0
7	44.0	21.0	4.0	3.0	1.0
AGE	1992	1993	1994	1995	1996
0	1368.0	1285.0	1638.0	592.0	162.0
1	11197.0	11235.0	10362.0	5828.0	6925.0
2	6026.0	5601.0	6996.0	7303.0	9278.0
3	1125.0	566.0	982.0	1239.0	1785.0
4	151.0	73.0	205.0	397.0	417.0
5	70.0	45.0	26.0	77.0	71.0
6	2.0	20.0	14.0	4.0	16.0
7	1.0	3.0	5.0	1.0	3.0
AGE	1997	1998	1999	2000	2001
0	30.0	45.0	181.0	22.0	11.0
1	2545.0	2233.0	2185.0	1538.0	2888.0
2	8046.0	6380.0	6260.0	7967.0	4760.0
3	3149.0	5243.0	4018.0	4670.0	3737.0
4	553.0	980.0	1161.0	1529.0	1293.0
5	160.0	138.0	358.0	370.0	363.0
6	11.0	19.0	55.0	74.0	123.0
7	4.0	1.0	14.0	29.0	33.0

Catch At Age - Input Data

AGE	2002	2003	2004	2005	2006
0	272.0	259.0	107.0	245.0	191.0
1	1135.0	1583.0	1053.0	1936.0	1072.0
2	5411.0	4937.0	5668.0	3717.0	5070.0
3	3839.0	4002.0	4688.0	4045.0	3276.0
4	1302.0	1579.0	1907.0	2206.0	1796.0
5	319.0	563.0	769.0	1049.0	869.0
6	135.0	233.0	304.0	510.0	372.0
7	25.0	86.0	156.0	470.0	180.0

Weight At Age - Input Data

AGE	1982	1983	1984	1985	1986
0	0.2540	0.2400	0.2480	0.2890	0.2530
1	0.4180	0.4170	0.3960	0.4280	0.4530
2	0.6160	0.7160	0.6320	0.6130	0.6680
3	1.4470	1.0750	1.0460	1.1090	1.1600
4	1.9070	1.2570	1.5000	1.7260	1.7390
5	2.7950	1.4950	2.1630	2.2970	1.9940
6	2.6730	2.5720	3.3020	2.6710	3.3110
7	3.8510	2.5990	3.9200	4.7260	4.0910
AGE	1987	1988	1989	1990	1991
0	0.2590	0.3160	0.2080	0.2520	0.1450
1	0.4420	0.4630	0.4600	0.4310	0.4070
2	0.6510	0.6240	0.7230	0.8100	0.7020
3	1.1400	1.1300	1.0440	1.1690	1.1860
4	1.9410	1.7390	1.4790	1.5380	1.8110
5	2.8620	2.4850	2.2490	2.1210	2.5270
6	3.3370	3.8880	2.3990	3.4610	2.8370
7	3.5140	3.7610	2.7090	4.3660	3.5860
AGE	1992	1993	1994	1995	1996
0	0.2450	0.2640	0.3550	0.3900	0.3300
1	0.4700	0.4860	0.5280	0.5370	0.5100
2	0.7490	0.6990	0.6280	0.6780	0.5700
3	1.2220	1.4610	1.3530	1.0560	1.0800
4	1.3900	1.6590	2.0960	1.6390	1.5450
5	2.6960	1.8590	2.7360	2.6280	1.9570
6	2.3020	2.8160	3.4370	3.7500	2.5460
7	4.4790	2.4760	3.7050	4.0470	2.9890
AGE	1997	1998	1999	2000	2001
0	0.2120	0.2590	0.1430	0.0660	0.1140
1	0.4520	0.4900	0.3710	0.5080	0.5440
2	0.6390	0.6480	0.5940	0.6920	0.7660
3	0.8660	0.8590	0.8960	0.9250	0.9680
4	1.2330	1.3210	1.4390	1.3300	1.4490
5	2.2520	2.4100	1.9980	2.2190	2.1450
6	2.5720	2.5770	2.7160	2.5990	2.5970
7	2.9500	3.9830	3.4990	2.8260	3.3220

Weight At Age - Input Data

AGE	2002	2003	2004	2005	2006
0	0.1470	0.1490	0.3060	0.2020	0.1490
1	0.4930	0.5070	0.5170	0.4290	0.4430
2	0.7360	0.7590	0.7390	0.6920	0.6830
3	0.9580	1.0340	0.9680	0.9280	0.9600
4	1.3710	1.5310	1.3480	1.1860	1.2630
5	2.0990	2.0720	1.7520	1.5030	1.6440
6	2.6660	2.7590	2.3540	1.8890	2.1840
7	3.7420	3.9520	3.7360	3.6350	3.7870

JAN-1 Weights at Age - Input Data

AGE	1982	1983	1984	1985	1986
0	0.0000	0.0000	0.0000	0.0000	0.0000
1	0.3194	0.3255	0.3083	0.3258	0.3618
2	0.4663	0.5471	0.5134	0.4927	0.5347
3	1.5525	0.8138	0.8654	0.8372	0.8433
4	2.1538	1.3487	1.2698	1.3437	1.3887
5	2.9136	1.6885	1.6489	1.8562	1.8552
6	2.7333	2.6812	2.2218	2.4036	2.7578
7	3.8510	2.5990	3.9200	4.7260	4.0910
AGE	1987	1988	1989	1990	1991
0	0.0000	0.0000	0.0000	0.0000	0.0000
1	0.3344	0.3463	0.3813	0.2994	0.3203
2	0.5430	0.5252	0.5786	0.6104	0.5501
3	0.8727	0.8577	0.8071	0.9193	0.9801
4	1.5005	1.4080	1.2928	1.2672	1.4550
5	2.2309	2.1962	1.9776	1.7711	1.9714
6	2.5795	3.3358	2.4416	2.7899	2.4530
7	3.5140	3.7610	2.7090	4.3660	3.5860
AGE	1992	1993	1994	1995	1996
0	0.0000	0.0000	0.0000	0.0000	0.0000
1	0.2611	0.3451	0.3734	0.4366	0.4460
2	0.5521	0.5732	0.5525	0.5983	0.5533
3	0.9262	1.0461	0.9725	0.8144	0.8557
4	1.2840	1.4238	1.7499	1.4892	1.2773
5	2.2096	1.6075	2.1305	2.3470	1.7910
6	2.4119	2.7553	2.5277	3.2031	2.5867
7	4.4790	2.4760	3.7050	4.0470	2.9890
AGE	1997	1998	1999	2000	2001
0	0.0000	0.0000	0.0000	0.0000	0.0000
1	0.3862	0.3223	0.3100	0.2695	0.1895
2	0.5709	0.5412	0.5395	0.5067	0.6238
3	0.7026	0.7409	0.7620	0.7412	0.8184
4	1.1540	1.0696	1.1118	1.0916	1.1577
5	1.8653	1.7238	1.6246	1.7869	1.6890
6	2.2435	2.4090	2.5584	2.2788	2.4006
7	2.9500	3.9830	3.4990	2.8260	3.3220

JAN-1 Weights at Age - Input Data

AGE	2002	2003	2004	2005	2006
0	0.0000	0.0000	0.0000	0.0000	0.0000
1	0.2371	0.2730	0.2775	0.3623	0.2991
2	0.6328	0.6117	0.6121	0.5981	0.5413
3	0.8566	0.8724	0.8572	0.8281	0.8151
4	1.1520	1.2111	1.1806	1.0715	1.0826
5	1.7440	1.6854	1.6378	1.4234	1.3963
6	2.3914	2.4065	2.2085	1.8192	1.8118
7	3.7420	3.9520	3.7360	3.6350	3.7870
AGE	2007				
0	0.0000				
1	0.3130				
2	0.5838				
3	0.8334				
4	1.1116				
5	1.4858				
6	1.9465				
7	3.7193				

SSB Weight At Age - Input Data

AGE	1982	1983	1984	1985	1986
0	0.3020	0.2860	0.3000	0.3380	0.3080
1	0.5040	0.4820	0.4610	0.4990	0.5130
2	0.7490	0.8160	0.7690	0.7670	0.8050
3	1.3810	1.2060	1.2450	1.2960	1.3880
4	1.7610	1.5200	1.7390	1.8130	2.0690
5	2.7190	1.9820	2.3240	2.6060	2.3860
6	2.6230	3.4750	4.2560	3.6220	3.4470
7	3.8510	2.5990	3.9200	4.7260	4.0910
AGE	1987	1988	1989	1990	1991
0	0.3170	0.3600	0.2690	0.2980	0.2230
1	0.4980	0.5400	0.5610	0.5110	0.5040
2	0.7890	0.7470	0.8550	0.9240	0.8520
3	1.3200	1.2390	1.1940	1.3610	1.2520
4	2.1120	1.8990	1.6750	1.8280	2.0780
5	3.1790	2.4560	2.6110	2.3430	2.4500
6	3.6210	3.0980	3.7170	3.5450	3.9370
7	3.5140	3.7610	2.7090	4.3660	3.5860
AGE	1992	1993	1994	1995	1996
0	0.3120	0.3370	0.4100	0.4280	0.3680
1	0.5390	0.5310	0.5750	0.5480	0.5510
2	0.9480	0.8820	0.7530	0.7970	0.6590
3	1.3570	1.6550	1.4440	1.2040	1.1300
4	1.5360	1.9750	2.2640	1.7410	1.7600
5	2.7360	2.3070	3.0490	2.6000	2.1490
6	2.4190	3.4120	3.8460	3.2400	2.8170
7	4.4790	2.4760	3.7050	4.0470	2.9890
AGE	1997	1998	1999	2000	2001
0	0.2860	0.2930	0.2280	0.1490	0.1960
1	0.5120	0.5230	0.4620	0.5860	0.6030
2	0.7070	0.7240	0.6920	0.7770	0.8270
3	1.0020	1.0280	1.0270	1.0800	1.0910
4	1.5620	1.5240	1.6710	1.5710	1.6470
5	2.3570	2.5090	2.1820	2.3370	2.3100
6	3.5170	3.1950	2.7900	3.0790	3.3640
7	2.9500	3.9830	3.4990	2.8260	3.3220

SSB Weight At Age - Input Data

AGE	2002	2003	2004	2005	2006
0	0.2310	0.2370	0.2790	0.2670	0.2470
1	0.5730	0.5770	0.5800	0.5050	0.5380
2	0.8270	0.8240	0.7970	0.7740	0.7840
3	1.1280	1.1310	1.0370	1.0310	1.0610
4	1.5820	1.6020	1.3970	1.3270	1.4120
5	2.3050	2.1630	1.7960	1.7100	1.8470
6	3.5280	3.4140	3.2060	3.1600	3.2130
7	3.7420	3.9520	3.7360	3.6350	3.7870

Natural Mortality - Input Data

AGE	1982	1983	1984	1985	1986
0	0.2000	0.2000	0.2000	0.2000	0.2000
1	0.2000	0.2000	0.2000	0.2000	0.2000
2	0.2000	0.2000	0.2000	0.2000	0.2000
3	0.2000	0.2000	0.2000	0.2000	0.2000
4	0.2000	0.2000	0.2000	0.2000	0.2000
5	0.2000	0.2000	0.2000	0.2000	0.2000
6	0.2000	0.2000	0.2000	0.2000	0.2000
7	0.2000	0.2000	0.2000	0.2000	0.2000
AGE	1987	1988	1989	1990	1991
0	0.2000	0.2000	0.2000	0.2000	0.2000
1	0.2000	0.2000	0.2000	0.2000	0.2000
2	0.2000	0.2000	0.2000	0.2000	0.2000
3	0.2000	0.2000	0.2000	0.2000	0.2000
4	0.2000	0.2000	0.2000	0.2000	0.2000
5	0.2000	0.2000	0.2000	0.2000	0.2000
6	0.2000	0.2000	0.2000	0.2000	0.2000
7	0.2000	0.2000	0.2000	0.2000	0.2000
AGE	1992	1993	1994	1995	1996
0	0.2000	0.2000	0.2000	0.2000	0.2000
1	0.2000	0.2000	0.2000	0.2000	0.2000
2	0.2000	0.2000	0.2000	0.2000	0.2000
3	0.2000	0.2000	0.2000	0.2000	0.2000
4	0.2000	0.2000	0.2000	0.2000	0.2000
5	0.2000	0.2000	0.2000	0.2000	0.2000
6	0.2000	0.2000	0.2000	0.2000	0.2000
7	0.2000	0.2000	0.2000	0.2000	0.2000
AGE	1997	1998	1999	2000	2001
0	0.2000	0.2000	0.2000	0.2000	0.2000
1	0.2000	0.2000	0.2000	0.2000	0.2000
2	0.2000	0.2000	0.2000	0.2000	0.2000
3	0.2000	0.2000	0.2000	0.2000	0.2000
4	0.2000	0.2000	0.2000	0.2000	0.2000
5	0.2000	0.2000	0.2000	0.2000	0.2000
6	0.2000	0.2000	0.2000	0.2000	0.2000
7	0.2000	0.2000	0.2000	0.2000	0.2000

Natural Mortality - Input Data

AGE	2002	2003	2004	2005	2006
0	0.2000	0.2000	0.2000	0.2000	0.2000
1	0.2000	0.2000	0.2000	0.2000	0.2000
2	0.2000	0.2000	0.2000	0.2000	0.2000
3	0.2000	0.2000	0.2000	0.2000	0.2000
4	0.2000	0.2000	0.2000	0.2000	0.2000
5	0.2000	0.2000	0.2000	0.2000	0.2000
6	0.2000	0.2000	0.2000	0.2000	0.2000
7	0.2000	0.2000	0.2000	0.2000	0.2000
Proportion of Natural Mortality Before Spawning =					0.8300
Proportion of Fishing Mortality Before Spawning =					0.8300

Maturity - Input Data

AGE	1982	1983	1984	1985	1986
0	0.3800	0.3800	0.3800	0.3800	0.3800
1	0.9100	0.9100	0.9100	0.9100	0.9100
2	0.9800	0.9800	0.9800	0.9800	0.9800
3	1.0000	1.0000	1.0000	1.0000	1.0000
4	1.0000	1.0000	1.0000	1.0000	1.0000
5	1.0000	1.0000	1.0000	1.0000	1.0000
6	1.0000	1.0000	1.0000	1.0000	1.0000
7	1.0000	1.0000	1.0000	1.0000	1.0000
AGE	1987	1988	1989	1990	1991
0	0.3800	0.3800	0.3800	0.3800	0.3800
1	0.9100	0.9100	0.9100	0.9100	0.9100
2	0.9800	0.9800	0.9800	0.9800	0.9800
3	1.0000	1.0000	1.0000	1.0000	1.0000
4	1.0000	1.0000	1.0000	1.0000	1.0000
5	1.0000	1.0000	1.0000	1.0000	1.0000
6	1.0000	1.0000	1.0000	1.0000	1.0000
7	1.0000	1.0000	1.0000	1.0000	1.0000
AGE	1992	1993	1994	1995	1996
0	0.3800	0.3800	0.3800	0.3800	0.3800
1	0.9100	0.9100	0.9100	0.9100	0.9100
2	0.9800	0.9800	0.9800	0.9800	0.9800
3	1.0000	1.0000	1.0000	1.0000	1.0000
4	1.0000	1.0000	1.0000	1.0000	1.0000
5	1.0000	1.0000	1.0000	1.0000	1.0000
6	1.0000	1.0000	1.0000	1.0000	1.0000
7	1.0000	1.0000	1.0000	1.0000	1.0000
AGE	1997	1998	1999	2000	2001
0	0.3800	0.3800	0.3800	0.3800	0.3800
1	0.9100	0.9100	0.9100	0.9100	0.9100
2	0.9800	0.9800	0.9800	0.9800	0.9800
3	1.0000	1.0000	1.0000	1.0000	1.0000
4	1.0000	1.0000	1.0000	1.0000	1.0000
5	1.0000	1.0000	1.0000	1.0000	1.0000
6	1.0000	1.0000	1.0000	1.0000	1.0000
7	1.0000	1.0000	1.0000	1.0000	1.0000

Maturity - Input Data

AGE	2002	2003	2004	2005	2006
0	0.3800	0.3800	0.3800	0.3800	0.3800
1	0.9100	0.9100	0.9100	0.9100	0.9100
2	0.9800	0.9800	0.9800	0.9800	0.9800
3	1.0000	1.0000	1.0000	1.0000	1.0000
4	1.0000	1.0000	1.0000	1.0000	1.0000
5	1.0000	1.0000	1.0000	1.0000	1.0000
6	1.0000	1.0000	1.0000	1.0000	1.0000
7	1.0000	1.0000	1.0000	1.0000	1.0000

Input Partial Recruitment

AGE

0	0.0200
1	0.1300
2	0.6700
3	1.0000
4	1.0000
5	1.0000
6	1.0000

Input F-Plus Ratio

YEAR

1982	1.0000
1983	1.0000
1984	1.0000
1985	1.0000
1986	1.0000
1987	1.0000
1988	1.0000
1989	1.0000
1990	1.0000
1991	1.0000
1992	1.0000
1993	1.0000
1994	1.0000
1995	1.0000
1996	1.0000
1997	1.0000
1998	1.0000
1999	1.0000
2000	1.0000
2001	1.0000
2002	1.0000
2003	1.0000
2004	1.0000
2005	1.0000
2006	1.0000

SURVEY - INPUT DATA

INDEX	1	2	3	4	5
SURVEY TAG	NEC_W	NEC_W	NEC_W	NEC_W	NEC_W
AGE	1	2	3	4	5 - 7
TIME	JAN-1	JAN-1	JAN-1	JAN-1	JAN-1
TYPE	NUMBERS	NUMBERS	NUMBERS	NUMBERS	NUMBERS
RETRO FLAG	1	1	1	1	1
1982	0.0000	0.0000	0.0000	0.0000	0.0000
1983	0.0000	0.0000	0.0000	0.0000	0.0000
1984	0.0000	0.0000	0.0000	0.0000	0.0000
1985	0.0000	0.0000	0.0000	0.0000	0.0000
1986	0.0000	0.0000	0.0000	0.0000	0.0000
1987	0.0000	0.0000	0.0000	0.0000	0.0000
1988	0.0000	0.0000	0.0000	0.0000	0.0000
1989	0.0000	0.0000	0.0000	0.0000	0.0000
1990	0.0000	0.0000	0.0000	0.0000	0.0000
1991	0.0000	0.0000	0.0000	0.0000	0.0000
1992	7.1500	4.7400	0.3300	0.0400	0.0400
1993	6.5000	6.7000	0.3100	0.0500	0.0400
1994	3.7600	7.2000	0.8200	0.2600	0.0100
1995	6.0700	4.5900	0.2500	0.0200	0.0000
1996	22.1700	8.3300	0.6000	0.1200	0.0300
1997	3.8600	4.8000	1.0400	0.4300	0.1500
1998	1.6800	3.2500	2.2900	0.4200	0.1200
1999	2.1100	4.8000	2.9000	0.8400	0.4100
2000	0.7000	6.5200	4.9600	2.5100	1.0800
2001	3.0700	5.3300	6.4200	2.4400	1.3400
2002	2.7700	10.7400	5.5800	2.2600	1.3300
2003	8.1700	14.3600	8.4800	2.6700	1.9600
2004	1.4500	8.6800	4.5600	1.6400	1.4400
2005	2.9600	4.0300	3.0700	1.3400	1.4900
2006	2.6400	9.0600	4.2900	2.4700	2.5800
2007	2.7700	6.1800	5.1500	1.5400	1.1900

SURVEY - INPUT DATA

INDEX	6	7	8	9	10
SURVEY TAG	NEC_S	NEC_S	NEC_S	NEC_S	NEC_S
AGE	1	2	3	4	5 - 7
TIME	JAN-1	JAN-1	JAN-1	JAN-1	JAN-1
TYPE	NUMBERS	NUMBERS	NUMBERS	NUMBERS	NUMBERS
RETRO FLAG	1	1	1	1	1
1982	0.7000	1.4300	0.1200	0.0200	0.0000
1983	0.3200	0.3900	0.1900	0.0300	0.0200
1984	0.1700	0.3300	0.0900	0.0500	0.0200
1985	0.5500	1.5600	0.2100	0.0400	0.0200
1986	1.4800	0.4300	0.2000	0.0200	0.0100
1987	0.4700	0.4300	0.0200	0.0100	0.0000
1988	0.6000	0.8100	0.0700	0.0200	0.0000
1989	0.0600	0.2300	0.0200	0.0100	0.0000
1990	0.6300	0.0300	0.0600	0.0000	0.0000
1991	0.7900	0.2700	0.0000	0.0200	0.0000
1992	0.7700	0.4100	0.0100	0.0000	0.0100
1993	0.7300	0.5000	0.0400	0.0000	0.0000
1994	0.3500	0.5300	0.0400	0.0100	0.0000
1995	0.7900	0.2700	0.0200	0.0000	0.0100
1996	1.0800	0.5600	0.1200	0.0000	0.0000
1997	0.2900	0.6700	0.0900	0.0100	0.0000
1998	0.2700	0.5200	0.3200	0.0600	0.0200
1999	0.2200	0.7400	0.4800	0.1300	0.0300
2000	0.1900	1.0300	0.6300	0.1200	0.1700
2001	0.4800	0.8900	1.0200	0.2000	0.1000
2002	0.3400	0.8900	0.7400	0.3100	0.1900
2003	0.5400	1.2900	0.5900	0.2900	0.2100
2004	0.3000	1.4500	0.8500	0.2700	0.1500
2005	0.2600	0.6500	0.5800	0.1500	0.1700
2006	0.0400	1.0400	0.2400	0.2500	0.2000
2007	0.2400	0.5200	1.4600	0.5700	0.4600

SURVEY - INPUT DATA

INDEX	11	12	13	14	15
SURVEY TAG	NEC_F	NEC_F	NEC_F	MA_S	MA_S
AGE	2	3	4	1	2
TIME	JAN-1	JAN-1	JAN-1	JAN-1	JAN-1
TYPE	NUMBERS	NUMBERS	NUMBERS	NUMBERS	NUMBERS
RETRO FLAG	1	1	1	0	0
1982	0.0000	0.0000	0.0000	0.3500	1.5840
1983	1.5200	0.4000	0.0300	0.0510	0.5990
1984	1.4600	0.3400	0.1200	0.0440	0.0780
1985	1.3900	0.4300	0.0700	0.1540	1.2600
1986	0.8000	0.4600	0.0500	0.9950	0.5220
1987	0.8300	0.1100	0.1100	0.6560	0.6400
1988	0.5800	0.2000	0.0300	0.2110	1.0050
1989	0.6200	0.1800	0.0300	0.0000	0.3630
1990	0.2100	0.0500	0.0000	0.2570	0.0210
1991	0.3800	0.0300	0.0400	0.0320	0.0500
1992	0.8400	0.0900	0.0000	0.2800	0.3420
1993	1.0400	0.2500	0.0300	0.1260	0.4920
1994	0.8000	0.0300	0.0100	1.8600	1.2170
1995	0.6700	0.0900	0.0100	0.1040	1.3020
1996	1.1600	0.2800	0.0200	0.0760	0.6860
1997	1.2400	0.5700	0.0400	0.5440	1.2790
1998	1.2900	1.1400	0.2900	0.1440	1.2120
1999	2.1300	1.6300	0.3300	0.0780	0.8780
2000	1.7300	1.4900	0.3100	0.2370	1.6590
2001	1.2000	1.2200	0.4000	0.1860	1.0260
2002	1.3600	0.9300	0.3700	0.1510	1.5110
2003	1.1700	0.8600	0.3500	0.2060	1.4400
2004	1.3100	1.0300	0.2500	0.0270	0.2830
2005	1.4900	1.3700	0.6600	0.1360	0.3510
2006	1.1400	0.5400	0.4700	0.0490	2.4400
2007	0.7200	1.2200	0.3500	0.0000	0.0000

SURVEY - INPUT DATA

INDEX	16	17	18	19	20
SURVEY TAG	MA_S	MA_F	MA_F	MA_F	CT_S
AGE	3	2	3	4	1
TIME	JAN-1	JAN-1	JAN-1	JAN-1	JAN-1
TYPE	NUMBERS	NUMBERS	NUMBERS	NUMBERS	NUMBERS
RETRO FLAG	0	1	1	1	0
1982	0.1420	0.4000	0.4050	0.0120	0.0000
1983	0.4500	0.2340	1.6620	0.0200	0.0000
1984	0.0670	0.0330	0.6250	0.1540	0.3140
1985	0.0360	0.4850	0.2670	0.1270	0.0150
1986	0.1850	0.1170	1.8950	0.0400	0.7530
1987	0.0130	2.3160	0.6790	0.2140	0.9510
1988	0.1230	1.2020	0.6630	0.0110	0.2320
1989	0.1020	0.4740	0.4290	0.0060	0.0130
1990	0.0810	0.0000	0.3170	0.0160	0.3040
1991	0.0120	0.1130	0.0000	0.0110	0.3920
1992	0.0900	0.5310	0.2880	0.0060	0.3190
1993	0.0650	1.1810	0.1860	0.0000	0.3200
1994	0.0480	0.3350	0.4780	0.0300	0.4960
1995	0.0530	2.2340	0.0760	0.0000	0.1990
1996	0.1140	0.3420	0.5060	0.0000	0.5780
1997	0.1810	0.7610	1.2820	0.1140	0.3910
1998	0.6590	0.4940	1.5080	0.3510	0.0640
1999	1.1120	0.0120	0.5900	0.2620	0.2450
2000	1.2050	0.3470	0.9400	0.3790	0.3210
2001	0.7300	1.3830	2.3030	0.4940	0.8410
2002	0.3970	1.2440	1.0830	0.3070	1.0570
2003	0.6240	2.6810	1.3020	0.1780	1.6080
2004	0.3230	3.0590	1.2540	0.2560	0.2590
2005	1.0290	0.5890	1.4550	0.1360	0.2530
2006	0.9750	1.5570	2.0490	1.3500	0.0380
2007	0.0000	0.5860	3.7450	0.5590	0.0000

SURVEY - INPUT DATA

INDEX	21	22	23	24	25
SURVEY TAG	CT_S	CT_S	CT_S	CT_F	CT_F
AGE	2	3	4	2	3
TIME	JAN-1	JAN-1	JAN-1	JAN-1	JAN-1
TYPE	NUMBERS	NUMBERS	NUMBERS	NUMBERS	NUMBERS
RETRO FLAG	0	0	0	1	1
1982	0.0000	0.0000	0.0000	0.0000	0.0000
1983	0.0000	0.0000	0.0000	0.0000	0.0000
1984	0.2710	0.0440	0.0000	0.0000	0.0000
1985	0.3250	0.0400	0.0580	0.5710	0.3310
1986	0.1000	0.0820	0.0080	0.3390	0.5280
1987	0.0860	0.0140	0.0040	1.1700	0.2980
1988	0.2230	0.0350	0.0090	1.0670	0.2230
1989	0.0490	0.0240	0.0160	0.8840	0.4810
1990	0.0220	0.0130	0.0060	0.0290	0.0950
1991	0.1890	0.0290	0.0280	0.6740	0.1100
1992	0.1880	0.0210	0.0040	0.8260	0.3400
1993	0.1510	0.0150	0.0180	0.5700	0.3660
1994	0.3140	0.0250	0.0180	0.8270	0.1520
1995	0.0510	0.0200	0.0050	0.3000	0.0850
1996	0.2660	0.0860	0.0230	0.3840	0.1170
1997	0.5070	0.0570	0.0360	0.8870	1.1880
1998	0.5940	0.5030	0.1160	0.6810	1.3730
1999	0.5930	0.3850	0.1390	0.2690	1.0540
2000	0.7260	0.5240	0.0740	0.6790	1.4840
2001	0.3400	0.3650	0.1200	0.3950	0.8710
2002	1.2640	0.4650	0.2330	2.6890	1.1370
2003	1.0160	0.3950	0.2320	3.0870	1.9300
2004	0.8180	0.4100	0.1940	1.4590	1.3190
2005	0.2640	0.1500	0.0330	0.3850	0.7550
2006	0.3600	0.0680	0.0650	1.0930	0.7440
2007	0.0000	0.0000	0.0000	0.2170	0.5920

SURVEY - INPUT DATA

INDEX	26	27	28	29	30
SURVEY TAG	CT_F	CT_F	RI_F	RI_F	RI_F
AGE	4	5 - 7	2	3	4
TIME	JAN-1	JAN-1	JAN-1	JAN-1	JAN-1
TYPE	NUMBERS	NUMBERS	NUMBERS	NUMBERS	NUMBERS
RETRO FLAG	1	1	1	1	1
1982	0.0000	0.0000	0.9700	1.7400	0.2000
1983	0.0000	0.0000	0.2100	0.5200	0.0700
1984	0.0000	0.0000	0.1400	0.4200	0.1100
1985	0.0720	0.0250	0.7400	0.4900	0.1000
1986	0.0750	0.0090	0.3100	0.2800	0.0200
1987	0.0720	0.0070	2.4500	0.5100	0.1300
1988	0.0330	0.0030	0.9400	0.3700	0.0200
1989	0.0370	0.0030	0.3400	0.2400	0.0000
1990	0.0150	0.0010	0.0150	0.0700	0.0000
1991	0.0420	0.0120	0.6700	0.1200	0.0000
1992	0.0360	0.0220	0.1200	0.0800	0.0100
1993	0.0460	0.0250	0.7700	0.4100	0.1100
1994	0.0390	0.0070	0.4100	0.2200	0.0700
1995	0.0240	0.0090	0.1200	0.0300	0.0000
1996	0.0120	0.0050	0.5300	0.2000	0.0000
1997	0.0420	0.0050	0.9500	1.0300	0.0100
1998	0.3730	0.0400	0.5600	0.9600	0.0300
1999	0.3210	0.0750	0.0900	0.3600	0.0900
2000	0.3460	0.1270	1.0400	1.9100	0.3500
2001	0.3410	0.1910	0.5000	1.2400	0.4500
2002	0.4360	0.1340	1.0500	0.6300	0.3000
2003	0.4790	0.1830	2.4200	1.3800	0.4000
2004	0.4070	0.2030	2.3500	2.0800	0.4900
2005	0.4400	0.1190	0.4800	1.3000	0.7800
2006	0.3550	0.1510	0.8400	1.3800	0.6900
2007	0.2300	0.1790	0.1400	1.1300	0.4400

SURVEY - INPUT DATA

INDEX	31	32	33	34	35
SURVEY TAG	RI_X	RI_X	NJ	NJ	NJ
AGE	1	2 - 7	1	2	3
TIME	JAN-1	JAN-1	JAN-1	JAN-1	JAN-1
TYPE	NUMBERS	NUMBERS	NUMBERS	NUMBERS	NUMBERS
RETRO FLAG	0	0	0	0	0
1982	0.0000	0.0000	0.0000	0.0000	0.0000
1983	0.0000	0.0000	0.0000	0.0000	0.0000
1984	0.0000	0.0000	0.0000	0.0000	0.0000
1985	0.0000	0.0000	0.0000	0.0000	0.0000
1986	0.0000	0.0000	0.0000	0.0000	0.0000
1987	0.0000	0.0000	0.0000	0.0000	0.0000
1988	0.0000	0.0000	3.0600	1.0300	0.0000
1989	0.0000	0.0000	0.5100	0.1800	0.0000
1990	0.1700	0.1000	1.4400	0.1100	0.0300
1991	0.0700	0.0800	2.6900	0.2700	0.0200
1992	0.1500	0.1800	3.0000	0.5700	0.0600
1993	0.1100	0.1400	5.6900	0.2000	0.0100
1994	0.0800	0.0500	1.0700	0.0800	0.0000
1995	0.2000	0.2200	2.9300	0.2800	0.0500
1996	0.4100	0.5300	5.1000	2.7000	0.1800
1997	0.1700	0.5200	8.2500	5.2500	1.0200
1998	0.0700	0.3600	5.8000	2.6700	0.2900
1999	0.2600	0.6100	6.1200	3.4600	0.6500
2000	0.6300	1.8900	3.9100	1.8200	0.4500
2001	0.4200	0.5500	3.3200	1.1800	0.4100
2002	0.8100	1.1100	9.1100	4.1300	1.2800
2003	1.4800	2.2500	5.6100	2.5500	0.5700
2004	0.5400	1.5300	6.2700	2.4900	0.5700
2005	0.5500	1.8900	5.9900	1.2400	0.5300
2006	0.1900	1.0900	5.7400	3.2200	0.4800
2007	0.0000	0.0000	0.0000	0.0000	0.0000

SURVEY - INPUT DATA

INDEX	36	37	38	39	40
SURVEY TAG	NJ	DE	DE	DE	CT_Y
AGE	4 - 7	1	2	3	0
TIME	JAN-1	JAN-1	JAN-1	JAN-1	JAN-1
TYPE	NUMBERS	NUMBERS	NUMBERS	NUMBERS	NUMBERS
RETRO FLAG	0	0	0	0	0
1982	0.0000	0.0000	0.0000	0.0000	0.0000
1983	0.0000	0.0000	0.0000	0.0000	0.0000
1984	0.0000	0.0000	0.0000	0.0000	0.0000
1985	0.0000	0.0000	0.0000	0.0000	0.2400
1986	0.0000	0.0000	0.0000	0.0000	0.1720
1987	0.0000	0.0000	0.0000	0.0000	0.0750
1988	0.0000	0.0000	0.0000	0.0000	0.0150
1989	0.0000	0.0000	0.0000	0.0000	0.0000
1990	0.0000	0.0000	0.0000	0.0000	0.0320
1991	0.0000	1.1300	0.1800	0.0400	0.0360
1992	0.0200	0.2800	0.0800	0.0000	0.0130
1993	0.0100	1.5600	0.7300	0.0700	0.0840
1994	0.0200	0.1400	0.2200	0.0800	0.1320
1995	0.1600	1.0000	0.2800	0.1000	0.0230
1996	0.0500	0.7300	0.4800	0.1000	0.0690
1997	0.1800	0.1200	0.4900	0.4700	0.0330
1998	0.0400	0.3100	0.8300	0.2900	0.0000
1999	0.1800	0.0600	0.7700	0.4700	0.0440
2000	0.2200	0.2400	0.3000	0.2800	0.0120
2001	0.1500	1.5500	0.4900	0.2600	0.0210
2002	0.8100	0.2300	0.0900	0.0000	0.4420
2003	0.5100	0.1400	0.2900	0.1500	0.0000
2004	0.4300	0.0700	0.0600	0.0100	0.2550
2005	0.3200	0.3000	0.1100	0.0200	0.0670
2006	0.4000	0.1000	0.2300	0.0700	0.0980
2007	0.0000	0.0000	0.0000	0.0000	0.0000

SURVEY - INPUT DATA

INDEX	41	42	43	44	45
SURVEY TAG	VA_CRY	NC_Y	MD_Y	NJ_Y	NEC_Y
AGE	0	0	0	0	0
TIME	JAN-1	JAN-1	JAN-1	JAN-1	JAN-1
TYPE	NUMBERS	NUMBERS	NUMBERS	NUMBERS	NUMBERS
RETRO FLAG	0	0	0	0	0
1982	2.2700	0.0000	3.4080	0.0000	0.5500
1983	5.0100	0.0000	17.6990	0.0000	0.9600
1984	1.5800	0.0000	13.3100	0.0000	0.1800
1985	1.2600	0.0000	12.8430	0.0000	0.5900
1986	1.2600	0.0000	59.5260	0.0000	0.3900
1987	0.3900	19.8600	7.5840	0.0000	0.0700
1988	0.5400	2.6100	1.7630	0.1700	0.0600
1989	1.2400	6.6300	2.8550	1.0000	0.3100
1990	2.5400	4.2700	4.7330	1.2800	0.4400
1991	2.6400	5.8500	7.3370	1.0000	0.7600
1992	0.8900	9.1400	8.4870	1.1000	0.9900
1993	0.5000	5.1300	4.1450	2.5500	0.2300
1994	2.4100	8.1700	22.3110	1.6600	0.7500
1995	0.6300	6.6500	13.0670	4.9500	0.9300
1996	0.8100	30.6700	6.4930	1.6600	0.1100
1997	0.8900	14.1400	7.9970	1.6500	0.1700
1998	0.7300	10.4400	14.9830	0.6700	0.3800
1999	0.5300	0.0000	8.5650	1.0300	0.2100
2000	0.5700	3.9400	9.8740	0.9500	0.2200
2001	0.4700	22.0300	13.5430	0.6200	0.1200
2002	0.7700	18.2800	5.4060	1.5100	0.0600
2003	0.4400	7.2300	8.1800	0.6000	0.1800
2004	1.3000	5.9000	6.9930	0.9000	0.3600
2005	0.3500	9.8800	2.1980	3.1100	0.1600
2006	0.8000	1.9600	9.6580	0.8100	0.3100
2007	0.0000	0.0000	0.0000	0.0000	0.0000

SURVEY - INPUT DATA

INDEX	46	47	48	49	50
SURVEY TAG	MA_Y	DE30_Y	RI_Y	DE_EY	DE_IY
AGE	0	0	0	0	0
TIME	JAN-1	JAN-1	JAN-1	JAN-1	JAN-1
TYPE	NUMBERS	NUMBERS	NUMBERS	NUMBERS	NUMBERS
RETRO FLAG	0	0	0	0	0
1982	3.0000	0.0000	0.0200	0.1100	0.0000
1983	3.0000	0.0000	0.0300	0.0310	0.0000
1984	1.0000	0.0000	0.0200	0.0760	0.0000
1985	19.0000	0.0000	0.3500	0.0630	0.0000
1986	5.0000	0.0000	0.3500	0.0960	0.3200
1987	4.0000	0.0000	0.0400	0.1360	0.2600
1988	2.0000	0.0000	0.0000	0.0070	0.0100
1989	3.0000	0.0000	0.0000	0.1150	0.1400
1990	11.0000	0.0000	0.0500	0.2290	0.3600
1991	4.0000	1.4400	0.0000	0.0730	0.3800
1992	0.0000	0.4700	0.0100	0.3150	0.3700
1993	2.0000	0.0400	0.0100	0.0290	0.0500
1994	1.0000	2.2800	0.0400	0.2940	0.5700
1995	13.0000	0.9400	0.0200	0.1700	0.3000
1996	7.0000	0.4600	0.1000	0.0330	0.0800
1997	0.0000	0.0300	0.0300	0.0160	0.2200
1998	12.0000	0.1100	0.0000	0.0250	0.3900
1999	13.0000	0.2000	0.0200	0.0480	0.3500
2000	10.0000	0.7900	0.4000	0.1770	0.2100
2001	1.0000	0.3400	0.0000	0.0740	0.1400
2002	70.0000	0.0400	0.4400	0.0670	0.1300
2003	11.0000	0.1500	0.1000	0.0910	0.2100
2004	4.0000	0.0200	0.0300	0.1010	0.2700
2005	0.0000	0.0000	0.0100	0.0040	0.0100
2006	43.0000	0.4100	0.1000	0.0200	0.1700
2007	0.0000	0.0000	0.0000	0.0000	0.0000

INDEX	51				
SURVEY TAG	RI_XY				
AGE	0	NUMBERS	NUMBERS	NUMBERS	NUMBERS
TIME	JAN-1	NUMBERS	NUMBERS	NUMBERS	NUMBERS
TYPE	NUMBERS	NUMBERS	NUMBERS	NUMBERS	NUMBERS
RETRO FLAG	0				
1982	0.0000				
1983	0.0000				
1984	0.0000				
1985	0.0000				
1986	0.0000				
1987	0.0000				
1988	0.0000				

1989	0.0000
1990	0.0200
1991	0.0000
1992	0.0100
1993	0.0100
1994	0.0400
1995	0.0300
1996	0.0200
1997	0.0400
1998	0.0000
1999	0.0300
2000	0.0900
2001	0.0100
2002	0.1100
2003	0.0500
2004	0.1000
2005	0.0400
2006	0.0400
2007	0.0000

Additional Output Files

Population File C:\F2008\ADAPT\F08_BASE_00.PP2
 Auxilliary File C:\F2008\ADAPT\F08_BASE_00.AUX
 Covariance File C:\F2008\ADAPT\F08_BASE_00.CV
 Residuals File C:\F2008\ADAPT\F08_BASE_00.RSD
 Log File C:\F2008\ADAPT\F08_BASE_00.LOG

Bootstrap Files

Bootstrap Stock Numbers C:\F2008\ADAPT\F08_BASE_00.BSN
 Bootstrap Fishing Mortality C:\F2008\ADAPT\F08_BASE_00.BSF
 Bootstrap Biomass C:\F2008\ADAPT\F08_BASE_00.BSB
 Bootstrap Catchability C:\F2008\ADAPT\F08_BASE_00.BSQ

Estimation Results

JAN-1 Population Numbers

AGE	1982	1983	1984	1985	1986
0	72766.	78883.	47542.	47670.	52295.
1	42166.	54755.	60140.	34595.	37153.
2	15890.	17178.	19487.	25486.	15249.
3	2162.	4014.	4392.	2401.	4992.
4	780.	935.	1345.	791.	409.
5	157.	345.	155.	366.	208.
6	151.	27.	6.	42.	77.
7	67.	71.	14.	11.	20.
=====					
Total	134140.	156209.	133081.	111363.	110403.
AGE	1987	1988	1989	1990	1991
0	43018.	12833.	26720.	29764.	28185.
1	41062.	34194.	9790.	21010.	22694.
2	15113.	18227.	9742.	3742.	9325.
3	2737.	2812.	2159.	1545.	1120.
4	761.	778.	423.	282.	384.
5	57.	143.	74.	38.	37.
6	47.	24.	11.	12.	5.
7	71.	27.	5.	4.	2.
=====					
Total	102865.	69038.	48923.	56398.	61751.
AGE	1992	1993	1994	1995	1996
0	31780.	32665.	34771.	38198.	27954.
1	22172.	24784.	25584.	26990.	30739.
2	7761.	8170.	10256.	11676.	16856.
3	1351.	1062.	1738.	2211.	3083.
4	260.	123.	365.	550.	708.
5	121.	79.	36.	117.	100.
6	3.	37.	25.	7.	27.
7	1.	6.	9.	2.	5.
=====					
Total	63450.	66927.	72784.	79750.	79473.
AGE	1997	1998	1999	2000	2001
0	28783.	30888.	28646.	32574.	30385.
1	22741.	23539.	25248.	23290.	26650.
2	18941.	16325.	17259.	18701.	17680.
3	5544.	8314.	7655.	8522.	8188.
4	937.	1738.	2158.	2688.	2821.
5	210.	276.	552.	733.	841.
6	19.	31.	103.	135.	270.
7	7.	2.	26.	53.	73.
=====					
Total	77182.	81112.	81646.	86695.	86908.

JAN-1 Population Numbers

AGE	2002	2003	2004	2005	2006
0	35186.	26343.	42627.	17092.	31255.
1	24867.	28562.	21334.	34803.	13773.
2	19216.	19335.	21956.	16516.	26747.
3	10200.	10874.	11395.	12884.	10180.
4	3366.	4914.	5319.	5136.	6920.
5	1155.	1590.	2607.	2646.	2233.
6	364.	659.	798.	1444.	1228.
7	67.	243.	409.	1331.	553.
=====					
Total	94421.	92521.	106444.	91853.	92889.
=====					
AGE	2007				
=====					
0	32177.				
1	25417.				
2	10309.				
3	17337.				
4	5397.				
5	4052.				
6	1050.				
7	937.				
=====					
Total	96677.				

Fishing Mortality Calculated

AGE	1982	1983	1984	1985	1986
0	0.0844	0.0713	0.1179	0.0492	0.0418
1	0.6980	0.8331	0.6586	0.6192	0.6995
2	1.1758	1.1639	1.8939	1.4302	1.5177
3	0.6388	0.8934	1.5136	1.5702	1.6815
4	0.6148	1.5978	1.1022	1.1359	1.7679
5	1.5776	3.8962	1.0938	1.3612	1.2981
6	0.6639	1.0573	1.3915	1.4349	1.6703
7	0.6639	1.0573	1.3915	1.4349	1.6703
AGE	1987	1988	1989	1990	1991
0	0.0296	0.0707	0.0404	0.0712	0.0399
1	0.6122	1.0556	0.7617	0.6123	0.8729
2	1.4817	1.9333	1.6411	1.0060	1.7318
3	1.0584	1.6949	1.8341	1.1932	1.2589
4	1.4729	2.1550	2.2134	1.8275	0.9528
5	0.6492	2.3292	1.6175	1.8925	2.4672
6	1.1251	1.7945	1.8786	1.2780	1.1892
7	1.1251	1.7945	1.8786	1.2780	1.1892
AGE	1992	1993	1994	1995	1996
0	0.0486	0.0443	0.0533	0.0172	0.0064
1	0.7984	0.6823	0.5844	0.2707	0.2842
2	1.7892	1.3478	1.3342	1.1318	0.9121
3	2.1928	0.8671	0.9514	0.9384	0.9906
4	0.9925	1.0261	0.9410	1.5058	1.0183
5	0.9870	0.9633	1.4841	1.2495	1.4557
6	1.7790	0.8874	0.9566	1.0366	1.0052
7	1.7790	0.8874	0.9566	1.0366	1.0052
AGE	1997	1998	1999	2000	2001
0	0.0012	0.0016	0.0070	0.0007	0.0004
1	0.1315	0.1103	0.1002	0.0756	0.1271
2	0.6234	0.5573	0.5056	0.6259	0.3500
3	0.9597	1.1487	0.8466	0.9056	0.6889
4	1.0223	0.9478	0.8797	0.9620	0.6931
5	1.7155	0.7863	1.2111	0.7978	0.6373
6	0.9851	1.1008	0.8699	0.9110	0.6861
7	0.9851	1.1008	0.8699	0.9110	0.6861

Fishing Mortality Calculated

AGE	2002	2003	2004	2005	2006
0	0.0086	0.0109	0.0028	0.0159	0.0068
1	0.0516	0.0630	0.0559	0.0633	0.0897
2	0.3693	0.3288	0.3330	0.2839	0.2336
3	0.5304	0.5152	0.5969	0.4216	0.4346
4	0.5497	0.4339	0.4982	0.6330	0.3351
5	0.3609	0.4900	0.3906	0.5680	0.5542
6	0.5203	0.4892	0.5391	0.4885	0.4413
7	0.5203	0.4892	0.5391	0.4885	0.4413

Average Fishing Mortality For Ages 3- 5

Year Average F N Weighted Biomass Wtd Catch Wtd

1982	0.9438	0.6804	0.7098	0.7121
1983	2.1291	1.2136	1.4097	1.3494
1984	1.2365	1.4087	1.3731	1.4208
1985	1.3558	1.4521	1.4093	1.4636
1986	1.5825	1.6736	1.6624	1.6753
1987	1.0602	1.1406	1.1735	1.1555
1988	2.0597	1.8150	1.8788	1.8234
1989	1.8883	1.8885	1.9063	1.8922
1990	1.6378	1.3034	1.3416	1.3226
1991	1.5597	1.2119	1.2113	1.2309
1992	1.3908	1.9280	1.8020	1.9954
1993	0.9522	0.8886	0.8955	0.8904
1994	1.1255	0.9586	0.9657	0.9610
1995	1.2312	1.0594	1.1283	1.0839
1996	1.1549	1.0076	1.0197	1.0102
1997	1.2325	0.9921	1.0273	1.0000
1998	0.9609	1.1052	1.0845	1.1099
1999	0.9791	0.8729	0.8911	0.8771
2000	0.8884	0.9117	0.9079	0.9127
2001	0.6731	0.6862	0.6837	0.6864
2002	0.4803	0.5215	0.5122	0.5251
2003	0.4797	0.4899	0.4848	0.4920
2004	0.4952	0.5419	0.5230	0.5498
2005	0.5408	0.4928	0.5076	0.5065
2006	0.4413	0.4128	0.4149	0.4221

Back Calculated Partial Recruitment

AGE	1982	1983	1984	1985	1986
0	0.0535	0.0183	0.0623	0.0314	0.0236
1	0.4424	0.2138	0.3477	0.3944	0.3957
2	0.7453	0.2987	1.0000	0.9108	0.8585
3	0.4049	0.2293	0.7992	1.0000	0.9512
4	0.3897	0.4101	0.5820	0.7234	1.0000
5	1.0000	1.0000	0.5775	0.8669	0.7343
6	0.4208	0.2714	0.7347	0.9138	0.9448
7	0.4208	0.2714	0.7347	0.9138	0.9448
AGE	1987	1988	1989	1990	1991
0	0.0200	0.0304	0.0183	0.0376	0.0162
1	0.4132	0.4532	0.3441	0.3235	0.3538
2	1.0000	0.8300	0.7414	0.5316	0.7019
3	0.7144	0.7277	0.8287	0.6305	0.5103
4	0.9941	0.9252	1.0000	0.9657	0.3862
5	0.4382	1.0000	0.7307	1.0000	1.0000
6	0.7593	0.7704	0.8488	0.6753	0.4820
7	0.7593	0.7704	0.8488	0.6753	0.4820
AGE	1992	1993	1994	1995	1996
0	0.0222	0.0329	0.0359	0.0115	0.0044
1	0.3641	0.5063	0.3938	0.1798	0.1952
2	0.8159	1.0000	0.8990	0.7516	0.6265
3	1.0000	0.6433	0.6411	0.6232	0.6805
4	0.4526	0.7613	0.6340	1.0000	0.6995
5	0.4501	0.7148	1.0000	0.8298	1.0000
6	0.8113	0.6584	0.6446	0.6884	0.6905
7	0.8113	0.6584	0.6446	0.6884	0.6905
AGE	1997	1998	1999	2000	2001
0	0.0007	0.0014	0.0058	0.0008	0.0006
1	0.0766	0.0961	0.0827	0.0785	0.1833
2	0.3634	0.4851	0.4175	0.6506	0.5050
3	0.5594	1.0000	0.6991	0.9414	0.9939
4	0.5959	0.8251	0.7264	1.0000	1.0000
5	1.0000	0.6844	1.0000	0.8293	0.9195
6	0.5742	0.9582	0.7183	0.9470	0.9900
7	0.5742	0.9582	0.7183	0.9470	0.9900

Back Calculated Partial Recruitment

AGE	2002	2003	2004	2005	2006
0	0.0156	0.0212	0.0046	0.0252	0.0122
1	0.0939	0.1223	0.0937	0.1000	0.1618
2	0.6718	0.6382	0.5579	0.4485	0.4215
3	0.9648	1.0000	1.0000	0.6660	0.7842
4	1.0000	0.8422	0.8346	1.0000	0.6047
5	0.6565	0.9512	0.6544	0.8973	1.0000
6	0.9465	0.9496	0.9032	0.7718	0.7963
7	0.9465	0.9496	0.9032	0.7718	0.7963

JAN-1 Biomass

AGE	1982	1983	1984	1985	1986
0	0.	0.	0.	0.	0.
1	13468.	17823.	18541.	11271.	13442.
2	7409.	9398.	10005.	12557.	8154.
3	3357.	3267.	3800.	2010.	4210.
4	1680.	1260.	1708.	1063.	568.
5	458.	583.	255.	679.	386.
6	412.	71.	13.	102.	212.
7	260.	186.	56.	54.	81.
=====					
Total	27044.	32588.	34379.	27736.	27053.
AGE	1987	1988	1989	1990	1991
0	0.	0.	0.	0.	0.
1	13731.	11841.	3733.	6290.	7269.
2	8206.	9573.	5637.	2284.	5129.
3	2389.	2412.	1742.	1421.	1098.
4	1141.	1095.	547.	358.	558.
5	127.	314.	146.	67.	73.
6	120.	82.	28.	33.	11.
7	248.	102.	14.	20.	6.
=====					
Total	25963.	25418.	11846.	10473.	14145.
AGE	1992	1993	1994	1995	1996
0	0.	0.	0.	0.	0.
1	5789.	8553.	9553.	11784.	13710.
2	4285.	4683.	5667.	6986.	9327.
3	1251.	1111.	1690.	1801.	2638.
4	334.	176.	639.	818.	905.
5	268.	127.	77.	274.	179.
6	6.	102.	62.	22.	71.
7	6.	14.	33.	7.	15.
=====					
Total	11940.	14765.	17721.	21691.	26844.
AGE	1997	1998	1999	2000	2001
0	0.	0.	0.	0.	0.
1	8782.	7587.	7827.	6277.	5050.
2	10813.	8835.	9311.	9476.	11029.
3	3895.	6160.	5833.	6317.	6701.
4	1082.	1859.	2399.	2934.	3266.
5	391.	476.	896.	1310.	1420.
6	43.	74.	263.	307.	649.
7	20.	6.	92.	149.	241.
=====					
Total	25027.	24997.	26622.	26769.	28356.

JAN-1 Biomass

AGE	2002	2003	2004	2005	2006
0	0.	0.	0.	0.	0.
1	5896.	7797.	5920.	12609.	4119.
2	12160.	11827.	13439.	9878.	14478.
3	8738.	9487.	9768.	10670.	8298.
4	3878.	5951.	6279.	5503.	7492.
5	2014.	2681.	4270.	3766.	3118.
6	871.	1586.	1762.	2627.	2224.
7	252.	961.	1529.	4838.	2092.
=====					
Total	33808.	40291.	42967.	49892.	41822.

AGE	2007
0	0.
1	7956.
2	6019.
3	14449.
4	5999.
5	6021.
6	2044.
7	3487.
=====	
Total	45974.

Mean Biomass

AGE	1982	1983	1984	1985	1986
0	16087.	16581.	10100.	12194.	11753.
1	11631.	14235.	15984.	10108.	11100.
2	5317.	6712.	5157.	7706.	4866.
3	2118.	2624.	2198.	1248.	2609.
4	1017.	545.	1128.	754.	311.
5	206.	124.	188.	425.	215.
6	270.	39.	9.	56.	115.
7	174.	106.	28.	26.	37.
=====					
Total	36820.	40967.	34792.	32517.	31005.
AGE	1987	1988	1989	1990	1991
0	9955.	3553.	4940.	6569.	3633.
1	12427.	9016.	2893.	6200.	5664.
2	4762.	4700.	3219.	1761.	2898.
3	1775.	1425.	963.	975.	699.
4	717.	520.	236.	186.	412.
5	110.	129.	76.	34.	33.
6	86.	41.	11.	22.	7.
7	137.	44.	6.	10.	3.
=====					
Total	29970.	19428.	12344.	15756.	13350.
AGE	1992	1993	1994	1995	1996
0	6894.	7651.	10904.	13390.	8335.
1	6592.	8002.	9362.	11560.	12427.
2	2523.	2905.	3293.	4375.	5798.
3	627.	954.	1397.	1394.	1946.
4	211.	118.	457.	432.	633.
5	191.	87.	48.	162.	95.
6	3.	63.	50.	14.	41.
7	3.	8.	19.	4.	9.
=====					
Total	17043.	19789.	25530.	31332.	29284.
AGE	1997	1998	1999	2000	2001
0	5528.	7245.	3700.	1948.	3139.
1	8749.	9916.	8092.	10341.	12365.
2	8247.	7418.	7354.	8809.	10417.
3	2842.	3921.	4252.	4770.	5251.
4	667.	1366.	1899.	2114.	2703.
5	210.	423.	591.	1029.	1222.
6	29.	44.	172.	211.	466.
7	12.	4.	56.	90.	160.
=====					
Total	26283.	30337.	26116.	29312.	35722.

Mean Biomass

AGE	2002	2003	2004	2005	2006
0	4669.	3539.	11806.	3105.	4207.
1	10839.	12733.	9731.	13127.	5297.
2	10783.	11398.	12577.	9061.	14823.
3	6934.	8032.	7603.	8904.	7236.
4	3247.	5572.	5160.	4133.	6769.
5	1855.	2380.	3449.	2776.	2578.
6	692.	1314.	1327.	1972.	1979.
7	180.	695.	1081.	3497.	1545.
=====					
Total	39199.	45663.	52735.	46576.	44433.

Spawning Stock Biomass

AGE	1982	1983	1984	1985	1986
0	6595.	6845.	4163.	4979.	5008.
1	9178.	10188.	12372.	7959.	8221.
2	3723.	4428.	2583.	4951.	2891.
3	1488.	1954.	1319.	716.	1454.
4	698.	319.	794.	473.	165.
5	98.	23.	123.	261.	143.
6	193.	33.	7.	40.	56.
7	127.	65.	15.	14.	17.
=====					
Total	22100.	23855.	21374.	19392.	17955.
AGE	1987	1988	1989	1990	1991
0	4283.	1402.	2237.	2691.	1957.
1	9483.	5926.	2250.	4978.	4272.
2	2894.	2271.	1771.	1245.	1567.
3	1271.	723.	476.	662.	418.
4	401.	209.	96.	96.	306.
5	90.	43.	43.	16.	10.
6	56.	14.	8.	12.	6.
7	83.	19.	2.	6.	2.
=====					
Total	18560.	10609.	6882.	9706.	8537.
AGE	1992	1993	1994	1995	1996
0	3065.	3415.	4390.	5188.	3294.
1	4749.	5758.	6981.	9106.	10312.
2	1383.	1954.	2118.	3019.	4325.
3	252.	725.	965.	1035.	1297.
4	149.	88.	321.	232.	454.
5	124.	69.	27.	91.	54.
6	1.	51.	36.	8.	28.
7	1.	6.	13.	2.	6.
=====					
Total	9724.	12067.	14851.	18682.	19770.
AGE	1997	1998	1999	2000	2001
0	2647.	2909.	2090.	1561.	1916.
1	8047.	8659.	8274.	9880.	11147.
2	6626.	6178.	6516.	7175.	9077.
3	2122.	2790.	3298.	3677.	4272.
4	531.	1022.	1472.	1610.	2214.
5	101.	305.	373.	748.	970.
6	25.	33.	118.	165.	436.
7	8.	2.	38.	59.	115.
=====					
Total	20106.	21899.	22179.	24875.	30147.

Spawning Stock Biomass

AGE	2002	2003	2004	2005	2006
0	2598.	1991.	3819.	1450.	2471.
1	10522.	12056.	9105.	12854.	5302.
2	9709.	10067.	11018.	8384.	14339.
3	6276.	6793.	6099.	7930.	6378.
4	2858.	4652.	4162.	3414.	6267.
5	1671.	1940.	2868.	2392.	2205.
6	706.	1270.	1385.	2577.	2316.
7	139.	543.	828.	2732.	1229.
=====					
Total	34479.	39311.	39284.	41733.	40508.

Catch Biomass

AGE	1982	1983	1984	1985	1986
0	1357.	1182.	1191.	601.	491.
1	8119.	11860.	10526.	6259.	7764.
2	6252.	7812.	9767.	11021.	7385.
3	1353.	2345.	3326.	1960.	4387.
4	625.	871.	1244.	856.	550.
5	324.	483.	205.	579.	279.
6	179.	41.	13.	80.	192.
7	116.	112.	39.	38.	61.
=====					
Total	18325.	24706.	26312.	21393.	21110.
AGE	1987	1988	1989	1990	1991
0	294.	251.	200.	468.	145.
1	7608.	9518.	2203.	3796.	4945.
2	7056.	9087.	5282.	1771.	5018.
3	1879.	2415.	1766.	1163.	880.
4	1056.	1120.	522.	340.	393.
5	72.	301.	124.	64.	81.
6	97.	74.	22.	28.	9.
7	155.	79.	11.	13.	4.
=====					
Total	18215.	22844.	10130.	7643.	11474.
AGE	1992	1993	1994	1995	1996
0	335.	339.	581.	231.	53.
1	5263.	5460.	5471.	3130.	3532.
2	4513.	3915.	4393.	4951.	5288.
3	1375.	827.	1329.	1308.	1928.
4	210.	121.	430.	651.	644.
5	189.	84.	71.	202.	139.
6	5.	56.	48.	15.	41.
7	4.	7.	19.	4.	9.
=====					
Total	11894.	10810.	12342.	10492.	11634.
AGE	1997	1998	1999	2000	2001
0	6.	12.	26.	1.	1.
1	1150.	1094.	811.	781.	1571.
2	5141.	4134.	3718.	5513.	3646.
3	2727.	4504.	3600.	4320.	3617.
4	682.	1295.	1671.	2034.	1874.
5	360.	333.	715.	821.	779.
6	28.	49.	149.	192.	319.
7	12.	4.	49.	82.	110.
=====					
Total	10107.	11424.	10739.	13745.	11917.

Catch Biomass

AGE	2002	2003	2004	2005	2006
0	40.	39.	33.	49.	28.
1	560.	803.	544.	831.	475.
2	3982.	3747.	4189.	2572.	3463.
3	3678.	4138.	4538.	3754.	3145.
4	1785.	2417.	2571.	2616.	2268.
5	670.	1167.	1347.	1577.	1429.
6	360.	643.	716.	963.	812.
7	94.	340.	583.	1708.	682.
=====					
Total	11168.	13293.	14520.	14071.	12302.

Catch Numbers

AGE	1982	1983	1984	1985	1986
0	5344.0	4925.0	4802.0	2078.0	1942.0
1	19423.0	28441.0	26582.0	14623.0	17140.0
2	10149.0	10911.0	15454.0	17979.0	11055.0
3	935.0	2181.0	3180.0	1767.0	3782.0
4	328.0	693.0	829.0	496.0	316.0
5	116.0	323.0	95.0	252.0	140.0
6	67.0	16.0	4.0	30.0	58.0
7	30.0	43.0	10.0	8.0	15.0
=====					
Total	36392.0	47533.0	50956.0	37233.0	34448.0
AGE	1987	1988	1989	1990	1991
0	1137.0	795.0	960.0	1856.0	1001.0
1	17212.0	20557.0	4790.0	8808.0	12149.0
2	10838.0	14562.0	7306.0	2187.0	7148.0
3	1648.0	2137.0	1692.0	995.0	742.0
4	544.0	644.0	353.0	221.0	217.0
5	25.0	121.0	55.0	30.0	32.0
6	29.0	19.0	9.0	8.0	3.0
7	44.0	21.0	4.0	3.0	1.0
=====					
Total	31477.0	38856.0	15169.0	14108.0	21293.0
AGE	1992	1993	1994	1995	1996
0	1368.0	1285.0	1638.0	592.0	162.0
1	11197.0	11235.0	10362.0	5828.0	6925.0
2	6026.0	5601.0	6996.0	7303.0	9278.0
3	1125.0	566.0	982.0	1239.0	1785.0
4	151.0	73.0	205.0	397.0	417.0
5	70.0	45.0	26.0	77.0	71.0
6	2.0	20.0	14.0	4.0	16.0
7	1.0	3.0	5.0	1.0	3.0
=====					
Total	19940.0	18828.0	20228.0	15441.0	18657.0
AGE	1997	1998	1999	2000	2001
0	30.0	45.0	181.0	22.0	11.0
1	2545.0	2233.0	2185.0	1538.0	2888.0
2	8046.0	6380.0	6260.0	7967.0	4760.0
3	3149.0	5243.0	4018.0	4670.0	3737.0
4	553.0	980.0	1161.0	1529.0	1293.0
5	160.0	138.0	358.0	370.0	363.0
6	11.0	19.0	55.0	74.0	123.0
7	4.0	1.0	14.0	29.0	33.0
=====					
Total	14498.0	15039.0	14232.0	16199.0	13208.0

Catch Numbers

AGE	2002	2003	2004	2005	2006
0	272.0	259.0	107.0	245.0	191.0
1	1135.0	1583.0	1053.0	1936.0	1072.0
2	5411.0	4937.0	5668.0	3717.0	5070.0
3	3839.0	4002.0	4688.0	4045.0	3276.0
4	1302.0	1579.0	1907.0	2206.0	1796.0
5	319.0	563.0	769.0	1049.0	869.0
6	135.0	233.0	304.0	510.0	372.0
7	25.0	86.0	156.0	470.0	180.0
=====					
Total	12438.0	13242.0	14652.0	14178.0	12826.0

Surplus Production

Average Adjustment Factor (Delta) = 1.0000

Year	Biomass	Delta Biomass	Catch Biomass	Surplus Production
1982	27044.244	5544.020	18325.256	23869.276
1983	32588.264	1790.651	24705.643	26496.294
1984	34378.915	-6642.992	26311.969	19668.977
1985	27735.923	-683.298	21392.794	20709.496
1986	27052.624	-1089.676	21109.693	20020.017
1987	25962.949	-545.437	18215.288	17669.851
1988	25417.512	-13571.657	22844.063	9272.406
1989	11845.855	-1372.765	10129.975	8757.210
1990	10473.090	3671.898	7642.899	11314.797
1991	14144.988	-2205.229	11473.644	9268.415
1992	11939.759	2825.649	11893.667	14719.316
1993	14765.408	2955.978	10809.985	13765.963
1994	17721.386	3969.841	12342.219	16312.060
1995	21691.227	5152.681	10492.420	15645.101
1996	26843.909	-1817.382	11634.385	9817.003
1997	25026.527	-29.288	10107.389	10078.101
1998	24997.239	1624.348	11423.908	13048.256
1999	26621.587	146.933	10739.415	10886.348
2000	26768.520	1587.579	13744.550	15332.129
2001	28356.098	5451.901	11917.151	17369.052
2002	33807.999	6482.626	11167.880	17650.506
2003	40290.625	2676.324	13293.127	15969.451
2004	42966.949	6924.880	14520.135	21445.015
2005	49891.829	-8069.711	14070.761	6001.050
2006	41822.118	4151.659	12302.217	16453.876
2007	45973.776			

Summary of Survey Indices Used in the Estimate

INDEX	Survey Tag	Age	Time	Type	Catchability	Std. Error	CV
1	NEC_W	1	JAN-1	NUMBER	0.1420E-03	0.2696E-04	0.1899E+00
2	NEC_W	2	JAN-1	NUMBER	0.4165E-03	0.4567E-04	0.1097E+00
3	NEC_W	3	JAN-1	NUMBER	0.3412E-03	0.4563E-04	0.1337E+00
4	NEC_W	4	JAN-1	NUMBER	0.3376E-03	0.6751E-04	0.2000E+00
5	NEC_W	5 - 7	JAN-1	NUMBER	0.4480E-03	0.7427E-04	
0.1658E+00							
6	NEC_S	1	JAN-1	NUMBER	0.1382E-04	0.1966E-05	0.1423E+00
7	NEC_S	2	JAN-1	NUMBER	0.3792E-04	0.3796E-05	0.1001E+00
8	NEC_S	3	JAN-1	NUMBER	0.3442E-04	0.5555E-05	0.1614E+00
9	NEC_S	4	JAN-1	NUMBER	0.3840E-04	0.4764E-05	0.1241E+00
10	NEC_S	5 - 7	JAN-1	NUMBER	0.6527E-04	0.8139E-05	
0.1247E+00							
11	NEC_F	2	JAN-1	NUMBER	0.6761E-04	0.4435E-05	0.6560E-01
12	NEC_F	3	JAN-1	NUMBER	0.8110E-04	0.1039E-04	0.1281E+00
13	NEC_F	4	JAN-1	NUMBER	0.7563E-04	0.1069E-04	0.1413E+00
15	MA_S	2	JAN-1	NUMBER	0.4066E-04	0.7665E-05	0.1885E+00
16	MA_S	3	JAN-1	NUMBER	0.4324E-04	0.7101E-05	0.1642E+00
18	MA_F	3	JAN-1	NUMBER	0.1682E-03	0.1785E-04	0.1061E+00
19	MA_F	4	JAN-1	NUMBER	0.6573E-04	0.1295E-04	0.1970E+00
21	CT_S	2	JAN-1	NUMBER	0.1735E-04	0.2786E-05	0.1606E+00
22	CT_S	3	JAN-1	NUMBER	0.1847E-04	0.2841E-05	0.1539E+00
23	CT_S	4	JAN-1	NUMBER	0.2959E-04	0.5606E-05	0.1894E+00
24	CT_F	2	JAN-1	NUMBER	0.4258E-04	0.6790E-05	0.1595E+00
25	CT_F	3	JAN-1	NUMBER	0.1078E-03	0.1382E-04	0.1282E+00
26	CT_F	4	JAN-1	NUMBER	0.8821E-04	0.1220E-04	0.1383E+00
27	CT_F	5 - 7	JAN-1	NUMBER	0.6061E-04	0.1057E-04	
0.1743E+00							
29	RI_F	3	JAN-1	NUMBER	0.1115E-03	0.1700E-04	0.1525E+00
30	RI_F	4	JAN-1	NUMBER	0.8545E-04	0.1805E-04	0.2112E+00
31	RI_X	1	JAN-1	NUMBER	0.1045E-04	0.2173E-05	0.2080E+00
32	RI_X	2 - 7	JAN-1	NUMBER	0.2095E-04	0.3534E-05	
0.1687E+00							
33	NJ	1	JAN-1	NUMBER	0.1582E-03	0.2363E-04	0.1493E+00
34	NJ	2	JAN-1	NUMBER	0.6880E-04	0.1540E-04	0.2238E+00
35	NJ	3	JAN-1	NUMBER	0.4369E-04	0.8036E-05	0.1839E+00
36	NJ	4 - 7	JAN-1	NUMBER	0.5884E-04	0.1018E-04	
0.1730E+00							
40	CT_Y	0	JAN-1	NUMBER	0.1846E-05	0.3986E-06	0.2160E+00
41	VA_CRY	0	JAN-1	NUMBER	0.2820E-04	0.3220E-05	0.1142E+00
43	MD_Y	0	JAN-1	NUMBER	0.2388E-03	0.3044E-04	0.1275E+00
44	NJ_Y	0	JAN-1	NUMBER	0.3928E-04	0.5839E-05	0.1487E+00
45	NEC_Y	0	JAN-1	NUMBER	0.8183E-05	0.1233E-05	0.1507E+00
50	DE_IY	0	JAN-1	NUMBER	0.5487E-05	0.1072E-05	0.1954E+00
51	RI_XY	0	JAN-1	NUMBER	0.1057E-05	0.2145E-06	0.2028E+00

Survey Index: 1 Tag: NEC_W AGE = 1
 Time = JAN-1 Type = NUMBER
 Catchability = 0.141956E-03 % Variance Contribution = 2.0475
 Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.598569E+01	N/A
1983	N/A	0.777287E+01	N/A
1984	N/A	0.853730E+01	N/A
1985	N/A	0.491096E+01	N/A
1986	N/A	0.527415E+01	N/A
1987	N/A	0.582907E+01	N/A
1988	N/A	0.485400E+01	N/A
1989	N/A	0.138973E+01	N/A
1990	N/A	0.298243E+01	N/A
1991	N/A	0.322155E+01	N/A
1992	0.715000E+01	0.314747E+01	0.820512E+00
1993	0.650000E+01	0.351828E+01	0.613829E+00
1994	0.376000E+01	0.363184E+01	0.346795E-01
1995	0.607000E+01	0.383134E+01	0.460143E+00
1996	0.221700E+02	0.436362E+01	0.162544E+01
1997	0.386000E+01	0.322818E+01	0.178748E+00
1998	0.168000E+01	0.334148E+01	-0.687619E+00
1999	0.211000E+01	0.358412E+01	-0.529825E+00
2000	0.700000E+00	0.330610E+01	-0.155244E+01
2001	0.307000E+01	0.378308E+01	-0.208860E+00
2002	0.277000E+01	0.353003E+01	-0.242458E+00
2003	0.817000E+01	0.405456E+01	0.700627E+00
2004	0.145000E+01	0.302842E+01	-0.736479E+00
2005	0.296000E+01	0.494054E+01	-0.512284E+00
2006	0.264000E+01	0.195512E+01	0.300327E+00
2007	0.277000E+01	0.360810E+01	-0.264333E+00

Survey Index: 2 Tag: NEC_W AGE = 2
 Time = JAN-1 Type = NUMBER
 Catchability = 0.416467E-03 % Variance Contribution = 0.6825
 Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.661760E+01	N/A
1983	N/A	0.715387E+01	N/A
1984	N/A	0.811568E+01	N/A
1985	N/A	0.106140E+02	N/A
1986	N/A	0.635063E+01	N/A
1987	N/A	0.629400E+01	N/A
1988	N/A	0.759106E+01	N/A
1989	N/A	0.405717E+01	N/A
1990	N/A	0.155847E+01	N/A
1991	N/A	0.388338E+01	N/A
1992	0.474000E+01	0.323239E+01	0.382815E+00
1993	0.670000E+01	0.340259E+01	0.677570E+00

1994	0.720000E+01	0.427136E+01	0.522148E+00
1995	0.459000E+01	0.486275E+01	-0.577246E-01
1996	0.833000E+01	0.702008E+01	0.171089E+00
1997	0.480000E+01	0.788832E+01	-0.496768E+00
1998	0.325000E+01	0.679865E+01	-0.738069E+00
1999	0.480000E+01	0.718760E+01	-0.403742E+00
2000	0.652000E+01	0.778831E+01	-0.177749E+00
2001	0.533000E+01	0.736328E+01	-0.323154E+00
2002	0.107400E+02	0.800265E+01	0.294202E+00
2003	0.143600E+02	0.805239E+01	0.578477E+00
2004	0.868000E+01	0.914402E+01	-0.520787E-01
2005	0.403000E+01	0.687841E+01	-0.534621E+00
2006	0.906000E+01	0.111395E+02	-0.206624E+00
2007	0.618000E+01	0.429345E+01	0.364228E+00

Survey Index: 3 Tag: NEC_W AGE = 3
Time = JAN-1 Type = NUMBER
Catchability = 0.341157E-03 % Variance Contribution = 1.0150
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
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1982	N/A	0.737683E+00	N/A
1983	N/A	0.136957E+01	N/A
1984	N/A	0.149823E+01	N/A
1985	N/A	0.819107E+00	N/A
1986	N/A	0.170322E+01	N/A
1987	N/A	0.933731E+00	N/A
1988	N/A	0.959302E+00	N/A
1989	N/A	0.736510E+00	N/A
1990	N/A	0.527252E+00	N/A
1991	N/A	0.382213E+00	N/A
1992	0.330000E+00	0.460926E+00	-0.334145E+00
1993	0.310000E+00	0.362255E+00	-0.155775E+00
1994	0.820000E+00	0.592924E+00	0.324238E+00
1995	0.250000E+00	0.754462E+00	-0.110454E+01
1996	0.600000E+00	0.105167E+01	-0.561201E+00
1997	0.104000E+01	0.189128E+01	-0.598034E+00
1998	0.229000E+01	0.283631E+01	-0.213951E+00
1999	0.290000E+01	0.261156E+01	0.104763E+00
2000	0.496000E+01	0.290745E+01	0.534129E+00
2001	0.642000E+01	0.279342E+01	0.832150E+00
2002	0.558000E+01	0.347996E+01	0.472167E+00
2003	0.848000E+01	0.370984E+01	0.826721E+00
2004	0.456000E+01	0.388738E+01	0.159588E+00
2005	0.307000E+01	0.439558E+01	-0.358922E+00
2006	0.429000E+01	0.347310E+01	0.211240E+00
2007	0.515000E+01	0.591459E+01	-0.138425E+00

Survey Index: 4 Tag: NEC_W AGE = 4
Time = JAN-1 Type = NUMBER
Catchability = 0.337567E-03 % Variance Contribution = 2.2698
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.263309E+00	N/A
1983	N/A	0.315483E+00	N/A
1984	N/A	0.454103E+00	N/A
1985	N/A	0.267158E+00	N/A
1986	N/A	0.138030E+00	N/A
1987	N/A	0.256767E+00	N/A
1988	N/A	0.262477E+00	N/A
1989	N/A	0.142701E+00	N/A
1990	N/A	0.953159E-01	N/A
1991	N/A	0.129526E+00	N/A
1992	0.400000E-01	0.879242E-01	-0.787596E+00
1993	0.500000E-01	0.416751E-01	0.182118E+00
1994	0.260000E+00	0.123309E+00	0.745987E+00
1995	0.200000E-01	0.185508E+00	-0.222737E+01
1996	0.120000E+00	0.239137E+00	-0.689543E+00
1997	0.430000E+00	0.316386E+00	0.306821E+00
1998	0.420000E+00	0.586846E+00	-0.334508E+00
1999	0.840000E+00	0.728459E+00	0.142470E+00
2000	0.251000E+01	0.907322E+00	0.101754E+01
2001	0.244000E+01	0.952268E+00	0.940907E+00
2002	0.226000E+01	0.113631E+01	0.687579E+00
2003	0.267000E+01	0.165875E+01	0.476015E+00
2004	0.164000E+01	0.179541E+01	-0.905359E-01
2005	0.134000E+01	0.173371E+01	-0.257592E+00
2006	0.247000E+01	0.233605E+01	0.557554E-01
2007	0.154000E+01	0.182181E+01	-0.168048E+00

Survey Index: 5 Tag: NEC_W AGE = 5 - 7
Time = JAN-1 Type = NUMBER
Catchability = 0.447993E-03 % Variance Contribution = 1.3646
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.168212E+00	N/A
1983	N/A	0.198627E+00	N/A
1984	N/A	0.783709E-01	N/A
1985	N/A	0.187970E+00	N/A
1986	N/A	0.136512E+00	N/A
1987	N/A	0.780604E-01	N/A
1988	N/A	0.870151E-01	N/A
1989	N/A	0.404212E-01	N/A
1990	N/A	0.243346E-01	N/A
1991	N/A	0.194429E-01	N/A
1992	0.400000E-01	0.560117E-01	-0.336682E+00
1993	0.400000E-01	0.544552E-01	-0.308499E+00
1994	0.100000E-01	0.312442E-01	-0.113925E+01
1995	N/A	0.560531E-01	N/A
1996	0.300000E-01	0.592879E-01	-0.681208E+00
1997	0.150000E+00	0.105502E+00	0.351905E+00
1998	0.120000E+00	0.138226E+00	-0.141402E+00
1999	0.410000E+00	0.305012E+00	0.295807E+00

2000	0.108000E+01	0.412287E+00	0.962997E+00
2001	0.134000E+01	0.530297E+00	0.926987E+00
2002	0.133000E+01	0.710651E+00	0.626753E+00
2003	0.196000E+01	0.111677E+01	0.562500E+00
2004	0.144000E+01	0.170866E+01	-0.171066E+00
2005	0.149000E+01	0.242867E+01	-0.488567E+00
2006	0.258000E+01	0.179781E+01	0.361219E+00
2007	0.119000E+01	0.270594E+01	-0.821496E+00

Survey Index: 6 Tag: NEC_S AGE = 1
Time = JAN-1 Type = NUMBER
Catchability = 0.138176E-04 % Variance Contribution = 3.1103
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	0.700000E+00	0.582628E+00	0.183531E+00
1983	0.320000E+00	0.756587E+00	-0.860497E+00
1984	0.170000E+00	0.830994E+00	-0.158682E+01
1985	0.550000E+00	0.478018E+00	0.140270E+00
1986	0.148000E+01	0.513370E+00	0.105880E+01
1987	0.470000E+00	0.567384E+00	-0.188303E+00
1988	0.600000E+00	0.472474E+00	0.238948E+00
1989	0.600000E-01	0.135272E+00	-0.812943E+00
1990	0.630000E+00	0.290300E+00	0.774804E+00
1991	0.790000E+00	0.313575E+00	0.923993E+00
1992	0.770000E+00	0.306365E+00	0.921612E+00
1993	0.730000E+00	0.342459E+00	0.756893E+00
1994	0.350000E+00	0.353512E+00	-0.998476E-02
1995	0.790000E+00	0.372931E+00	0.750639E+00
1996	0.108000E+01	0.424742E+00	0.933235E+00
1997	0.290000E+00	0.314221E+00	-0.802170E-01
1998	0.270000E+00	0.325249E+00	-0.186170E+00
1999	0.220000E+00	0.348867E+00	-0.461064E+00
2000	0.190000E+00	0.321806E+00	-0.526923E+00
2001	0.480000E+00	0.368233E+00	0.265070E+00
2002	0.340000E+00	0.343602E+00	-0.105380E-01
2003	0.540000E+00	0.394658E+00	0.313549E+00
2004	0.300000E+00	0.294777E+00	0.175616E-01
2005	0.260000E+00	0.480897E+00	-0.614971E+00
2006	0.400000E-01	0.190305E+00	-0.155975E+01
2007	0.240000E+00	0.351201E+00	-0.380720E+00

Survey Index: 7 Tag: NEC_S AGE = 2
Time = JAN-1 Type = NUMBER
Catchability = 0.379163E-04 % Variance Contribution = 1.5403
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	0.143000E+01	0.602485E+00	0.864367E+00
1983	0.390000E+00	0.651308E+00	-0.512836E+00
1984	0.330000E+00	0.738874E+00	-0.806035E+00

1985	0.156000E+01	0.966324E+00	0.478942E+00
1986	0.430000E+00	0.578179E+00	-0.296098E+00
1987	0.430000E+00	0.573023E+00	-0.287141E+00
1988	0.810000E+00	0.691111E+00	0.158733E+00
1989	0.230000E+00	0.369376E+00	-0.473735E+00
1990	0.300000E-01	0.141888E+00	-0.155384E+01
1991	0.270000E+00	0.353554E+00	-0.269615E+00
1992	0.410000E+00	0.294286E+00	0.331606E+00
1993	0.500000E+00	0.309782E+00	0.478741E+00
1994	0.530000E+00	0.388877E+00	0.309614E+00
1995	0.270000E+00	0.442719E+00	-0.494512E+00
1996	0.560000E+00	0.639127E+00	-0.132167E+00
1997	0.670000E+00	0.718175E+00	-0.694357E-01
1998	0.520000E+00	0.618968E+00	-0.174224E+00
1999	0.740000E+00	0.654379E+00	0.122963E+00
2000	0.103000E+01	0.709069E+00	0.373361E+00
2001	0.890000E+00	0.670373E+00	0.283387E+00
2002	0.890000E+00	0.728584E+00	0.200119E+00
2003	0.129000E+01	0.733112E+00	0.565099E+00
2004	0.145000E+01	0.832497E+00	0.554889E+00
2005	0.650000E+00	0.626230E+00	0.372553E-01
2006	0.104000E+01	0.101417E+01	0.251533E-01
2007	0.520000E+00	0.390888E+00	0.285409E+00

Survey Index: 8 Tag: NEC_S AGE = 3
Time = JAN-1 Type = NUMBER
Catchability = 0.344239E-04 % Variance Contribution = 3.6939
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	0.120000E+00	0.744349E-01	0.477567E+00
1983	0.190000E+00	0.138195E+00	0.318360E+00
1984	0.900000E-01	0.151176E+00	-0.518638E+00
1985	0.210000E+00	0.826507E-01	0.932484E+00
1986	0.200000E+00	0.171860E+00	0.151635E+00
1987	0.200000E-01	0.942168E-01	-0.154987E+01
1988	0.700000E-01	0.967969E-01	-0.324120E+00
1989	0.200000E-01	0.743165E-01	-0.131260E+01
1990	0.600000E-01	0.532016E-01	0.120257E+00
1991	N/A	0.385666E-01	N/A
1992	0.100000E-01	0.465091E-01	-0.153706E+01
1993	0.400000E-01	0.365528E-01	0.901224E-01
1994	0.400000E-01	0.598281E-01	-0.402597E+00
1995	0.200000E-01	0.761279E-01	-0.133668E+01
1996	0.120000E+00	0.106117E+00	0.122951E+00
1997	0.900000E-01	0.190837E+00	-0.751609E+00
1998	0.320000E+00	0.286193E+00	0.111653E+00
1999	0.480000E+00	0.263515E+00	0.599674E+00
2000	0.630000E+00	0.293372E+00	0.764278E+00
2001	0.102000E+01	0.281866E+00	0.128613E+01
2002	0.740000E+00	0.351140E+00	0.745464E+00
2003	0.590000E+00	0.374336E+00	0.454968E+00
2004	0.850000E+00	0.392250E+00	0.773337E+00
2005	0.580000E+00	0.443529E+00	0.268264E+00

2006	0.240000E+00	0.350448E+00	-0.378572E+00
2007	0.146000E+01	0.596803E+00	0.894605E+00

Survey Index: 9 Tag: NEC_S AGE = 4
 Time = JAN-1 Type = NUMBER
 Catchability = 0.383975E-04 % Variance Contribution = 1.5288
 Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	0.200000E-01	0.299508E-01	-0.403824E+00
1983	0.300000E-01	0.358854E-01	-0.179133E+00
1984	0.500000E-01	0.516531E-01	-0.325277E-01
1985	0.400000E-01	0.303886E-01	0.274811E+00
1986	0.200000E-01	0.157005E-01	0.242037E+00
1987	0.100000E-01	0.292066E-01	-0.107181E+01
1988	0.200000E-01	0.298561E-01	-0.400658E+00
1989	0.100000E-01	0.162319E-01	-0.484396E+00
1990	N/A	0.108420E-01	N/A
1991	0.200000E-01	0.147333E-01	0.305621E+00
1992	N/A	0.100012E-01	N/A
1993	N/A	0.474045E-02	N/A
1994	0.100000E-01	0.140261E-01	-0.338337E+00
1995	N/A	0.211011E-01	N/A
1996	N/A	0.272012E-01	N/A
1997	0.100000E-01	0.359882E-01	-0.128061E+01
1998	0.600000E-01	0.667524E-01	-0.106645E+00
1999	0.130000E+00	0.828605E-01	0.450376E+00
2000	0.120000E+00	0.103206E+00	0.150767E+00
2001	0.200000E+00	0.108318E+00	0.613244E+00
2002	0.310000E+00	0.129253E+00	0.874804E+00
2003	0.290000E+00	0.188679E+00	0.429836E+00
2004	0.270000E+00	0.204223E+00	0.279208E+00
2005	0.150000E+00	0.197205E+00	-0.273608E+00
2006	0.250000E+00	0.265720E+00	-0.609837E-01
2007	0.570000E+00	0.207227E+00	0.101182E+01

Survey Index: 10 Tag: NEC_S AGE = 5 - 7
 Time = JAN-1 Type = NUMBER
 Catchability = 0.652723E-04 % Variance Contribution = 0.8825
 Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.245084E-01	N/A
1983	0.200000E-01	0.289398E-01	-0.369487E+00
1984	0.200000E-01	0.114186E-01	0.560489E+00
1985	0.200000E-01	0.273872E-01	-0.314342E+00
1986	0.100000E-01	0.198897E-01	-0.687616E+00
1987	N/A	0.113734E-01	N/A
1988	N/A	0.126780E-01	N/A
1989	N/A	0.588935E-02	N/A
1990	N/A	0.354554E-02	N/A

1991	N/A	0.283282E-02	N/A
1992	0.100000E-01	0.816088E-02	0.203233E+00
1993	N/A	0.793409E-02	N/A
1994	N/A	0.455226E-02	N/A
1995	0.100000E-01	0.816690E-02	0.202496E+00
1996	N/A	0.863821E-02	N/A
1997	N/A	0.153716E-01	N/A
1998	0.200000E-01	0.201395E-01	-0.695188E-02
1999	0.300000E-01	0.444400E-01	-0.392943E+00
2000	0.170000E+00	0.600700E-01	0.104029E+01
2001	0.100000E+00	0.772640E-01	0.257942E+00
2002	0.190000E+00	0.103541E+00	0.607052E+00
2003	0.210000E+00	0.162713E+00	0.255117E+00
2004	0.150000E+00	0.248951E+00	-0.506620E+00
2005	0.170000E+00	0.353856E+00	-0.733091E+00
2006	0.200000E+00	0.261940E+00	-0.269798E+00
2007	0.460000E+00	0.394254E+00	0.154231E+00

Survey Index: 11 Tag: NEC_F AGE = 2
Time = JAN-1 Type = NUMBER
Catchability = 0.676126E-04 % Variance Contribution = 0.6105
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
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1982	N/A	0.107435E+01	N/A
1983	0.152000E+01	0.116142E+01	0.269071E+00
1984	0.146000E+01	0.131756E+01	0.102652E+00
1985	0.139000E+01	0.172315E+01	-0.214852E+00
1986	0.800000E+00	0.103101E+01	-0.253684E+00
1987	0.830000E+00	0.102182E+01	-0.207913E+00
1988	0.580000E+00	0.123239E+01	-0.753685E+00
1989	0.620000E+00	0.658673E+00	-0.605070E-01
1990	0.210000E+00	0.253015E+00	-0.186340E+00
1991	0.380000E+00	0.630459E+00	-0.506278E+00
1992	0.840000E+00	0.524772E+00	0.470438E+00
1993	0.104000E+01	0.552404E+00	0.632696E+00
1994	0.800000E+00	0.693447E+00	0.142937E+00
1995	0.670000E+00	0.789458E+00	-0.164069E+00
1996	0.116000E+01	0.113969E+01	0.176594E-01
1997	0.124000E+01	0.128065E+01	-0.322590E-01
1998	0.129000E+01	0.110375E+01	0.155932E+00
1999	0.213000E+01	0.116689E+01	0.601778E+00
2000	0.173000E+01	0.126442E+01	0.313511E+00
2001	0.120000E+01	0.119541E+01	0.383002E-02
2002	0.136000E+01	0.129921E+01	0.457252E-01
2003	0.117000E+01	0.130729E+01	-0.110952E+00
2004	0.131000E+01	0.148451E+01	-0.125060E+00
2005	0.149000E+01	0.111670E+01	0.288402E+00
2006	0.114000E+01	0.180847E+01	-0.461451E+00
2007	0.720000E+00	0.697033E+00	0.324187E-01

Survey Index: 12 Tag: NEC_F AGE = 3
Time = JAN-1 Type = NUMBER
Catchability = 0.811036E-04 % Variance Contribution = 2.3297

Residual = LN(Observed) - LN(Predicted)

Year Observed Predicted Residual

1982	N/A	0.175370E+00	N/A
1983	0.400000E+00	0.325590E+00	0.205825E+00
1984	0.340000E+00	0.356175E+00	-0.464772E-01
1985	0.430000E+00	0.194727E+00	0.792186E+00
1986	0.460000E+00	0.404907E+00	0.127569E+00
1987	0.110000E+00	0.221977E+00	-0.702093E+00
1988	0.200000E+00	0.228056E+00	-0.131273E+00
1989	0.180000E+00	0.175091E+00	0.276487E-01
1990	0.500000E-01	0.125344E+00	-0.919040E+00
1991	0.300000E-01	0.908638E-01	-0.110816E+01
1992	0.900000E-01	0.109576E+00	-0.196813E+00
1993	0.250000E+00	0.861192E-01	0.106573E+01
1994	0.300000E-01	0.140956E+00	-0.154725E+01
1995	0.900000E-01	0.179359E+00	-0.689580E+00
1996	0.280000E+00	0.250014E+00	0.113274E+00
1997	0.570000E+00	0.449616E+00	0.237242E+00
1998	0.114000E+01	0.674278E+00	0.525141E+00
1999	0.163000E+01	0.620849E+00	0.965248E+00
2000	0.149000E+01	0.691191E+00	0.768115E+00
2001	0.122000E+01	0.664083E+00	0.608199E+00
2002	0.930000E+00	0.827295E+00	0.117023E+00
2003	0.860000E+00	0.881945E+00	-0.251973E-01
2004	0.103000E+01	0.924150E+00	0.108440E+00
2005	0.137000E+01	0.104497E+01	0.270827E+00
2006	0.540000E+00	0.825663E+00	-0.424617E+00
2007	0.122000E+01	0.140608E+01	-0.141956E+00

Survey Index: 13 Tag: NEC_F AGE = 4
 Time = JAN-1 Type = NUMBER
 Catchability = 0.756270E-04 % Variance Contribution = 2.3884
 Residual = LN(Observed) - LN(Predicted)

Year Observed Predicted Residual

1982	N/A	0.589906E-01	N/A
1983	0.300000E-01	0.706794E-01	-0.856956E+00
1984	0.120000E+00	0.101735E+00	0.165118E+00
1985	0.700000E-01	0.598530E-01	0.156604E+00
1986	0.500000E-01	0.309235E-01	0.480505E+00
1987	0.110000E+00	0.575249E-01	0.648263E+00
1988	0.300000E-01	0.588042E-01	-0.673016E+00
1989	0.300000E-01	0.319702E-01	-0.636069E-01
1990	N/A	0.213541E-01	N/A
1991	0.400000E-01	0.290185E-01	0.320945E+00
1992	N/A	0.196981E-01	N/A
1993	0.300000E-01	0.933671E-02	0.116724E+01
1994	0.100000E-01	0.276256E-01	-0.101616E+01
1995	0.100000E-01	0.415605E-01	-0.142456E+01
1996	0.200000E-01	0.535751E-01	-0.985352E+00
1997	0.400000E-01	0.708818E-01	-0.572134E+00

1998	0.290000E+00	0.131474E+00	0.791068E+00
1999	0.330000E+00	0.163201E+00	0.704111E+00
2000	0.310000E+00	0.203272E+00	0.422025E+00
2001	0.400000E+00	0.213342E+00	0.628569E+00
2002	0.370000E+00	0.254574E+00	0.373912E+00
2003	0.350000E+00	0.371619E+00	-0.599349E-01
2004	0.250000E+00	0.402235E+00	-0.475576E+00
2005	0.660000E+00	0.388412E+00	0.530174E+00
2006	0.470000E+00	0.523359E+00	-0.107535E+00
2007	0.350000E+00	0.408150E+00	-0.153702E+00

Survey Index: 15 Tag: MA_S AGE = 2
Time = JAN-1 Type = NUMBER
Catchability = 0.406577E-04 % Variance Contribution = 5.0423
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	0.158400E+01	0.646045E+00	0.896840E+00
1983	0.599000E+00	0.698398E+00	-0.153527E+00
1984	0.780000E-01	0.792295E+00	-0.231822E+01
1985	0.126000E+01	0.103619E+01	0.195562E+00
1986	0.522000E+00	0.619981E+00	-0.172022E+00
1987	0.640000E+00	0.614453E+00	0.407355E-01
1988	0.100500E+01	0.741079E+00	0.304636E+00
1989	0.363000E+00	0.396082E+00	-0.872174E-01
1990	0.210000E-01	0.152146E+00	-0.198032E+01
1991	0.500000E-01	0.379116E+00	-0.202582E+01
1992	0.342000E+00	0.315563E+00	0.804533E-01
1993	0.492000E+00	0.332179E+00	0.392805E+00
1994	0.121700E+01	0.416993E+00	0.107108E+01
1995	0.130200E+01	0.474727E+00	0.100892E+01
1996	0.686000E+00	0.685336E+00	0.967934E-03
1997	0.127900E+01	0.770099E+00	0.507314E+00
1998	0.121200E+01	0.663719E+00	0.602168E+00
1999	0.878000E+00	0.701691E+00	0.224153E+00
2000	0.165900E+01	0.760335E+00	0.780211E+00
2001	0.102600E+01	0.718841E+00	0.355782E+00
2002	0.151100E+01	0.781260E+00	0.659618E+00
2003	0.144000E+01	0.786116E+00	0.605294E+00
2004	0.283000E+00	0.892687E+00	-0.114879E+01
2005	0.351000E+00	0.671506E+00	-0.648737E+00
2006	0.244000E+01	0.108749E+01	0.808125E+00
2007	N/A	0.419149E+00	N/A

Survey Index: 16 Tag: MA_S AGE = 3
Time = JAN-1 Type = NUMBER
Catchability = 0.432367E-04 % Variance Contribution = 3.8271
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	0.142000E+00	0.934907E-01	0.417965E+00

1983	0.450000E+00	0.173574E+00	0.952646E+00
1984	0.670000E-01	0.189879E+00	-0.104169E+01
1985	0.360000E-01	0.103810E+00	-0.105904E+01
1986	0.185000E+00	0.215858E+00	-0.154264E+00
1987	0.130000E-01	0.118337E+00	-0.220859E+01
1988	0.123000E+00	0.121578E+00	0.116315E-01
1989	0.102000E+00	0.933420E-01	0.887022E-01
1990	0.810000E-01	0.668215E-01	0.192424E+00
1991	0.120000E-01	0.484399E-01	-0.139542E+01
1992	0.900000E-01	0.584157E-01	0.432225E+00
1993	0.650000E-01	0.459105E-01	0.347693E+00
1994	0.480000E-01	0.751446E-01	-0.448213E+00
1995	0.530000E-01	0.956171E-01	-0.590060E+00
1996	0.114000E+00	0.133283E+00	-0.156280E+00
1997	0.181000E+00	0.239692E+00	-0.280860E+00
1998	0.659000E+00	0.359461E+00	0.606118E+00
1999	0.111200E+01	0.330977E+00	0.121187E+01
2000	0.120500E+01	0.368477E+00	0.118486E+01
2001	0.730000E+00	0.354026E+00	0.723674E+00
2002	0.397000E+00	0.441035E+00	-0.105188E+00
2003	0.624000E+00	0.470169E+00	0.283058E+00
2004	0.323000E+00	0.492669E+00	-0.422184E+00
2005	0.102900E+01	0.557076E+00	0.613641E+00
2006	0.975000E+00	0.440165E+00	0.795289E+00
2007	N/A	0.749589E+00	N/A

Survey Index: 18 Tag: MA_F AGE = 3
Time = JAN-1 Type = NUMBER
Catchability = 0.168215E-03 % Variance Contribution = 1.5980
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	0.405000E+00	0.363731E+00	0.107472E+00
1983	0.166200E+01	0.675298E+00	0.900622E+00
1984	0.625000E+00	0.738734E+00	-0.167187E+00
1985	0.267000E+00	0.403879E+00	-0.413866E+00
1986	0.189500E+01	0.839808E+00	0.813801E+00
1987	0.679000E+00	0.460397E+00	0.388532E+00
1988	0.663000E+00	0.473005E+00	0.337669E+00
1989	0.429000E+00	0.363153E+00	0.166633E+00
1990	0.317000E+00	0.259973E+00	0.198323E+00
1991	N/A	0.188458E+00	N/A
1992	0.288000E+00	0.227270E+00	0.236822E+00
1993	0.186000E+00	0.178618E+00	0.404988E-01
1994	0.478000E+00	0.292354E+00	0.491644E+00
1995	0.760000E-01	0.372004E+00	-0.158817E+01
1996	0.506000E+00	0.518547E+00	-0.244945E-01
1997	0.128200E+01	0.932538E+00	0.318267E+00
1998	0.150800E+01	0.139850E+01	0.753813E-01
1999	0.590000E+00	0.128769E+01	-0.780480E+00
2000	0.940000E+00	0.143358E+01	-0.422052E+00
2001	0.230300E+01	0.137736E+01	0.514045E+00
2002	0.108300E+01	0.171587E+01	-0.460187E+00
2003	0.130200E+01	0.182922E+01	-0.339988E+00

2004	0.125400E+01	0.191676E+01	-0.424296E+00
2005	0.145500E+01	0.216734E+01	-0.398494E+00
2006	0.204900E+01	0.171249E+01	0.179405E+00
2007	0.374500E+01	0.291632E+01	0.250099E+00

Survey Index: 19 Tag: MA_F AGE = 4
Time = JAN-1 Type = NUMBER
Catchability = 0.657295E-04 % Variance Contribution = 4.6457
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
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1982	0.120000E-01	0.512704E-01	-0.145221E+01
1983	0.200000E-01	0.614294E-01	-0.112216E+01
1984	0.154000E+00	0.884208E-01	0.554845E+00
1985	0.127000E+00	0.520198E-01	0.892562E+00
1986	0.400000E-01	0.268765E-01	0.397627E+00
1987	0.214000E+00	0.499964E-01	0.145402E+01
1988	0.110000E-01	0.511083E-01	-0.153605E+01
1989	0.600000E-02	0.277862E-01	-0.153278E+01
1990	0.160000E-01	0.185595E-01	-0.148392E+00
1991	0.110000E-01	0.252208E-01	-0.829773E+00
1992	0.600000E-02	0.171202E-01	-0.104850E+01
1993	N/A	0.811479E-02	N/A
1994	0.300000E-01	0.240102E-01	0.222719E+00
1995	N/A	0.361214E-01	N/A
1996	N/A	0.465636E-01	N/A
1997	0.114000E+00	0.616053E-01	0.615451E+00
1998	0.351000E+00	0.114268E+00	0.112224E+01
1999	0.262000E+00	0.141842E+00	0.613629E+00
2000	0.379000E+00	0.176670E+00	0.763255E+00
2001	0.494000E+00	0.185421E+00	0.979905E+00
2002	0.307000E+00	0.221257E+00	0.327523E+00
2003	0.178000E+00	0.322984E+00	-0.595819E+00
2004	0.256000E+00	0.349594E+00	-0.311594E+00
2005	0.136000E+00	0.337579E+00	-0.909146E+00
2006	0.135000E+01	0.454865E+00	0.108786E+01
2007	0.559000E+00	0.354735E+00	0.454780E+00

Survey Index: 21 Tag: CT_S AGE = 2
Time = JAN-1 Type = NUMBER
Catchability = 0.173459E-04 % Variance Contribution = 3.0870
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
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1982	N/A	0.275624E+00	N/A
1983	N/A	0.297959E+00	N/A
1984	0.271000E+00	0.338019E+00	-0.220982E+00
1985	0.325000E+00	0.442072E+00	-0.307647E+00
1986	0.100000E+00	0.264504E+00	-0.972686E+00
1987	0.860000E-01	0.262146E+00	-0.111455E+01
1988	0.223000E+00	0.316168E+00	-0.349102E+00

1989	0.490000E-01	0.168981E+00	-0.123797E+01
1990	0.220000E-01	0.649105E-01	-0.108197E+01
1991	0.189000E+00	0.161743E+00	0.155737E+00
1992	0.188000E+00	0.134629E+00	0.333917E+00
1993	0.151000E+00	0.141718E+00	0.634391E-01
1994	0.314000E+00	0.177903E+00	0.568157E+00
1995	0.510000E-01	0.202534E+00	-0.137908E+01
1996	0.266000E+00	0.292387E+00	-0.945805E-01
1997	0.507000E+00	0.328549E+00	0.433824E+00
1998	0.594000E+00	0.283164E+00	0.740853E+00
1999	0.593000E+00	0.299364E+00	0.683534E+00
2000	0.726000E+00	0.324384E+00	0.805623E+00
2001	0.340000E+00	0.306681E+00	0.103138E+00
2002	0.126400E+01	0.333311E+00	0.133296E+01
2003	0.101600E+01	0.335383E+00	0.110836E+01
2004	0.818000E+00	0.380849E+00	0.764459E+00
2005	0.264000E+00	0.286486E+00	-0.817412E-01
2006	0.360000E+00	0.463959E+00	-0.253692E+00
2007	N/A	0.178822E+00	N/A

Survey Index: 22 Tag: CT_S AGE = 3
Time = JAN-1 Type = NUMBER
Catchability = 0.184656E-04 % Variance Contribution = 2.8328
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
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1982	N/A	0.399282E-01	N/A
1983	N/A	0.741301E-01	N/A
1984	0.440000E-01	0.810937E-01	-0.611415E+00
1985	0.400000E-01	0.443353E-01	-0.102902E+00
1986	0.820000E-01	0.921889E-01	-0.117121E+00
1987	0.140000E-01	0.505395E-01	-0.128370E+01
1988	0.350000E-01	0.519236E-01	-0.394425E+00
1989	0.240000E-01	0.398647E-01	-0.507436E+00
1990	0.130000E-01	0.285383E-01	-0.786296E+00
1991	0.290000E-01	0.206878E-01	0.337752E+00
1992	0.210000E-01	0.249483E-01	-0.172282E+00
1993	0.150000E-01	0.196075E-01	-0.267864E+00
1994	0.250000E-01	0.320929E-01	-0.249758E+00
1995	0.200000E-01	0.408363E-01	-0.713840E+00
1996	0.860000E-01	0.569229E-01	0.412649E+00
1997	0.570000E-01	0.102368E+00	-0.585525E+00
1998	0.503000E+00	0.153519E+00	0.118677E+01
1999	0.385000E+00	0.141354E+00	0.100197E+01
2000	0.524000E+00	0.157370E+00	0.120289E+01
2001	0.365000E+00	0.151198E+00	0.881308E+00
2002	0.465000E+00	0.188358E+00	0.903694E+00
2003	0.395000E+00	0.200800E+00	0.676574E+00
2004	0.410000E+00	0.210410E+00	0.667101E+00
2005	0.150000E+00	0.237917E+00	-0.461286E+00
2006	0.680000E-01	0.187986E+00	-0.101686E+01
2007	N/A	0.320135E+00	N/A

Survey Index: 23 Tag: CT_S AGE = 4

Time = JAN-1 Type = NUMBER
 Catchability = 0.295921E-04 % Variance Contribution = 3.9209
 Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.230824E-01	N/A
1983	N/A	0.276561E-01	N/A
1984	N/A	0.398079E-01	N/A
1985	0.580000E-01	0.234198E-01	0.906860E+00
1986	0.800000E-02	0.121001E-01	-0.413769E+00
1987	0.400000E-02	0.225089E-01	-0.172762E+01
1988	0.900000E-02	0.230095E-01	-0.938681E+00
1989	0.160000E-01	0.125096E-01	0.246092E+00
1990	0.600000E-02	0.835565E-02	-0.331179E+00
1991	0.280000E-01	0.113546E-01	0.902578E+00
1992	0.400000E-02	0.770768E-02	-0.655923E+00
1993	0.180000E-01	0.365336E-02	0.159473E+01
1994	0.180000E-01	0.108096E-01	0.509935E+00
1995	0.500000E-02	0.162622E-01	-0.117940E+01
1996	0.230000E-01	0.209634E-01	0.927172E-01
1997	0.360000E-01	0.277353E-01	0.260813E+00
1998	0.116000E+00	0.514446E-01	0.813085E+00
1999	0.139000E+00	0.638588E-01	0.777800E+00
2000	0.740000E-01	0.795384E-01	-0.721746E-01
2001	0.120000E+00	0.834784E-01	0.362903E+00
2002	0.233000E+00	0.996121E-01	0.849755E+00
2003	0.232000E+00	0.145410E+00	0.467177E+00
2004	0.194000E+00	0.157390E+00	0.209129E+00
2005	0.330000E-01	0.151981E+00	-0.152725E+01
2006	0.650000E-01	0.204785E+00	-0.114757E+01
2007	N/A	0.159705E+00	N/A

Survey Index: 24 Tag: CT_F AGE = 2
 Time = JAN-1 Type = NUMBER
 Catchability = 0.425758E-04 % Variance Contribution = 3.0428
 Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.676523E+00	N/A
1983	N/A	0.731346E+00	N/A
1984	N/A	0.829673E+00	N/A
1985	0.571000E+00	0.108507E+01	-0.642013E+00
1986	0.339000E+00	0.649230E+00	-0.649787E+00
1987	0.117000E+01	0.643441E+00	0.597929E+00
1988	0.106700E+01	0.776040E+00	0.318402E+00
1989	0.884000E+00	0.414767E+00	0.756739E+00
1990	0.290000E-01	0.159324E+00	-0.170364E+01
1991	0.674000E+00	0.397002E+00	0.529290E+00
1992	0.826000E+00	0.330450E+00	0.916140E+00
1993	0.570000E+00	0.347850E+00	0.493865E+00
1994	0.827000E+00	0.436665E+00	0.638638E+00

1995	0.300000E+00	0.497123E+00	-0.505055E+00
1996	0.384000E+00	0.717668E+00	-0.625365E+00
1997	0.887000E+00	0.806430E+00	0.952279E-01
1998	0.681000E+00	0.695031E+00	-0.203946E-01
1999	0.269000E+00	0.734795E+00	-0.100488E+01
2000	0.679000E+00	0.796205E+00	-0.159236E+00
2001	0.395000E+00	0.752754E+00	-0.644852E+00
2002	0.268900E+01	0.818118E+00	0.118992E+01
2003	0.308700E+01	0.823203E+00	0.132175E+01
2004	0.145900E+01	0.934801E+00	0.445173E+00
2005	0.385000E+00	0.703186E+00	-0.602377E+00
2006	0.109300E+01	0.113880E+01	-0.410449E-01
2007	0.217000E+00	0.438923E+00	-0.704427E+00

Survey Index: 25 Tag: CT_F AGE = 3
Time = JAN-1 Type = NUMBER
Catchability = 0.107830E-03 % Variance Contribution = 1.9665
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
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1982	N/A	0.233161E+00	N/A
1983	N/A	0.432884E+00	N/A
1984	N/A	0.473548E+00	N/A
1985	0.331000E+00	0.258897E+00	0.245689E+00
1986	0.528000E+00	0.538339E+00	-0.193923E-01
1987	0.298000E+00	0.295127E+00	0.968938E-02
1988	0.223000E+00	0.303209E+00	-0.307249E+00
1989	0.481000E+00	0.232790E+00	0.725728E+00
1990	0.950000E-01	0.166650E+00	-0.562017E+00
1991	0.110000E+00	0.120807E+00	-0.937124E-01
1992	0.340000E+00	0.145686E+00	0.847492E+00
1993	0.366000E+00	0.114499E+00	0.116207E+01
1994	0.152000E+00	0.187407E+00	-0.209401E+00
1995	0.850000E-01	0.238464E+00	-0.103157E+01
1996	0.117000E+00	0.332402E+00	-0.104417E+01
1997	0.118800E+01	0.597781E+00	0.686801E+00
1998	0.137300E+01	0.896478E+00	0.426280E+00
1999	0.105400E+01	0.825441E+00	0.244430E+00
2000	0.148400E+01	0.918964E+00	0.479249E+00
2001	0.871000E+00	0.882923E+00	-0.135964E-01
2002	0.113700E+01	0.109992E+01	0.331563E-01
2003	0.193000E+01	0.117258E+01	0.498315E+00
2004	0.131900E+01	0.122869E+01	0.709243E-01
2005	0.755000E+00	0.138932E+01	-0.609852E+00
2006	0.744000E+00	0.109775E+01	-0.388976E+00
2007	0.592000E+00	0.186944E+01	-0.114989E+01

Survey Index: 26 Tag: CT_F AGE = 4
Time = JAN-1 Type = NUMBER
Catchability = 0.882136E-04 % Variance Contribution = 2.2883
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.688084E-01	N/A
1983	N/A	0.824425E-01	N/A
1984	N/A	0.118667E+00	N/A
1985	0.720000E-01	0.698143E-01	0.308278E-01
1986	0.750000E-01	0.360701E-01	0.732023E+00
1987	0.720000E-01	0.670987E-01	0.705011E-01
1988	0.330000E-01	0.685910E-01	-0.731653E+00
1989	0.370000E-01	0.372910E-01	-0.783372E-02
1990	0.150000E-01	0.249081E-01	-0.507143E+00
1991	0.420000E-01	0.338481E-01	0.215788E+00
1992	0.360000E-01	0.229765E-01	0.449047E+00
1993	0.460000E-01	0.108906E-01	0.144074E+01
1994	0.390000E-01	0.322234E-01	0.190870E+00
1995	0.240000E-01	0.484774E-01	-0.703043E+00
1996	0.120000E-01	0.624916E-01	-0.165013E+01
1997	0.420000E-01	0.826786E-01	-0.677291E+00
1998	0.373000E+00	0.153356E+00	0.888819E+00
1999	0.321000E+00	0.190362E+00	0.522512E+00
2000	0.346000E+00	0.237103E+00	0.377944E+00
2001	0.341000E+00	0.248848E+00	0.315039E+00
2002	0.436000E+00	0.296942E+00	0.384104E+00
2003	0.479000E+00	0.433467E+00	0.998852E-01
2004	0.407000E+00	0.469179E+00	-0.142171E+00
2005	0.440000E+00	0.453055E+00	-0.292389E-01
2006	0.355000E+00	0.610461E+00	-0.542097E+00
2007	0.230000E+00	0.476079E+00	-0.727503E+00

Survey Index: 27 Tag: CT_F AGE = 5 - 7
Time = JAN-1 Type = NUMBER
Catchability = 0.606059E-04 % Variance Contribution = 3.6369
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.227563E-01	N/A
1983	N/A	0.268709E-01	N/A
1984	N/A	0.106023E-01	N/A
1985	0.250000E-01	0.254292E-01	-0.170228E-01
1986	0.900000E-02	0.184677E-01	-0.718801E+00
1987	0.700000E-02	0.105603E-01	-0.411188E+00
1988	0.300000E-02	0.117717E-01	-0.136708E+01
1989	0.300000E-02	0.546831E-02	-0.600358E+00
1990	0.100000E-02	0.329206E-02	-0.119151E+01
1991	0.120000E-01	0.263030E-02	0.151781E+01
1992	0.220000E-01	0.757744E-02	0.106587E+01
1993	0.250000E-01	0.736687E-02	0.122188E+01
1994	0.700000E-02	0.422681E-02	0.504462E+00
1995	0.900000E-02	0.758303E-02	0.171311E+00
1996	0.500000E-02	0.802065E-02	-0.472582E+00
1997	0.500000E-02	0.142726E-01	-0.104891E+01
1998	0.400000E-01	0.186997E-01	0.760371E+00

1999	0.750000E-01	0.412629E-01	0.597523E+00
2000	0.127000E+00	0.557755E-01	0.822853E+00
2001	0.191000E+00	0.717403E-01	0.979221E+00
2002	0.134000E+00	0.961391E-01	0.332044E+00
2003	0.183000E+00	0.151081E+00	0.191671E+00
2004	0.203000E+00	0.231153E+00	-0.129874E+00
2005	0.119000E+00	0.328558E+00	-0.101559E+01
2006	0.151000E+00	0.243214E+00	-0.476660E+00
2007	0.179000E+00	0.366068E+00	-0.715434E+00

Survey Index: 29 Tag: RI_F AGE = 3
Time = JAN-1 Type = NUMBER
Catchability = 0.111458E-03 % Variance Contribution = 3.5748
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
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1982	0.174000E+01	0.241007E+00	0.197682E+01
1983	0.520000E+00	0.447450E+00	0.150265E+00
1984	0.420000E+00	0.489482E+00	-0.153093E+00
1985	0.490000E+00	0.267608E+00	0.604882E+00
1986	0.280000E+00	0.556453E+00	-0.686793E+00
1987	0.510000E+00	0.305057E+00	0.513913E+00
1988	0.370000E+00	0.313411E+00	0.165988E+00
1989	0.240000E+00	0.240623E+00	-0.259405E-02
1990	0.700000E-01	0.172257E+00	-0.900493E+00
1991	0.120000E+00	0.124872E+00	-0.397952E-01
1992	0.800000E-01	0.150588E+00	-0.632521E+00
1993	0.410000E+00	0.118351E+00	0.124250E+01
1994	0.220000E+00	0.193713E+00	0.127251E+00
1995	0.300000E-01	0.246488E+00	-0.210612E+01
1996	0.200000E+00	0.343587E+00	-0.541123E+00
1997	0.103000E+01	0.617895E+00	0.510995E+00
1998	0.960000E+00	0.926642E+00	0.353657E-01
1999	0.360000E+00	0.853215E+00	-0.862908E+00
2000	0.191000E+01	0.949886E+00	0.698517E+00
2001	0.124000E+01	0.912632E+00	0.306534E+00
2002	0.630000E+00	0.113693E+01	-0.590366E+00
2003	0.138000E+01	0.121203E+01	0.129784E+00
2004	0.208000E+01	0.127003E+01	0.493324E+00
2005	0.130000E+01	0.143607E+01	-0.995446E-01
2006	0.138000E+01	0.113469E+01	0.195728E+00
2007	0.113000E+01	0.193234E+01	-0.536514E+00

Survey Index: 30 Tag: RI_F AGE = 4
Time = JAN-1 Type = NUMBER
Catchability = 0.854502E-04 % Variance Contribution = 4.4307
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
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1982	0.200000E+00	0.666529E-01	0.109882E+01
1983	0.700000E-01	0.798599E-01	-0.131779E+00

1984	0.110000E+00	0.114950E+00	-0.440133E-01
1985	0.100000E+00	0.676273E-01	0.391159E+00
1986	0.200000E-01	0.349402E-01	-0.557906E+00
1987	0.130000E+00	0.649968E-01	0.693197E+00
1988	0.200000E-01	0.664423E-01	-0.120060E+01
1989	N/A	0.361228E-01	N/A
1990	N/A	0.241278E-01	N/A
1991	N/A	0.327877E-01	N/A
1992	0.100000E-01	0.222567E-01	-0.800060E+00
1993	0.110000E+00	0.105495E-01	0.234441E+01
1994	0.700000E-01	0.312139E-01	0.807631E+00
1995	N/A	0.469588E-01	N/A
1996	N/A	0.605340E-01	N/A
1997	0.100000E-01	0.800886E-01	-0.208055E+01
1998	0.300000E-01	0.148552E+00	-0.159974E+01
1999	0.900000E-01	0.184399E+00	-0.717292E+00
2000	0.350000E+00	0.229676E+00	0.421266E+00
2001	0.450000E+00	0.241053E+00	0.624231E+00
2002	0.300000E+00	0.287640E+00	0.420715E-01
2003	0.400000E+00	0.419888E+00	-0.485237E-01
2004	0.490000E+00	0.454481E+00	0.752483E-01
2005	0.780000E+00	0.438863E+00	0.575107E+00
2006	0.690000E+00	0.591338E+00	0.154304E+00
2007	0.440000E+00	0.461165E+00	-0.469809E-01

Survey Index: 31 Tag: RI_X AGE = 1
Time = JAN-1 Type = NUMBER
Catchability = 0.104477E-04 % Variance Contribution = 2.7813
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.440535E+00	N/A
1983	N/A	0.572068E+00	N/A
1984	N/A	0.628328E+00	N/A
1985	N/A	0.361437E+00	N/A
1986	N/A	0.388167E+00	N/A
1987	N/A	0.429008E+00	N/A
1988	N/A	0.357245E+00	N/A
1989	N/A	0.102281E+00	N/A
1990	0.170000E+00	0.219501E+00	-0.255557E+00
1991	0.700000E-01	0.237099E+00	-0.121998E+01
1992	0.150000E+00	0.231648E+00	-0.434583E+00
1993	0.110000E+00	0.258939E+00	-0.856111E+00
1994	0.800000E-01	0.267296E+00	-0.120633E+01
1995	0.200000E+00	0.281979E+00	-0.343516E+00
1996	0.410000E+00	0.321154E+00	0.244237E+00
1997	0.170000E+00	0.237588E+00	-0.334739E+00
1998	0.700000E-01	0.245926E+00	-0.125654E+01
1999	0.260000E+00	0.263784E+00	-0.144493E-01
2000	0.630000E+00	0.243322E+00	0.951333E+00
2001	0.420000E+00	0.278427E+00	0.411099E+00
2002	0.810000E+00	0.259803E+00	0.113711E+01
2003	0.148000E+01	0.298407E+00	0.160134E+01
2004	0.540000E+00	0.222886E+00	0.884909E+00

2005 0.550000E+00 0.363614E+00 0.413827E+00
 2006 0.190000E+00 0.143893E+00 0.277954E+00
 2007 N/A 0.265549E+00 N/A
 Survey Index: 32 Tag: RI_X AGE = 2 - 7
 Time = JAN-1 Type = NUMBER
 Catchability = 0.209505E-04 % Variance Contribution = 1.8304
 Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
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1982	N/A	0.402411E+00	N/A
1983	N/A	0.472852E+00	N/A
1984	N/A	0.532117E+00	N/A
1985	N/A	0.609611E+00	N/A
1986	N/A	0.439016E+00	N/A
1987	N/A	0.393549E+00	N/A
1988	N/A	0.461141E+00	N/A
1989	N/A	0.260073E+00	N/A
1990	0.100000E+00	0.117832E+00	-0.164088E+00
1991	0.800000E-01	0.227775E+00	-0.104633E+01
1992	0.180000E+00	0.198988E+00	-0.100290E+00
1993	0.140000E+00	0.198548E+00	-0.349388E+00
1994	0.500000E-01	0.260398E+00	-0.165019E+01
1995	0.220000E+00	0.305089E+00	-0.326975E+00
1996	0.530000E+00	0.435345E+00	0.196739E+00
1997	0.520000E+00	0.537539E+00	-0.331722E-01
1998	0.360000E+00	0.559072E+00	-0.440175E+00
1999	0.610000E+00	0.581426E+00	0.479754E-01
2000	0.189000E+01	0.645933E+00	0.107364E+01
2001	0.550000E+00	0.625857E+00	-0.129204E+00
2002	0.111000E+01	0.720038E+00	0.432811E+00
2003	0.225000E+01	0.788074E+00	0.104909E+01
2004	0.153000E+01	0.890053E+00	0.541742E+00
2005	0.189000E+01	0.837131E+00	0.814351E+00
2006	0.109000E+01	0.100272E+01	0.834653E-01
2007	N/A	0.818811E+00	N/A

Survey Index: 33 Tag: NJ AGE = 1
 Time = JAN-1 Type = NUMBER
 Catchability = 0.158198E-03 % Variance Contribution = 1.8036
 Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
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1982	N/A	0.667054E+01	N/A
1983	N/A	0.866220E+01	N/A
1984	N/A	0.951409E+01	N/A
1985	N/A	0.547285E+01	N/A
1986	N/A	0.587759E+01	N/A
1987	N/A	0.649600E+01	N/A
1988	0.306000E+01	0.540937E+01	-0.569718E+00
1989	0.510000E+00	0.154873E+01	-0.111078E+01
1990	0.144000E+01	0.332366E+01	-0.836424E+00

1991	0.269000E+01	0.359014E+01	-0.288649E+00
1992	0.300000E+01	0.350759E+01	-0.156317E+00
1993	0.569000E+01	0.392083E+01	0.372408E+00
1994	0.107000E+01	0.404738E+01	-0.133041E+01
1995	0.293000E+01	0.426970E+01	-0.376542E+00
1996	0.510000E+01	0.486288E+01	0.476089E-01
1997	0.825000E+01	0.359753E+01	0.829964E+00
1998	0.580000E+01	0.372379E+01	0.443116E+00
1999	0.612000E+01	0.399420E+01	0.426720E+00
2000	0.391000E+01	0.368437E+01	0.594390E-01
2001	0.332000E+01	0.421592E+01	-0.238902E+00
2002	0.911000E+01	0.393391E+01	0.839738E+00
2003	0.561000E+01	0.451846E+01	0.216380E+00
2004	0.627000E+01	0.337492E+01	0.619405E+00
2005	0.599000E+01	0.550580E+01	0.842885E-01
2006	0.574000E+01	0.217881E+01	0.968678E+00
2007	N/A	0.402091E+01	N/A

Survey Index: 34 Tag: NJ AGE = 2
Time = JAN-1 Type = NUMBER
Catchability = 0.688016E-04 % Variance Contribution = 4.0492
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
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1982	N/A	0.109325E+01	N/A
1983	N/A	0.118184E+01	N/A
1984	N/A	0.134073E+01	N/A
1985	N/A	0.175346E+01	N/A
1986	N/A	0.104914E+01	N/A
1987	N/A	0.103979E+01	N/A
1988	0.103000E+01	0.125407E+01	-0.196832E+00
1989	0.180000E+00	0.670256E+00	-0.131470E+01
1990	0.110000E+00	0.257464E+00	-0.850400E+00
1991	0.270000E+00	0.641546E+00	-0.865460E+00
1992	0.570000E+00	0.534000E+00	0.652400E-01
1993	0.200000E+00	0.562118E+00	-0.103340E+01
1994	0.800000E-01	0.705642E+00	-0.217708E+01
1995	0.280000E+00	0.803341E+00	-0.105399E+01
1996	0.270000E+01	0.115974E+01	0.845058E+00
1997	0.525000E+01	0.130317E+01	0.139342E+01
1998	0.267000E+01	0.112316E+01	0.865935E+00
1999	0.346000E+01	0.118741E+01	0.106949E+01
2000	0.182000E+01	0.128665E+01	0.346793E+00
2001	0.118000E+01	0.121643E+01	-0.304099E-01
2002	0.413000E+01	0.132206E+01	0.113909E+01
2003	0.255000E+01	0.133028E+01	0.650705E+00
2004	0.249000E+01	0.151062E+01	0.499763E+00
2005	0.124000E+01	0.113633E+01	0.873045E-01
2006	0.322000E+01	0.184027E+01	0.559469E+00
2007	N/A	0.709291E+00	N/A

Survey Index: 35 Tag: NJ AGE = 3
Time = JAN-1 Type = NUMBER
Catchability = 0.436851E-04 % Variance Contribution = 1.9201

Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.944603E-01	N/A
1983	N/A	0.175374E+00	N/A
1984	N/A	0.191848E+00	N/A
1985	N/A	0.104887E+00	N/A
1986	N/A	0.218097E+00	N/A
1987	N/A	0.119564E+00	N/A
1988	N/A	0.122838E+00	N/A
1989	N/A	0.943101E-01	N/A
1990	0.300000E-01	0.675146E-01	-0.811146E+00
1991	0.200000E-01	0.489423E-01	-0.894910E+00
1992	0.600000E-01	0.590216E-01	0.164418E-01
1993	0.100000E-01	0.463867E-01	-0.153443E+01
1994	N/A	0.759239E-01	N/A
1995	0.500000E-01	0.966088E-01	-0.658647E+00
1996	0.180000E+00	0.134666E+00	0.290161E+00
1997	0.102000E+01	0.242178E+00	0.143788E+01
1998	0.290000E+00	0.363189E+00	-0.225042E+00
1999	0.650000E+00	0.334410E+00	0.664605E+00
2000	0.450000E+00	0.372299E+00	0.189551E+00
2001	0.410000E+00	0.357698E+00	0.136469E+00
2002	0.128000E+01	0.445609E+00	0.105517E+01
2003	0.570000E+00	0.475045E+00	0.182227E+00
2004	0.570000E+00	0.497778E+00	0.135482E+00
2005	0.530000E+00	0.562853E+00	-0.601423E-01
2006	0.480000E+00	0.444730E+00	0.763197E-01
2007	N/A	0.757363E+00	N/A

Survey Index: 36 Tag: NJ AGE = 4 - 7
 Time = JAN-1 Type = NUMBER
 Catchability = 0.588380E-04 % Variance Contribution = 1.4859
 Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.679873E-01	N/A
1983	N/A	0.810758E-01	N/A
1984	N/A	0.894432E-01	N/A
1985	N/A	0.712532E-01	N/A
1986	N/A	0.419876E-01	N/A
1987	N/A	0.550067E-01	N/A
1988	N/A	0.571781E-01	N/A
1989	N/A	0.301817E-01	N/A
1990	N/A	0.198096E-01	N/A
1991	N/A	0.251301E-01	N/A
1992	0.200000E-01	0.226816E-01	-0.125823E+00
1993	0.100000E-01	0.144160E-01	-0.365751E+00
1994	0.200000E-01	0.255963E-01	-0.246717E+00
1995	0.160000E+00	0.396960E-01	0.139392E+01
1996	0.500000E-01	0.494683E-01	0.106918E-01
1997	0.180000E+00	0.690025E-01	0.958814E+00

1998	0.400000E-01	0.120442E+00	-0.110229E+01
1999	0.180000E+00	0.167030E+00	0.747840E-01
2000	0.220000E+00	0.212295E+00	0.356508E-01
2001	0.150000E+00	0.235628E+00	-0.451620E+00
2002	0.810000E+00	0.291394E+00	0.102236E+01
2003	0.510000E+00	0.435794E+00	0.157241E+00
2004	0.430000E+00	0.537350E+00	-0.222865E+00
2005	0.320000E+00	0.621159E+00	-0.663266E+00
2006	0.400000E+00	0.643293E+00	-0.475137E+00
2007	N/A	0.672932E+00	N/A

Survey Index: 40 Tag: CT_Y AGE = 0
Time = JAN-1 Type = NUMBER
Catchability = 0.184557E-05 % Variance Contribution = 3.7718
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.134296E+00	N/A
1983	N/A	0.145585E+00	N/A
1984	N/A	0.877426E-01	N/A
1985	0.240000E+00	0.879787E-01	0.100354E+01
1986	0.172000E+00	0.965143E-01	0.577803E+00
1987	0.750000E-01	0.793931E-01	-0.569234E-01
1988	0.150000E-01	0.236851E-01	-0.456796E+00
1989	N/A	0.493129E-01	N/A
1990	0.320000E-01	0.549313E-01	-0.540348E+00
1991	0.360000E-01	0.520172E-01	-0.368055E+00
1992	0.130000E-01	0.586519E-01	-0.150667E+01
1993	0.840000E-01	0.602864E-01	0.331710E+00
1994	0.132000E+00	0.641722E-01	0.721232E+00
1995	0.230000E-01	0.704972E-01	-0.112008E+01
1996	0.690000E-01	0.515917E-01	0.290746E+00
1997	0.330000E-01	0.531220E-01	-0.476084E+00
1998	N/A	0.570056E-01	N/A
1999	0.440000E-01	0.528677E-01	-0.183602E+00
2000	0.120000E-01	0.601181E-01	-0.161140E+01
2001	0.210000E-01	0.560774E-01	-0.982210E+00
2002	0.442000E+00	0.649381E-01	0.191788E+01
2003	N/A	0.486171E-01	N/A
2004	0.255000E+00	0.786710E-01	0.117599E+01
2005	0.670000E-01	0.315450E-01	0.753276E+00
2006	0.980000E-01	0.576836E-01	0.529995E+00
2007	N/A	0.000000E+00	N/A

Survey Index: 41 Tag: VA_CRY AGE = 0
Time = JAN-1 Type = NUMBER
Catchability = 0.281985E-04 % Variance Contribution = 1.8494
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	0.227000E+01	0.205191E+01	0.101010E+00

1983	0.501000E+01	0.222439E+01	0.811954E+00
1984	0.158000E+01	0.134062E+01	0.164292E+00
1985	0.126000E+01	0.134423E+01	-0.647082E-01
1986	0.126000E+01	0.147464E+01	-0.157305E+00
1987	0.390000E+00	0.121305E+01	-0.113475E+01
1988	0.540000E+00	0.361885E+00	0.400242E+00
1989	0.124000E+01	0.753453E+00	0.498200E+00
1990	0.254000E+01	0.839296E+00	0.110736E+01
1991	0.264000E+01	0.794772E+00	0.120048E+01
1992	0.890000E+00	0.896143E+00	-0.687871E-02
1993	0.500000E+00	0.921117E+00	-0.610979E+00
1994	0.241000E+01	0.980488E+00	0.899332E+00
1995	0.630000E+00	0.107713E+01	-0.536333E+00
1996	0.810000E+00	0.788270E+00	0.271930E-01
1997	0.890000E+00	0.811652E+00	0.921498E-01
1998	0.730000E+00	0.870989E+00	-0.176585E+00
1999	0.530000E+00	0.807766E+00	-0.421395E+00
2000	0.570000E+00	0.918545E+00	-0.477155E+00
2001	0.470000E+00	0.856807E+00	-0.600480E+00
2002	0.770000E+00	0.992190E+00	-0.253524E+00
2003	0.440000E+00	0.742821E+00	-0.523681E+00
2004	0.130000E+01	0.120202E+01	0.783647E-01
2005	0.350000E+00	0.481977E+00	-0.319964E+00
2006	0.800000E+00	0.881348E+00	-0.968410E-01
2007	N/A	0.000000E+00	N/A

Survey Index: 43 Tag: MD_Y AGE = 0
Time = JAN-1 Type = NUMBER
Catchability = 0.238811E-03 % Variance Contribution = 2.3052
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	0.340800E+01	0.173774E+02	-0.162905E+01
1983	0.176990E+02	0.188382E+02	-0.623780E-01
1984	0.133100E+02	0.113536E+02	0.158979E+00
1985	0.128430E+02	0.113842E+02	0.120575E+00
1986	0.595260E+02	0.124886E+02	0.156159E+01
1987	0.758400E+01	0.102732E+02	-0.303500E+00
1988	0.176300E+01	0.306478E+01	-0.552959E+00
1989	0.285500E+01	0.638094E+01	-0.804243E+00
1990	0.473300E+01	0.710794E+01	-0.406653E+00
1991	0.733700E+01	0.673086E+01	0.862266E-01
1992	0.848700E+01	0.758937E+01	0.111787E+00
1993	0.414500E+01	0.780087E+01	-0.632333E+00
1994	0.223110E+02	0.830368E+01	0.988381E+00
1995	0.130670E+02	0.912211E+01	0.359388E+00
1996	0.649300E+01	0.667581E+01	-0.277653E-01
1997	0.799700E+01	0.687382E+01	0.151346E+00
1998	0.149830E+02	0.737634E+01	0.708638E+00
1999	0.856500E+01	0.684091E+01	0.224763E+00
2000	0.987400E+01	0.777909E+01	0.238465E+00
2001	0.135430E+02	0.725624E+01	0.624009E+00
2002	0.540600E+01	0.840278E+01	-0.441054E+00
2003	0.818000E+01	0.629090E+01	0.262588E+00

2004	0.699300E+01	0.101798E+02	-0.375494E+00
2005	0.219800E+01	0.408183E+01	-0.618998E+00
2006	0.965800E+01	0.746407E+01	0.257685E+00
2007	N/A	0.000000E+00	N/A

Survey Index: 44 Tag: NJ_Y AGE = 0
Time = JAN-1 Type = NUMBER
Catchability = 0.392777E-04 % Variance Contribution = 1.7872
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
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1982	N/A	0.285810E+01	N/A
1983	N/A	0.309835E+01	N/A
1984	N/A	0.186735E+01	N/A
1985	N/A	0.187237E+01	N/A
1986	N/A	0.205403E+01	N/A
1987	N/A	0.168965E+01	N/A
1988	0.170000E+00	0.504069E+00	-0.108691E+01
1989	0.100000E+01	0.104948E+01	-0.482972E-01
1990	0.128000E+01	0.116905E+01	0.906653E-01
1991	0.100000E+01	0.110704E+01	-0.101686E+00
1992	0.110000E+01	0.124824E+01	-0.126421E+00
1993	0.255000E+01	0.128302E+01	0.686875E+00
1994	0.166000E+01	0.136572E+01	0.195136E+00
1995	0.495000E+01	0.150033E+01	0.119370E+01
1996	0.166000E+01	0.109798E+01	0.413345E+00
1997	0.165000E+01	0.113055E+01	0.378073E+00
1998	0.670000E+00	0.121320E+01	-0.593738E+00
1999	0.103000E+01	0.112513E+01	-0.883442E-01
2000	0.950000E+00	0.127944E+01	-0.297716E+00
2001	0.620000E+00	0.119344E+01	-0.654879E+00
2002	0.151000E+01	0.138202E+01	0.885644E-01
2003	0.600000E+00	0.103467E+01	-0.544912E+00
2004	0.900000E+00	0.167428E+01	-0.620746E+00
2005	0.311000E+01	0.671345E+00	0.153309E+01
2006	0.810000E+00	0.122763E+01	-0.415805E+00
2007	N/A	0.000000E+00	N/A

Survey Index: 45 Tag: NEC_Y AGE = 0
Time = JAN-1 Type = NUMBER
Catchability = 0.818325E-05 % Variance Contribution = 3.2225
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
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1982	0.550000E+00	0.595466E+00	-0.794252E-01
1983	0.960000E+00	0.645520E+00	0.396877E+00
1984	0.180000E+00	0.389049E+00	-0.770750E+00
1985	0.590000E+00	0.390096E+00	0.413729E+00
1986	0.390000E+00	0.427943E+00	-0.928436E-01
1987	0.700000E-01	0.352028E+00	-0.161522E+01
1988	0.600000E-01	0.105019E+00	-0.559801E+00

1989	0.310000E+00	0.218653E+00	0.349087E+00
1990	0.440000E+00	0.243565E+00	0.591392E+00
1991	0.760000E+00	0.230644E+00	0.119244E+01
1992	0.990000E+00	0.260062E+00	0.133679E+01
1993	0.230000E+00	0.267309E+00	-0.150327E+00
1994	0.750000E+00	0.284539E+00	0.969204E+00
1995	0.930000E+00	0.312584E+00	0.109031E+01
1996	0.110000E+00	0.228757E+00	-0.732180E+00
1997	0.170000E+00	0.235542E+00	-0.326092E+00
1998	0.380000E+00	0.252762E+00	0.407723E+00
1999	0.210000E+00	0.234414E+00	-0.109983E+00
2000	0.220000E+00	0.266563E+00	-0.191983E+00
2001	0.120000E+00	0.248646E+00	-0.728540E+00
2002	0.600000E-01	0.287935E+00	-0.156839E+01
2003	0.180000E+00	0.215568E+00	-0.180317E+00
2004	0.360000E+00	0.348826E+00	0.315304E-01
2005	0.160000E+00	0.139870E+00	0.134458E+00
2006	0.310000E+00	0.255768E+00	0.192301E+00
2007	N/A	0.000000E+00	N/A

Survey Index: 50 Tag: DE_IY AGE = 0
Time = JAN-1 Type = NUMBER
Catchability = 0.548734E-05 % Variance Contribution = 3.7931
Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.399294E+00	N/A
1983	N/A	0.432858E+00	N/A
1984	N/A	0.260880E+00	N/A
1985	N/A	0.261582E+00	N/A
1986	0.320000E+00	0.286960E+00	0.108977E+00
1987	0.260000E+00	0.236055E+00	0.966172E-01
1988	0.100000E-01	0.704216E-01	-0.195191E+01
1989	0.140000E+00	0.146619E+00	-0.461964E-01
1990	0.360000E+00	0.163324E+00	0.790368E+00
1991	0.380000E+00	0.154660E+00	0.898944E+00
1992	0.370000E+00	0.174386E+00	0.752230E+00
1993	0.500000E-01	0.179246E+00	-0.127674E+01
1994	0.570000E+00	0.190799E+00	0.109441E+01
1995	0.300000E+00	0.209605E+00	0.358557E+00
1996	0.800000E-01	0.153395E+00	-0.650987E+00
1997	0.220000E+00	0.157945E+00	0.331383E+00
1998	0.390000E+00	0.169491E+00	0.833345E+00
1999	0.350000E+00	0.157188E+00	0.800488E+00
2000	0.210000E+00	0.178746E+00	0.161144E+00
2001	0.140000E+00	0.166732E+00	-0.174743E+00
2002	0.130000E+00	0.193077E+00	-0.395552E+00
2003	0.210000E+00	0.144550E+00	0.373479E+00
2004	0.270000E+00	0.233908E+00	0.143495E+00
2005	0.100000E-01	0.937911E-01	-0.223848E+01
2006	0.170000E+00	0.171507E+00	-0.882677E-02
2007	N/A	0.000000E+00	N/A

Survey Index: 51 Tag: RI_XY AGE = 0

Time = JAN-1 Type = NUMBER
 Catchability = 0.105736E-05 % Variance Contribution = 2.0427
 Residual = LN(Observed) - LN(Predicted)

Year	Observed	Predicted	Residual
1982	N/A	0.769404E-01	N/A
1983	N/A	0.834080E-01	N/A
1984	N/A	0.502693E-01	N/A
1985	N/A	0.504046E-01	N/A
1986	N/A	0.552948E-01	N/A
1987	N/A	0.454857E-01	N/A
1988	N/A	0.135696E-01	N/A
1989	N/A	0.282522E-01	N/A
1990	0.200000E-01	0.314711E-01	-0.453338E+00
1991	N/A	0.298016E-01	N/A
1992	0.100000E-01	0.336027E-01	-0.121202E+01
1993	0.100000E-01	0.345392E-01	-0.123951E+01
1994	0.400000E-01	0.367654E-01	0.843227E-01
1995	0.300000E-01	0.403891E-01	-0.297362E+00
1996	0.200000E-01	0.295578E-01	-0.390616E+00
1997	0.400000E-01	0.304345E-01	0.273301E+00
1998	N/A	0.326595E-01	N/A
1999	0.300000E-01	0.302888E-01	-0.958128E-02
2000	0.900000E-01	0.344427E-01	0.960512E+00
2001	0.100000E-01	0.321277E-01	-0.116713E+01
2002	0.110000E+00	0.372042E-01	0.108406E+01
2003	0.500000E-01	0.278536E-01	0.585061E+00
2004	0.100000E+00	0.450720E-01	0.796909E+00
2005	0.400000E-01	0.180727E-01	0.794476E+00
2006	0.400000E-01	0.330479E-01	0.190920E+00
2007	N/A	0.000000E+00	N/A

Bootstrap Summary Report

Number of Bootstrap Repetitions Requested = 1000
 Number of Bootstrap Repetitions Completed = 1000
 Bootstrap Output Variable: Stock Estimates (2007)

	NLLS Estimate	Bootstrap Mean	Bootstrap Std Error	C.V. For NLLS Soln.
N 1	25417.	26349.	7012.	0.2661
N 2	10309.	10557.	1972.	0.1868
N 3	17337.	17551.	3000.	0.1709
N 4	5397.	5530.	1089.	0.1969
N 5	4052.	4183.	999.	0.2387
N 6	1050.	1070.	618.	0.5770

	Bias Estimate	Bias Std. Error	Per Cent Bias	NLLS Estimate Corrected For Bias	C.V. For Corrected Estimate
N 1	932.	224.	3.6667	24485.	0.2864
N 2	248.	63.	2.4016	10062.	0.1960
N 3	214.	95.	1.2362	17123.	0.1752
N 4	133.	35.	2.4735	5263.	0.2069
N 5	131.	32.	3.2207	3922.	0.2546
N 6	20.	20.	1.8983	1030.	0.5993

	LOWER 80. % CI	UPPER 80. % CI
N 1	18111.	35811.
N 2	8156.	12982.
N 3	13838.	21682.
N 4	4150.	7029.
N 5	2961.	5484.
N 6	314.	1912.

Bootstrap Output Variable: Catchability Estimates

	NLLS Estimate	Bootstrap Mean	Bootstrap Std Error	C.V. For NLLS Soln.
Q 1	0.141956E-03	0.144377E-03	0.268216E-04	0.1858
Q 2	0.416467E-03	0.417257E-03	0.460376E-04	0.1103
Q 3	0.341157E-03	0.344519E-03	0.446112E-04	0.1295
Q 4	0.337567E-03	0.344664E-03	0.692883E-04	0.2010
Q 5	0.447993E-03	0.454280E-03	0.762677E-04	0.1679
Q 6	0.138176E-04	0.140125E-04	0.201795E-05	0.1440
Q 7	0.379163E-04	0.379396E-04	0.372445E-05	0.0982
Q 8	0.344239E-04	0.347738E-04	0.566360E-05	0.1629
Q 9	0.383975E-04	0.387446E-04	0.490521E-05	0.1266
Q 10	0.652723E-04	0.653020E-04	0.828351E-05	0.1268
Q 11	0.676126E-04	0.677628E-04	0.435628E-05	0.0643
Q 12	0.811036E-04	0.814997E-04	0.101574E-04	0.1246
Q 13	0.756270E-04	0.759580E-04	0.104538E-04	0.1376
Q 15	0.406577E-04	0.408039E-04	0.750765E-05	0.1840
Q 16	0.432367E-04	0.438196E-04	0.691473E-05	0.1578
Q 18	0.168215E-03	0.169128E-03	0.178186E-04	0.1054
Q 19	0.657295E-04	0.663685E-04	0.123035E-04	0.1854
Q 21	0.173459E-04	0.175807E-04	0.277520E-05	0.1579
Q 22	0.184656E-04	0.184226E-04	0.282619E-05	0.1534
Q 23	0.295921E-04	0.299883E-04	0.548508E-05	0.1829
Q 24	0.425758E-04	0.430757E-04	0.671349E-05	0.1559
Q 25	0.107830E-03	0.108402E-03	0.137740E-04	0.1271
Q 26	0.882136E-04	0.889029E-04	0.121949E-04	0.1372
Q 27	0.606059E-04	0.610114E-04	0.103205E-04	0.1692
Q 29	0.111458E-03	0.112712E-03	0.167646E-04	0.1487
Q 30	0.854502E-04	0.879589E-04	0.177854E-04	0.2022
Q 31	0.104477E-04	0.107553E-04	0.217898E-05	0.2026
Q 32	0.209505E-04	0.213432E-04	0.354405E-05	0.1661
Q 33	0.158198E-03	0.160302E-03	0.235884E-04	0.1471
Q 34	0.688016E-04	0.702375E-04	0.151014E-04	0.2150
Q 35	0.436851E-04	0.441118E-04	0.834166E-05	0.1891
Q 36	0.588380E-04	0.595460E-04	0.102164E-04	0.1716
Q 40	0.184557E-05	0.187828E-05	0.417155E-06	0.2221
Q 41	0.281985E-04	0.283534E-04	0.304266E-05	0.1073
Q 43	0.238811E-03	0.238872E-03	0.293040E-04	0.1227
Q 44	0.392777E-04	0.397527E-04	0.601836E-05	0.1514
Q 45	0.818325E-05	0.825855E-05	0.120797E-05	0.1463
Q 50	0.548734E-05	0.560958E-05	0.107908E-05	0.1924
Q 51	0.105736E-05	0.107593E-05	0.216337E-06	0.2011

	Bias Estimate	Bias Std. Error	Per Cent Bias	NLLS Estimate Corrected For Bias	C.V. For Corrected Estimate
Q 1	0.2421E-05	0.8516E-06	1.7053	0.1395E-03	0.1922
Q 2	0.7895E-06	0.1456E-05	0.1896	0.4157E-03	0.1108
Q 3	0.3363E-05	0.1415E-05	0.9856	0.3378E-03	0.1321
Q 4	0.7097E-05	0.2203E-05	2.1022	0.3305E-03	0.2097
Q 5	0.6287E-05	0.2420E-05	1.4034	0.4417E-03	0.1727
Q 6	0.1949E-06	0.6411E-07	1.4107	0.1362E-04	0.1481
Q 7	0.2328E-07	0.1178E-06	0.0614	0.3789E-04	0.0983
Q 8	0.3499E-06	0.1794E-06	1.0165	0.3407E-04	0.1662
Q 9	0.3471E-06	0.1555E-06	0.9040	0.3805E-04	0.1289
Q 10	0.2969E-07	0.2619E-06	0.0455	0.6524E-04	0.1270
Q 11	0.1502E-06	0.1378E-06	0.2222	0.6746E-04	0.0646
Q 12	0.3961E-06	0.3214E-06	0.4884	0.8071E-04	0.1259
Q 13	0.3309E-06	0.3307E-06	0.4376	0.7530E-04	0.1388
Q 15	0.1462E-06	0.2375E-06	0.3596	0.4051E-04	0.1853
Q 16	0.5829E-06	0.2194E-06	1.3482	0.4265E-04	0.1621
Q 18	0.9127E-06	0.5642E-06	0.5426	0.1673E-03	0.1065
Q 19	0.6390E-06	0.3896E-06	0.9722	0.6509E-04	0.1890
Q 21	0.2348E-06	0.8807E-07	1.3539	0.1711E-04	0.1622
Q 22	-0.4295E-07	0.8938E-07	-0.2326	0.1851E-04	0.1527
Q 23	0.3962E-06	0.1739E-06	1.3388	0.2920E-04	0.1879
Q 24	0.5000E-06	0.2129E-06	1.1743	0.4208E-04	0.1596
Q 25	0.5713E-06	0.4359E-06	0.5298	0.1073E-03	0.1284
Q 26	0.6893E-06	0.3863E-06	0.7814	0.8752E-04	0.1393
Q 27	0.4055E-06	0.3266E-06	0.6690	0.6020E-04	0.1714
Q 29	0.1254E-05	0.5316E-06	1.1250	0.1102E-03	0.1521
Q 30	0.2509E-05	0.5680E-06	2.9358	0.8294E-04	0.2144
Q 31	0.3076E-06	0.6959E-07	2.9443	0.1014E-04	0.2149
Q 32	0.3926E-06	0.1128E-06	1.8741	0.2056E-04	0.1724
Q 33	0.2104E-05	0.7489E-06	1.3303	0.1561E-03	0.1511
Q 34	0.1436E-05	0.4797E-06	2.0870	0.6737E-04	0.2242
Q 35	0.4267E-06	0.2641E-06	0.9767	0.4326E-04	0.1928
Q 36	0.7080E-06	0.3238E-06	1.2032	0.5813E-04	0.1758
Q 40	0.3271E-07	0.1323E-07	1.7724	0.1813E-05	0.2301
Q 41	0.1548E-06	0.9634E-07	0.5490	0.2804E-04	0.1085
Q 43	0.6051E-07	0.9267E-06	0.0253	0.2388E-03	0.1227
Q 44	0.4751E-06	0.1909E-06	1.2095	0.3880E-04	0.1551
Q 45	0.7530E-07	0.3827E-07	0.9202	0.8108E-05	0.1490
Q 50	0.1222E-06	0.3434E-07	2.2277	0.5365E-05	0.2011
Q 51	0.1857E-07	0.6866E-08	1.7565	0.1039E-05	0.2083

	LOWER	UPPER
	80. % CI	80. % CI
Q 1	0.112036E-03	0.180010E-03
Q 2	0.359080E-03	0.478381E-03
Q 3	0.286682E-03	0.401303E-03
Q 4	0.261438E-03	0.438939E-03
Q 5	0.358378E-03	0.556110E-03
Q 6	0.115449E-04	0.167038E-04
Q 7	0.332723E-04	0.428684E-04
Q 8	0.280821E-04	0.420938E-04
Q 9	0.330031E-04	0.449621E-04
Q 10	0.549324E-04	0.763026E-04
Q 11	0.624910E-04	0.733437E-04
Q 12	0.688536E-04	0.947504E-04
Q 13	0.628368E-04	0.900336E-04
Q 15	0.317869E-04	0.504297E-04
Q 16	0.352138E-04	0.530894E-04
Q 18	0.146402E-03	0.191180E-03
Q 19	0.507996E-04	0.820121E-04
Q 21	0.141584E-04	0.211271E-04
Q 22	0.147976E-04	0.220057E-04
Q 23	0.233439E-04	0.373245E-04
Q 24	0.348111E-04	0.521047E-04
Q 25	0.913635E-04	0.126317E-03
Q 26	0.743632E-04	0.105116E-03
Q 27	0.482438E-04	0.746251E-04
Q 29	0.920065E-04	0.134781E-03
Q 30	0.661910E-04	0.111862E-03
Q 31	0.807179E-05	0.138281E-04
Q 32	0.169426E-04	0.258124E-04
Q 33	0.131372E-03	0.191889E-03
Q 34	0.519500E-04	0.895232E-04
Q 35	0.337537E-04	0.551920E-04
Q 36	0.471333E-04	0.735044E-04
Q 40	0.138653E-05	0.241088E-05
Q 41	0.245639E-04	0.322148E-04
Q 43	0.201019E-03	0.275279E-03
Q 44	0.323671E-04	0.475623E-04
Q 45	0.674154E-05	0.988610E-05
Q 50	0.428971E-05	0.711304E-05
Q 51	0.813957E-06	0.135144E-05

Bootstrap Output Variable: Fishing Mortality (2006)

	NLLS Estimate	Bootstrap Mean	Bootstrap Std Error	C.V. For NLLS Soln.
AGE 0	0.0068	0.0070	0.001881	0.2691
AGE 1	0.0897	0.0905	0.016744	0.1850
AGE 2	0.2336	0.2366	0.037063	0.1567
AGE 3	0.4346	0.4376	0.072465	0.1656
AGE 4	0.3351	0.3402	0.070982	0.2086
AGE 5	0.5542	0.8471	0.966894	1.1414
AGE 6	0.4413	0.5416	0.322605	0.5956
AGE 7	0.4413	0.5416	0.322605	0.5956

	Bias Estimate	Bias Std. Error	Per Cent Bias	NLLS Estimate Corrected For Bias	C.V. For Corrected Estimate
AGE 0	0.000226	0.000060	3.3477	0.0065	0.2877
AGE 1	0.000871	0.000530	0.9712	0.0888	0.1886
AGE 2	0.002987	0.001176	1.2785	0.2306	0.1607
AGE 3	0.002936	0.002293	0.6754	0.4317	0.1679
AGE 4	0.005071	0.002250	1.5131	0.3301	0.2151
AGE 5	0.292848	0.031949	52.8383	0.2614	3.6991
AGE 6	0.100285	0.010684	22.7231	0.3410	0.9459
AGE 7	0.100285	0.010684	22.7231	0.3410	0.9459

	LOWER 80. % CI	UPPER 80. % CI
AGE 0	0.004805	0.009459
AGE 1	0.071776	0.111962
AGE 2	0.190978	0.284672
AGE 3	0.349422	0.533902
AGE 4	0.257760	0.433694
AGE 5	0.342392	1.237426
AGE 6	0.366798	0.661731
AGE 7	0.366798	0.661731

Bootstrap Output Variable: Average F (2006) AGES 3 - 5

	NLLS Estimate	Bootstrap Mean	Bootstrap Std Error	C.V. For NLLS Soln.
AVG F	0.4413	0.5416	0.322605	0.5956
N WTD	0.4128	0.4215	0.065338	0.1550
B WTD	0.4149	0.4287	0.080532	0.1879
C WTD	0.4221	0.4680	0.147340	0.3148

	Bias Estimate	Bias Std. Error	Per Cent Bias	NLLS Estimate Corrected For Bias	C.V. For Corrected Estimate
AVG F	0.100285	0.010684	22.7231	0.3410	0.9459
N WTD	0.008625	0.002084	2.0892	0.4042	0.1616
B WTD	0.013761	0.002584	3.3164	0.4012	0.2007
C WTD	0.045987	0.004881	10.8961	0.3761	0.3918

	LOWER 80. % CI	UPPER 80. % CI
AVG F	0.366798	0.661731
N WTD	0.351353	0.500226
B WTD	0.351202	0.509919
C WTD	0.364438	0.541993

Bootstrap Output Variable: Biomass

JAN-1 Biomass (2007) Mean Biomass & SSB (2006)

	NLLS Estimate	Bootstrap Mean	Bootstrap Std Error	C.V. For NLLS Soln.	
JAN-1	45974.	46852.	4806.	0.1026	
MEAN	44433.	45150.	4011.	0.0888	
SSB	40508.	41148.	4108.	0.0998	
	Bias Estimate	Bias Std. Error	Per Cent Bias	NLLS Estimate Corrected For Bias	C.V. For Corrected Estimate
JAN-1	878.	155.	1.9098	45096.	0.1066
MEAN	717.	129.	1.6140	43716.	0.0918
SSB	640.	131.	1.5809	39868.	0.1030
	LOWER 80. % CI	UPPER 80. % CI			
JAN-1	40829.	52971.			
MEAN	40097.	50304.			
SSB	35922.	46331.			

Plus Group Diagnostic Report

Calculation Method Selected = Backward

Year	Population Backward	Population Forward	F Forward	F Backward	Ratio
1982	67.	67.	0.663932	0.663932	1.000000
1983	71.	92.	0.713070	1.057326	1.482781
1984	14.	44.	0.283633	1.391481	4.905918
1985	11.	29.	0.366595	1.434884	3.914087
1986	20.	24.	1.089646	1.670284	1.532869
1987	71.	54.	2.078124	1.125094	0.541399
1988	27.	26.	2.078124	1.794470	0.863505
1989	5.	5.	2.078124	1.878650	0.904013
1990	4.	4.	2.078124	1.278000	0.614978
1991	2.	3.	0.506289	1.189165	2.348787
1992	1.	3.	0.567854	1.779020	3.132882
1993	6.	4.	2.078124	0.887367	0.427004
1994	9.	12.	0.575801	0.956601	1.661340
1995	2.	14.	0.085042	1.036577	12.188986
1996	5.	12.	0.317148	1.005173	3.169409
1997	7.	15.	0.334670	0.984998	2.943196
1998	2.	15.	0.077002	1.100186	14.287727
1999	26.	20.	1.455874	0.869515	0.597246
2000	53.	39.	1.598323	0.908901	0.568660
2001	73.	51.	1.207716	0.680871	0.563767
2002	67.	125.	0.247970	0.519636	2.095560
2003	246.	257.	0.455602	0.481929	1.057786
2004	424.	471.	0.450762	0.515088	1.142705
2005	1312.	650.	1.510305	0.497472	0.329385
2006	605.	826.	0.273436	0.394353	1.442211
2007	1072.	1253.	N/A	N/A	

Warning **** Infeasible Mass Balance in Plus Group

Year = 1993

Year = 2005

ASAP BASE RUN (F08 BASE T5.REP)

Age Structured Assessment Program (ASAP) Version 2.0
Start time for run: Thu Mar 20 13:54:36 2008

obj_fun = 2432.1

Component	Lambda	obj_fun
__Catch_Fleet_1	10	2043.75
Catch_Fleet_Total	10	2043.75
Discard_Fleet_Total	0	0
__Index_Fit_1	1	60.3058
__Index_Fit_2	1	41.137
__Index_Fit_3	1	29.3885
__Index_Fit_4	1	24.6812
__Index_Fit_5	1	1.52122
__Index_Fit_6	1	18.1862
__Index_Fit_7	1	2.50131
__Index_Fit_8	1	-6.82516
__Index_Fit_9	1	-49.274
__Index_Fit_10	1	-36.0871
__Index_Fit_11	1	11.1283
__Index_Fit_12	1	-7.49735
__Index_Fit_13	1	-37.3766
__Index_Fit_14	1	26.59
__Index_Fit_15	1	-16.7199
__Index_Fit_16	1	10.2498
__Index_Fit_17	1	-24.5756
__Index_Fit_18	1	-5.86537
__Index_Fit_19	1	-33.9867
__Index_Fit_20	1	-46.5534
__Index_Fit_21	1	16.2196
__Index_Fit_22	1	-1.02528
__Index_Fit_23	1	-36.1572
__Index_Fit_24	1	-48.7597
__Index_Fit_25	1	9.03927
__Index_Fit_26	1	-12.5549
__Index_Fit_27	1	3.06733
__Index_Fit_28	1	9.92303
__Index_Fit_29	1	43.3967
__Index_Fit_30	1	29.4228
__Index_Fit_31	1	-4.5913
__Index_Fit_32	1	-10.0133
__Index_Fit_33	1	-21.8198
__Index_Fit_34	1	19.6959
__Index_Fit_35	1	73.8095
__Index_Fit_36	1	19.844
__Index_Fit_37	1	-2.64469
__Index_Fit_38	1	-4.71552
__Index_Fit_39	1	-31.8191
Index_Fit_Total	39	11.2457
Catch_Age_Comps	see_below	308.56
Discard_Age_Comps	see_below	0
Survey_Age_Comps	see_below	0
__Sel_Param_1	1	0.863394
__Sel_Param_2	1	3.3608

__Sel_Param_3	1	1.03693
__Sel_Param_4	1	2.20092
Sel_Params_Total	4	7.46205
Index_Sel_Params_Total	0	0
q_year1_Total	0	0
q_devs_Total	390000	0
__Fmult_year1_fleet_1	1	0.659681
Fmult_year1_fleet_Total	1	0.659681
Fmult_devs_fleet_Total	0	0
N_year_1	1	60.4297
Recruit_devs	0	0
SRR_steepness	0	0
SRR_unexpl_stock	0	0
Fmult_Max_penalty	1000	0
F_penalty	0	0

Input and Estimated effective sample sizes for fleet 1

1982	31	28.7442
1983	33	23.4986
1984	43	15.9284
1985	379	521.988
1986	39	30.8231
1987	46	24.0466
1988	663	3022.23
1989	92	422.065
1990	2270	2540.09
1991	58	35.5184
1992	173	610.607
1993	415	226.366
1994	106	74.3798
1995	75	147.862
1996	222	65.0925
1997	267	240.79
1998	151	245.995
1999	187	228.668
2000	125	155.017
2001	215	168.078
2002	61	77.8285
2003	236	685.159
2004	139	176.307
2005	368	736.875
2006	194	210.521
Total	6588	10714.5

Input and Estimated effective Discard sample sizes for fleet 1

1982	0	1e+15
1983	0	1e+15
1984	0	1e+15
1985	0	1e+15
1986	0	1e+15
1987	0	1e+15
1988	0	1e+15
1989	0	1e+15
1990	0	1e+15
1991	0	1e+15
1992	0	1e+15
1993	0	1e+15

1994	0	1e+15
1995	0	1e+15
1996	0	1e+15
1997	0	1e+15
1998	0	1e+15
1999	0	1e+15
2000	0	1e+15
2001	0	1e+15
2002	0	1e+15
2003	0	1e+15
2004	0	1e+15
2005	0	1e+15
2006	0	1e+15
Total	0	2.5e+16

Observed and predicted total fleet catch by year and standardized residual
fleet 1 total catches

1982	18963	19367.1	-0.211396
1983	26466	25834.1	0.242253
1984	26057	25525.9	0.206445
1985	20432	20682.4	-0.122114
1986	20866	20991.6	-0.0601668
1987	18312	18204.7	0.0589384
1988	21761	21474.1	0.133067
1989	10314	9969.74	0.340321
1990	7976	7517.96	0.5929
1991	11316	11128.7	0.167288
1992	11805	12112.1	-0.257497
1993	10781	11199.4	-0.381715
1994	12182	12337.4	-0.1271
1995	10495	9883.26	0.602067
1996	11643	11489.9	0.132658
1997	10325	10533.6	-0.200542
1998	11641	11695.6	-0.0469193
1999	10851	10769.8	0.0753135
2000	13756	13901.1	-0.105196
2001	11932	12097.7	-0.138288
2002	11308	11564	-0.224434
2003	12927	13324.6	-0.303678
2004	13832	14177.2	-0.247146
2005	13444	13500	-0.041658
2006	12853	12857.6	-0.00360121

Observed and predicted total fleet Discards by year and standardized residual
fleet 1 total Discards

1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0

1995 0 0 0
 1996 0 0 0
 1997 0 0 0
 1998 0 0 0
 1999 0 0 0
 2000 0 0 0
 2001 0 0 0
 2002 0 0 0
 2003 0 0 0
 2004 0 0 0
 2005 0 0 0
 2006 0 0 0

Index data

index number 1

units = 2

month = 1

starting and ending ages for selectivity = 2 2

selectivity choice = -1

year, obs index, pred index, standardized residual

1992 7.15 3.16304 2.77823
 1993 6.5 3.24178 2.3698
 1994 3.76 3.64624 0.104657
 1995 6.07 4.36675 1.12188
 1996 22.17 4.91778 5.12972
 1997 3.86 3.52732 0.307016
 1998 1.68 3.59798 -2.59428
 1999 2.11 3.92443 -2.11382
 2000 0.7 3.03344 -4.99513
 2001 3.07 3.79754 -0.724475
 2002 2.77 3.57498 -0.86903
 2003 8.17 4.03331 2.40455
 2004 1.45 2.87259 -2.32883
 2005 2.96 4.33083 -1.29639
 2006 2.64 2.14577 0.706093

index number 2

units = 2

month = 1

starting and ending ages for selectivity = 3 3

selectivity choice = -1

year, obs index, pred index, standardized residual

1992 4.74 3.85823 0.701143
 1993 6.7 3.14297 2.57848
 1994 7.2 3.53907 2.41932
 1995 4.59 4.14529 0.347144
 1996 8.33 7.8728 0.192293
 1997 4.8 9.25791 -2.23757
 1998 3.25 7.14545 -2.68368
 1999 4.8 7.36054 -1.45632
 2000 6.52 8.20581 -0.783374
 2001 5.33 6.29553 -0.567136
 2002 10.74 8.08377 0.967831
 2003 14.36 7.71695 2.1155
 2004 8.68 8.73891 -0.0230396
 2005 4.03 6.20619 -1.47084
 2006 9.06 9.32924 -0.0997554

index number 3

```

units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1992 0.33 0.43957 -0.976644
1993 0.31 0.565482 -2.04764
1994 0.82 0.545626 1.38769
1995 0.25 0.660864 -3.31137
1996 0.6 0.885932 -1.32753
1997 1.04 2.04526 -2.3038
1998 2.29 3.34906 -1.29489
1999 2.9 2.70213 0.240733
2000 4.96 3.07227 1.63166
2001 6.42 3.31135 2.25528
2002 5.58 2.84875 2.29019
2003 8.48 3.89589 2.6495
2004 4.56 3.78241 0.636878
2005 3.07 4.22825 -1.09044
2006 4.29 2.96325 1.26039

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```

index number 4
units = 2
month = 1
starting and ending ages for selectivity = 5 5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1992 0.04 0.0405787 -0.048931
1993 0.05 0.0770519 -1.47314
1994 0.26 0.118014 2.69068
1995 0.02 0.122756 -6.18089
1996 0.12 0.117134 0.0823584
1997 0.43 0.204667 2.52895
1998 0.42 0.740608 -1.9322
1999 0.84 1.288 -1.45608
2000 2.51 1.18823 2.54742
2001 2.44 1.29046 2.16992
2002 2.26 1.62483 1.124
2003 2.67 1.5227 1.91305
2004 1.64 2.13066 -0.891596
2005 1.34 2.03259 -1.41926
2006 2.47 2.23162 0.345716

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```

index number 5
units = 2
month = 1
starting and ending ages for selectivity = 6 8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1992 0.04 0.0369633 0.268951
1993 0.04 0.0164468 3.02749
1994 0.01 0.0263973 -3.30656
1996 0.03 0.0371273 -0.726099
1997 0.15 0.0455082 4.06302
1998 0.12 0.11962 0.0107914
1999 0.41 0.444185 -0.272805
2000 1.08 0.984701 0.314683
2001 1.34 1.09454 0.689259
2002 1.33 1.40645 -0.190374

```

```

2003  1.96  1.94811  0.0207343
2004  1.44  2.19696  -1.43899
2005  1.49  2.74884  -2.08612
2006  2.6   2.9017  -0.37398
index number 6
units = 2
month = 1
starting and ending ages for selectivity = 2  2
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.7  0.607028  0.369901
1983  0.32  0.590939  -1.59218
1984  0.17  0.94034  -4.43979
1985  0.55  0.411521  0.752903
1986  1.48  0.546534  2.58583
1987  0.47  0.659924  -0.880957
1988  0.6  0.484104  0.557113
1989  0.06  0.132534  -2.05708
1990  0.63  0.266326  2.23489
1991  0.79  0.385753  1.86069
1992  0.77  0.308088  2.37767
1993  0.73  0.315757  2.17538
1994  0.35  0.355153  -0.0379369
1995  0.79  0.425332  1.60716
1996  1.08  0.479005  2.11031
1997  0.29  0.34357  -0.439999
1998  0.27  0.350452  -0.676965
1999  0.22  0.38225  -1.43398
2000  0.19  0.295465  -1.14607
2001  0.48  0.369891  0.676383
2002  0.34  0.348212  -0.0619517
2003  0.54  0.392855  0.825764
2004  0.3  0.279798  0.180959
2005  0.26  0.421834  -1.25613
2006  0.04  0.209003  -4.29191
index number 7
units = 2
month = 1
starting and ending ages for selectivity = 3  3
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  1.43  0.880047  1.26009
1983  0.39  0.779923  -1.79894
1984  0.33  0.603862  -1.56846
1985  1.56  0.927726  1.34899
1986  0.43  0.416326  0.0838841
1987  0.43  0.481866  -0.295598
1988  0.81  0.701762  0.372326
1989  0.23  0.381867  -1.316
1990  0.03  0.121554  -3.6318
1991  0.27  0.293617  -0.217657
1992  0.41  0.364524  0.305163
1993  0.5  0.296946  1.3525
1994  0.53  0.33437  1.19566
1995  0.27  0.391645  -0.965425
1996  0.56  0.743818  -0.736814
1997  0.67  0.874683  -0.691971

```

1998	0.52	0.675099	-0.677555
1999	0.74	0.69542	0.161282
2000	1.03	0.77528	0.737409
2001	0.89	0.594799	1.04606
2002	0.89	0.76375	0.397091
2003	1.29	0.729094	1.48109
2004	1.45	0.825648	1.46177
2005	0.65	0.586357	0.267468
2006	1.04	0.881422	0.429431

index number 8
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1

year	obs index	pred index	standardized residual
1982	0.12	0.0954294	0.594687
1983	0.19	0.218937	-0.367963
1984	0.09	0.128517	-0.924729
1985	0.21	0.0934103	2.10279
1986	0.2	0.15014	0.744309
1987	0.02	0.0526082	-2.5104
1988	0.07	0.0853021	-0.513178
1989	0.02	0.0725865	-3.34597
1990	0.06	0.0518028	0.381311
1992	0.01	0.0420305	-3.72693
1993	0.04	0.0540699	-0.782337
1994	0.04	0.0521713	-0.689555
1995	0.02	0.0631901	-2.98613
1996	0.12	0.0847105	0.903956
1997	0.09	0.195563	-2.01444
1998	0.32	0.320228	-0.00185237
1999	0.48	0.258371	1.60775
2000	0.63	0.293762	1.98039
2001	1.02	0.316623	3.03657
2002	0.74	0.27239	2.59418
2003	0.59	0.372515	1.19362
2004	0.85	0.361664	2.21808
2005	0.58	0.404294	0.936747
2006	0.24	0.283338	-0.430888

index number 9
units = 2
month = 1
starting and ending ages for selectivity = 5 5
selectivity choice = -1

year	obs index	pred index	standardized residual
1982	0.02	0.0237056	-0.441214
1983	0.03	0.0319525	-0.163664
1984	0.05	0.0479511	0.108608
1985	0.04	0.0263726	1.08124
1986	0.02	0.0200818	-0.0106003
1987	0.01	0.0250139	-2.37985
1988	0.02	0.0124052	1.23975
1989	0.01	0.0115623	-0.376812
1991	0.02	0.0130602	1.10618
1994	0.01	0.012651	-0.610384
1997	0.01	0.0219401	-2.03952
1998	0.06	0.0793926	-0.726951

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1999 0.13 0.138073 -0.156383
2000 0.12 0.127377 -0.154853
2001 0.2 0.138336 0.956859
2002 0.31 0.17418 1.49637
2003 0.29 0.163232 1.49177
2004 0.27 0.228405 0.43426
2005 0.15 0.217891 -0.969134
2006 0.25 0.239228 0.114322
index number 10
units = 2
month = 1
starting and ending ages for selectivity = 6 8
selectivity choice = -1
year, obs index, pred index, standardized residual
1983 0.02 0.0188945 0.147593
1984 0.02 0.01364 0.99344
1985 0.02 0.0165861 0.485823
1986 0.01 0.0112334 -0.301895
1992 0.01 0.00445949 2.09615
1995 0.01 0.0052904 1.65266
1998 0.02 0.0144318 0.846975
1999 0.03 0.0535894 -1.5059
2000 0.17 0.118801 0.930172
2001 0.1 0.132052 -0.721667
2002 0.19 0.169683 0.29356
2003 0.2 0.235032 -0.418957
2004 0.16 0.265055 -1.31021
2005 0.17 0.331637 -1.73456
2006 0.2 0.35008 -1.45318
index number 11
units = 2
month = 1
starting and ending ages for selectivity = 3 3
selectivity choice = -1
year, obs index, pred index, standardized residual
1983 1.52 1.42787 0.112763
1984 1.46 1.10554 0.501528
1985 1.39 1.69846 -0.361433
1986 0.8 0.762201 0.0872867
1987 0.83 0.882189 -0.109972
1988 0.58 1.28477 -1.43425
1989 0.62 0.699114 -0.216576
1990 0.21 0.222539 -0.104585
1991 0.38 0.537547 -0.625495
1992 0.84 0.667363 0.414901
1993 1.04 0.543643 1.16982
1994 0.8 0.612157 0.482628
1995 0.67 0.717015 -0.122304
1996 1.16 1.36177 -0.289196
1997 1.24 1.60135 -0.461191
1998 1.29 1.23596 0.0771791
1999 2.13 1.27316 0.928057
2000 1.73 1.41937 0.356908
2001 1.2 1.08894 0.175131
2002 1.36 1.39826 -0.0500306
2003 1.17 1.33481 -0.237659
2004 1.31 1.51158 -0.258113

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2005  1.49  1.07349  0.591258
2006  1.14  1.61369  -0.626666
index number 12
units = 2
month = 1
starting and ending ages for selectivity = 4  4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1983  0.4  0.556078  -0.594114
1984  0.34  0.326422  0.0734985
1985  0.43  0.237253  1.0724
1986  0.46  0.381342  0.338191
1987  0.11  0.13362  -0.350788
1988  0.2  0.216659  -0.144283
1989  0.18  0.184363  -0.0431863
1990  0.05  0.131574  -1.74486
1991  0.03  0.0583192  -1.19877
1992  0.09  0.106753  -0.307859
1993  0.25  0.137332  1.08033
1994  0.03  0.13251  -2.67886
1995  0.09  0.160497  -1.04319
1996  0.28  0.215156  0.475055
1997  0.57  0.49671  0.2482
1998  1.14  0.813349  0.608865
1999  1.63  0.656236  1.64074
2000  1.49  0.746127  1.24729
2001  1.22  0.804191  0.751596
2002  0.93  0.691844  0.533485
2003  0.86  0.946152  -0.172171
2004  1.03  0.918591  0.20644
2005  1.37  1.02687  0.519911
2006  0.54  0.71965  -0.517925
index number 13
units = 2
month = 1
starting and ending ages for selectivity = 5  5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1983  0.03  0.0677471  -1.46901
1984  0.12  0.101668  0.298961
1985  0.07  0.0559165  0.405105
1986  0.05  0.0425785  0.289758
1987  0.11  0.0530356  1.3156
1988  0.03  0.026302  0.237238
1989  0.03  0.024515  0.364124
1991  0.04  0.0276909  0.66324
1993  0.03  0.017513  0.970676
1994  0.01  0.0268233  -1.77937
1995  0.01  0.027901  -1.85041
1996  0.02  0.0266231  -0.515854
1997  0.04  0.0465185  -0.272259
1998  0.29  0.168332  0.980939
1999  0.33  0.292749  0.216007
2000  0.31  0.27007  0.248669
2001  0.4  0.293306  0.559496
2002  0.37  0.369305  0.00338905
2003  0.35  0.346091  0.0202528

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2004  0.25  0.484276  -1.19239
2005  0.66  0.461984  0.643286
2006  0.47  0.507223  -0.13745
index number 14
units = 2
month = 1
starting and ending ages for selectivity = 3 3
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  1.584  0.954509  0.913434
1983  0.599  0.845914  -0.622449
1984  0.078  0.654956  -3.83735
1985  1.26  1.00622  0.405596
1986  0.522  0.451552  0.261448
1987  0.64  0.522637  0.365331
1988  1.005  0.76114  0.501207
1989  0.363  0.414177  -0.237851
1990  0.021  0.131839  -3.31292
1991  0.05  0.31846  -3.33892
1992  0.342  0.395367  -0.261498
1993  0.492  0.322072  0.764103
1994  1.217  0.362661  2.18331
1995  1.302  0.424783  2.01993
1996  0.686  0.806754  -0.292404
1997  1.279  0.948692  0.53876
1998  1.212  0.73222  0.908807
1999  0.878  0.754261  0.273949
2000  1.659  0.840879  1.22544
2001  1.026  0.645126  0.83673
2002  1.511  0.828373  1.08395
2003  1.44  0.790784  1.0809
2004  0.283  0.895507  -2.0774
2005  0.351  0.63597  -1.07187
2006  2.44  0.956001  1.68976
index number 15
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.142  0.126831  0.203737
1983  0.45  0.290978  0.786275
1984  0.067  0.170806  -1.68767
1985  0.036  0.124147  -2.23249
1986  0.185  0.199544  -0.136479
1987  0.013  0.0699189  -3.03399
1988  0.123  0.113371  0.147013
1989  0.102  0.0964711  0.100501
1990  0.081  0.0688485  0.293123
1991  0.012  0.0305166  -1.68321
1992  0.09  0.0558607  0.860121
1993  0.065  0.0718616  -0.180979
1994  0.048  0.0693383  -0.663279
1995  0.053  0.0839829  -0.830136
1996  0.114  0.112585  0.0225302
1997  0.181  0.259913  -0.652552
1998  0.659  0.4256  0.788482

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1999  1.112  0.343388  2.11907
2000  1.205  0.390425  2.03241
2001  0.73   0.420808  0.993427
2002  0.397  0.36202   0.166338
2003  0.624  0.495092  0.417316
2004  0.323  0.48067   -0.716896
2005  1.029  0.537328  1.17172
2006  0.975  0.37657   1.71562
index number 16
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.405  0.479015  -0.302689
1983  1.662  1.09897   0.745968
1984  0.625  0.645103  -0.0570911
1985  0.267  0.46888   -1.01548
1986  1.895  0.75364   1.66283
1987  0.679  0.264071  1.70312
1988  0.663  0.42818   0.788496
1989  0.429  0.364353  0.294552
1990  0.317  0.260028  0.357274
1992  0.288  0.210975  0.561248
1993  0.186  0.271408  -0.681455
1994  0.478  0.261878  1.08516
1995  0.076  0.317187  -2.5766
1996  0.506  0.425211  0.313701
1997  1.282  0.981641  0.481415
1998  1.508  1.60741   -0.115128
1999  0.59   1.29691   -1.42038
2000  0.94   1.47456   -0.811947
2001  2.303  1.58931   0.668896
2002  1.083  1.36728   -0.42035
2003  1.302  1.86987   -0.652764
2004  1.254  1.8154    -0.667192
2005  1.455  2.02939   -0.600035
2006  2.049  1.42223   0.658456
index number 17
units = 2
month = 1
starting and ending ages for selectivity = 5 5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.012  0.0428687  -2.29613
1983  0.02   0.0577822  -1.9133
1984  0.154  0.0867138  1.03576
1985  0.127  0.0476917  1.76629
1986  0.04   0.0363156  0.174265
1987  0.214  0.0452346  2.80267
1988  0.011  0.0224333  -1.28518
1989  0.006  0.0209091  -2.25139
1990  0.016  0.0235281  -0.6954
1991  0.011  0.0236179  -1.37798
1992  0.006  0.00786646  -0.488444
1994  0.03   0.0228778  0.488769
1997  0.114  0.0396761  1.90338

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1998  0.351  0.143572  1.61214
1999  0.262  0.249688  0.0868004
2000  0.379  0.230346  0.898006
2001  0.494  0.250164  1.22706
2002  0.307  0.314984  -0.0463011
2003  0.178  0.295185  -0.912184
2004  0.256  0.413044  -0.862695
2005  0.136  0.39403  -1.91839
2006  1.35  0.432615  2.05227
index number 18
units = 2
month = 1
starting and ending ages for selectivity = 3 3
selectivity choice = -1
  year, obs index, pred index, standardized residual
1984  0.271  0.286586  -0.100845
1985  0.325  0.440288  -0.547514
1986  0.1  0.197583  -1.22809
1987  0.086  0.228688  -1.76373
1988  0.223  0.333048  -0.723364
1989  0.049  0.181229  -2.35873
1990  0.022  0.0576881  -1.73848
1991  0.189  0.139347  0.549635
1992  0.188  0.172999  0.149965
1993  0.151  0.140927  0.124499
1994  0.314  0.158688  1.23073
1995  0.051  0.18587  -2.33218
1996  0.266  0.353007  -0.510344
1997  0.507  0.415114  0.3606
1998  0.594  0.320394  1.11328
1999  0.593  0.330038  1.05676
2000  0.726  0.367939  1.22564
2001  0.34  0.282284  0.335485
2002  1.264  0.362467  2.25261
2003  1.016  0.346019  1.94249
2004  0.818  0.391843  1.32729
2005  0.264  0.278278  -0.0949888
2006  0.36  0.418312  -0.270732
index number 19
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1984  0.044  0.0756012  -0.976141
1985  0.04  0.0549492  -0.572629
1986  0.082  0.088321  -0.133917
1987  0.014  0.0309471  -1.43048
1988  0.035  0.0501795  -0.649685
1989  0.024  0.0426995  -1.03899
1990  0.013  0.0304733  -1.53631
1991  0.029  0.0135071  1.37793
1992  0.021  0.0247247  -0.29446
1993  0.015  0.031807  -1.35549
1994  0.025  0.0306901  -0.369811
1995  0.02  0.037172  -1.11778
1996  0.086  0.0498315  0.984105

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1997 0.057 0.115041 -1.2664
1998 0.503 0.188377 1.77119
1999 0.385 0.151988 1.67614
2000 0.524 0.172807 2.00052
2001 0.365 0.186255 1.21328
2002 0.465 0.160235 1.92132
2003 0.395 0.219135 1.06255
2004 0.41 0.212751 1.18308
2005 0.15 0.237829 -0.831209
2006 0.068 0.166675 -1.61681
index number 20
units = 2
month = 1
starting and ending ages for selectivity = 5 5
selectivity choice = -1
year, obs index, pred index, standardized residual
1985 0.058 0.022186 1.73302
1986 0.008 0.0168939 -1.34805
1987 0.004 0.021043 -2.99411
1988 0.009 0.0104359 -0.266944
1989 0.016 0.00972683 0.897545
1990 0.006 0.0109452 -1.08409
1991 0.028 0.0109869 1.68706
1992 0.004 0.00365945 0.160469
1993 0.018 0.00694865 1.7165
1994 0.018 0.0106427 0.947676
1995 0.005 0.0110703 -1.43338
1996 0.023 0.0105633 1.40323
1997 0.036 0.0184572 1.20478
1998 0.116 0.0667891 0.995559
1999 0.139 0.116154 0.32381
2000 0.074 0.107156 -0.667648
2001 0.12 0.116375 0.0553137
2002 0.233 0.146529 0.836431
2003 0.232 0.137319 0.945752
2004 0.194 0.192146 0.0173143
2005 0.033 0.183301 -3.09213
2006 0.065 0.201251 -2.03812
index number 21
units = 2
month = 1
starting and ending ages for selectivity = 3 3
selectivity choice = -1
year, obs index, pred index, standardized residual
1985 0.571 1.10752 -1.19472
1986 0.339 0.497009 -0.689988
1987 1.17 0.57525 1.28032
1988 1.067 0.837762 0.436189
1989 0.884 0.455872 1.19428
1990 0.029 0.145111 -2.90381
1991 0.674 0.350519 1.17908
1992 0.826 0.435168 1.15572
1993 0.57 0.354494 0.85651
1994 0.827 0.399169 1.31362
1995 0.3 0.467544 -0.800183
1996 0.384 0.887968 -1.51176
1997 0.887 1.04419 -0.294233

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1998  0.681  0.805931  -0.303755
1999  0.269  0.83019  -2.03231
2000  0.679  0.925528  -0.558585
2001  0.395  0.710069  -1.05764
2002  2.689  0.911763  1.95044
2003  3.087  0.87039  2.28311
2004  1.459  0.985656  0.707286
2005  0.385  0.699992  -1.07811
2006  1.093  1.05224  0.0685397
index number 22
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1985  0.331  0.337018  -0.0324959
1986  0.528  0.541697  -0.0461848
1987  0.298  0.189807  0.813481
1988  0.223  0.307765  -0.580984
1989  0.481  0.261888  1.09637
1990  0.095  0.186901  -1.22036
1991  0.11  0.0828426  0.511329
1992  0.34  0.151644  1.45608
1993  0.366  0.195081  1.13472
1994  0.152  0.188231  -0.385543
1995  0.085  0.227986  -1.77928
1996  0.117  0.30563  -1.73161
1997  1.188  0.705578  0.93958
1998  1.373  1.15536  0.311232
1999  1.054  0.932186  0.221484
2000  1.484  1.05987  0.607001
2001  0.871  1.14236  -0.489088
2002  1.137  0.982766  0.262893
2003  1.93  1.34401  0.652574
2004  1.319  1.30486  0.0194359
2005  0.755  1.45867  -1.18764
2006  0.744  1.02227  -0.572998
index number 23
units = 2
month = 1
starting and ending ages for selectivity = 5 5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1985  0.072  0.0683598  0.0935607
1986  0.075  0.0520536  0.65862
1987  0.072  0.0648378  0.188953
1988  0.033  0.0321551  0.0467722
1989  0.037  0.0299704  0.379984
1990  0.015  0.0337245  -1.46106
1991  0.042  0.0338531  0.38888
1992  0.036  0.0112755  2.09352
1993  0.046  0.0214103  1.37917
1994  0.039  0.0327924  0.312645
1995  0.024  0.0341099  -0.633952
1996  0.012  0.0325477  -1.79942
1997  0.042  0.0568705  -0.546618
1998  0.373  0.205791  1.0725

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1999  0.321  0.357895  -0.196206
2000  0.346  0.33017  0.084454
2001  0.341  0.358577  -0.0906388
2002  0.436  0.451488  -0.0629518
2003  0.479  0.423109  0.223749
2004  0.407  0.592044  -0.675849
2005  0.44  0.564791  -0.450271
2006  0.355  0.620097  -1.00585
index number 24
units = 2
month = 1
starting and ending ages for selectivity = 6 8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1985  0.025  0.0190733  0.487974
1986  0.009  0.0129179  -0.65172
1987  0.007  0.0073911  -0.0980446
1988  0.003  0.0112748  -2.38761
1989  0.003  0.0040968  -0.561922
1990  0.001  0.00406497  -2.52908
1991  0.012  0.00631831  1.15679
1992  0.022  0.0051282  2.62625
1993  0.025  0.00228178  4.31715
1994  0.007  0.0036623  1.16827
1995  0.009  0.00608371  0.706223
1996  0.005  0.00515095  -0.0536377
1997  0.005  0.0063137  -0.420702
1998  0.04  0.0165959  1.58648
1999  0.075  0.0616252  0.354215
2000  0.127  0.136615  -0.131611
2001  0.191  0.151853  0.413621
2002  0.134  0.195127  -0.67773
2003  0.183  0.270276  -0.703241
2004  0.203  0.304801  -0.732988
2005  0.119  0.381367  -2.10029
2006  0.151  0.402575  -1.7684
index number 25
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  1.74  0.334045  2.97624
1983  0.52  0.766374  -0.699428
1984  0.42  0.449867  -0.123888
1985  0.49  0.326977  0.729498
1986  0.28  0.525557  -1.13553
1987  0.51  0.184152  1.83702
1988  0.37  0.298595  0.386675
1989  0.24  0.254084  -0.102843
1990  0.07  0.181332  -1.71653
1991  0.12  0.0803742  0.722793
1992  0.08  0.147125  -1.09873
1993  0.41  0.189268  1.394
1994  0.22  0.182622  0.335802
1995  0.03  0.221193  -3.60287
1996  0.2  0.296524  -0.710192

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1997 1.03 0.684555 0.736764
1998 0.96 1.12094 -0.279505
1999 0.36 0.904411 -1.66124
2000 1.91 1.0283 1.11666
2001 1.24 1.10832 0.202462
2002 0.63 0.953484 -0.747327
2003 1.38 1.30397 0.102203
2004 2.08 1.26598 0.895416
2005 1.3 1.41521 -0.153128
2006 1.38 0.991806 0.595678
index number 26
units = 2
month = 1
starting and ending ages for selectivity = 5 5
selectivity choice = -1
year, obs index, pred index, standardized residual
1982 0.2 0.0551176 2.32429
1983 0.07 0.0742923 -0.107322
1984 0.11 0.11149 -0.0242702
1985 0.1 0.0613186 0.88201
1986 0.02 0.046692 -1.52898
1987 0.13 0.0581594 1.45055
1988 0.02 0.0288431 -0.660287
1992 0.01 0.0101141 -0.020466
1993 0.11 0.019205 3.14747
1994 0.07 0.0294147 1.56354
1997 0.01 0.0510127 -2.9386
1998 0.03 0.184595 -3.27668
1999 0.09 0.321031 -2.29342
2000 0.35 0.296162 0.301213
2001 0.45 0.321643 0.605588
2002 0.3 0.404984 -0.541134
2003 0.4 0.379528 0.0947449
2004 0.49 0.531062 -0.145125
2005 0.78 0.506616 0.778232
2006 0.69 0.556226 0.388659
index number 27
units = 2
month = 1
starting and ending ages for selectivity = 2 2
selectivity choice = -1
year, obs index, pred index, standardized residual
1990 0.17 0.196744 -0.26348
1991 0.07 0.284968 -2.53174
1992 0.15 0.227595 -0.751887
1993 0.11 0.23326 -1.35556
1994 0.08 0.262363 -2.14188
1995 0.2 0.314207 -0.814649
1996 0.41 0.353856 0.265577
1997 0.17 0.253807 -0.722749
1998 0.07 0.25889 -2.35866
1999 0.26 0.28238 -0.14891
2000 0.63 0.218269 1.91157
2001 0.42 0.27325 0.775216
2002 0.81 0.257236 2.06856
2003 1.48 0.290215 2.93803
2004 0.54 0.206696 1.73183

```

```

2005  0.55  0.311622  1.02455
2006  0.19  0.154398  0.37419
index number 28
units = 2
month = 1
starting and ending ages for selectivity = 3  8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1990  0.1  0.103487  -0.0618175
1991  0.08  0.249976  -2.05466
1992  0.18  0.310344  -0.982347
1993  0.14  0.252811  -1.0658
1994  0.05  0.284672  -3.13665
1995  0.22  0.333434  -0.749877
1996  0.53  0.633263  -0.321019
1997  0.52  0.744677  -0.647635
1998  0.36  0.574758  -0.843703
1999  0.61  0.592058  0.0538383
2000  1.89  0.660049  1.89719
2001  0.55  0.506393  0.148971
2002  1.11  0.650233  0.964423
2003  2.25  0.620727  2.32239
2004  1.53  0.70293  1.40261
2005  1.89  0.499206  2.40087
2006  1.09  0.750414  0.673217
index number 29
units = 2
month = 1
starting and ending ages for selectivity = 2  2
selectivity choice = -1
  year, obs index, pred index, standardized residual
1988  3.06  5.42727  -1.03338
1989  0.51  1.48584  -1.9284
1990  1.44  2.98577  -1.31505
1991  2.69  4.32465  -0.856231
1992  3  3.45396  -0.254115
1993  5.69  3.53994  0.855886
1994  1.07  3.9816  -2.36969
1995  2.93  4.76838  -0.878256
1996  5.1  5.3701  -0.0930659
1997  8.25  3.85175  1.37361
1998  5.8  3.92891  0.702413
1999  6.12  4.28538  0.64264
2000  3.91  3.31244  0.299095
2001  3.32  4.14683  -0.401034
2002  9.11  3.90379  1.52823
2003  5.61  4.40428  0.436372
2004  6.27  3.1368  1.24898
2005  5.99  4.72916  0.426219
2006  5.74  2.34313  1.61578
index number 30
units = 2
month = 1
starting and ending ages for selectivity = 3  3
selectivity choice = -1
  year, obs index, pred index, standardized residual
1988  1.03  1.28013  -0.392065

```



```

1989 0.18 0.69659 -2.44041
1990 0.11 0.221735 -1.26418
1991 0.27 0.535607 -1.23528
1992 0.57 0.664953 -0.277866
1993 0.2 0.54168 -1.79682
1994 0.08 0.609947 -3.6633
1995 0.28 0.714426 -1.68921
1996 2.7 1.35685 1.24088
1997 5.25 1.59557 2.14782
1998 2.67 1.23149 1.39555
1999 3.46 1.26856 1.80949
2000 1.82 1.41424 0.45489
2001 1.18 1.08501 0.151344
2002 4.13 1.39321 1.95968
2003 2.55 1.32999 1.17386
2004 2.49 1.50612 0.906643
2005 1.24 1.06962 0.266563
2006 3.22 1.60786 1.25241
index number 31
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
year, obs index, pred index, standardized residual
1990 0.03 0.0703169 -1.53615
1991 0.02 0.0311674 -0.800056
1992 0.06 0.0570521 0.0908548
1993 0.01 0.0733942 -3.59461
1995 0.05 0.085774 -0.973274
1996 0.18 0.114986 0.808184
1997 1.02 0.265456 2.42755
1998 0.29 0.434677 -0.729869
1999 0.65 0.350712 1.1127
2000 0.45 0.398751 0.218046
2001 0.41 0.429783 -0.0849794
2002 1.28 0.369741 2.23946
2003 0.57 0.505651 0.216027
2004 0.57 0.490921 0.26934
2005 0.53 0.548788 -0.06282
2006 0.48 0.384602 0.39959
index number 32
units = 2
month = 1
starting and ending ages for selectivity = 5 8
selectivity choice = -1
year, obs index, pred index, standardized residual
1992 0.02 0.0100584 1.23951
1993 0.01 0.0190992 -1.1669
1994 0.02 0.0292526 -0.685714
1995 0.16 0.030428 2.99328
1996 0.05 0.0290343 0.980218
1997 0.18 0.0507316 2.28382
1998 0.04 0.183577 -2.74792
1999 0.18 0.319262 -1.03344
2000 0.22 0.29453 -0.526144
2001 0.15 0.31987 -1.36567
2002 0.81 0.402753 1.26004

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```

2003  0.51  0.377436  0.542834
2004  0.43  0.528136  -0.370719
2005  0.32  0.503825  -0.81857
2006  0.4   0.553161  -0.584631
index number 33
units = 2
month = 1
starting and ending ages for selectivity = 1  1
selectivity choice = -1
  year, obs index, pred index, standardized residual
1985  0.24  0.0902408  1.76399
1986  0.172  0.11012  0.804176
1987  0.075  0.0796273  -0.107966
1988  0.015  0.0223054  -0.715548
1990  0.032  0.0632745  -1.22945
1991  0.036  0.051137  -0.632968
1992  0.013  0.0523304  -2.51145
1993  0.084  0.0584357  0.654429
1994  0.132  0.0697654  1.14995
1995  0.023  0.0760495  -2.15665
1996  0.069  0.0543406  0.430711
1997  0.033  0.0550736  -0.923626
1999  0.044  0.0463034  -0.0920175
2000  0.012  0.058005  -2.84145
2001  0.021  0.0544841  -1.71932
2002  0.442  0.061394  3.55988
2004  0.255  0.0659176  2.43972
2005  0.067  0.0326682  1.29535
2006  0.098  0.0617742  0.832229
index number 34
units = 2
month = 1
starting and ending ages for selectivity = 1  1
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  2.27  1.50466  0.741577
1983  5.01  2.43677  1.29981
1984  1.58  1.06929  0.704101
1985  1.26  1.41737  -0.212238
1986  1.26  1.72959  -0.571268
1987  0.39  1.25067  -2.10145
1988  0.54  0.35034  0.78026
1989  1.24  0.695903  1.04174
1990  2.54  0.993821  1.69223
1991  2.64  0.803183  2.14594
1992  0.89  0.821928  0.143494
1993  0.5   0.91782  -1.09536
1994  2.41  1.09577  1.42137
1995  0.63  1.19447  -1.15369
1996  0.81  0.8535  -0.0943377
1997  0.89  0.865013  0.0513553
1998  0.73  0.942684  -0.461101
1999  0.53  0.727263  -0.570611
2000  0.57  0.911054  -0.845726
2001  0.47  0.855753  -1.08068
2002  0.77  0.964284  -0.405753
2003  0.44  0.686553  -0.802342

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2004 1.3 1.03533 0.410522
2005 0.35 0.513103 -0.689873
2006 0.8 0.970255 -0.347959
index number 35
units = 2
month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
year, obs index, pred index, standardized residual
1982 3.408 12.7428 -2.37838
1983 17.699 20.6369 -0.276948
1984 13.31 9.05571 0.69452
1985 12.843 12.0036 0.121899
1986 59.526 14.6478 2.52856
1987 7.584 10.5918 -0.6024
1988 1.763 2.96701 -0.938727
1989 2.855 5.89356 -1.30707
1990 4.733 8.41659 -1.03811
1991 7.337 6.8021 0.136515
1992 8.487 6.96085 0.357493
1993 4.145 7.77295 -1.13387
1994 22.311 9.27999 1.58196
1995 13.067 10.1159 0.461637
1996 6.493 7.22823 -0.193448
1997 7.997 7.32573 0.158109
1998 14.983 7.98352 1.1353
1999 8.565 6.15914 0.594661
2000 9.874 7.71565 0.444812
2001 13.543 7.24731 1.12755
2002 5.406 8.16645 -0.743941
2003 8.18 5.81437 0.615602
2004 6.993 8.76817 -0.407959
2005 2.198 4.34543 -1.22915
2006 9.658 8.21702 0.291388
index number 36
units = 2
month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
year, obs index, pred index, standardized residual
1988 0.17 0.482823 -1.88247
1989 1 0.959063 0.0753784
1990 1.28 1.36964 -0.122066
1991 1 1.10691 -0.183175
1992 1.1 1.13274 -0.0528985
1993 2.55 1.2649 1.26435
1994 1.66 1.51014 0.170628
1995 4.95 1.64617 1.98542
1996 1.66 1.17626 0.621232
1997 1.65 1.19212 0.586172
1998 0.67 1.29917 -1.1942
1999 1.03 1.00228 0.0491955
2000 0.95 1.25557 -0.502939
2001 0.62 1.17936 -1.15959
2002 1.51 1.32893 0.230352
2003 0.6 0.946177 -0.821442
2004 0.9 1.42685 -0.831055

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2005  3.11  0.707136  2.67109
2006  0.81  1.33716  -0.903985
index number 37
units = 2
month = 1
starting and ending ages for selectivity = 1  1
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.55  0.436653  0.416182
1983  0.96  0.707155  0.551266
1984  0.18  0.310308  -0.982139
1985  0.59  0.411321  0.650567
1986  0.39  0.50193  -0.45502
1987  0.07  0.362944  -2.96793
1988  0.06  0.101669  -0.951067
1989  0.31  0.201952  0.772827
1990  0.44  0.288408  0.761748
1991  0.76  0.233084  2.13145
1992  0.99  0.238524  2.56664
1993  0.23  0.266352  -0.26463
1994  0.75  0.317993  1.54738
1995  0.93  0.346636  1.77977
1996  0.11  0.247687  -1.46378
1997  0.17  0.251028  -0.702895
1998  0.38  0.273568  0.59263
1999  0.21  0.211053  -0.00901634
2000  0.22  0.264389  -0.33145
2001  0.12  0.248341  -1.31162
2002  0.06  0.279836  -2.77696
2003  0.18  0.199239  -0.183126
2004  0.36  0.300455  0.326062
2005  0.16  0.148903  0.129625
2006  0.31  0.281569  0.173475
index number 38
units = 2
month = 1
starting and ending ages for selectivity = 1  1
selectivity choice = -1
  year, obs index, pred index, standardized residual
1986  0.32  0.330346  -0.0573819
1987  0.26  0.238872  0.152842
1988  0.01  0.0669136  -3.4279
1989  0.14  0.132915  0.0936567
1990  0.36  0.189816  1.15426
1991  0.38  0.153405  1.63583
1992  0.37  0.156985  1.54614
1993  0.05  0.1753  -2.2623
1994  0.57  0.209288  1.80686
1995  0.3  0.228139  0.493815
1996  0.08  0.163015  -1.28368
1997  0.22  0.165214  0.516463
1998  0.39  0.180049  1.39387
1999  0.35  0.138904  1.66659
2000  0.21  0.174008  0.33905
2001  0.14  0.163446  -0.279231
2002  0.13  0.184174  -0.628207
2003  0.21  0.131129  0.84926

```

2004	0.27	0.197745	0.561654
2005	0.01	0.0980007	-4.11602
2006	0.17	0.185315	-0.155558

index number 39
units = 2
month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1

year	obs index	pred index	standardized residual
1990	0.02	0.036712	-1.09532
1992	0.01	0.0303622	-2.00286
1993	0.01	0.0339045	-2.20186
1994	0.04	0.0404779	-0.0214205
1995	0.03	0.044124	-0.695757
1996	0.02	0.0315285	-0.820827
1997	0.04	0.0319538	0.405021
1999	0.03	0.0268653	0.199027
2000	0.09	0.0336545	1.77392
2001	0.01	0.0316117	-2.07559
2002	0.11	0.0356209	2.0334
2003	0.05	0.0253614	1.22412
2004	0.1	0.0382455	1.73331
2005	0.04	0.0189541	1.34687
2006	0.04	0.0358415	0.197965

Input and Estimated effective sample sizes for index 1

1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 2

1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0

2006 0 0
 Total 0 0
 Input and Estimated effective sample sizes for index 3
 1992 0 0
 1993 0 0
 1994 0 0
 1995 0 0
 1996 0 0
 1997 0 0
 1998 0 0
 1999 0 0
 2000 0 0
 2001 0 0
 2002 0 0
 2003 0 0
 2004 0 0
 2005 0 0
 2006 0 0
 Total 0 0
 Input and Estimated effective sample sizes for index 4
 1992 0 0
 1993 0 0
 1994 0 0
 1995 0 0
 1996 0 0
 1997 0 0
 1998 0 0
 1999 0 0
 2000 0 0
 2001 0 0
 2002 0 0
 2003 0 0
 2004 0 0
 2005 0 0
 2006 0 0
 Total 0 0
 Input and Estimated effective sample sizes for index 5
 1992 0 0
 1993 0 0
 1994 0 0
 1996 0 0
 1997 0 0
 1998 0 0
 1999 0 0
 2000 0 0
 2001 0 0
 2002 0 0
 2003 0 0
 2004 0 0
 2005 0 0
 2006 0 0
 Total 0 0
 Input and Estimated effective sample sizes for index 6
 1982 0 0
 1983 0 0
 1984 0 0
 1985 0 0

1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 7

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 8

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0

1989 0 0
1990 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 9

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1991 0 0
1994 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 10

1983 0 0
1984 0 0
1985 0 0
1986 0 0
1992 0 0
1995 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 11

1983	0	0
1984	0	0
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0

Total 0 0

Input and Estimated effective sample sizes for index 12

1983	0	0
1984	0	0
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0

Total 0 0

Input and Estimated effective sample sizes for index 13

1983	0	0
1984	0	0
1985	0	0
1986	0	0

1987 0 0
1988 0 0
1989 0 0
1991 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 14

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 15

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0

1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 16

1982	0	0
1983	0	0
1984	0	0
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0

Total 0 0

Input and Estimated effective sample sizes for index 17

1982	0	0
1983	0	0
1984	0	0
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1994	0	0
1997	0	0
1998	0	0

1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 18

1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 19

1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0

2006	0	0
Total	0	0
Input and Estimated effective sample sizes for index 20		
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0
Input and Estimated effective sample sizes for index 21		
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0
Input and Estimated effective sample sizes for index 22		
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0

1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 23

1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 24

1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0

2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 25

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 26

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1992 0 0
1993 0 0
1994 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 27

1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0

Total 0 0

Input and Estimated effective sample sizes for index 28

1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0

Total 0 0

Input and Estimated effective sample sizes for index 29

1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0

2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 30

1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0

Input and Estimated effective sample sizes for index 31

1990 0 0
1991 0 0
1992 0 0
1993 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0

Input and Estimated effective sample sizes for index 32

1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0
Input and Estimated effective sample sizes for index 33
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0
Input and Estimated effective sample sizes for index 34
1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0
Input and Estimated effective sample sizes for index 35
1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0

1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 36

1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 37

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0

1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 38

1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 39

1990 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Survey proportions at age by index

Index number 1
N/A
Index number 2
N/A
Index number 3

N/A
Index number 4
N/A
Index number 5
N/A
Index number 6
N/A
Index number 7
N/A
Index number 8
N/A
Index number 9
N/A
Index number 10
N/A
Index number 11
N/A
Index number 12
N/A
Index number 13
N/A
Index number 14
N/A
Index number 15
N/A
Index number 16
N/A
Index number 17
N/A
Index number 18
N/A
Index number 19
N/A
Index number 20
N/A
Index number 21
N/A
Index number 22
N/A
Index number 23
N/A
Index number 24
N/A
Index number 25
N/A
Index number 26
N/A
Index number 27
N/A
Index number 28
N/A
Index number 29
N/A
Index number 30
N/A
Index number 31
N/A

Index number 32
 N/A
 Index number 33
 N/A
 Index number 34
 N/A
 Index number 35
 N/A
 Index number 36
 N/A
 Index number 37
 N/A
 Index number 38
 N/A
 Index number 39
 N/A

Index Selectivity at Age

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

Deviations section: only applicable if associated lambda > 0

Nyear1 observed, expected, standardized residual

2	42223.2	26071.1	0.625936
3	22193.6	12144.6	0.782736
4	2871.67	3605.15	-0.295312
5	613.233	1037.69	-0.682885
6	278.133	298.335	-0.0910306
7	86.5266	85.767	0.0114464
8	34.2466	34.6052	-0.0135258

Fleet Obs, Initial, and Standardized Residual for Fmult

1	1.04658	1	0.0591107
---	---------	---	-----------

Standardized Residuals for Fmult_devs by fleet and year

N/A

Index Obs, Initial, and Standardized Residual for q_year1

N/A

Standardized Residuals for catchability deviations by index and year

index 1 q_devs standardized residuals

2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0

index 2 q_devs standardized residuals

2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0

index 3 q_devs standardized residuals

2	0
3	0
4	0
5	0
6	0

```
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
  index 4 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
  index 5 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
  index 6 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
```



```
20 0
21 0
22 0
23 0
24 0
25 0
  index 7 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
  index 8 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
  index 9 q_devs standardized residuals
2 0
```

3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0

index 10 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0

index 11 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0

index 12 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0

index 13 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0

index 14 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0

```
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
  index 15 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
  index 16 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
```

19 0
20 0
21 0
22 0
23 0
24 0
index 17 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
index 18 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
index 19 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0

```
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
  index 20 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
  index 21 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
```

19 0
20 0
21 0
22 0
index 22 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
index 23 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
index 24 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0

10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
index 25 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
index 26 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0

20 0
index 27 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
index 28 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
index 29 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
index 30 q_devs standardized residuals
2 0
3 0

4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
index 31 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
index 32 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
index 33 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0

```
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
  index 34 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
  index 35 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
```

```
24 0
25 0
  index 36 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
  index 37 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
  index 38 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
```

12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0

index 39 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0

Obs, Initial, and Standardized Residual for SRR steepness
N/A

Obs, Initial, and Standardized Residual for SRR unexpl S
N/A

End of Deviations Section

Selectivity by age and year for each fleet

fleet 1 selectivity at age

0.0413693	0.538843	0.96936	0.998834	0.999957	0.999998	1	1
0.0413693	0.538843	0.96936	0.998834	0.999957	0.999998	1	1
0.0413693	0.538843	0.96936	0.998834	0.999957	0.999998	1	1
0.0413693	0.538843	0.96936	0.998834	0.999957	0.999998	1	1
0.0413693	0.538843	0.96936	0.998834	0.999957	0.999998	1	1
0.0413693	0.538843	0.96936	0.998834	0.999957	0.999998	1	1
0.0413693	0.538843	0.96936	0.998834	0.999957	0.999998	1	1
0.0413693	0.538843	0.96936	0.998834	0.999957	0.999998	1	1
0.0413693	0.538843	0.96936	0.998834	0.999957	0.999998	1	1
0.0413693	0.538843	0.96936	0.998834	0.999957	0.999998	1	1
0.0413693	0.538843	0.96936	0.998834	0.999957	0.999998	1	1
0.0413693	0.538843	0.96936	0.998834	0.999957	0.999998	1	1
0.0139015	0.158404	0.71534	0.971058	0.997774	0.999834	0.999988	1
0.0139015	0.158404	0.71534	0.971058	0.997774	0.999834	0.999988	1
0.0139015	0.158404	0.71534	0.971058	0.997774	0.999834	0.999988	1
0.0139015	0.158404	0.71534	0.971058	0.997774	0.999834	0.999988	1
0.0139015	0.158404	0.71534	0.971058	0.997774	0.999834	0.999988	1
0.0139015	0.158404	0.71534	0.971058	0.997774	0.999834	0.999988	1
0.0139015	0.158404	0.71534	0.971058	0.997774	0.999834	0.999988	1
0.0139015	0.158404	0.71534	0.971058	0.997774	0.999834	0.999988	1
0.0139015	0.158404	0.71534	0.971058	0.997774	0.999834	0.999988	1

0.0139015 0.158404 0.71534 0.971058 0.997774 0.999834 0.999988 1
0.0139015 0.158404 0.71534 0.971058 0.997774 0.999834 0.999988 1
0.0139015 0.158404 0.71534 0.971058 0.997774 0.999834 0.999988 1
0.0139015 0.158404 0.71534 0.971058 0.997774 0.999834 0.999988 1

Fmult by year for each fleet

1982 1.04658
1983 1.47154
1984 1.53676
1985 1.49015
1986 1.7454
1987 1.39761
1988 1.95195
1989 1.67219
1990 1.33065
1991 1.61674
1992 1.58005
1993 1.4054
1994 1.33018
1995 1.61383
1996 1.34096
1997 0.878117
1998 0.816099
1999 0.678098
2000 0.725304
2001 0.565204
2002 0.477099
2003 0.453508
2004 0.471593
2005 0.490137
2006 0.427629

Directed F by age and year for each fleet

fleet 1 directed F at age

0.0432965 0.563944 1.01452 1.04536 1.04654 1.04658 1.04658 1.04658
0.0608767 0.792931 1.42646 1.46983 1.47148 1.47154 1.47154 1.47154
0.0635745 0.82807 1.48967 1.53496 1.53669 1.53675 1.53676 1.53676
0.0616465 0.802956 1.44449 1.48841 1.49009 1.49015 1.49015 1.49015
0.072206 0.940497 1.69192 1.74337 1.74533 1.7454 1.7454 1.7454
0.0578183 0.753094 1.35479 1.39598 1.39755 1.39761 1.39761 1.39761
0.0807507 1.05179 1.89214 1.94967 1.95186 1.95194 1.95195 1.95195
0.0691773 0.901047 1.62095 1.67024 1.67212 1.67219 1.67219 1.67219
0.0550481 0.717011 1.28988 1.3291 1.33059 1.33065 1.33065 1.33065
0.0668834 0.871169 1.5672 1.61486 1.61667 1.61674 1.61674 1.61674
0.0653657 0.8514 1.53164 1.57821 1.57998 1.58005 1.58005 1.58005
0.0581406 0.757292 1.36234 1.40377 1.40534 1.4054 1.4054 1.4054
0.0550286 0.716758 1.28942 1.32863 1.33012 1.33018 1.33018 1.33018
0.0224348 0.255638 1.15444 1.56713 1.61024 1.61357 1.61382 1.61383
0.0186414 0.212414 0.959241 1.30215 1.33797 1.34074 1.34094 1.34096
0.0122072 0.139098 0.628152 0.852702 0.876161 0.877971 0.878106 0.878117
0.011345 0.129274 0.583788 0.79248 0.814282 0.815963 0.81609 0.816099
0.00942661 0.107414 0.485071 0.658473 0.676589 0.677986 0.67809 0.678098
0.0100828 0.114891 0.518839 0.704312 0.723689 0.725183 0.725295 0.725304
0.00785721 0.0895309 0.404313 0.548846 0.563946 0.56511 0.565198 0.565204
0.00663241 0.0755746 0.341288 0.463291 0.476037 0.47702 0.477093 0.477099
0.00630446 0.0718377 0.324412 0.440383 0.452498 0.453433 0.453503 0.453508
0.00655588 0.0747025 0.33735 0.457945 0.470543 0.471515 0.471588 0.471593

Freport unweighted in .std and MCMC files

year	unweighted	Nweighted	Bweighted
1982	1.03547	1.01873	1.02567
1983	1.45592	1.43838	1.44286
1984	1.52044	1.50115	1.50738
1985	1.47433	1.45024	1.4543
1986	1.72687	1.70867	1.71504
1987	1.38278	1.36125	1.36579
1988	1.93123	1.90025	1.905
1989	1.65444	1.6311	1.63477
1990	1.31652	1.30496	1.3096
1991	1.59958	1.57309	1.578
1992	1.56328	1.53773	1.54127
1993	1.39048	1.37055	1.37561
1994	1.31606	1.29667	1.30173
1995	1.44394	1.232	1.26369
1996	1.19979	1.00534	1.029
1997	0.785672	0.679438	0.690909
1998	0.730183	0.670307	0.691404
1999	0.606711	0.555429	0.577432
2000	0.648946	0.591884	0.616171
2001	0.505702	0.473633	0.488283
2002	0.426872	0.39157	0.40506
2003	0.405764	0.378845	0.392856
2004	0.421946	0.393166	0.408061
2005	0.438537	0.421346	0.434706
2006	0.38261	0.35137	0.367

Population Numbers at the Start of the Year

52426.1	42223.2	22193.6	2871.67	613.233	278.133	86.5266	34.2466
84903.3	41104.1	19668.6	6588.25	826.569	176.303	79.9592	34.7205
37256.6	65407.5	15228.6	3867.35	1240.43	155.369	33.1375	21.5548
49384.6	28624.3	23396	2810.91	682.226	218.443	27.3591	9.63081
60263.4	38015.4	10499.2	4518.03	519.491	125.873	40.3011	6.82435
43576.3	45902.5	12152	1583.09	647.077	74.2565	17.9911	6.73564
12206.7	33673	17697.5	2566.91	320.906	130.963	15.028	5.00417
24247	9218.73	9630.18	2184.28	299.103	37.3108	15.2254	2.32889
34627.2	18524.9	3065.44	1558.85	336.568	46.0013	5.73792	2.69962
27984.9	26831.9	7404.63	690.949	337.851	72.8358	9.95448	1.82584
28638	21429.8	9192.82	1264.78	112.529	54.9232	11.8398	1.91495
31979.1	21963.2	7488.6	1627.07	213.673	18.977	9.26168	2.31946
38179.3	24703.5	8432.36	1569.94	327.266	42.9099	3.81074	2.32559
41618.3	29584.9	9876.77	1901.52	340.415	70.856	9.28987	1.3285
29738.1	33318.3	18758.1	2549.11	324.824	55.6968	11.5546	1.73112
30139.2	23897.8	22058.4	5884.88	567.563	69.7773	11.9316	2.84552
32845.5	24376.5	17025.1	9636.33	2053.78	193.483	23.7442	5.02774
25339.7	26588.2	17537.6	7774.91	3571.77	744.831	70.0513	10.4157
31743.4	20551.7	19551.6	8839.9	3295.07	1486.57	309.566	33.4401
29816.6	25728.6	15000	9527.83	3578.57	1308.31	589.364	135.972
33598.1	24220.7	19260.8	8196.77	4505.82	1666.99	608.736	337.457
23921.2	27325.9	18386.8	11209.7	4222.59	2291.79	847.044	480.752
36073.6	19462	20821.8	10883.2	5908.55	2198.89	1192.32	690.745
17877.8	29341.6	14787.2	12166	5636.57	3021.81	1123.49	962.05
33806.1	14537.7	22228.3	8526.21	6188.53	2829.87	1515.59	1045.91

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index 12 q over time
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index 15 q over time
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index 17 q over time
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index 32 q over time
1992 8.9385e-05
1993 8.9385e-05
1994 8.9385e-05
1995 8.9385e-05
1996 8.9385e-05
1997 8.9385e-05
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2002 8.9385e-05
2003 8.9385e-05
2004 8.9385e-05
2005 8.9385e-05
2006 8.9385e-05

index 33 q over time

1985 1.82731e-06
1986 1.82731e-06
1987 1.82731e-06
1988 1.82731e-06
1990 1.82731e-06
1991 1.82731e-06
1992 1.82731e-06
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2001 1.82731e-06
2002 1.82731e-06
2004 1.82731e-06
2005 1.82731e-06
2006 1.82731e-06

index 34 q over time

1982 2.87006e-05
1983 2.87006e-05
1984 2.87006e-05
1985 2.87006e-05
1986 2.87006e-05
1987 2.87006e-05
1988 2.87006e-05
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2001 2.87006e-05
2002 2.87006e-05
2003 2.87006e-05
2004 2.87006e-05
2005 2.87006e-05
2006 2.87006e-05

index 35 q over time

1982 0.000243063
1983 0.000243063
1984 0.000243063
1985 0.000243063
1986 0.000243063
1987 0.000243063
1988 0.000243063
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2001 0.000243063
2002 0.000243063
2003 0.000243063
2004 0.000243063
2005 0.000243063
2006 0.000243063
index 36 q over time
1988 3.95539e-05
1989 3.95539e-05
1990 3.95539e-05
1991 3.95539e-05
1992 3.95539e-05
1993 3.95539e-05
1994 3.95539e-05
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2001 3.95539e-05
2002 3.95539e-05
2003 3.95539e-05
2004 3.95539e-05
2005 3.95539e-05
2006 3.95539e-05
index 37 q over time
1982 8.32894e-06
1983 8.32894e-06
1984 8.32894e-06
1985 8.32894e-06
1986 8.32894e-06
1987 8.32894e-06
1988 8.32894e-06
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2002 8.32894e-06

2003 8.32894e-06
 2004 8.32894e-06
 2005 8.32894e-06
 2006 8.32894e-06
 index 38 q over time
 1986 5.4817e-06
 1987 5.4817e-06
 1988 5.4817e-06
 1989 5.4817e-06
 1990 5.4817e-06
 1991 5.4817e-06
 1992 5.4817e-06
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 2001 5.4817e-06
 2002 5.4817e-06
 2003 5.4817e-06
 2004 5.4817e-06
 2005 5.4817e-06
 2006 5.4817e-06

index 39 q over time
 1990 1.06021e-06
 1992 1.06021e-06
 1993 1.06021e-06
 1994 1.06021e-06
 1995 1.06021e-06
 1996 1.06021e-06
 1997 1.06021e-06
 1999 1.06021e-06
 2000 1.06021e-06
 2001 1.06021e-06
 2002 1.06021e-06
 2003 1.06021e-06
 2004 1.06021e-06
 2005 1.06021e-06
 2006 1.06021e-06

Proportions of catch at age by fleet

fleet 1
 Year 1 Obs = 0.146845 0.533716 0.27888 0.0256925 0.00901297 0.00318751
 0.00184106 0.000824357
 Year 1 Pred = 0.0592209 0.489379 0.383148 0.050457 0.010782 0.00489029
 0.00152136 0.000602143
 Year 2 Obs = 0.103612 0.598342 0.229546 0.0458839 0.0145793 0.00679528
 0.000336608 0.000904635
 Year 2 Pred = 0.102057 0.463542 0.310881 0.105598 0.0132553 0.00282735
 0.00128229 0.000556808
 Year 3 Obs = 0.0942382 0.521666 0.303281 0.0624068 0.0162689 0.00186435
 7.84991e-05 0.000196248
 Year 3 Pred = 0.0410321 0.666849 0.215747 0.0555328 0.0178208 0.00223216
 0.000476081 0.000309674

Year 4 Obs = 0.0558107 0.392743 0.482878 0.0474579 0.0133215 0.00676819
 0.000805737 0.000214863
 Year 4 Pred = 0.0734577 0.397929 0.454732 0.0553941 0.0134514 0.00430712
 0.000539449 0.000189894
 Year 5 Obs = 0.0563748 0.497562 0.320918 0.109789 0.00917325 0.0040641
 0.0016837 0.000435439
 Year 5 Pred = 0.102635 0.57463 0.214828 0.0935601 0.0107625 0.0026078
 0.000834946 0.000141385
 Year 6 Obs = 0.0361216 0.546812 0.344315 0.0523557 0.0172825 0.000794231
 0.000921308 0.00139785
 Year 6 Pred = 0.0644045 0.646281 0.242203 0.0320152 0.0130931 0.00150255
 0.000364043 0.000136293
 Year 7 Obs = 0.0204602 0.529056 0.374768 0.0549979 0.016574 0.00311406
 0.000488985 0.000540457
 Year 7 Pred = 0.0229019 0.538329 0.373879 0.0548102 0.00685486 0.00279753
 0.000321017 0.000106896
 Year 8 Obs = 0.063287 0.315776 0.48164 0.111543 0.0232711 0.00362582
 0.000593315 0.000263696
 Year 8 Pred = 0.0942143 0.322615 0.460312 0.105718 0.0144832 0.0018067
 0.00073726 0.000112772
 Year 9 Obs = 0.131557 0.624327 0.155018 0.0705274 0.0156649 0.00212645
 0.000567054 0.000212645
 Year 9 Pred = 0.122267 0.631862 0.149391 0.0771245 0.0166611 0.00227725
 0.00028405 0.000133642
 Year 10 Obs = 0.0470108 0.570563 0.335697 0.0348471 0.0101911 0.00150284
 0.000140891 4.69638e-05
 Year 10 Pred = 0.0737896 0.644374 0.244576 0.0231181 0.0113094 0.00243818
 0.000333227 6.11202e-05
 Year 11 Obs = 0.0686058 0.561535 0.302207 0.0564193 0.00757272 0.00351053
 0.000100301 5.01505e-05
 Year 11 Pred = 0.0794587 0.545587 0.323407 0.0450847 0.00401318 0.00195879
 0.000422258 6.8295e-05
 Year 12 Obs = 0.0682494 0.596718 0.297482 0.0300616 0.0038772 0.00239006
 0.00106225 0.000159337
 Year 12 Pred = 0.0871078 0.568989 0.274343 0.0604773 0.00794637 0.000705756
 0.000344443 8.62611e-05
 Year 13 Obs = 0.0809769 0.51226 0.345857 0.0485466 0.0101345 0.00128535
 0.00069211 0.000247182
 Year 13 Pred = 0.0907913 0.567534 0.276807 0.0523202 0.0109126 0.00143085
 0.000127071 7.75481e-05
 Year 14 Obs = 0.0383395 0.377437 0.472962 0.0802409 0.0257108 0.00498672
 0.000259051 6.47626e-05
 Year 14 Pred = 0.0562998 0.40852 0.420033 0.0940353 0.0170324 0.00354833
 0.00046525 6.65332e-05
 Year 15 Obs = 0.00868307 0.371174 0.497293 0.0956745 0.0223509 0.00380554
 0.000857587 0.000160798
 Year 15 Pred = 0.0262955 0.306257 0.562529 0.09071 0.0117171 0.00201116
 0.000417258 6.25143e-05
 Year 16 Obs = 0.00206925 0.175541 0.554973 0.217202 0.0381432 0.011036
 0.000758725 0.0002759
 Year 16 Pred = 0.020685 0.175913 0.587926 0.193638 0.019004 0.00233947
 0.000400078 9.54138e-05
 Year 17 Obs = 0.00299222 0.148481 0.42423 0.348627 0.0651639 0.00917614
 0.00126338 6.64938e-05
 Year 17 Pred = 0.0211014 0.168677 0.432836 0.304215 0.0660169 0.00622781
 0.000764353 0.00016185

Year 18 Obs = 0.0127178 0.153527 0.439854 0.282322 0.0815767 0.0251546
 0.00386453 0.000983699
 Year 18 Pred = 0.015123 0.172531 0.432152 0.241122 0.112938 0.0235858
 0.00221848 0.00032986
 Year 19 Obs = 0.00135811 0.0949441 0.49182 0.288289 0.0943885 0.0228409
 0.00456818 0.00179023
 Year 19 Pred = 0.017965 0.126056 0.450238 0.255008 0.0968687 0.0437648
 0.00911462 0.000984591
 Year 20 Obs = 0.000832829 0.218655 0.360388 0.282935 0.0978952 0.0274833
 0.00931254 0.00249849
 Year 20 Pred = 0.0167107 0.158 0.359582 0.290776 0.111479 0.0408196
 0.0183904 0.0042429
 Year 21 Obs = 0.0218685 0.0912526 0.435038 0.308651 0.104679 0.0256472
 0.0108538 0.00200997
 Year 21 Pred = 0.0166133 0.132027 0.418901 0.229068 0.128653 0.0476744
 0.0174114 0.00965223
 Year 22 Obs = 0.019559 0.119544 0.372829 0.30222 0.119242 0.0425162
 0.0175955 0.00649449
 Year 22 Pred = 0.0106871 0.1348 0.364041 0.285904 0.110063 0.0598345
 0.0221175 0.0125532
 Year 23 Obs = 0.00730276 0.0718673 0.386841 0.319956 0.130153 0.0524843
 0.020748 0.010647
 Year 23 Pred = 0.0152638 0.0908152 0.388194 0.260872 0.144712 0.0539427
 0.0292534 0.0169475
 Year 24 Obs = 0.0172803 0.13655 0.262167 0.285301 0.155593 0.0739879
 0.0359712 0.03315
 Year 24 Pred = 0.0078072 0.141127 0.282852 0.29861 0.14133 0.0758907
 0.0282189 0.0241643
 Year 25 Obs = 0.0148916 0.0835802 0.395291 0.255419 0.140028 0.067753
 0.0290036 0.014034
 Year 25 Pred = 0.0143006 0.0680254 0.420181 0.2082 0.15448 0.070758
 0.0379004 0.0261555

Proportions of Discards at age by fleet

fleet 1
 Year 1 Obs = 0 0 0 0 0 0 0 0
 Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 2 Obs = 0 0 0 0 0 0 0 0
 Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 3 Obs = 0 0 0 0 0 0 0 0
 Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 4 Obs = 0 0 0 0 0 0 0 0
 Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 5 Obs = 0 0 0 0 0 0 0 0
 Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 6 Obs = 0 0 0 0 0 0 0 0
 Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 7 Obs = 0 0 0 0 0 0 0 0
 Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 8 Obs = 0 0 0 0 0 0 0 0
 Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 9 Obs = 0 0 0 0 0 0 0 0
 Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 10 Obs = 0 0 0 0 0 0 0 0
 Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 11 Obs = 0 0 0 0 0 0 0 0
 Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15

Year 12 Obs = 0 0 0 0 0 0 0 0
Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 13 Obs = 0 0 0 0 0 0 0 0
Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 14 Obs = 0 0 0 0 0 0 0 0
Year 14 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 15 Obs = 0 0 0 0 0 0 0 0
Year 15 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 16 Obs = 0 0 0 0 0 0 0 0
Year 16 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 17 Obs = 0 0 0 0 0 0 0 0
Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 18 Obs = 0 0 0 0 0 0 0 0
Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 19 Obs = 0 0 0 0 0 0 0 0
Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 20 Obs = 0 0 0 0 0 0 0 0
Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 21 Obs = 0 0 0 0 0 0 0 0
Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 22 Obs = 0 0 0 0 0 0 0 0
Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 23 Obs = 0 0 0 0 0 0 0 0
Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 24 Obs = 0 0 0 0 0 0 0 0
Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 25 Obs = 0 0 0 0 0 0 0 0
Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15

F Reference Points Using Final Year Selectivity and Freport options

refpt	F	slope	to plot on SRR			
F0.1	0.149933	0.314057				
Fmax	0.279354	0.506019				
F30%SPR	0.233529	0.436013				
F40%SPR	0.159166	0.327017				
Fmsy	0.279356	0.506023	SSBmsy	65713	MSY	16683.6
Fcurrent	0.38261	0.666407				

Stock-Recruitment Relationship Parameters

alpha = 33252.3
beta = 0.0266636
unexpl = 269287
steepness = 1

Spawning Stock, Obs Recruits(year+1), Pred Recruits(year+1), standardized residual

Year	SSB	Obs Recruits	Pred Recruits	Standardized Residual
init	xxxx	52426.1	33252.2	0.963802
1982	23323.7	84903.3	33252.3	1.9844
1983	21896.3	37256.6	33252.3	0.240711
1984	19715.1	49384.6	33252.2	0.837283
1985	16626.9	60263.4	33252.2	1.25874
1986	15792.8	43576.3	33252.2	0.572402
1987	17258.9	12206.7	33252.2	-2.12146
1988	10160.4	24247	33252.2	-0.668587
1989	6341.52	34627.2	33252.2	0.0857779
1990	8811.5	27984.9	33252.2	-0.365078
1991	8781.53	28638	33252.2	-0.31624
1992	9619.62	31979.1	33252.2	-0.0826387

1993	10714.1	38179.3	33252.2	0.292504
1994	13549.5	41618.3	33252.2	0.47508
1995	18950.7	29738.1	33252.2	-0.236449
1996	20991.7	30139.2	33252.3	-0.208085
1997	21747.5	32845.5	33252.3	-0.0260564
1998	24144	25339.7	33252.3	-0.575281
1999	24936.4	31743.4	33252.3	-0.0983053
2000	27156.5	29816.6	33252.3	-0.230869
2001	31933.9	33598.1	33252.3	0.0219008
2002	36026	23921.2	33252.3	-0.697226
2003	39927.8	36073.6	33252.3	0.172402
2004	39008	17877.8	33252.3	-1.31369
2005	37606.1	33806.1	33252.3	0.03497
2006	38568.8	xxxx	33252.3	

Root Mean Square Error computed from Standardized Residuals

Component	#resids	RMSE
_Catch_Fleet_1	25	0.250838
Catch_Fleet_Total	25	0.250838
_Discard_Fleet_1	0	0
Discard_Fleet_Total	0	0
_Index_1	15	2.47422
_Index_2	15	1.54923
_Index_3	15	1.82645
_Index_4	15	2.29378
_Index_5	14	1.78194
_Index_6	25	1.85506
_Index_7	25	1.20796
_Index_8	24	1.8581
_Index_9	20	1.0392
_Index_10	15	1.1527
_Index_11	24	0.536144
_Index_12	24	0.960525
_Index_13	22	0.851905
_Index_14	25	1.57969
_Index_15	25	1.23703
_Index_16	24	0.959367
_Index_17	22	1.48635
_Index_18	23	1.25775
_Index_19	23	1.24994
_Index_20	22	1.42834
_Index_21	22	1.31644
_Index_22	22	0.893067
_Index_23	22	0.857093
_Index_24	22	1.5647
_Index_25	25	1.28614
_Index_26	20	1.57465
_Index_27	17	1.56556
_Index_28	17	1.45712
_Index_29	19	1.13238
_Index_30	19	1.59104
_Index_31	16	1.38172
_Index_32	15	1.46736
_Index_33	19	1.65396
_Index_34	25	1.00526
_Index_35	25	1.03288
_Index_36	19	1.08328

_Index_37	25	1.30295
_Index_38	21	1.57414
_Index_39	15	1.39922
Index_Total	802	1.39533
Nyear1	7	0.473077
Fmult_Year1	1	0.0591107
_Fmult_devs_Fleet_1	0	0
Fmult_devs_Total	0	0
Recruit_devs	0	0
Fleet_Sel_params	4	1.64315
Index_Sel_params	0	0
q_year1	0	0
q_devs	0	0
SRR_steepness	0	0
SRR_unexpl_S	0	0

Projections not requested

that's all

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
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#_size_sel:_19
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#_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
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 1.34456
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 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
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 0.534376
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 0.490761
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 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

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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)

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34 2005 8507.98 0.32 0.590558 6.94122e-005 0.6 -0.612747 0.52147 0.0106443
34 2006 9125.4 0.4 0.633414 6.94122e-005 0.6 -0.45966 0.293454 -0.217371
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35 1983 63849.3 -0.001 0.13177 2.06377e-006 0.4

35 1984 38877.9 -0.001 0.0802349 2.06377e-006 0.4
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35 1987 38266.1 0.075 0.0789723 2.06377e-006 0.6 -0.0516088 0.00369926 -
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35 1990 31629 0.032 0.0652749 2.06377e-006 0.6 -0.712872 0.705814 0.194989
35 1991 25499.1 0.036 0.0526242 2.06377e-006 0.6 -0.379658 0.200195 -0.310631
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35 1999 22476.6 0.044 0.0463865 2.06377e-006 0.6 -0.0528181 0.00387466 -
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35 2005 16112.3 0.067 0.033252 2.06377e-006 0.6 0.700579 0.681681 0.170856
35 2006 32222.4 0.098 0.0664996 2.06377e-006 0.6 0.387771 0.208843 -0.301983
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40 2005 8507.98 0.04 0.16779 1.97215e-005 0.6 -1.43383 2.85538 2.34456
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INDEX_1

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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
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6 0 1.0 0 0.00 0.0 0 0.000592793 0 0 25 14 0.510219 0.3 0.3 0 0
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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

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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
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27	0	1.0	0	0.00	0.0	0	0.000125252	0	0	25	25	0.70709	0.6	0.6	0	0
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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
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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
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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

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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/MeainputN
 1 0 0 0 0 0 0 -1.#IND

2 0 0 0 0 0 0 -1.#IND
 3 0 0 0 0 0 0 -1.#IND
 4 0 0 0 0 0 0 -1.#IND
 5 0 0 0 0 0 0 -1.#IND
 6 0 0 0 0 0 0 -1.#IND
 7 0 0 0 0 0 0 -1.#IND
 8 0 0 0 0 0 0 -1.#IND
 9 0 0 0 0 0 0 -1.#IND
 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/MeaninputN

```

```

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

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


```

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

```

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
0.17908 28.1 0.17908 0.17908 28.1 0.17908 0.17908 28.1 0.17908 0.17908 28.1

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
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0.0608841 0.0595604 0.0545545 0.0488229 0.0435891 0.0392032 0.0356611
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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
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0.0199588 0.0138637 0.0101126 0.00773995 0.00618817 0.00513918 0.0044084
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 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
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AGE_AGE_KEY

KEY: 1

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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
1983	1	1	1	0	AGE	0	1	1	1	70	4	0.0146676	0.0146021	0.00619021	128.547	136.919	0.00843766	1
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
1984	1	1	1	0	AGE	0	1	1	1	70	3	0.0624568	0.0486073	0.639952	98.739	58.403	1.54606	1
1984	1	1	1	0	AGE	0	1	1	1	70	4	0.0163559	0.0117279	0.42715	98.739	58.403	0.537154	1
1984	1	1	1	0	AGE	0	1	1	1	70	5	0.00196278	0.00266424	-0.135219	98.739	58.403	-0.0592174	1
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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ASAP ALTERNATIVE RUN (F08 MULTI.REP)

Age Structured Assessment Program (ASAP) Version 2.0
Start time for run: Fri Mar 28 14:03:48 2008

obj_fun = 15241

Component	Lambda	obj_fun
__Catch_Fleet_1	10	1877.04
__Catch_Fleet_2	10	1544.39
__Catch_Fleet_3	10	1939.13
__Catch_Fleet_4	10	739.297
__Catch_Fleet_5	10	1782.98
__Catch_Fleet_6	10	1211.04
Catch_Fleet_Total	60	9093.88
Discard_Fleet_Total	0	0
__Index_Fit_1	1	66.6243
__Index_Fit_2	1	80.0002
__Index_Fit_3	1	67.5598
__Index_Fit_4	1	51.4012
__Index_Fit_5	1	-0.0202589
__Index_Fit_6	1	153.535
__Index_Fit_7	1	239.541
__Index_Fit_8	1	200.97
__Index_Fit_9	1	196.886
__Index_Fit_10	1	-16.6202
__Index_Fit_11	1	86.1327
__Index_Fit_12	1	91.1568
__Index_Fit_13	1	52.1087
__Index_Fit_14	1	150.254
__Index_Fit_15	1	99.362
__Index_Fit_16	1	134.953
__Index_Fit_17	1	122.561
__Index_Fit_18	1	2.24523
__Index_Fit_19	1	8.671
__Index_Fit_20	1	28.7793
__Index_Fit_21	1	47.6055
__Index_Fit_22	1	16.6357
__Index_Fit_23	1	16.9894
__Index_Fit_24	1	-51.5095
__Index_Fit_25	1	135.333
__Index_Fit_26	1	103.877
__Index_Fit_27	1	4.76758
__Index_Fit_28	1	18.3802
__Index_Fit_29	1	51.2794
__Index_Fit_30	1	35.4177
__Index_Fit_31	1	2.77264
__Index_Fit_32	1	-2.8089
__Index_Fit_33	1	-8.864
__Index_Fit_34	1	22.0102
__Index_Fit_35	1	84.0859
__Index_Fit_36	1	29.798
__Index_Fit_37	1	-1.6381
__Index_Fit_38	1	10.6022
__Index_Fit_39	1	-26.1076
Index_Fit_Total	39	2304.73

Catch_Age_Comps	see_below	2969.88
Discard_Age_Comps	see_below	0
Survey_Age_Comps	see_below	0
__Sel_Param_1	1	0.936118
__Sel_Param_2	1	9.50888
__Sel_Param_3	1	1.07152
__Sel_Param_4	1	3.29308
__Sel_Param_5	0	0
__Sel_Param_6	0	0
__Sel_Param_7	0	0
__Sel_Param_8	0	0
__Sel_Param_9	1	31.9103
__Sel_Param_11	1	27.3277
__Sel_Param_12	1	36.5316
__Sel_Param_13	1	127.817
__Sel_Param_17	1	43.6811
__Sel_Param_18	1	52.9685
__Sel_Param_20	1	32.7438
__Sel_Param_21	1	127.076
__Sel_Param_25	1	5.63047
__Sel_Param_26	1	6.40689
__Sel_Param_27	1	0.964431
__Sel_Param_28	1	2.43487
__Sel_Param_29	1	0.983463
__Sel_Param_30	1	6.26073
__Sel_Param_31	1	1.87898
__Sel_Param_32	1	0.471283
__Sel_Param_33	1	0.862186
__Sel_Param_34	1	3.08129
__Sel_Param_35	1	1.69466
__Sel_Param_36	1	0.45685
Sel_Params_Total	24	525.991
Index_Sel_Params_Total	0	0
q_year1_Total	0	0
q_devs_Total	390000	0
__Fmult_year1_fleet_1	1	-0.0337486
__Fmult_year1_fleet_2	1	-0.947953
__Fmult_year1_fleet_3	1	119.098
__Fmult_year1_fleet_4	1	119.098
__Fmult_year1_fleet_5	1	-0.912333
__Fmult_year1_fleet_6	1	-2.32929
Fmult_year1_fleet_Total	6	233.973
Fmult_devs_fleet_Total	0	0
N_year_1	1	112.517
Recruit_devs	0	0
SRR_steepness	0	0
SRR_unexpl_stock	0	0
Fmult_Max_penalty	1000	0
F_penalty	0	0

Input and Estimated effective sample sizes for fleet 1

1982	31	0.147417
1983	33	0.898701
1984	43	5.6284
1985	379	28.2572
1986	39	1.61224
1987	46	1.9825

1988	663	6.13933
1989	92	0.268166
1990	2270	14.4763
1991	58	5.38301
1992	173	36.1143
1993	415	0.543977
1994	106	27.0134
1995	75	5.5447
1996	222	74.3296
1997	267	29.7625
1998	151	34.9819
1999	187	35.1401
2000	125	220.538
2001	215	64.1492
2002	61	54.2717
2003	236	190.693
2004	139	198.832
2005	368	108.406
2006	194	137.673
Total	6588	1282.79

Input and Estimated effective sample sizes for fleet 2

1982	10	0.712283
1983	10	3.03629
1984	10	6.36126
1985	10	16.0141
1986	10	3.56065
1987	10	4.11491
1988	10	4.53438
1989	10	0.274052
1990	10	1.73521
1991	10	1.26817
1992	10	1.42726
1993	10	0.346909
1994	10	1.9512
1995	10	14.0067
1996	10	492.898
1997	10	52.9347
1998	10	3.472
1999	10	57.4301
2000	10	11.5192
2001	10	98.716
2002	10	17.431
2003	10	35.0355
2004	10	121.414
2005	10	73.0833
2006	10	21.8506
Total	250	1045.13

Input and Estimated effective sample sizes for fleet 3

1982	0	0.465551
1983	0	0.0121706
1984	0	0.0209155
1985	0	0.074156
1986	0	0.0108732
1987	0	0.0129946
1988	0	0.156564
1989	10	0.0196182
1990	10	0.15668

1991	10	0.319361
1992	10	0.105662
1993	10	0.00947753
1994	10	0.187696
1995	10	0.0592449
1996	10	0.145677
1997	10	0.0946546
1998	10	0.0745172
1999	10	0.0840536
2000	10	0.0706801
2001	10	0.0532664
2002	10	0.0806595
2003	10	0.142673
2004	10	0.11657
2005	10	0.0653514
2006	10	0.134733

Total 180 2.6738

Input and Estimated effective sample sizes for fleet 4

1982	0	0.686486
1983	0	1.21655
1984	0	0.0572049
1985	0	0.030537
1986	0	0.205963
1987	0	0.0968318
1988	0	0.0207169
1989	0	0.661225
1990	0	0.0322526
1991	0	0.0945405
1992	0	0.0561221
1993	0	0.602836
1994	10	0.0372712
1995	10	0.273627
1996	10	0.0435081
1997	10	0.170818
1998	10	0.119031
1999	10	0.160654
2000	10	0.146684
2001	10	0.0809365
2002	10	0.147593
2003	10	0.176547
2004	10	0.358269
2005	10	0.525562
2006	10	0.36881

Total 130 6.37058

Input and Estimated effective sample sizes for fleet 5

1982	10	0.175635
1983	10	1.07349
1984	10	11.7974
1985	10	0.984143
1986	10	0.835117
1987	10	11.3206
1988	10	0.419009
1989	10	1.0212
1990	10	1.15092
1991	10	1.93541
1992	10	0.220628
1993	10	1.35793

1994	10	1.89303
1995	10	14.9871
1996	10	149.609
1997	10	124.659
1998	10	41.583
1999	10	12.8314
2000	10	33.1151
2001	10	81.1593
2002	10	18.3198
2003	10	26.2859
2004	10	33.2905
2005	10	25.1711
2006	10	16.5029

Total 250 611.699

Input and Estimated effective sample sizes for fleet 6

1982	10	0.489658
1983	10	104.521
1984	10	6.07525
1985	10	2.28558
1986	10	14.9846
1987	10	10.7144
1988	10	1.01669
1989	10	32.2254
1990	10	3.54807
1991	10	4.52461
1992	10	1.67619
1993	10	21.4085
1994	10	3.55157
1995	10	6.61065
1996	10	2.5926
1997	10	23.9414
1998	10	17.7821
1999	10	6.75535
2000	10	11.8739
2001	10	96.8511
2002	10	69.6861
2003	10	749.762
2004	10	72.6829
2005	10	42.7866
2006	10	1495.42

Total 250 2803.77

Input and Estimated effective Discard sample sizes for fleet 1

1982	0	1e+15
1983	0	1e+15
1984	0	1e+15
1985	0	1e+15
1986	0	1e+15
1987	0	1e+15
1988	0	1e+15
1989	0	1e+15
1990	0	1e+15
1991	0	1e+15
1992	0	1e+15
1993	0	1e+15
1994	0	1e+15
1995	0	1e+15

1996 0 1e+15
1997 0 1e+15
1998 0 1e+15
1999 0 1e+15
2000 0 1e+15
2001 0 1e+15
2002 0 1e+15
2003 0 1e+15
2004 0 1e+15
2005 0 1e+15
2006 0 1e+15

Total 0 2.5e+16

Input and Estimated effective Discard sample sizes for fleet 2

1982 0 1e+15
1983 0 1e+15
1984 0 1e+15
1985 0 1e+15
1986 0 1e+15
1987 0 1e+15
1988 0 1e+15
1989 0 1e+15
1990 0 1e+15
1991 0 1e+15
1992 0 1e+15
1993 0 1e+15
1994 0 1e+15
1995 0 1e+15
1996 0 1e+15
1997 0 1e+15
1998 0 1e+15
1999 0 1e+15
2000 0 1e+15
2001 0 1e+15
2002 0 1e+15
2003 0 1e+15
2004 0 1e+15
2005 0 1e+15
2006 0 1e+15

Total 0 2.5e+16

Input and Estimated effective Discard sample sizes for fleet 3

1982 0 1e+15
1983 0 1e+15
1984 0 1e+15
1985 0 1e+15
1986 0 1e+15
1987 0 1e+15
1988 0 1e+15
1989 0 1e+15
1990 0 1e+15
1991 0 1e+15
1992 0 1e+15
1993 0 1e+15
1994 0 1e+15
1995 0 1e+15
1996 0 1e+15
1997 0 1e+15
1998 0 1e+15

1999 0 1e+15
2000 0 1e+15
2001 0 1e+15
2002 0 1e+15
2003 0 1e+15
2004 0 1e+15
2005 0 1e+15
2006 0 1e+15

Total 0 2.5e+16

Input and Estimated effective Discard sample sizes for fleet 4

1982 0 1e+15
1983 0 1e+15
1984 0 1e+15
1985 0 1e+15
1986 0 1e+15
1987 0 1e+15
1988 0 1e+15
1989 0 1e+15
1990 0 1e+15
1991 0 1e+15
1992 0 1e+15
1993 0 1e+15
1994 0 1e+15
1995 0 1e+15
1996 0 1e+15
1997 0 1e+15
1998 0 1e+15
1999 0 1e+15
2000 0 1e+15
2001 0 1e+15
2002 0 1e+15
2003 0 1e+15
2004 0 1e+15
2005 0 1e+15
2006 0 1e+15

Total 0 2.5e+16

Input and Estimated effective Discard sample sizes for fleet 5

1982 0 1e+15
1983 0 1e+15
1984 0 1e+15
1985 0 1e+15
1986 0 1e+15
1987 0 1e+15
1988 0 1e+15
1989 0 1e+15
1990 0 1e+15
1991 0 1e+15
1992 0 1e+15
1993 0 1e+15
1994 0 1e+15
1995 0 1e+15
1996 0 1e+15
1997 0 1e+15
1998 0 1e+15
1999 0 1e+15
2000 0 1e+15
2001 0 1e+15

2002	0	1e+15
2003	0	1e+15
2004	0	1e+15
2005	0	1e+15
2006	0	1e+15
Total	0	2.5e+16

Input and Estimated effective Discard sample sizes for fleet 6

1982	0	1e+15
1983	0	1e+15
1984	0	1e+15
1985	0	1e+15
1986	0	1e+15
1987	0	1e+15
1988	0	1e+15
1989	0	1e+15
1990	0	1e+15
1991	0	1e+15
1992	0	1e+15
1993	0	1e+15
1994	0	1e+15
1995	0	1e+15
1996	0	1e+15
1997	0	1e+15
1998	0	1e+15
1999	0	1e+15
2000	0	1e+15
2001	0	1e+15
2002	0	1e+15
2003	0	1e+15
2004	0	1e+15
2005	0	1e+15
2006	0	1e+15
Total	0	2.5e+16

Observed and predicted total fleet catch by year and standardized residual
fleet 1 total catches

1982	7536	6808.31	1.018
1983	10201	8780.13	1.50368
1984	11455	11409.2	0.0401375
1985	10767	11248.1	-0.438256
1986	9500	9556.78	-0.0597368
1987	9945	9795.27	0.152079
1988	11616	8659.4	2.94471
1989	6218	6391.27	-0.275538
1990	2962	3195.09	-0.759405
1991	4629	4805.83	-0.375827
1992	6361	6431.46	-0.110439
1993	4401	4267.02	0.30994
1994	4969	4949	0.0404371
1995	4911	4946.34	-0.0718918
1996	3947	3887.15	0.153165
1997	3313	3298.67	0.0434524
1998	3730	3688.7	0.11163
1999	3551	3505.36	0.129687
2000	3564	3538.21	0.0728044
2001	3705	3681.62	0.0634488
2002	4723	4710.29	0.0270092

2003	4835	4837.98	-0.0061673
2004	6036	6030.34	0.00940711
2005	5984	5946.27	0.0634089
2006	4481	4479.84	0.00258531

fleet 2 total catches

1982	2864	2756.09	0.385008
1983	3201	3062.1	0.444739
1984	5674	5666.49	0.0132711
1985	3907	3960.58	-0.136546
1986	2687	2690.51	-0.0130697
1987	2326	2318.15	0.0339056
1988	3071	2810.69	0.887935
1989	1908	1932.72	-0.129074
1990	1237	1271.82	-0.278293
1991	1595	1613.29	-0.114287
1992	1168	1169.96	-0.0167759
1993	1313	1300.87	0.0930692
1994	1620	1618.14	0.0115446
1995	2066	2077.57	-0.0559815
1996	1913	1891.75	0.111965
1997	681	680.057	0.013885
1998	1346	1341.01	0.0372674
1999	1271	1265.3	0.0450859
2000	1521	1516.72	0.0282323
2001	1265	1262.73	0.0180238
2002	1850	1847.32	0.014526
2003	1614	1614.25	-0.0015759
2004	2193	2190.99	0.00917416
2005	1841	1837.65	0.0182392
2006	1781	1780.86	0.000765442

fleet 3 total catches

1982	0	1.40667e-05	-8.80433
1983	0	1.47689e-09	-0.00148046
1984	0	6.96215e-16	-6.97961e-10
1985	0	7.38186e-23	0
1986	0	4.60965e-16	-4.62114e-10
1987	0	4.43437e-10	-0.000444533
1988	0	2.02826e-05	-11.1075
1989	709	343.032	7.27843
1990	1214	1227.14	-0.107945
1991	1052	1038.78	0.126742
1992	690	697.592	-0.109703
1993	846	838.904	0.0844358
1994	434	433.774	0.00522764
1995	138	138.032	-0.00234467
1996	355	355.288	-0.00813577
1997	239	238.914	0.00360223
1998	254	253.854	0.00574547
1999	1181	1176.88	0.0350503
2000	592	591.107	0.0151337
2001	230	229.99	0.000455151
2002	307	306.853	0.00481126
2003	445	445.314	-0.00707772
2004	170	170.006	-0.000331974
2005	153	153.004	-0.000237102
2006	214	214.006	-0.00030281

fleet 4 total catches

1982	0	1.03116e-05	-7.10375
1983	0	5.16666e-10	-0.00051794
1984	0	3.2367e-15	-3.24477e-09
1985	0	2.22793e-19	-2.31502e-13
1986	0	4.26525e-23	0
1987	0	7.94291e-17	-7.96367e-11
1988	0	1.13948e-19	-1.24655e-13
1989	0	1.9091e-24	0
1990	0	1.06716e-20	-1.78078e-14
1991	0	9.79708e-16	-9.82156e-10
1992	0	1.2577e-11	-1.26083e-05
1993	0	1.00546e-05	-6.9761
1994	472	333.056	3.49538
1995	170	169.807	0.0113972
1996	108	108.009	-0.000879486
1997	86	86.0074	-0.0008571
1998	135	134.911	0.00664133
1999	367	366.362	0.017434
2000	134	133.944	0.00415458
2001	238	237.756	0.0102942
2002	142	142.026	-0.00184111
2003	83	82.9992	9.1354e-05
2004	74	74.0098	-0.0013227
2005	77	76.9847	0.00199767
2006	74	73.9997	3.75302e-05

fleet 5 total catches

1982	8267	7849.96	0.518921
1983	12687	11645.9	0.858355
1984	8512	8505.84	0.00726035
1985	5665	5727.57	-0.110116
1986	8102	8106.96	-0.00614051
1987	5519	5494.02	0.045485
1988	6634	6091.35	0.855509
1989	1435	1445.04	-0.0699211
1990	2329	2404.04	-0.317924
1991	3611	3704.07	-0.255098
1992	3242	3233.12	0.0274908
1993	4006	3926.26	0.201564
1994	4231	4230.83	0.00039813
1995	2459	2466.04	-0.0286794
1996	4454	4404.8	0.111347
1997	5382	5348.39	0.0627967
1998	5659	5564.69	0.168474
1999	3795	3743.22	0.137728
2000	7470	7353.87	0.157069
2001	5279	5231.99	0.0896783
2002	3632	3624.77	0.0199651
2003	5279	5284.45	-0.0103434
2004	4831	4829.44	0.00323729
2005	4724	4701.11	0.0486843
2006	4992	4990.71	0.00259726

fleet 6 total catches

1982	296	292.638	0.114522
1983	376	374.429	0.0419676
1984	415	415.391	-0.00942972
1985	92	92.0251	-0.00273715
1986	578	577.949	0.000880506

1987	522	521.61	0.00748324
1988	341	336.182	0.142656
1989	45	45.0274	-0.00609459
1990	234	235.446	-0.0617614
1991	429	429.566	-0.0132188
1992	344	344.109	-0.00317179
1993	910	903.223	0.0749427
1994	687	686.749	0.0036706
1995	752	752.206	-0.00275198
1996	681	681.467	-0.00687548
1997	556	555.933	0.00120232
1998	734	732.367	0.0223255
1999	711	709.099	0.0268445
2000	952	949.437	0.027028
2001	1274	1270.68	0.0261641
2002	777	776.799	0.00259448
2003	882	882.647	-0.00735179
2004	1034	1035.26	-0.0122511
2005	999	998.253	0.00749436
2006	795	794.89	0.00139047

Observed and predicted total fleet Discards by year and standardized residual
 fleet 1 total Discards

1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0

fleet 2 total Discards

1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0

1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0

fleet 3 total Discards

1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0

fleet 4 total Discards

1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0
1995	0	0	0

1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0

fleet 5 total Discards

1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0

fleet 6 total Discards

1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0

2001 0 0 0
2002 0 0 0
2003 0 0 0
2004 0 0 0
2005 0 0 0
2006 0 0 0

Index data

index number 1

units = 2

month = 1

starting and ending ages for selectivity = 2 2

selectivity choice = -1

year, obs index, pred index, standardized residual

1992	7.15	1.7176	4.85822
1993	6.5	5.96706	0.291415
1994	3.76	3.53126	0.213805
1995	6.07	4.17676	1.27341
1996	22.17	5.43429	4.78951
1997	3.86	3.8345	0.0225808
1998	1.68	3.68081	-2.67181
1999	2.11	4.5485	-2.61653
2000	0.7	3.40354	-5.38728
2001	3.07	4.10199	-0.987175
2002	2.77	3.74054	-1.02324
2003	8.17	3.99914	2.43354
2004	1.45	2.37909	-1.68672
2005	2.96	3.76141	-0.816199
2006	2.64	1.79904	1.30647

index number 2

units = 2

month = 1

starting and ending ages for selectivity = 3 3

selectivity choice = -1

year, obs index, pred index, standardized residual

1992	4.74	2.38615	2.33804
1993	6.7	0.521387	8.69794
1994	7.2	7.41539	-0.100412
1995	4.59	4.58809	0.00142151
1996	8.33	9.25007	-0.356887
1997	4.8	11.9637	-3.11099
1998	3.25	8.86642	-3.41877
1999	4.8	8.50088	-1.94697
2000	6.52	9.73104	-1.3641
2001	5.33	7.56103	-1.19109
2002	10.74	9.72665	0.3376
2003	14.36	9.10086	1.55361
2004	8.68	9.5817	-0.336673
2005	4.03	5.6944	-1.17767
2006	9.06	8.86279	0.0749661

index number 3

units = 2

month = 1

starting and ending ages for selectivity = 4 4

selectivity choice = -1

year, obs index, pred index, standardized residual

1992	0.33	0.589386	-1.9757
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1993  0.31  0.221784  1.14071
1994  0.82  0.162039  5.52345
1995  0.25  2.22421  -7.44548
1996  0.6   0.96853  -1.63118
1997  1.04  2.27324  -2.66379
1998  2.29  4.17855  -2.04869
1999  2.9   3.11713  -0.245953
2000  4.96  3.33931  1.34773
2001  6.42  3.60312  1.96763
2002  5.58  3.08997  2.01331
2003  8.48  4.32702  2.29197
2004  4.56  4.07383  0.38404
2005  3.07  4.04302  -0.937842
2006  4.29  2.19686  2.27979
index number 4
units = 2
month = 1
starting and ending ages for selectivity = 5 5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1992  0.04  0.314245  -7.0217
1993  0.05  0.0582018  -0.517419
1994  0.26  0.0727777  4.33734
1995  0.02  0.0540931  -3.38933
1996  0.12  0.325862  -3.40299
1997  0.43  0.172074  3.11984
1998  0.42  0.696821  -1.7246
1999  0.84  1.29958  -1.48656
2000  2.51  1.17806  2.5767
2001  2.44  1.13166  2.61723
2002  2.26  1.42667  1.56704
2003  2.67  1.29098  2.47539
2004  1.64  1.83843  -0.389071
2005  1.34  1.60086  -0.605915
2006  2.47  1.43747  1.84404
index number 5
units = 2
month = 1
starting and ending ages for selectivity = 6 8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1992  0.04  0.0364937  0.312509
1993  0.04  0.0528952  -0.951876
1994  0.01  0.0514255  -5.57823
1996  0.03  0.0221543  1.03273
1997  0.15  0.090818  1.70928
1998  0.12  0.113978  0.175374
1999  0.41  0.372351  0.328108
2000  1.08  0.922711  0.536175
2001  1.34  0.995307  1.01299
2002  1.33  1.18012  0.407287
2003  1.96  1.51704  0.872671
2004  1.44  1.63542  -0.433492
2005  1.49  1.90465  -0.836351
2006  2.6   1.71731  1.41283
index number 6
units = 2

```

```

month = 1
starting and ending ages for selectivity = 2 2
selectivity choice = -1
year, obs index, pred index, standardized residual
1982 0.7 0.00284095 14.2943
1983 0.32 1.2295 -3.49392
1984 0.17 1.23459 -5.14648
1985 0.55 0.348088 1.18744
1986 1.48 0.721365 1.8654
1987 0.47 0.955739 -1.8423
1988 0.6 0.136305 3.84692
1989 0.06 0.574106 -5.8623
1990 0.63 0.323374 1.7311
1991 0.79 0.407191 1.7203
1992 0.77 0.210314 3.36866
1993 0.73 0.730644 -0.00228805
1994 0.35 0.432389 -0.548711
1995 0.79 0.511428 1.12868
1996 1.08 0.665408 1.25714
1997 0.29 0.46952 -1.25068
1998 0.27 0.450701 -1.32999
1999 0.22 0.556946 -2.41099
2000 0.19 0.416751 -2.03883
2001 0.48 0.502273 -0.117737
2002 0.34 0.458014 -0.773401
2003 0.54 0.489679 0.253907
2004 0.3 0.29131 0.0762957
2005 0.26 0.46057 -1.48418
2006 0.04 0.220285 -4.42837

```

index number 7

units = 2

month = 1

starting and ending ages for selectivity = 3 3

selectivity choice = -1

```

year, obs index, pred index, standardized residual
1982 1.43 0.00572953 14.3277
1983 0.39 0.00376573 12.0446
1984 0.33 1.64693 -4.17278
1985 1.56 1.5154 0.0752948
1986 0.43 0.318085 0.782516
1987 0.43 0.754771 -1.46041
1988 0.81 1.25758 -1.14186
1989 0.23 0.066575 3.21801
1990 0.03 0.693247 -8.15098
1991 0.27 0.449443 -1.32273
1992 0.41 0.376445 0.221634
1993 0.5 0.0822553 4.68466
1994 0.53 1.16987 -2.0552
1995 0.27 0.723827 -2.5597
1996 0.56 1.45931 -2.48612
1997 0.67 1.88743 -2.68834
1998 0.52 1.39879 -2.56852
1999 0.74 1.34112 -1.54343
2000 1.03 1.53519 -1.03593
2001 0.89 1.19285 -0.760219
2002 0.89 1.5345 -1.41397
2003 1.29 1.43577 -0.277899

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2004  1.45  1.51163  -0.108051
2005  0.65  0.898363  -0.839972
2006  1.04  1.39822  -0.768264
index number 8
units = 2
month = 1
starting and ending ages for selectivity = 4  4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.12  0.0147666  5.4383
1983  0.19  0.00152039  12.5322
1984  0.09  0.0010045  11.6685
1985  0.21  0.402015  -1.6856
1986  0.2  0.267596  -0.755766
1987  0.02  0.0654596  -3.07772
1988  0.07  0.197092  -2.68701
1989  0.02  0.116296  -4.56948
1990  0.06  0.0163915  3.36813
1992  0.01  0.104575  -6.09292
1993  0.04  0.0393511  0.0424538
1994  0.04  0.0287506  0.857157
1995  0.02  0.394642  -7.741
1996  0.12  0.171846  -0.932131
1997  0.09  0.40334  -3.89346
1998  0.32  0.7414  -2.18095
1999  0.48  0.553072  -0.367813
2000  0.63  0.592493  0.159324
2001  1.02  0.6393  1.21267
2002  0.74  0.548252  0.77849
2003  0.59  0.767742  -0.683527
2004  0.85  0.722819  0.420705
2005  0.58  0.717351  -0.551682
2006  0.24  0.389789  -1.25883
index number 9
units = 2
month = 1
starting and ending ages for selectivity = 5  5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.02  0.81385  -9.61976
1983  0.03  0.00427795  5.0557
1984  0.05  0.000438595  12.2937
1985  0.04  0.000265065  13.0217
1986  0.02  0.0764775  -3.48152
1987  0.01  0.0599833  -4.65014
1988  0.02  0.0185425  0.196414
1989  0.01  0.0199184  -1.78859
1991  0.02  0.00657355  2.88817
1994  0.01  0.0151058  -1.0707
1997  0.01  0.0357157  -3.30433
1998  0.06  0.144632  -2.28382
1999  0.13  0.269742  -1.89468
2000  0.12  0.244518  -1.84761
2001  0.2  0.234887  -0.417352
2002  0.31  0.296121  0.118896
2003  0.29  0.267956  0.20521
2004  0.27  0.381585  -0.897883

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2005  0.15  0.332275  -2.06443
2006  0.25  0.298361  -0.459031
index number 10
units = 2
month = 1
starting and ending ages for selectivity = 6  8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1983  0.02  0.172594  -5.59427
1984  0.02  0.0538135  -2.5692
1985  0.02  0.0151936  0.713452
1986  0.01  0.00309704  3.04251
1992  0.01  0.00420913  2.24613
1995  0.01  0.0068009  1.00072
1998  0.02  0.0131461  1.08917
1999  0.03  0.0429465  -0.931226
2000  0.17  0.106424  1.21573
2001  0.1  0.114797  -0.358202
2002  0.19  0.136113  0.865757
2003  0.2  0.174974  0.346997
2004  0.16  0.188627  -0.427247
2005  0.17  0.219679  -0.665459
2006  0.2  0.198072  0.0251384
index number 11
units = 2
month = 1
starting and ending ages for selectivity = 3  3
selectivity choice = -1
  year, obs index, pred index, standardized residual
1983  1.52  0.00558967  10.109
1984  1.46  2.44463  -0.929565
1985  1.39  2.24938  -0.868062
1986  0.8  0.47215  0.950953
1987  0.83  1.12034  -0.540953
1988  0.58  1.86668  -2.10796
1989  0.62  0.0988206  3.31176
1990  0.21  1.02902  -2.86604
1991  0.38  0.667131  -1.01497
1992  0.84  0.558776  0.735154
1993  1.04  0.122096  3.86316
1994  0.8  1.7365  -1.39765
1995  0.67  1.07441  -0.851653
1996  1.16  2.16613  -1.12626
1997  1.24  2.80161  -1.4699
1998  1.29  2.07629  -0.858304
1999  2.13  1.99069  0.12198
2000  1.73  2.27876  -0.496853
2001  1.2  1.7706  -0.701514
2002  1.36  2.27773  -0.929999
2003  1.17  2.13119  -1.08145
2004  1.31  2.24379  -0.970474
2005  1.49  1.33349  0.200139
2006  1.14  2.07544  -1.08049
index number 12
units = 2
month = 1
starting and ending ages for selectivity = 4  4

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```

selectivity choice = -1
  year, obs index, pred index, standardized residual
1983 0.4 0.0032314 8.68969
1984 0.34 0.00213494 9.14407
1985 0.43 0.854435 -1.2383
1986 0.46 0.568744 -0.382685
1987 0.11 0.139127 -0.423624
1988 0.2 0.418897 -1.33325
1989 0.18 0.247174 -0.571916
1990 0.05 0.0348382 0.651579
1991 0.03 0.543435 -5.22389
1992 0.09 0.222261 -1.63034
1993 0.25 0.0836361 1.97468
1994 0.03 0.0611059 -1.28295
1995 0.09 0.838764 -4.02537
1996 0.28 0.365238 -0.479268
1997 0.57 0.857251 -0.735952
1998 1.14 1.57576 -0.58377
1999 1.63 1.17549 0.58952
2000 1.49 1.25928 0.303401
2001 1.22 1.35876 -0.19426
2002 0.93 1.16524 -0.406666
2003 0.86 1.63174 -1.15502
2004 1.03 1.53627 -0.720985
2005 1.37 1.52465 -0.192874
2006 0.54 0.828451 -0.771827
index number 13
units = 2
month = 1
starting and ending ages for selectivity = 5 5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1983 0.03 0.0097682 2.02351
1984 0.12 0.00100148 8.63102
1985 0.07 0.000605246 8.56719
1986 0.05 0.174627 -2.25537
1987 0.11 0.136965 -0.395381
1988 0.03 0.0423395 -0.621308
1989 0.03 0.0454813 -0.750396
1991 0.04 0.0150099 1.76762
1993 0.03 0.0275841 0.151405
1994 0.01 0.0344922 -2.23286
1995 0.01 0.0256368 -1.69779
1996 0.02 0.154439 -3.68624
1997 0.04 0.0815525 -1.28467
1998 0.29 0.330251 -0.23439
1999 0.33 0.615923 -1.12537
2000 0.31 0.558327 -1.06106
2001 0.4 0.536336 -0.528927
2002 0.37 0.676157 -1.0873
2003 0.35 0.611846 -1.00728
2004 0.25 0.871305 -2.25158
2005 0.66 0.758712 -0.25136
2006 0.47 0.681272 -0.669469
index number 14
units = 2
month = 1

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starting and ending ages for selectivity = 3 3
selectivity choice = -1
year, obs index, pred index, standardized residual
1982 1.584 0.00621432 9.99228
1983 0.599 0.00408436 8.99545
1984 0.078 1.78628 -5.64673
1985 1.26 1.64362 -0.47932
1986 0.522 0.344999 0.746829
1987 0.64 0.818633 -0.443936
1988 1.005 1.36398 -0.55079
1989 0.363 0.072208 2.9122
1990 0.021 0.751904 -6.45266
1991 0.05 0.487472 -4.10668
1992 0.342 0.408297 -0.31953
1993 0.492 0.0892151 3.07915
1994 1.217 1.26886 -0.0752493
1995 1.302 0.785072 0.912299
1996 0.686 1.58279 -1.50775
1997 1.279 2.04713 -0.848239
1998 1.212 1.51714 -0.404961
1999 0.878 1.45459 -0.910413
2000 1.659 1.66509 -0.00660555
2001 1.026 1.29378 -0.4182
2002 1.511 1.66434 -0.174306
2003 1.44 1.55726 -0.141174
2004 0.283 1.63954 -3.16804
2005 0.351 0.974375 -1.84127
2006 2.44 1.51652 0.857651
index number 15
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
year, obs index, pred index, standardized residual
1982 0.142 0.0178219 3.74274
1983 0.45 0.00183496 9.92262
1984 0.067 0.00121233 7.23544
1985 0.036 0.485194 -4.69065
1986 0.185 0.322963 -1.00481
1987 0.013 0.0790035 -3.25428
1988 0.123 0.237872 -1.18942
1989 0.102 0.140358 -0.575688
1990 0.081 0.019783 2.5421
1991 0.012 0.308591 -5.85579
1992 0.09 0.126212 -0.609814
1993 0.065 0.047493 0.56591
1994 0.048 0.0346992 0.585171
1995 0.053 0.476295 -3.95977
1996 0.114 0.207402 -1.07925
1997 0.181 0.486793 -1.78416
1998 0.659 0.894799 -0.551611
1999 1.112 0.667505 0.920392
2000 1.205 0.715083 0.941071
2001 0.73 0.771575 -0.0998872
2002 0.397 0.661688 -0.921272
2003 0.624 0.926591 -0.71299
2004 0.323 0.872373 -1.79178

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2005  1.029  0.865775  0.311477
2006  0.975  0.470438  1.31426
index number 16
units = 2
month = 1
starting and ending ages for selectivity = 4  4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.405  0.0741221  3.06246
1983  1.662  0.00763169  9.70846
1984  0.625  0.00504215  8.69216
1985  0.267  2.01794  -3.6475
1986  1.895  1.34322  0.620636
1987  0.679  0.328579  1.30897
1988  0.663  0.98932  -0.721791
1989  0.429  0.583757  -0.555494
1990  0.317  0.0822783  2.43239
1992  0.288  0.52492  -1.08254
1993  0.186  0.197526  -0.108424
1994  0.478  0.144316  2.15975
1995  0.076  1.98093  -5.8801
1996  0.506  0.862593  -0.961937
1997  1.282  2.02459  -0.824053
1998  1.508  3.72151  -1.62908
1999  0.59  2.77618  -2.79292
2000  0.94  2.97406  -2.07715
2001  2.303  3.20902  -0.598275
2002  1.083  2.75199  -1.68182
2003  1.302  3.85374  -1.95693
2004  1.254  3.62824  -1.91593
2005  1.455  3.6008  -1.63414
2006  2.049  1.95657  0.0832379
index number 17
units = 2
month = 1
starting and ending ages for selectivity = 5  5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.012  1.25126  -8.38033
1983  0.02  0.00657719  2.00559
1984  0.154  0.000674324  9.79417
1985  0.127  0.000407528  10.3547
1986  0.04  0.117581  -1.9445
1987  0.214  0.0922221  1.51805
1988  0.011  0.0285083  -1.71737
1989  0.006  0.0306238  -2.93955
1990  0.016  0.0474074  -1.95882
1991  0.011  0.0101066  0.152759
1992  0.006  0.100281  -5.07872
1994  0.03  0.0232246  0.461643
1997  0.114  0.0549115  1.31733
1998  0.351  0.222367  0.823168
1999  0.262  0.414718  -0.828211
2000  0.379  0.375937  0.0146346
2001  0.494  0.36113  0.564997
2002  0.307  0.455275  -0.710629
2003  0.178  0.411973  -1.51335

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2004 0.256 0.586673 -1.49553
2005 0.136 0.510861 -2.38668
2006 1.35 0.458719 1.94661
index number 18
units = 2
month = 1
starting and ending ages for selectivity = 3 3
selectivity choice = -1
year, obs index, pred index, standardized residual
1984 0.271 0.497999 -1.09732
1985 0.325 0.458225 -0.619526
1986 0.1 0.0961823 0.0701957
1987 0.086 0.228227 -1.76009
1988 0.223 0.380265 -0.962459
1989 0.049 0.0201309 1.60423
1990 0.022 0.209624 -4.06532
1991 0.189 0.135902 0.594775
1992 0.188 0.113829 0.904835
1993 0.151 0.0248723 3.25245
1994 0.314 0.353745 -0.214932
1995 0.051 0.21887 -2.62691
1996 0.266 0.441266 -0.912787
1997 0.507 0.57072 -0.213497
1998 0.594 0.422964 0.612413
1999 0.593 0.405527 0.685299
2000 0.726 0.46421 0.806495
2001 0.34 0.360692 -0.106543
2002 1.264 0.464001 1.80726
2003 1.016 0.434148 1.53331
2004 0.818 0.457087 1.04955
2005 0.264 0.271646 -0.0514908
2006 0.36 0.422792 -0.28994
index number 19
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
year, obs index, pred index, standardized residual
1984 0.044 0.000395303 8.49807
1985 0.04 0.158206 -2.47969
1986 0.082 0.105308 -0.451149
1987 0.014 0.0257605 -1.09968
1988 0.035 0.0775623 -1.43501
1989 0.024 0.0457663 -1.16408
1990 0.013 0.00645059 1.26377
1991 0.029 0.100622 -2.24354
1992 0.021 0.0411535 -1.21329
1993 0.015 0.0154859 -0.0574964
1994 0.025 0.0113143 1.42974
1995 0.02 0.155304 -3.69631
1996 0.086 0.067627 0.433426
1997 0.057 0.158727 -1.84691
1998 0.503 0.291765 0.982198
1999 0.385 0.217652 1.02856
2000 0.524 0.233165 1.46028
2001 0.365 0.251586 0.671065
2002 0.465 0.215755 1.38481

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2003  0.395  0.302131  0.48335
2004  0.41  0.284453  0.6593
2005  0.15  0.282301  -1.14035
2006  0.068  0.153395  -1.46706
index number 20
units = 2
month = 1
starting and ending ages for selectivity = 5 5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1985  0.058  0.00015053  10.7374
1986  0.008  0.0434313  -3.05086
1987  0.004  0.0340643  -3.86277
1988  0.009  0.0105302  -0.283173
1989  0.016  0.0113116  0.625342
1990  0.006  0.017511  -1.93155
1991  0.028  0.0037331  3.63376
1992  0.004  0.037041  -4.01385
1993  0.018  0.00686041  1.73955
1994  0.018  0.00857852  1.33651
1995  0.005  0.0063761  -0.438437
1996  0.023  0.0384103  -0.924831
1997  0.036  0.0202828  1.03468
1998  0.116  0.0821363  0.622547
1999  0.139  0.153185  -0.175244
2000  0.074  0.138861  -1.13506
2001  0.12  0.133391  -0.190791
2002  0.233  0.168166  0.58806
2003  0.232  0.152171  0.760541
2004  0.194  0.216701  -0.199563
2005  0.033  0.188698  -3.14445
2006  0.065  0.169438  -1.72782
index number 21
units = 2
month = 1
starting and ending ages for selectivity = 3 3
selectivity choice = -1
  year, obs index, pred index, standardized residual
1985  0.571  1.18195  -1.31202
1986  0.339  0.248094  0.563001
1987  1.17  0.588693  1.23866
1988  1.067  0.980861  0.1518
1989  0.884  0.051926  5.11194
1990  0.029  0.540707  -5.27595
1991  0.674  0.350549  1.17893
1992  0.826  0.293613  1.8653
1993  0.57  0.064156  3.93916
1994  0.827  0.912455  -0.177334
1995  0.3  0.564558  -1.14021
1996  0.384  1.13821  -1.9595
1997  0.887  1.47212  -0.913624
1998  0.681  1.091  -0.849915
1999  0.269  1.04602  -2.44907
2000  0.679  1.19739  -1.02302
2001  0.395  0.930376  -1.54496
2002  2.689  1.19685  1.45979
2003  3.087  1.11985  1.82864

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```

2004  1.459  1.17902  0.384248
2005  0.385  0.700689  -1.0799
2006  1.093  1.09056  0.0040374
index number 22
units = 2
month = 1
starting and ending ages for selectivity = 4  4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1985  0.331  0.764198  -1.50891
1986  0.528  0.508679  0.0672297
1987  0.298  0.124434  1.57493
1988  0.223  0.374657  -0.935666
1989  0.481  0.22107  1.40193
1990  0.095  0.0311589  2.01037
1991  0.11  0.486043  -2.6795
1992  0.34  0.198788  0.967889
1993  0.366  0.0748033  2.86336
1994  0.152  0.0546525  1.84466
1995  0.085  0.750182  -3.92717
1996  0.117  0.326665  -1.85165
1997  1.188  0.766717  0.789718
1998  1.373  1.40934  -0.0471127
1999  1.054  1.05134  0.00454875
2000  1.484  1.12628  0.497407
2001  0.871  1.21526  -0.600654
2002  1.137  1.04218  0.157032
2003  1.93  1.45942  0.504017
2004  1.319  1.37402  -0.0736991
2005  0.755  1.36363  -1.06614
2006  0.744  0.740958  0.00738932
index number 23
units = 2
month = 1
starting and ending ages for selectivity = 5  5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1985  0.072  0.000463814  9.09796
1986  0.075  0.133821  -1.04419
1987  0.072  0.104959  -0.67971
1988  0.033  0.0324458  0.0305435
1989  0.037  0.0348534  0.107781
1990  0.015  0.0539551  -2.30852
1991  0.042  0.0115025  2.33558
1992  0.036  0.114131  -2.0808
1993  0.046  0.0211384  1.40222
1994  0.039  0.0264322  0.701476
1995  0.024  0.0196461  0.36099
1996  0.012  0.11835  -4.12748
1997  0.042  0.0624957  -0.716714
1998  0.373  0.253079  0.699489
1999  0.321  0.471997  -0.695261
2000  0.346  0.42786  -0.38296
2001  0.341  0.411007  -0.336744
2002  0.436  0.518155  -0.311323
2003  0.479  0.468872  0.038538
2004  0.407  0.667702  -0.892727

```

```

2005  0.44  0.581419  -0.502598
2006  0.355  0.522075  -0.695554
index number 24
units = 2
month = 1
starting and ending ages for selectivity = 6  8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1985  0.025  0.0172014  0.67426
1986  0.009  0.00350631  1.69998
1987  0.007  0.0150196  -1.37679
1988  0.003  0.0185429  -3.28482
1989  0.003  0.00357342  -0.31543
1990  0.001  0.00532877  -3.01728
1991  0.012  0.012465  -0.0685657
1992  0.022  0.00476537  2.75858
1993  0.025  0.00690708  2.31974
1994  0.007  0.00671517  0.074915
1995  0.009  0.00769963  0.281422
1996  0.005  0.00289292  0.986763
1997  0.005  0.0118591  -1.5575
1998  0.04  0.0148834  1.78289
1999  0.075  0.0486218  0.781614
2000  0.127  0.120488  0.094922
2001  0.191  0.129968  0.69428
2002  0.134  0.154101  -0.252052
2003  0.183  0.198096  -0.142949
2004  0.203  0.213554  -0.091402
2005  0.119  0.24871  -1.32939
2006  0.151  0.224247  -0.713185
index number 25
units = 2
month = 1
starting and ending ages for selectivity = 4  4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  1.74  0.0469391  6.51525
1983  0.52  0.0048329  8.43692
1984  0.42  0.00319303  8.79922
1985  0.49  1.2779  -1.72866
1986  0.28  0.850616  -2.00387
1987  0.51  0.208079  1.61673
1988  0.37  0.626504  -0.949755
1989  0.24  0.369674  -0.779032
1990  0.07  0.0521041  0.532451
1991  0.12  0.812764  -3.44978
1992  0.08  0.332414  -2.56866
1993  0.41  0.125087  2.14089
1994  0.22  0.0913903  1.58425
1995  0.03  1.25446  -6.73251
1996  0.2  0.546252  -1.81197
1997  1.03  1.28211  -0.394846
1998  0.96  2.35671  -1.6196
1999  0.36  1.75807  -2.85992
2000  1.91  1.88338  0.0253137
2001  1.24  2.03216  -0.890853
2002  0.63  1.74274  -1.83494

```

```

2003  1.38  2.44044  -1.0281
2004  2.08  2.29765  -0.179467
2005  1.3   2.28027  -1.01337
2006  1.38  1.23903  0.194317
index number 26
units = 2
month = 1
starting and ending ages for selectivity = 5  5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.2  1.61003  -3.76131
1983  0.07  0.00846304  3.81017
1984  0.11  0.000867669  8.73275
1985  0.1  0.000524377  9.46906
1986  0.02  0.151295  -3.64915
1987  0.13  0.118665  0.16453
1988  0.02  0.0366824  -1.09387
1992  0.01  0.129034  -4.61213
1993  0.11  0.0238985  2.75316
1994  0.07  0.0298836  1.53501
1997  0.01  0.070656  -3.52605
1998  0.03  0.286125  -4.06705
1999  0.09  0.533628  -3.20982
2000  0.35  0.483727  -0.583554
2001  0.45  0.464675  -0.0578707
2002  0.3  0.585813  -1.20686
2003  0.4  0.530095  -0.50782
2004  0.49  0.754887  -0.779356
2005  0.78  0.657338  0.308551
2006  0.69  0.590245  0.281605
index number 27
units = 2
month = 1
starting and ending ages for selectivity = 2  2
selectivity choice = -1
  year, obs index, pred index, standardized residual
1990  0.17  0.192384  -0.223068
1991  0.07  0.242248  -2.23884
1992  0.15  0.125121  0.327044
1993  0.11  0.434679  -2.47808
1994  0.08  0.25724  -2.10632
1995  0.2  0.304262  -0.75665
1996  0.41  0.395869  0.0632528
1997  0.17  0.27933  -0.89555
1998  0.07  0.268134  -2.42193
1999  0.26  0.331342  -0.437266
2000  0.63  0.247936  1.68174
2001  0.42  0.298816  0.613921
2002  0.81  0.272485  1.9647
2003  1.48  0.291323  2.93116
2004  0.54  0.173308  2.04954
2005  0.55  0.274005  1.25655
2006  0.19  0.131054  0.669808
index number 28
units = 2
month = 1
starting and ending ages for selectivity = 3  8

```

```

selectivity choice = -1
  year, obs index, pred index, standardized residual
1990 0.1 0.330508 -2.15587
1991 0.08 0.214274 -1.77674
1992 0.18 0.179471 0.00530416
1993 0.14 0.0392155 2.29493
1994 0.05 0.55774 -4.34953
1995 0.22 0.345087 -0.811828
1996 0.53 0.695733 -0.49068
1997 0.52 0.899838 -0.98895
1998 0.36 0.666876 -1.11179
1999 0.61 0.639383 -0.0848404
2000 1.89 0.731908 1.71083
2001 0.55 0.568694 -0.0602757
2002 1.11 0.731577 0.751853
2003 2.25 0.68451 2.146
2004 1.53 0.720676 1.35765
2005 1.89 0.428298 2.67715
2006 1.09 0.666604 0.886791
index number 29
units = 2
month = 1
starting and ending ages for selectivity = 2 2
selectivity choice = -1
  year, obs index, pred index, standardized residual
1988 3.06 1.24591 1.62042
1989 0.51 5.2477 -4.20393
1990 1.44 2.95585 -1.29689
1991 2.69 3.72199 -0.585589
1992 3 1.92241 0.802566
1993 5.69 6.67856 -0.288889
1994 1.07 3.95232 -2.35638
1995 2.93 4.67479 -0.842508
1996 5.1 6.08226 -0.317641
1997 8.25 4.29172 1.17856
1998 5.8 4.1197 0.616896
1999 6.12 5.09085 0.332033
2000 3.91 3.80938 0.0470178
2001 3.32 4.59111 -0.584579
2002 9.11 4.18655 1.40212
2003 5.61 4.47599 0.407246
2004 6.27 2.66277 1.54444
2005 5.99 4.20991 0.635963
2006 5.74 2.01355 1.88915
index number 30
units = 2
month = 1
starting and ending ages for selectivity = 3 3
selectivity choice = -1
  year, obs index, pred index, standardized residual
1988 1.03 1.4517 -0.618874
1989 0.18 0.0768516 1.53483
1990 0.11 0.800258 -3.57873
1991 0.27 0.51882 -1.17785
1992 0.57 0.434553 0.489289
1993 0.2 0.0949523 1.34342
1994 0.08 1.35045 -5.09667

```



```

1995  0.28  0.835558  -1.97166
1996  2.7   1.68458  0.850725
1997  5.25  2.17877  1.58601
1998  2.67  1.61471  0.906968
1999  3.46  1.54814  1.45031
2000  1.82  1.77217  0.0480312
2001  1.18  1.37698  -0.278398
2002  4.13  1.77137  1.52661
2003  2.55  1.6574  0.776975
2004  2.49  1.74497  0.641184
2005  1.24  1.03704  0.322346
2006  3.22  1.61405  1.24548
index number 31
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1990  0.03  0.0110983  1.7933
1991  0.02  0.17312  -3.89216
1992  0.06  0.0708049  -0.298611
1993  0.01  0.0266437  -1.76726
1995  0.05  0.267202  -3.02244
1996  0.18  0.116353  0.786872
1997  1.02  0.273092  2.37641
1998  0.29  0.501984  -0.989493
1999  0.65  0.374471  0.994489
2000  0.45  0.401163  0.207172
2001  0.41  0.432855  -0.0978247
2002  1.28  0.371208  2.23232
2003  0.57  0.519819  0.166191
2004  0.57  0.489403  0.274926
2005  0.53  0.485701  0.157406
2006  0.48  0.263917  1.0787
index number 32
units = 2
month = 1
starting and ending ages for selectivity = 5 8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1992  0.02  0.0778932  -2.45189
1993  0.01  0.0144267  -0.660934
1994  0.02  0.0180397  0.186033
1995  0.16  0.0134083  4.47114
1996  0.05  0.0807727  -0.864931
1997  0.18  0.0426526  2.59664
1998  0.04  0.172724  -2.63802
1999  0.18  0.322132  -1.04958
2000  0.22  0.292009  -0.510643
2001  0.15  0.280508  -1.12886
2002  0.81  0.353635  1.49459
2003  0.51  0.32  0.840538
2004  0.43  0.455699  -0.104681
2005  0.32  0.396812  -0.387983
2006  0.4  0.35631  0.208584
index number 33
units = 2

```

```

month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
year, obs index, pred index, standardized residual
1985 0.24 0.105105 1.48902
1986 0.172 0.146459 0.289887
1987 0.075 0.0205409 2.33551
1988 0.015 0.0938963 -3.30766
1990 0.032 0.0547498 -0.968484
1991 0.036 0.0338879 0.109033
1992 0.013 0.105233 -3.77128
1993 0.084 0.0607116 0.585527
1994 0.132 0.069827 1.14836
1995 0.023 0.0768581 -2.17572
1996 0.069 0.0542471 0.433816
1997 0.033 0.0519164 -0.817161
1999 0.044 0.0479008 -0.153185
2000 0.012 0.0579012 -2.83822
2001 0.021 0.0527185 -1.65991
2002 0.442 0.0561757 3.72007
2004 0.255 0.052937 2.83521
2005 0.067 0.025363 1.75181
2006 0.098 0.0564932 0.993388
index number 34

```

```

units = 2
month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
year, obs index, pred index, standardized residual
1982 2.27 2.80526 -0.381808
1983 5.01 2.99392 0.928475
1984 1.58 0.838443 1.14269
1985 1.26 1.62622 -0.460128
1986 1.26 2.26607 -1.05847
1987 0.39 0.317815 0.369112
1988 0.54 1.45279 -1.78476
1989 1.24 0.649391 1.16649
1990 2.54 0.847106 1.98028
1991 2.64 0.524325 2.91503
1992 0.89 1.62819 -1.08925
1993 0.5 0.939349 -1.13718
1994 2.41 1.08039 1.44687
1995 0.63 1.18917 -1.14568
1996 0.81 0.839329 -0.0641447
1997 0.89 0.803267 0.184908
1998 0.73 0.992804 -0.55452
1999 0.53 0.741137 -0.604691
2000 0.57 0.895866 -0.815408
2001 0.47 0.815677 -0.994181
2002 0.77 0.869169 -0.218475
2003 0.44 0.517397 -0.292214
2004 1.3 0.819058 0.8331
2005 0.35 0.392425 -0.206327
2006 0.8 0.874082 -0.159712
index number 35
units = 2
month = 1

```

```

starting and ending ages for selectivity = 1 1
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  3.408  23.7576  -3.50177
1983  17.699  25.3553  -0.648281
1984  13.31  7.10071  1.1331
1985  12.843  13.7723  -0.125991
1986  59.526  19.1912  2.04136
1987  7.584  2.69155  1.86817
1988  1.763  12.3036  -3.50375
1989  2.855  5.49965  -1.18232
1990  4.733  7.17408  -0.750056
1991  7.337  4.44047  0.905604
1992  8.487  13.7891  -0.875254
1993  4.145  7.95528  -1.17569
1994  22.311  9.14972  1.60746
1995  13.067  10.071  0.469651
1996  6.493  7.10822  -0.163256
1997  7.997  6.80281  0.291662
1998  14.983  8.40798  1.04188
1999  8.565  6.27664  0.560581
2000  9.874  7.58702  0.47513
2001  13.543  6.90791  1.21404
2002  5.406  7.36093  -0.556663
2003  8.18  4.3818  1.12573
2004  6.993  6.93654  0.0146185
2005  2.198  3.32342  -0.745601
2006  9.658  7.40254  0.479635
index number 36
units = 2
month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
  year, obs index, pred index, standardized residual
1988  0.17  1.96287  -4.41174
1989  1  0.877393  0.235884
1990  1.28  1.14453  0.201744
1991  1  0.708416  0.621669
1992  1.1  2.19985  -1.24989
1993  2.55  1.26916  1.2583
1994  1.66  1.45971  0.231878
1995  4.95  1.60669  2.02919
1996  1.66  1.13402  0.68718
1997  1.65  1.08529  0.75548
1998  0.67  1.34138  -1.25186
1999  1.03  1.00135  0.0508711
2000  0.95  1.21041  -0.436867
2001  0.62  1.10206  -1.03734
2002  1.51  1.17433  0.453385
2003  0.6  0.699056  -0.275559
2004  0.9  1.10663  -0.372723
2005  3.11  0.530205  3.19039
2006  0.81  1.18097  -0.679983
index number 37
units = 2
month = 1
starting and ending ages for selectivity = 1 1

```

```

selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.55  0.81409  -0.707202
1983  0.96  0.86884  0.179932
1984  0.18  0.243317  -0.543555
1985  0.59  0.471931  0.402678
1986  0.39  0.657615  -0.94222
1987  0.07  0.0922302  -0.49736
1988  0.06  0.421603  -3.51609
1989  0.31  0.188454  0.897577
1990  0.44  0.245831  1.0498
1991  0.76  0.15216  2.90054
1992  0.99  0.472504  1.33389
1993  0.23  0.2726  -0.306444
1994  0.75  0.313529  1.57288
1995  0.93  0.345099  1.78779
1996  0.11  0.243574  -1.43359
1997  0.17  0.233109  -0.569342
1998  0.38  0.288113  0.499212
1999  0.21  0.215079  -0.0430957
2000  0.22  0.259981  -0.301133
2001  0.12  0.23671  -1.22512
2002  0.06  0.252234  -2.58968
2003  0.18  0.150149  0.327002
2004  0.36  0.237691  0.74864
2005  0.16  0.113882  0.61317
2006  0.31  0.25366  0.361722

```

index number 38

units = 2

month = 1

starting and ending ages for selectivity = 1 1

selectivity choice = -1

```

  year, obs index, pred index, standardized residual
1986  0.32  0.447973  -0.606679
1987  0.26  0.0628279  2.56131
1988  0.01  0.287199  -6.05502
1989  0.14  0.128376  0.156311
1990  0.36  0.167462  1.38021
1991  0.38  0.103652  2.34283
1992  0.37  0.321873  0.251293
1993  0.05  0.185697  -2.36621
1994  0.57  0.213579  1.77026
1995  0.3  0.235084  0.439733
1996  0.08  0.165925  -1.31558
1997  0.22  0.158796  0.58792
1998  0.39  0.196265  1.23835
1999  0.35  0.146513  1.57042
2000  0.21  0.177101  0.307271
2001  0.14  0.161249  -0.254832
2002  0.13  0.171824  -0.503025
2003  0.21  0.102283  1.29729
2004  0.27  0.161917  0.922136
2005  0.01  0.0775773  -3.69458
2006  0.17  0.172795  -0.0294071

```

index number 39

units = 2

month = 1

```

starting and ending ages for selectivity = 1 1
selectivity choice = -1
year, obs index, pred index, standardized residual
1990 0.02 0.0325733 -0.879617
1992 0.01 0.0626079 -3.30796
1993 0.01 0.0361202 -2.31603
1994 0.04 0.0415434 -0.0682761
1995 0.03 0.0457265 -0.760093
1996 0.02 0.0322742 -0.862985
1997 0.04 0.0308875 0.466223
1999 0.03 0.0284985 0.092597
2000 0.09 0.0344482 1.73189
2001 0.01 0.0313647 -2.06145
2002 0.11 0.0334216 2.14833
2003 0.05 0.0198952 1.6619
2004 0.1 0.0314947 2.08354
2005 0.04 0.0150897 1.75806
2006 0.04 0.0336105 0.313861

```

Input and Estimated effective sample sizes for index 1

```

1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

```

Input and Estimated effective sample sizes for index 2

```

1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

```

Input and Estimated effective sample sizes for index 3

```

1992 0 0
1993 0 0
1994 0 0

```

1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0

Input and Estimated effective sample sizes for index 4

1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0

Input and Estimated effective sample sizes for index 5

1992 0 0
1993 0 0
1994 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0

Input and Estimated effective sample sizes for index 6

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0

1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 7

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0

Input and Estimated effective sample sizes for index 8

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0

1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 9

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1991 0 0
1994 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 10

1983 0 0
1984 0 0
1985 0 0
1986 0 0
1992 0 0
1995 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 11

1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0

1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 12

1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 13

1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1991 0 0
1993 0 0
1994 0 0

1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 14

1982	0	0
1983	0	0
1984	0	0
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0

Total 0 0

Input and Estimated effective sample sizes for index 15

1982	0	0
1983	0	0
1984	0	0
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0

1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 16

1982	0	0
1983	0	0
1984	0	0
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 17

1982	0	0
1983	0	0
1984	0	0
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1994	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0

2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 18

1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 19

1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 20

1985 0 0
1986 0 0
1987 0 0

1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 21

1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 22

1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0

1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 23

1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 24

1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0

2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 25

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 26

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1992 0 0
1993 0 0
1994 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 27

1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0

1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 28

1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 29

1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 30

1988 0 0
1989 0 0
1990 0 0

1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 31

1990 0 0
1991 0 0
1992 0 0
1993 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 32

1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 33

1985 0 0
1986 0 0
1987 0 0
1988 0 0

1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 34

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 35

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0

1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 36

1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 37

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0

2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 38

1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 39

1990 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Survey proportions at age by index

Index number 1
N/A
Index number 2
N/A
Index number 3
N/A
Index number 4
N/A
Index number 5
N/A
Index number 6

N/A
Index number 7
N/A
Index number 8
N/A
Index number 9
N/A
Index number 10
N/A
Index number 11
N/A
Index number 12
N/A
Index number 13
N/A
Index number 14
N/A
Index number 15
N/A
Index number 16
N/A
Index number 17
N/A
Index number 18
N/A
Index number 19
N/A
Index number 20
N/A
Index number 21
N/A
Index number 22
N/A
Index number 23
N/A
Index number 24
N/A
Index number 25
N/A
Index number 26
N/A
Index number 27
N/A
Index number 28
N/A
Index number 29
N/A
Index number 30
N/A
Index number 31
N/A
Index number 32
N/A
Index number 33
N/A
Index number 34
N/A

Index number 35
 N/A
 Index number 36
 N/A
 Index number 37
 N/A
 Index number 38
 N/A
 Index number 39
 N/A

Index Selectivity at Age

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

Deviations section: only applicable if associated lambda > 0

Nyear1 observed, expected, standardized residual

2 141.934 9935.01 -5.51549
 3 66.7132 3069.19 -4.97064
 4 194.838 922.91 -2.01923

5 11323.2 281.933 4.7943
6 1.87289 87.1656 -4.98564
7 2.45433 27.1575 -3.1207
8 4.12177 12.3833 -1.42815

Fleet Obs, Initial, and Standardized Residual for Fmult

1 0.521288 0.5 0.054129
2 0.187429 0.2 -0.0842775
3 3.05902e-07 0.05 -15.5843
4 3.05902e-07 0.05 -15.5843
5 0.248121 0.2 0.279897
6 0.0552852 0.05 0.130449

Standardized Residuals for Fmult_devs by fleet and year

N/A

Index Obs, Initial, and Standardized Residual for q_year1

N/A

Standardized Residuals for catchability deviations by index and year

index 1 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0

index 2 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0

index 3 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0

8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
index 4 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
index 5 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
index 6 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0

21 0
22 0
23 0
24 0
25 0
index 7 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
index 8 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
index 9 q_devs standardized residuals
2 0
3 0

4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
index 10 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
index 11 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
index 12 q_devs standardized residuals

```
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
  index 13 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
  index 14 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
```

13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
index 15 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
index 16 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0

```
20 0
21 0
22 0
23 0
24 0
  index 17 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
  index 18 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
  index 19 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
```

```
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
  index 20 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
  index 21 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
```

```
20 0
21 0
22 0
  index 22 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
  index 23 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
  index 24 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
```

11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
index 25 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
index 26 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0


```
index 27 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
index 28 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
index 29 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
index 30 q_devs standardized residuals
2 0
3 0
4 0
```

5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
index 31 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
index 32 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
index 33 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0

12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
index 34 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
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11 0
12 0
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15 0
16 0
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21 0
22 0
23 0
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25 0
index 35 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0

```
25 0
  index 36 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
  index 37 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
  index 38 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
```


0.0020506 0.327849 0.353177 0.353189 0.353189 0.353189 0.353189 0.353189
 0.00323894 0.517841 0.557847 0.557866 0.557866 0.557866 0.557866 0.557866
 0.00831332 1.32913 1.43181 1.43186 1.43186 1.43186 1.43186 1.43186
 0.00210104 0.335914 0.361865 0.361877 0.361877 0.361877 0.361877 0.361877
 0.0021608 0.345468 0.372158 0.372171 0.372171 0.372171 0.372171 0.372171
 0.002956 0.0702167 0.567073 0.779455 0.79086 0.791306 0.791323 0.791324
 0.00195877 0.0465285 0.375766 0.516499 0.524057 0.524352 0.524364 0.524364
 0.00108955 0.0258811 0.209017 0.287299 0.291503 0.291667 0.291673 0.291674
 0.00102015 0.0242326 0.195703 0.268999 0.272935 0.273089 0.273095 0.273095
 0.000866064 0.0205724 0.166144 0.228368 0.23171 0.231841 0.231846 0.231846
 0.000730428 0.0173505 0.140124 0.192603 0.195422 0.195532 0.195536 0.195536
 0.000696646 0.0165481 0.133643 0.183695 0.186383 0.186488 0.186493 0.186493
 0.000790488 0.0187772 0.151646 0.20844 0.21149 0.21161 0.211614 0.211614
 0.000684782 0.0162663 0.131367 0.180567 0.183209 0.183313 0.183317 0.183317
 0.000885027 0.0210229 0.169782 0.233369 0.236783 0.236917 0.236922 0.236922
 0.00109534 0.0260187 0.210128 0.288825 0.293052 0.293217 0.293223 0.293224
 0.000861628 0.0204671 0.165293 0.227199 0.230523 0.230653 0.230658 0.230658
 fleet 2 directed F at age
 0.0166409 0.187429 0.187429 0.187429 0.187429 0.187429 0.187429 0.187429
 0.0135902 0.153069 0.153069 0.153069 0.153069 0.153069 0.153069 0.153069
 0.0215929 0.243205 0.243205 0.243205 0.243205 0.243205 0.243205 0.243205
 0.0251535 0.283309 0.283309 0.283309 0.283309 0.283309 0.283309 0.283309
 0.0162196 0.182684 0.182684 0.182684 0.182684 0.182684 0.182684 0.182684
 0.011525 0.129808 0.129808 0.129808 0.129808 0.129808 0.129808 0.129808
 0.0323189 0.364014 0.364014 0.364014 0.364014 0.364014 0.364014 0.364014
 0.0183112 0.206242 0.206242 0.206242 0.206242 0.206242 0.206242 0.206242
 0.0114526 0.128993 0.128993 0.128993 0.128993 0.128993 0.128993 0.128993
 0.0157635 0.177547 0.177547 0.177547 0.177547 0.177547 0.177547 0.177547
 0.0186981 0.210601 0.210601 0.210601 0.210601 0.210601 0.210601 0.210601
 0.00875958 0.0986608 0.0986608 0.0986608 0.0986608 0.0986608 0.0986608 0.0986608
 0.0986608
 0.00974404 0.109749 0.109749 0.109749 0.109749 0.109749 0.109749 0.109749
 0.001089 0.0189863 0.197599 0.409459 0.435119 0.436623 0.436707 0.436711
 0.000907441 0.0158209 0.164655 0.341193 0.362574 0.363828 0.363897 0.363901
 0.000206382 0.00359818 0.0374478 0.0775984 0.0824612 0.0827464 0.0827621
 0.082763
 0.000306766 0.00534835 0.0556626 0.115343 0.122571 0.122995 0.123018
 0.123019
 0.000247646 0.00431761 0.0449352 0.0931136 0.0989487 0.0992909 0.0993098
 0.0993108
 0.000249436 0.00434881 0.0452599 0.0937865 0.0996637 0.100008 0.100027
 0.100028
 0.000186733 0.00325561 0.0338826 0.0702106 0.0746104 0.0748684 0.0748827
 0.0748835
 0.000243583 0.00424677 0.0441979 0.0915858 0.0973251 0.0976617 0.0976803
 0.0976813
 0.000175276 0.00305586 0.0318037 0.0659028 0.0700326 0.0702749 0.0702882
 0.070289
 0.000245382 0.00427814 0.0445245 0.0922625 0.0980442 0.0983833 0.098402
 0.098403
 0.000251319 0.00438164 0.0456016 0.0944946 0.100416 0.100763 0.100783
 0.100784
 0.0002624 0.00457484 0.0476123 0.0986611 0.104844 0.105206 0.105226 0.105227
 fleet 3 directed F at age
 5.45068e-11 3.05902e-07 9.41026e-09 5.4458e-09 7.90214e-11 3.05902e-08
 1.52951e-08 3.05902e-09

1.70382e-17 9.56217e-14 2.94154e-15 1.7023e-15 2.47012e-17 9.56217e-15
 4.78108e-15 9.56217e-16
 8.70734e-24 4.88672e-20 1.50327e-21 8.69954e-22 1.26235e-23 4.88672e-21
 2.44336e-21 4.88672e-22
 3.27591e-30 1.8385e-26 5.65565e-28 3.27297e-28 4.74926e-30 1.8385e-27
 9.1925e-28 1.8385e-28
 9.30099e-24 5.21989e-20 1.60576e-21 9.29266e-22 1.34841e-23 5.21989e-21
 2.60995e-21 5.21989e-22
 6.30341e-18 3.53759e-14 1.08825e-15 6.29777e-16 9.13839e-18 3.53759e-15
 1.7688e-15 3.53759e-16
 2.48976e-12 1.3973e-08 4.29842e-10 2.48753e-10 3.60954e-12 1.3973e-09
 6.9865e-10 1.3973e-10
 8.13907e-06 0.045678 0.00140516 0.000813178 1.17996e-05 0.0045678 0.0022839
 0.00045678
 5.05355e-05 0.283615 0.00872465 0.00504903 7.3264e-05 0.0283615 0.0141807
 0.00283615
 4.2425e-05 0.238097 0.00732442 0.0042387 6.15058e-05 0.0238097 0.0119049
 0.00238097
 6.42161e-05 0.360393 0.0110865 0.00641586 9.30975e-05 0.0360393 0.0180197
 0.00360393
 1.32057e-05 0.074113 0.00227989 0.00131939 1.9145e-05 0.0074113 0.00370565
 0.00074113
 1.01894e-05 0.0571846 0.00175913 0.00101802 1.47721e-05 0.00571846
 0.00285923 0.000571846
 2.15214e-06 0.0120782 0.000371555 0.000215022 3.12008e-06 0.00120782
 0.000603912 0.000120782
 4.49369e-06 0.0252194 0.000775807 0.000448966 6.51474e-06 0.00252194
 0.00126097 0.000252194
 4.59572e-06 0.0257921 0.000793424 0.000459161 6.66267e-06 0.00257921
 0.0012896 0.000257921
 4.7136e-06 0.0264536 0.000813774 0.000470938 6.83356e-06 0.00264536
 0.00132268 0.000264536
 2.39787e-05 0.134573 0.00413978 0.00239572 3.47632e-05 0.0134573 0.00672865
 0.00134573
 1.12715e-05 0.063258 0.00194596 0.00112615 1.6341e-05 0.0063258 0.0031629
 0.00063258
 3.35578e-06 0.0188333 0.000579356 0.000335278 4.86506e-06 0.00188333
 0.000941665 0.000188333
 5.25178e-06 0.029474 0.000906688 0.000524708 7.61379e-06 0.0029474 0.0014737
 0.00029474
 6.94051e-06 0.0389514 0.00119824 0.000693429 1.0062e-05 0.00389514
 0.00194757 0.000389514
 4.21607e-06 0.0236614 0.000727878 0.000421229 6.11226e-06 0.00236614
 0.00118307 0.000236614
 3.04176e-06 0.0170709 0.000525141 0.000303904 4.4098e-06 0.00170709
 0.000853547 0.000170709
 8.05899e-06 0.0452286 0.00139134 0.000805178 1.16836e-05 0.00452286
 0.00226143 0.000452286
 fleet 4 directed F at age
 2.97204e-11 2.38456e-09 3.05902e-07 6.75599e-09 8.07701e-11 3.05902e-08
 1.52951e-08 3.05902e-09
 1.12676e-16 9.04037e-15 1.15974e-12 2.56134e-14 3.06217e-16 1.15974e-13
 5.79871e-14 1.15974e-14
 4.47079e-23 3.58705e-21 4.60164e-19 1.01629e-20 1.21501e-22 4.60164e-20
 2.30082e-20 4.60164e-21
 3.94956e-27 3.16885e-25 4.06515e-23 8.97807e-25 1.07336e-26 4.06515e-24
 2.03258e-24 4.06515e-25

2.91334e-30 2.33746e-28 2.9986e-26 6.62255e-28 7.91748e-30 2.9986e-27
 1.4993e-27 2.9986e-28
 2.23011e-24 1.78929e-22 2.29538e-20 5.06945e-22 6.06069e-24 2.29538e-21
 1.14769e-21 2.29538e-22
 2.99665e-27 2.4043e-25 3.08436e-23 6.81194e-25 8.14389e-27 3.08436e-24
 1.54218e-24 3.08436e-25
 4.62761e-31 3.71287e-29 4.76305e-27 1.05194e-28 1.25763e-30 4.76305e-28
 2.38152e-28 4.76305e-29
 2.35027e-28 1.8857e-26 2.41906e-24 5.3426e-26 6.38725e-28 2.41906e-25
 1.20953e-25 2.41906e-26
 4.44757e-23 3.56842e-21 4.57774e-19 1.01101e-20 1.2087e-22 4.57774e-20
 2.28887e-20 4.57774e-21
 8.76892e-19 7.03557e-17 9.02557e-15 1.99334e-16 2.3831e-18 9.02557e-16
 4.51278e-16 9.02557e-17
 1.77409e-12 1.42341e-10 1.82601e-08 4.03283e-10 4.82138e-12 1.82601e-09
 9.13007e-10 1.82601e-10
 5.79953e-06 0.000465314 0.0596927 0.00131834 1.57612e-05 0.00596927
 0.00298463 0.000596927
 4.93546e-06 0.000395987 0.0507991 0.00112192 1.34129e-05 0.00507991
 0.00253996 0.000507991
 1.78744e-06 0.000143412 0.0183976 0.000406318 4.85767e-06 0.00183976
 0.000919878 0.000183976
 8.53403e-07 6.84711e-05 0.0087838 0.000193994 2.31926e-06 0.00087838
 0.00043919 8.7838e-05
 1.75145e-06 0.000140524 0.0180271 0.000398136 4.75985e-06 0.00180271
 0.000901355 0.000180271
 5.10191e-06 0.000409342 0.0525124 0.00115976 1.38653e-05 0.00525124
 0.00262562 0.000525124
 1.41981e-06 0.000113916 0.0146137 0.00032275 3.85858e-06 0.00146137
 0.000730684 0.000146137
 2.77402e-06 0.000222568 0.0285521 0.000630585 7.53885e-06 0.00285521
 0.0014276 0.000285521
 1.30767e-06 0.000104918 0.0134594 0.000297256 3.5538e-06 0.00134594
 0.000672969 0.000134594
 7.76046e-07 6.22646e-05 0.00798759 0.00017641 2.10903e-06 0.000798759
 0.00039938 7.98759e-05
 7.01627e-07 5.62937e-05 0.00722162 0.000159493 1.90679e-06 0.000722162
 0.000361081 7.22162e-05
 1.30487e-06 0.000104694 0.0134306 0.000296622 3.54621e-06 0.00134306
 0.000671532 0.000134306
 8.42588e-07 6.76034e-05 0.00867249 0.000191536 2.28987e-06 0.000867249
 0.000433624 8.67249e-05
 fleet 5 directed F at age
 0.234393 0.248049 0.24812 0.248121 0.248121 0.248121 0.248121 0.248121
 0.300554 0.318064 0.318157 0.318157 0.318157 0.318157 0.318157 0.318157
 0.285799 0.30245 0.302537 0.302538 0.302538 0.302538 0.302538 0.302538
 0.214628 0.227132 0.227198 0.227198 0.227198 0.227198 0.227198 0.227198
 0.272439 0.288311 0.288395 0.288395 0.288395 0.288395 0.288395 0.288395
 0.262239 0.277517 0.277597 0.277598 0.277598 0.277598 0.277598 0.277598
 0.317467 0.335962 0.33606 0.33606 0.33606 0.33606 0.33606 0.33606
 0.106847 0.113072 0.113104 0.113104 0.113104 0.113104 0.113104 0.113104
 0.14986 0.158591 0.158637 0.158637 0.158637 0.158637 0.158637 0.158637
 0.323391 0.342231 0.34233 0.342331 0.342331 0.342331 0.342331 0.342331
 0.201751 0.213506 0.213567 0.213568 0.213568 0.213568 0.213568 0.213568
 0.19307 0.204318 0.204377 0.204377 0.204377 0.204377 0.204377 0.204377
 0.165232 0.174858 0.174909 0.174909 0.174909 0.174909 0.174909 0.174909
 0.00525752 0.0647318 0.244412 0.298205 0.302532 0.302817 0.302836 0.302837

0.00781595 0.0962318 0.363348 0.443318 0.449751 0.450175 0.450203 0.450205
0.00694886 0.0855559 0.323039 0.394137 0.399856 0.400233 0.400258 0.400259
0.00626289 0.0771102 0.29115 0.355229 0.360384 0.360724 0.360746 0.360747
0.00386591 0.047598 0.179718 0.219273 0.222455 0.222665 0.222678 0.222679
0.00638621 0.0786285 0.296882 0.362224 0.36748 0.367827 0.367849 0.367851
0.0041416 0.0509923 0.192535 0.23491 0.238319 0.238544 0.238558 0.238559
0.0025761 0.0317175 0.119758 0.146115 0.148236 0.148376 0.148385 0.148385
0.0032056 0.039468 0.149022 0.18182 0.184459 0.184633 0.184644 0.184645
0.00307873 0.037906 0.143124 0.174624 0.177158 0.177325 0.177336 0.177337
0.00374018 0.04605 0.173874 0.212142 0.21522 0.215423 0.215436 0.215437
0.00418246 0.0514954 0.194434 0.237228 0.24067 0.240897 0.240912 0.240913
fleet 6 directed F at age
0.00346068 0.0552852 0.0448186 0.0290249 0.0170214 0.00931829 0.0048925
0.00250976
0.00138681 0.0221546 0.0179603 0.0116312 0.00682103 0.00373414 0.00196059
0.00100574
0.00129988 0.0207659 0.0168345 0.0109022 0.00639348 0.00350008 0.00183769
0.000942704
0.000546565 0.00873151 0.00707846 0.00458408 0.00268829 0.00147169
0.000772702 0.000396382
0.00295796 0.0472542 0.038308 0.0248086 0.0145488 0.00796467 0.00418179
0.00214518
0.00205789 0.0328753 0.0266513 0.0172597 0.0101218 0.00554112 0.00290933
0.00149243
0.00368511 0.0588706 0.0477252 0.0309073 0.0181253 0.00992261 0.0052098
0.00267253
0.000330039 0.00527246 0.00427427 0.00276806 0.0016233 0.00088867 0.00046659
0.000239352
0.00176563 0.0282064 0.0228664 0.0148085 0.00868429 0.00475418 0.00249615
0.00128048
0.0037086 0.0592459 0.0480294 0.0311043 0.0182408 0.00998587 0.00524301
0.00268957
0.00510778 0.0815981 0.0661499 0.0428393 0.0251227 0.0137533 0.00722108
0.00370428
0.00455234 0.0727248 0.0589565 0.0381808 0.0223908 0.0122577 0.00643583
0.00330146
0.00334895 0.0535003 0.0433716 0.0280879 0.0164719 0.00901746 0.00473455
0.00242874
0.00393812 0.041529 0.0526683 0.0223497 0.00643116 0.00161527 0.000390855
9.37072e-05
0.00283895 0.0299378 0.037968 0.0161117 0.00463616 0.00116443 0.000281763
6.75526e-05
0.00226696 0.023906 0.0303182 0.0128655 0.00370206 0.000929821 0.000224994
5.39421e-05
0.00310197 0.0327114 0.0414856 0.0176043 0.00506567 0.00127231 0.000307867
7.3811e-05
0.00332281 0.0350403 0.0444391 0.0188577 0.00542632 0.00136289 0.000329786
7.90659e-05
0.00390153 0.0411431 0.0521789 0.022142 0.0063714 0.00160026 0.000387223
9.28365e-05
0.00472113 0.0497861 0.0631401 0.0267934 0.00770984 0.00193643 0.000468567
0.000112339
0.00280447 0.0295742 0.0375068 0.015916 0.00457984 0.00115029 0.000278341
6.6732e-05
0.00298268 0.0314535 0.0398903 0.0169274 0.00487087 0.00122338 0.000296028
7.09726e-05

0.129859 1.06788 1.07654 1.07446 1.07252 1.07634 1.07363 1.07158
0.165179 0.927253 0.672397 0.660676 0.649576 0.673934 0.657495 0.644935
0.346144 1.33496 1.13308 1.11309 1.09605 1.11154 1.09489 1.08281
0.233935 2.19523 1.93322 1.90529 1.88125 1.90582 1.88127 1.86334
0.208496 0.78573 0.726139 0.704416 0.687325 0.684585 0.675057 0.668958
0.180501 0.741226 0.761639 0.687253 0.673331 0.677534 0.667407 0.660426
0.0132477 0.207938 1.11292 1.51081 1.53496 1.53865 1.5344 1.53159
0.0135274 0.213882 0.96091 1.31798 1.34103 1.34388 1.34093 1.33897
0.0105172 0.164802 0.609399 0.772552 0.777531 0.779034 0.776647 0.775096
0.0106982 0.165997 0.602842 0.758044 0.760966 0.762527 0.75939 0.75738
0.00833151 0.242511 0.491889 0.563168 0.558588 0.573868 0.563518 0.555786
0.0112803 0.204843 0.551005 0.672204 0.668957 0.672754 0.667693 0.664287
0.00975224 0.139638 0.452332 0.516575 0.507035 0.506576 0.502771 0.500522
0.0064212 0.113895 0.367474 0.46288 0.461642 0.463091 0.460104 0.458177
0.00705605 0.129257 0.361269 0.446087 0.442584 0.444137 0.440892 0.438791
0.0083242 0.130268 0.420348 0.524162 0.518706 0.5174 0.514613 0.513069
0.0100544 0.145965 0.509937 0.62423 0.616801 0.614489 0.61146 0.609868
0.00969079 0.167974 0.47592 0.588916 0.583196 0.583941 0.579926 0.577442

Average F for ages 3 to 5

Freport unweighted in .std and MCMC files

year	unweighted	Nweighted	Bweighted
1982	0.98712	0.974221	0.974041
1983	0.990612	0.990034	0.988165
1984	1.0797	1.08514	1.08513
1985	1.40665	1.40835	1.40809
1986	1.24345	1.24708	1.24417
1987	1.00908	1.01562	1.01362
1988	2.04033	2.05284	2.05109
1989	1.07451	1.07488	1.07458
1990	0.660883	0.670983	0.669797
1991	1.11407	1.12493	1.12184
1992	1.90658	1.92037	1.91342
1993	0.70596	0.715317	0.710301
1994	0.707407	0.758347	0.754387
1995	1.38623	1.26793	1.30055
1996	1.20664	1.0187	1.05256
1997	0.719827	0.643643	0.651303
1998	0.707284	0.668238	0.683283
1999	0.537882	0.520782	0.529045
2000	0.630722	0.597362	0.612426
2001	0.491981	0.480492	0.485946
2002	0.430665	0.404369	0.414133
2003	0.416647	0.399284	0.40863
2004	0.487739	0.466956	0.478453
2005	0.583656	0.574129	0.584758
2006	0.549344	0.516056	0.53054

Population Numbers at the Start of the Year

97062.2 141.934 66.7132 194.838 11323.2 1.87289 2.45433 4.12177
103590 61425.9 43.8472 20.0607 59.5196 3500.81 0.583523 2.06103
29010.2 61680.2 19176.4 13.2539 6.10222 18.1924 1073.34 0.812862
56267.3 17390.4 17644.9 5304.38 3.68788 1.70562 5.09965 301.606
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index 37 q over time

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2006 8.3873e-06
index 38 q over time
1986 5.7135e-06
1987 5.7135e-06
1988 5.7135e-06
1989 5.7135e-06
1990 5.7135e-06
1991 5.7135e-06
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1997 5.7135e-06
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1999 5.7135e-06
2000 5.7135e-06
2001 5.7135e-06
2002 5.7135e-06
2003 5.7135e-06
2004 5.7135e-06
2005 5.7135e-06
2006 5.7135e-06
index 39 q over time
1990 1.11134e-06
1992 1.11134e-06
1993 1.11134e-06
1994 1.11134e-06
1995 1.11134e-06
1996 1.11134e-06
1997 1.11134e-06
1999 1.11134e-06
2000 1.11134e-06
2001 1.11134e-06

2002 1.11134e-06
2003 1.11134e-06
2004 1.11134e-06
2005 1.11134e-06
2006 1.11134e-06

Proportions of catch at age by fleet

fleet 1
Year 1 Obs = 0.0999237 0.477013 0.390403 0.0160876 0.00422994 0.0067263
0.00395257 0.00166424
Year 1 Pred = 0.0615149 0.0105437 0.00528093 0.015522 0.906459 0.000150399
0.000197444 0.000331906
Year 2 Obs = 0.10236 0.634204 0.227746 0.0289916 0.00156994 0.00324454
0.000680308 0.00120362
Year 2 Pred = 0.0129341 0.928445 0.0007047 0.000323243 0.000960914 0.0565892
9.43918e-06 3.33525e-05
Year 3 Obs = 0.0664268 0.506889 0.31883 0.0766062 0.0272241 0.00340893
0.000142039 0.000473462
Year 3 Pred = 0.00298161 0.738669 0.244113 0.000169121 7.80045e-05
0.00023282 0.0137453 1.04133e-05
Year 4 Obs = 0.0447546 0.343172 0.536416 0.0509351 0.0140125 0.00900421
0.00133198 0.000372955
Year 4 Pred = 0.013151 0.409802 0.437609 0.131678 9.16141e-05 4.23899e-05
0.000126775 0.00749886
Year 5 Obs = 0.0249296 0.431275 0.39042 0.135673 0.00967781 0.00569644
0.00177631 0.000551268
Year 5 Pred = 0.0158082 0.789545 0.0859204 0.0823363 0.0249109 1.73962e-05
8.06714e-06 0.00145333
Year 6 Obs = 0.0183903 0.493436 0.413006 0.0517919 0.0186673 0.00127403
0.00132942 0.00210491
Year 6 Pred = 0.00157162 0.805541 0.157439 0.0155317 0.0150506 0.00459088
3.22241e-06 0.000271828
Year 7 Obs = 0.0137816 0.502282 0.406308 0.0578374 0.0147757 0.00356965
0.000813339 0.000632597
Year 7 Pred = 0.0225917 0.260734 0.587743 0.104959 0.010456 0.010203
0.00312558 0.000187869
Year 8 Obs = 0.0113879 0.295492 0.572835 0.0997628 0.0180308 0.00189798
0.000355872 0.000237248
Year 8 Pred = 0.00665445 0.903626 0.0262184 0.0519437 0.00938833 0.000941912
0.000925182 0.000301683
Year 9 Obs = 0 0.651696 0.210154 0.112033 0.0197706 0.00439346 0.00146449
0.000488162
Year 9 Pred = 0.00949134 0.598819 0.358541 0.00965533 0.0192439 0.00344604
0.000347377 0.0004558
Year 10 Obs = 0 0.519579 0.450533 0.0196485 0.00844057 0.00152207
0.00013837 0.00013837
Year 10 Pred = 0.00552959 0.657586 0.196935 0.127963 0.0034924 0.0069622
0.00123761 0.000293762
Year 11 Obs = 0.0115983 0.586021 0.36372 0.034388 0.00193306 0.00223827 0
0.00010174
Year 11 Pred = 0.0391928 0.546609 0.267525 0.0850104 0.056365 0.00154146
0.00306955 0.000687123
Year 12 Obs = 0.0213669 0.609594 0.331116 0.0246215 0.00410358 0.00608462
0.00268855 0.000424508
Year 12 Pred = 0.00677607 0.942489 0.027317 0.0149468 0.00487381 0.00328727
8.88082e-05 0.000221041

Year 13 Obs = 0.0151246 0.470005 0.469243 0.0345704 0.00813421 0.00152517
0.000762583 0.000635486
Year 13 Pred = 0.00806068 0.580154 0.390711 0.01123 0.0062588 0.00205725
0.00139579 0.00013301
Year 14 Obs = 0.00640312 0.357183 0.595768 0.0335468 0.00556793 0.00111359
0.000278396 0.000139198
Year 14 Pred = 0.0173923 0.233929 0.422512 0.308626 0.00931208 0.00522739
0.00171678 0.00128495
Year 15 Obs = 0 0.251933 0.573098 0.143499 0.0280525 0.00269736 0.000539471
0.000179824
Year 15 Pred = 0.00858986 0.212416 0.633469 0.101027 0.0421735 0.00123436
0.000691682 0.000398853
Year 16 Obs = 0 0.086758 0.557534 0.277169 0.059589 0.0157534 0.00228311
0.000913242
Year 16 Pred = 0.00569526 0.106094 0.656777 0.203908 0.0192777 0.00781778
0.000228515 0.000202478
Year 17 Obs = 0 0.0439265 0.385253 0.45316 0.0979381 0.0161363 0.00336172
0.000224115
Year 17 Pred = 0.00662072 0.0957429 0.459155 0.354726 0.0739455 0.00686955
0.00278559 0.000153974
Year 18 Obs = 0 0.0307962 0.39309 0.381072 0.14647 0.0400601 0.00650976
0.002003
Year 18 Pred = 0.00469388 0.1083 0.43842 0.272922 0.142697 0.0290896
0.00271074 0.00116605
Year 19 Obs = 0 0.0548229 0.500129 0.280062 0.116111 0.0307732 0.0121541
0.00594776
Year 19 Pred = 0.00535727 0.0779794 0.462343 0.263719 0.116604 0.0601779
0.0121823 0.00163753
Year 20 Obs = 0 0.192057 0.381393 0.272035 0.0900435 0.0421654 0.0160501
0.0062568
Year 20 Pred = 0.00494308 0.0981263 0.380003 0.30831 0.121705 0.0531755
0.027415 0.00632167
Year 21 Obs = 0 0.0797956 0.53184 0.270244 0.0752752 0.0261399 0.0147406
0.00196541
Year 21 Pred = 0.00464383 0.079727 0.447021 0.238335 0.137802 0.0538951
0.0235724 0.0150032
Year 22 Obs = 0 0.0960949 0.431814 0.276631 0.108771 0.0521366 0.0224903
0.012063
Year 22 Pred = 0.0025383 0.077725 0.385256 0.308855 0.115511 0.0658603
0.025761 0.0184937
Year 23 Obs = 0 0.048398 0.439966 0.297639 0.126138 0.0507589 0.0202361
0.0168634
Year 23 Pred = 0.00401573 0.0462162 0.394942 0.280887 0.15903 0.0587996
0.0335197 0.0225899
Year 24 Obs = 0 0.084207 0.228491 0.271093 0.181561 0.112332 0.0605758
0.0617407
Year 24 Pred = 0.00232233 0.0876187 0.272462 0.322375 0.160274 0.0898475
0.0332701 0.0318298
Year 25 Obs = 0 0.0787154 0.466205 0.232997 0.121327 0.0579345 0.0277078
0.0151134
Year 25 Pred = 0.00548825 0.0439977 0.456674 0.188689 0.15491 0.0762444
0.0428493 0.031147
fleet 2
Year 1 Obs = 0.172408 0.608612 0.179438 0.0249561 0.00913884 0.00333919
0.00105448 0.00105448
Year 1 Pred = 0.500369 0.00604186 0.00280912 0.00825643 0.482162 8.00002e-05
0.000105024 0.000176547

Year 2 Obs = 0.0778358 0.59769 0.250119 0.0454042 0.0213574 0.00648632
0.000474608 0.000632811
Year 2 Pred = 0.157398 0.795952 0.000560811 0.000257233 0.000764684 0.045033
7.51159e-06 2.65415e-05
Year 3 Obs = 0.0814915 0.508356 0.349416 0.049416 0.00961366 0.00161725
8.98473e-05 0
Year 3 Pred = 0.0414607 0.723608 0.221986 0.000153786 7.09315e-05
0.000211709 0.012499 9.46907e-06
Year 4 Obs = 0.0274049 0.415828 0.493428 0.0472595 0.0118848 0.0033557
0.000699105 0.000139821
Year 4 Pred = 0.164889 0.361972 0.358813 0.107965 7.51154e-05 3.4756e-05
0.000103944 0.0061484
Year 5 Obs = 0.0420725 0.482665 0.369497 0.0932996 0.00564862 0.00623296
0.00019478 0.00038956
Year 5 Pred = 0.187838 0.660915 0.0667646 0.0639773 0.0193563 1.35173e-05
6.26837e-06 0.00112928
Year 6 Obs = 0.054914 0.570351 0.306151 0.0624558 0.00589206 0.000235682 0
0
Year 6 Pred = 0.022156 0.800018 0.145146 0.0143185 0.013875 0.00423228
2.97071e-06 0.000250596
Year 7 Obs = 0 0.495499 0.377951 0.0800068 0.0385595 0.00662477 0.000169866
0.00118906
Year 7 Pred = 0.25723 0.20914 0.437631 0.0781494 0.00778527 0.00759683
0.00232721 0.000139882
Year 8 Obs = 0.000823384 0.0201729 0.591601 0.294772 0.076163 0.0152326
0.000411692 0.000823384
Year 8 Pred = 0.0873515 0.835632 0.0225068 0.0445888 0.008059 0.000808543
0.000794181 0.000258966
Year 9 Obs = 0.00140449 0.100421 0.51264 0.293539 0.0821629 0.00842697
0.000702247 0.000702247
Year 9 Pred = 0.122799 0.545797 0.303359 0.00816901 0.0162815 0.00291556
0.000293902 0.000385634
Year 10 Obs = 0 0.142431 0.611857 0.194258 0.0432513 0.00745712 0.000745712
0
Year 10 Pred = 0.0748398 0.62699 0.174306 0.113256 0.003091 0.00616199
0.00109537 0.000259998
Year 11 Obs = 0 0.0214031 0.472652 0.414388 0.0778835 0.0124851 0.00118906
0
Year 11 Pred = 0.374024 0.367484 0.166958 0.0530518 0.0351753 0.00096197
0.00191559 0.000428808
Year 12 Obs = 0 0.269211 0.575536 0.13173 0.0230005 0.000522739 0 0
Year 12 Pred = 0.0885873 0.868037 0.0233548 0.0127784 0.00416675 0.00281037
7.59244e-05 0.000188974
Year 13 Obs = 0.00277649 0.119389 0.583989 0.232763 0.0532161 0.00647848
0.00138825 0
Year 13 Pred = 0.106257 0.538762 0.336814 0.00968051 0.00539525 0.0017734
0.00120321 0.000114658
Year 14 Obs = 0 0.0642528 0.493788 0.304934 0.117501 0.0188143 0.000709975
0
Year 14 Pred = 0.0164851 0.162741 0.378787 0.417122 0.0131815 0.00742094
0.0024376 0.00182447
Year 15 Obs = 0 0.164492 0.620533 0.157119 0.0374362 0.015882 0.0036869
0.000850822
Year 15 Pred = 0.00881751 0.160038 0.615044 0.147874 0.0646521 0.00189776
0.0010636 0.000613321
Year 16 Obs = 0 0.0163305 0.600384 0.363112 0.0172911 0.00288184 0 0

Year 16 Pred = 0.00549377 0.0751143 0.599233 0.28047 0.0277712 0.0112948
0.000330204 0.000292584
Year 17 Obs = 0.0118421 0.359868 0.456579 0.151316 0.0184211 0.00197368 0 0
Year 17 Pred = 0.00579687 0.0615278 0.38025 0.442871 0.0966905 0.00900855
0.00365357 0.000201954
Year 18 Obs = 0.000712758 0.0498931 0.35923 0.412687 0.108339 0.0627227
0.00427655 0.00213828
Year 18 Pred = 0.00407982 0.0690898 0.36043 0.338255 0.185229 0.0378691
0.00352946 0.00151825
Year 19 Obs = 0 0.028169 0.224225 0.510423 0.194366 0.0309859 0.0101408
0.00169014
Year 19 Pred = 0.00461471 0.0493012 0.376692 0.32392 0.150002 0.0776383
0.0157195 0.00211303
Year 20 Obs = 0 0.0539986 0.278879 0.380041 0.228298 0.0430622 0.0123035
0.00341763
Year 20 Pred = 0.00416101 0.0606265 0.302558 0.37007 0.153001 0.0670424
0.03457 0.00797164
Year 21 Obs = 0 0.0351423 0.255338 0.459075 0.204626 0.0311388 0.0133452
0.00133452
Year 21 Pred = 0.00396866 0.0500091 0.36134 0.290436 0.175876 0.068985
0.0301775 0.0192073
Year 22 Obs = 0 0.0262997 0.205505 0.435474 0.221407 0.075841 0.030581
0.00489297
Year 22 Pred = 0.00211204 0.0474674 0.3032 0.366445 0.143538 0.0820769
0.0321095 0.0230515
Year 23 Obs = 0 0.0106054 0.26867 0.381352 0.198409 0.10517 0.0251878
0.0106054
Year 23 Pred = 0.00328718 0.027767 0.305783 0.327859 0.194411 0.0720895
0.0411028 0.0277005
Year 24 Obs = 0 0.00888657 0.24621 0.434919 0.203346 0.0747517 0.0230005
0.00888657
Year 24 Pred = 0.00184977 0.0512234 0.205268 0.366144 0.190652 0.107186
0.0396972 0.0379791
Year 25 Obs = 0 0.00924499 0.223934 0.337956 0.229584 0.132512 0.048793
0.0179764
Year 25 Pred = 0.00459203 0.0270195 0.361408 0.225119 0.193568 0.0955469
0.0537064 0.0390394
fleet 3
Year 1 Obs = 0 0 0 0 0 0 0 0
Year 1 Pred = 0.135354 0.814374 0.0116478 0.0198118 0.0167883 0.00107831
0.000707803 0.000237965
Year 2 Obs = 0 0 0 0 0 0 0 0
Year 2 Pred = 0.000394463 0.993954 2.15434e-05 5.71852e-06 2.46674e-07
0.00562354 4.69009e-07 3.3144e-07
Year 3 Obs = 0 0 0 0 0 0 0 0
Year 3 Pred = 0.000113801 0.989659 0.00933959 3.74437e-06 2.50601e-08
2.89549e-05 0.000854727 1.29506e-07
Year 4 Obs = 0 0 0 0 0 0 0 0
Year 4 Pred = 0.000881663 0.964402 0.0294083 0.00512086 5.16981e-08
9.26004e-06 1.3847e-05 0.000163812
Year 5 Obs = 0 0 0 0 0 0 0 0
Year 5 Pred = 0.000567303 0.994601 0.00309078 0.00171399 7.52469e-06
2.0342e-06 4.71659e-07 1.69943e-05
Year 6 Obs = 0 0 0 0 0 0 0 0
Year 6 Pred = 5.52216e-05 0.99355 0.00554517 0.000316568 4.45127e-06
0.000525611 1.84467e-07 3.11217e-06
Year 7 Obs = 0 0 0 0 0 0 0 0

Year 7 Pred = 0.00229042 0.927905 0.0597301 0.00617262 8.9228e-06 0.00337053
0.000516264 6.20622e-06
Year 8 Obs = 0.310372 0.651982 0.0376452 0 0 0 0
Year 8 Pred = 0.000209342 0.997866 0.00082678 0.000947898 2.48599e-06
9.65518e-05 4.74184e-05 3.09243e-06
Year 9 Obs = 0.338025 0.646259 0.0157166 0 0 0 0
Year 9 Pred = 0.000443382 0.98194 0.0167892 0.000261639 7.56678e-06
0.000524537 2.64379e-05 6.93793e-06
Year 10 Obs = 0.206489 0.793511 0 0 0 0 0
Year 10 Pred = 0.000236459 0.987086 0.00844164 0.00317419 1.25706e-06
0.000970098 8.62232e-05 4.09322e-06
Year 11 Obs = 0.421841 0.563915 0.0131483 0.00109569 0 0 0 0
Year 11 Pred = 0.00200426 0.981212 0.0137136 0.00252176 2.42618e-05
0.000256854 0.000255739 1.14495e-05
Year 12 Obs = 0.378133 0.556484 0.06502 0.00036324 0 0 0 0
Year 12 Pred = 0.000204483 0.998377 0.000826326 0.000261645 1.23798e-06
0.000323236 4.36624e-06 2.17349e-06
Year 13 Obs = 0.205618 0.603889 0.17753 0.0129636 0 0 0 0
Year 13 Pred = 0.000387902 0.980015 0.0188471 0.000313482 2.53518e-06
0.000322585 0.000109432 2.08564e-06
Year 14 Obs = 0.181467 0.525097 0.265122 0.028314 0 0 0 0
Year 14 Pred = 0.000311709 0.990543 0.00681472 0.00209579 9.04353e-07
0.000196413 3.22523e-05 4.82792e-06
Year 15 Obs = 0.0239334 0.663892 0.248699 0.0634755 0 0 0 0
Year 15 Pred = 0.00016907 0.987785 0.0112208 0.000753428 4.49799e-06
5.09349e-05 1.42705e-05 1.64579e-06
Year 16 Obs = 0.0126984 0.395238 0.477778 0.114286 0 0 0 0
Year 16 Pred = 0.000221116 0.97318 0.0229479 0.00299962 4.05565e-06
0.000636332 9.29983e-06 1.64804e-06
Year 17 Obs = 0.047619 0.306878 0.386243 0.259259 0 0 0 0
Year 17 Pred = 0.000285467 0.975337 0.0178167 0.00579522 1.72768e-05
0.000620972 0.000125899 1.39182e-06
Year 18 Obs = 0.0319893 0.407531 0.416861 0.143619 0 0 0 0
Year 18 Pred = 0.000179465 0.978302 0.0150854 0.00395378 2.9564e-05
0.00233173 0.00010864 9.34648e-06
Year 19 Obs = 0.0220441 0.164329 0.460922 0.352705 0 0 0 0
Year 19 Pred = 0.000280706 0.965351 0.0218017 0.00523569 3.3107e-05
0.00661056 0.000669097 1.79879e-05
Year 20 Obs = 0.0226337 0.203704 0.218107 0.555556 0 0 0 0
Year 20 Pred = 0.000207783 0.974529 0.0143753 0.0049105 2.77218e-05
0.00468615 0.00120796 5.57092e-05
Year 21 Obs = 0.0247148 0.235741 0.418251 0.321293 0 0 0 0
Year 21 Pred = 0.000238446 0.967198 0.0206566 0.00463688 3.83414e-05
0.0058017 0.00126873 0.000161503
Year 22 Obs = 0.00319489 0.421725 0.408946 0.0894569 0.0399361 0.0159744
0.0159744 0.00479233
Year 22 Pred = 0.000133599 0.966533 0.0182484 0.00615941 3.29444e-05
0.00726735 0.00142127 0.000204064
Year 23 Obs = 0.00369004 0.143911 0.494465 0.195572 0.0811808 0.0332103
0.0258303 0.0221402
Year 23 Pred = 0.00034771 0.945461 0.0307753 0.00921531 7.46157e-05
0.0106738 0.00304233 0.000410062
Year 24 Obs = 0.0162602 0.166667 0.390244 0.211382 0.0894309 0.0528455
0.0406504 0.0325203
Year 24 Pred = 0.000109022 0.971812 0.011511 0.00573423 4.0771e-05
0.00884274 0.00163718 0.000313261

Year 25 Obs = 0.0114286 0.14 0.517143 0.148571 0.0828571 0.0457143
0.0314286 0.0228571
Year 25 Pred = 0.000494654 0.936901 0.0370417 0.00644374 7.56565e-05
0.0144068 0.00404822 0.000588527
fleet 4
Year 1 Obs = 0 0 0 0 0 0 0 0
Year 1 Pred = 0.146857 0.0126319 0.75343 0.048907 0.0341455 0.00214567
0.00140842 0.000473514
Year 2 Obs = 0 0 0 0 0 0 0 0
Year 2 Pred = 0.015046 0.542005 0.0489901 0.000496276 1.76376e-05 0.393389
3.2809e-05 2.31855e-05
Year 3 Obs = 0 0 0 0 0 0 0 0
Year 3 Pred = 0.000198711 0.0247048 0.972251 1.48756e-05 8.20274e-08
9.2724e-05 0.00273714 4.14724e-07
Year 4 Obs = 0 0 0 0 0 0 0 0
Year 4 Pred = 0.000495337 0.007746 0.98502 0.00654583 5.4447e-08 9.54129e-06
1.42675e-05 0.000168787
Year 5 Obs = 0 0 0 0 0 0 0 0
Year 5 Pred = 0.00279457 0.0700437 0.907706 0.0192102 6.94848e-05 1.83776e-
05 4.26111e-06 0.000153532
Year 6 Obs = 0 0 0 0 0 0 0 0
Year 6 Pred = 0.000159347 0.0409869 0.953952 0.00207838 2.4078e-05 0.0027816
9.76226e-07 1.647e-05
Year 7 Obs = 0 0 0 0 0 0 0 0
Year 7 Pred = 0.000636627 0.00368718 0.989783 0.00390358 4.64914e-06
0.00171816 0.000263171 3.16368e-06
Year 8 Obs = 0 0 0 0 0 0 0 0
Year 8 Pred = 0.00316241 0.215504 0.744609 0.0325797 7.03985e-05 0.00267496
0.00131372 8.56757e-05
Year 9 Obs = 0 0 0 0 0 0 0 0
Year 9 Pred = 0.000435949 0.0138027 0.984156 0.000585306 1.39467e-05
0.000945865 4.76739e-05 1.25108e-05
Year 10 Obs = 0 0 0 0 0 0 0 0
Year 10 Pred = 0.000448867 0.0267879 0.955358 0.0137094 4.47321e-06
0.00337733 0.00030018 1.42503e-05
Year 11 Obs = 0 0 0 0 0 0 0 0
Year 11 Pred = 0.00238502 0.0166926 0.972897 0.00682757 5.41209e-05
0.000560559 0.000558126 2.49875e-05
Year 12 Obs = 0 0 0 0 0 0 0 0
Year 12 Pred = 0.00314861 0.219775 0.758562 0.00916639 3.57338e-05
0.00912806 0.000123301 6.13784e-05
Year 13 Obs = 0 0.604376 0.362808 0.0328168 0 0 0 0
Year 13 Pred = 0.000340402 0.0122949 0.986036 0.000625903 4.17043e-06
0.000519171 0.000176121 3.35665e-06
Year 14 Obs = 0 0.404255 0.524823 0.070922 0 0 0 0
Year 14 Pred = 0.000731795 0.0332457 0.953818 0.0111947 3.97998e-06
0.000845681 0.000138866 2.07873e-05
Year 15 Obs = 0 0.741611 0.241611 0.0167785 0 0 0 0
Year 15 Pred = 0.000246783 0.0206126 0.976447 0.00250216 1.23075e-05
0.000136352 3.82019e-05 4.40576e-06
Year 16 Obs = 0 0.220779 0.636364 0.142857 0 0 0 0
Year 16 Pred = 0.000159047 0.0100074 0.984065 0.00490902 5.46849e-06
0.00083943 1.22681e-05 2.17405e-06
Year 17 Obs = 0.00595238 0.25 0.434524 0.309524 0 0 0 0
Year 17 Pred = 0.000261653 0.0127804 0.973585 0.0120854 2.96847e-05
0.00104385 0.000211635 2.33963e-06
Year 18 Obs = 0.00208333 0.133333 0.497917 0.366667 0 0 0 0

Year 18 Pred = 0.000193583 0.0150863 0.970111 0.0097034 5.97796e-05
0.00461278 0.000214919 1.84898e-05
Year 19 Obs = 0.0111732 0.256983 0.458101 0.273743 0 0 0 0
Year 19 Pred = 0.000209606 0.0103052 0.97055 0.00889506 4.63417e-05
0.00905285 0.000916297 2.46336e-05
Year 20 Obs = 0 0.0634146 0.243902 0.692683 0 0 0 0
Year 20 Pred = 0.000232602 0.0155962 0.959391 0.0125069 5.81736e-05
0.00962088 0.00248 0.000114373
Year 21 Obs = 0.00564972 0.169492 0.468927 0.355932 0 0 0 0
Year 21 Pred = 0.000187833 0.0108923 0.970105 0.0083106 5.66178e-05
0.00838174 0.00183295 0.000233323
Year 22 Obs = 0 0.387387 0.432432 0.117117 0.036036 0.00900901 0.00900901
0.00900901
Year 22 Pred = 0.000117992 0.0122036 0.960843 0.0123769 5.45423e-05
0.0117712 0.00230208 0.000330532
Year 23 Obs = 0 0.133333 0.609524 0.180952 0.047619 0.0190476 0.00952381 0
Year 23 Pred = 0.000183426 0.00713031 0.967885 0.0110606 7.37864e-05
0.0103267 0.00294338 0.000396724
Year 24 Obs = 0 0.08 0.52 0.24 0.08 0.04 0.02 0.02
Year 24 Pred = 0.000148697 0.0189493 0.936005 0.0177946 0.000104242
0.0221194 0.00409526 0.000783595
Year 25 Obs = 0 0.0887097 0.637097 0.169355 0.0564516 0.0241935 0.016129
0.00806452
Year 25 Pred = 0.000217721 0.00589539 0.971999 0.00645297 6.24232e-05
0.0116295 0.00326782 0.000475074
fleet 5
Year 1 Obs = 0.177729 0.545789 0.226071 0.0362567 0.0138952 0 0.000258515 0
Year 1 Pred = 0.914206 0.00103718 0.000482371 0.00141776 0.0827949 1.37373e-
05 1.80343e-05 3.03159e-05
Year 2 Obs = 0.10964 0.553058 0.237093 0.0638217 0.0251476 0.0104782 0
0.00076205
Year 2 Pred = 0.665339 0.316128 0.000222802 0.000102195 0.000303797
0.0178909 2.98424e-06 1.05445e-05
Year 3 Obs = 0.130587 0.526352 0.276452 0.0579113 0.00841202 0.000286123 0
0
Year 3 Pred = 0.315221 0.516908 0.158622 0.000109889 5.06845e-05 0.000151278
0.00893124 6.76618e-06
Year 4 Obs = 0.0905476 0.452015 0.395988 0.0427435 0.0133743 0.00533165 0 0
Year 4 Pred = 0.677532 0.139748 0.138568 0.0416944 2.90086e-05 1.34223e-05
4.0142e-05 0.00237443
Year 5 Obs = 0.100594 0.551416 0.239566 0.0936236 0.0111006 0.00129077
0.00240943 0
Year 5 Pred = 0.711101 0.235085 0.0237548 0.0227631 0.00688699 4.80945e-06
2.23029e-06 0.000401796
Year 6 Obs = 0.059377 0.595041 0.263954 0.0569612 0.0231405 0.000127146
0.000635728 0.000762873
Year 6 Pred = 0.194288 0.659154 0.119624 0.0118008 0.0114353 0.0034881
2.44835e-06 0.000206532
Year 7 Obs = 0.0430723 0.576506 0.33243 0.0388554 0.00883534 0.000301205 0
0
Year 7 Pred = 0.786556 0.0600866 0.125769 0.0224591 0.00223738 0.00218322
0.000668809 4.02002e-05
Year 8 Obs = 0.042516 0.313337 0.552126 0.0786255 0.00931858 0.00116482
0.00291206 0
Year 8 Pred = 0.504619 0.453566 0.0122198 0.024209 0.00437555 0.00043899
0.000431192 0.000140603
Year 9 Obs = 0.0930416 0.7301 0.139431 0.0311017 0.0060622 0 0.000263574 0

Year 9 Pred = 0.598355 0.249877 0.138924 0.00374103 0.00745619 0.00133519
 0.000134594 0.000176603
 Year 10 Obs = 0.0141727 0.59443 0.371622 0.0130191 0.00659196 0.000164799 0
 0
 Year 10 Pred = 0.46262 0.364153 0.101266 0.0657976 0.00179576 0.0035799
 0.000636369 0.00015105
 Year 11 Obs = 0.0165934 0.639544 0.320472 0.0179928 0 0.00539784 0 0
 Year 11 Pred = 0.864104 0.0797693 0.0362518 0.0115192 0.00763768 0.000208874
 0.000415936 9.31079e-05
 Year 12 Obs = 0.0121651 0.60502 0.357715 0.0244841 0.000307977 0.000307977
 0 0
 Year 12 Pred = 0.508472 0.468129 0.0125988 0.00689336 0.00224776 0.00151606
 4.09576e-05 0.000101942
 Year 13 Obs = 0.117858 0.596449 0.253319 0.0274504 0.00417723 0.000149187
 0.000596748 0
 Year 13 Pred = 0.55854 0.266088 0.166397 0.00478248 0.00266542 0.000876118
 0.000594422 5.66446e-05
 Year 14 Obs = 0.0694528 0.453999 0.428743 0.0348767 0.0078172 0.00481058
 0.000300661 0
 Year 14 Pred = 0.0558895 0.389637 0.329018 0.21333 0.00643599 0.00361426
 0.00118704 0.00088846
 Year 15 Obs = 0.0165785 0.419465 0.495641 0.0505931 0.017579 0.000142918 0
 0
 Year 15 Pred = 0.0283026 0.362767 0.505793 0.071602 0.0298865 0.000875072
 0.00049037 0.000282769
 Year 16 Obs = 0.000558114 0.160179 0.584345 0.204409 0.0382308 0.0122785 0
 0
 Year 16 Pred = 0.0211229 0.203953 0.590289 0.162675 0.0153776 0.00623855
 0.000182361 0.000161584
 Year 17 Obs = 0 0.110044 0.417682 0.388881 0.0737928 0.00902708 0.000573148
 0
 Year 17 Pred = 0.0252862 0.189534 0.424957 0.29142 0.0607416 0.00564504
 0.00228915 0.000126533
 Year 18 Obs = 0 0.0489408 0.482591 0.3701 0.0791332 0.0146092 0.00462625 0
 Year 18 Pred = 0.0178094 0.212984 0.403103 0.222743 0.116447 0.0237474
 0.00221301 0.000951951
 Year 19 Obs = 0 0.0740931 0.528266 0.292783 0.0824253 0.0217921 0.000640943
 0
 Year 19 Pred = 0.0209643 0.158168 0.438438 0.221986 0.0981395 0.0506681
 0.0102575 0.00137881
 Year 20 Obs = 0 0.158292 0.373064 0.336419 0.101813 0.0228561 0.00680015
 0.000755572
 Year 20 Pred = 0.019079 0.196311 0.355427 0.255972 0.101033 0.04416
 0.0227679 0.0052501
 Year 21 Obs = 0.00030656 0.0594727 0.406806 0.369099 0.129062 0.0282036
 0.00613121 0.000919681
 Year 21 Pred = 0.0182043 0.161996 0.42465 0.20097 0.116184 0.0454575
 0.0198828 0.0126549
 Year 22 Obs = 0 0.0519851 0.367186 0.384075 0.142136 0.0375082 0.0135995
 0.00350954
 Year 22 Pred = 0.0101065 0.160405 0.371717 0.26452 0.0989178 0.0564209
 0.0220697 0.0158438
 Year 23 Obs = 0.00526662 0.0467413 0.341014 0.377441 0.14944 0.0482774
 0.0263331 0.00548607
 Year 23 Pred = 0.016524 0.09857 0.393812 0.248616 0.140742 0.0520576
 0.0296775 0.0200005

Year 24 Obs = 0.000729927 0.0447689 0.291241 0.374453 0.183698 0.0579075
0.0240876 0.0231144
Year 24 Pred = 0.00925537 0.180995 0.263137 0.276362 0.137381 0.0770434
0.0285299 0.027295
Year 25 Obs = 0.000987167 0.017769 0.34847 0.325518 0.179911 0.078233
0.0333169 0.0157947
Year 25 Pred = 0.0223836 0.0930094 0.451346 0.165535 0.135885 0.0669058
0.0376025 0.0273333
fleet 6
Year 1 Obs = 0.212871 0.787129 0 0 0 0 0
Year 1 Pred = 0.686457 0.0117566 0.00443128 0.00843459 0.288861 2.62378e-05
1.80851e-05 1.55953e-05
Year 2 Obs = 0.158085 0.841915 0 0 0 0 0
Year 2 Pred = 0.121235 0.869569 0.000496687 0.000147538 0.000257208
0.00829231 7.26225e-07 1.31634e-06
Year 3 Obs = 0.170732 0.829268 0 0 0 0 0
Year 3 Pred = 0.0312955 0.774704 0.192667 8.64395e-05 2.33807e-05 3.82032e-05
0.00118421 4.60218e-07
Year 4 Obs = 0.162602 0.837398 0 0 0 0 0
Year 4 Pred = 0.140724 0.438166 0.352112 0.0686132 2.79949e-05 7.09123e-06
1.11349e-05 0.000337871
Year 5 Obs = 0.109729 0.890271 0 0 0 0 0
Year 5 Pred = 0.149292 0.74505 0.0610148 0.0378641 0.00671815 2.56836e-06
6.25341e-07 5.77915e-05
Year 6 Obs = 0.0805471 0.919453 0 0 0 0 0
Year 6 Pred = 0.0165156 0.845846 0.124408 0.00794789 0.00451659 0.000754212
2.77954e-07 1.20279e-05
Year 7 Obs = 0.0763889 0.923611 0 0 0 0 0
Year 7 Pred = 0.229509 0.264669 0.448977 0.0519223 0.00303337 0.00162041
0.00026063 8.03622e-06
Year 8 Obs = 0.135417 0.864583 0 0 0 0 0
Year 8 Pred = 0.0654078 0.887485 0.019378 0.0248619 0.0026352 0.000144736
7.46428e-05 1.24857e-05
Year 9 Obs = 0.113208 0.886792 0 0 0 0 0
Year 9 Pred = 0.0974827 0.61454 0.276901 0.00482893 0.00564418 0.00055331
2.9285e-05 1.97115e-05
Year 10 Obs = 0.023976 0.976024 0 0 0 0 0
Year 10 Pred = 0.0597822 0.710373 0.160099 0.0673672 0.00107823 0.00117672
0.000109827 1.33728e-05
Year 11 Obs = 0.024602 0.975398 0 0 0 0 0
Year 11 Pred = 0.327349 0.45618 0.168017 0.0345748 0.0134438 0.000201273
0.000210437 2.41649e-05
Year 12 Obs = 0.0191657 0.980834 0 0 0 0 0
Year 12 Pred = 0.065202 0.90618 0.0197652 0.00700351 0.00133924 0.000494501
7.01423e-06 8.95573e-06
Year 13 Obs = 0.175182 0.824818 0 0 0 0 0
Year 13 Pred = 0.0838092 0.602723 0.305464 0.00568567 0.00185831 0.000334392
0.00011912 5.82303e-06
Year 14 Obs = 0.139278 0.860722 0 0 0 0 0
Year 14 Pred = 0.110493 0.659763 0.187129 0.0421992 0.0003611 5.08835e-05
4.0436e-06 7.25598e-07
Year 15 Obs = 0.0384911 0.961509 0 0 0 0 0
Year 15 Pred = 0.0574625 0.630829 0.295427 0.0145456 0.00172204 1.26519e-05
1.71546e-06 2.37162e-07
Year 16 Obs = 0.0172786 0.590353 0.37581 0.0165587 0 0 0
Year 16 Pred = 0.05524 0.456832 0.444103 0.0425668 0.0011413 0.000116182
8.21735e-07 1.74563e-07

Year 17 Obs = 0 0.403892 0.51592 0.0801887 0 0 0 0
 Year 17 Pred = 0.0741962 0.476332 0.358725 0.085559 0.00505817 0.000117956
 1.15737e-05 1.53376e-07
 Year 18 Obs = 0.0471116 0.32922 0.553561 0.0701066 0 0 0 0
 Year 18 Pred = 0.0520802 0.533452 0.339123 0.0651742 0.00966409 0.000494531
 1.11508e-05 1.14998e-06
 Year 19 Obs = 0 0.314914 0.588519 0.0965665 0 0 0 0
 Year 19 Pred = 0.0680786 0.43992 0.409597 0.072128 0.00904449 0.00117171
 5.73947e-05 1.84966e-06
 Year 20 Obs = 0 0.524324 0.369231 0.0993763 0.00706861 0 0 0
 Year 20 Pred = 0.0599393 0.528234 0.321237 0.0804633 0.00900801 0.000987963
 0.000123248 6.81365e-06
 Year 21 Obs = 0.0533049 0.401564 0.404407 0.140725 0 0 0 0
 Year 21 Pred = 0.0601023 0.458086 0.403337 0.0663894 0.0108862 0.00106876
 0.000113109 1.72597e-05
 Year 22 Obs = 0.0298598 0.478367 0.365021 0.118221 0.00853138 0 0 0
 Year 22 Pred = 0.0355673 0.483497 0.376341 0.0931445 0.00987949 0.00141399
 0.000133828 2.30338e-05
 Year 23 Obs = 0.0499706 0.298648 0.466784 0.180482 0.00411523 0 0 0
 Year 23 Pred = 0.0678482 0.346652 0.465192 0.102141 0.0164005 0.00152217
 0.000209967 3.39251e-05
 Year 24 Obs = 0.109767 0.498271 0.31936 0.0691443 0.00345722 0 0 0
 Year 24 Pred = 0.0340098 0.569644 0.278171 0.10161 0.0143268 0.00201605
 0.000180639 4.14332e-05
 Year 25 Obs = 0.0883694 0.314709 0.505701 0.0826682 0.00741163 0.00114025 0
 0
 Year 25 Pred = 0.0885205 0.31504 0.513502 0.0655016 0.0152509 0.00188423
 0.00025623 4.4654e-05

Proportions of Discards at age by fleet

fleet 1
 Year 1 Obs = 0 0 0 0 0 0 0 0
 Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 2 Obs = 0 0 0 0 0 0 0 0
 Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 3 Obs = 0 0 0 0 0 0 0 0
 Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 4 Obs = 0 0 0 0 0 0 0 0
 Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 5 Obs = 0 0 0 0 0 0 0 0
 Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 6 Obs = 0 0 0 0 0 0 0 0
 Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 7 Obs = 0 0 0 0 0 0 0 0
 Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 8 Obs = 0 0 0 0 0 0 0 0
 Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 9 Obs = 0 0 0 0 0 0 0 0
 Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 10 Obs = 0 0 0 0 0 0 0 0
 Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 11 Obs = 0 0 0 0 0 0 0 0
 Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 12 Obs = 0 0 0 0 0 0 0 0
 Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 13 Obs = 0 0 0 0 0 0 0 0
 Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15


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Year 17 Obs = 0 0 0 0 0 0 0 0
Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 18 Obs = 0 0 0 0 0 0 0 0
Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 19 Obs = 0 0 0 0 0 0 0 0
Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 20 Obs = 0 0 0 0 0 0 0 0
Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 21 Obs = 0 0 0 0 0 0 0 0
Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 22 Obs = 0 0 0 0 0 0 0 0
Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 23 Obs = 0 0 0 0 0 0 0 0
Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 24 Obs = 0 0 0 0 0 0 0 0
Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 25 Obs = 0 0 0 0 0 0 0 0
Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
fleet 3
Year 1 Obs = 0 0 0 0 0 0 0 0
Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 2 Obs = 0 0 0 0 0 0 0 0
Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 3 Obs = 0 0 0 0 0 0 0 0
Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 4 Obs = 0 0 0 0 0 0 0 0
Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 5 Obs = 0 0 0 0 0 0 0 0
Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 6 Obs = 0 0 0 0 0 0 0 0
Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 7 Obs = 0 0 0 0 0 0 0 0
Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 8 Obs = 0 0 0 0 0 0 0 0
Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 9 Obs = 0 0 0 0 0 0 0 0
Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 10 Obs = 0 0 0 0 0 0 0 0
Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 11 Obs = 0 0 0 0 0 0 0 0
Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 12 Obs = 0 0 0 0 0 0 0 0
Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 13 Obs = 0 0 0 0 0 0 0 0
Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 14 Obs = 0 0 0 0 0 0 0 0
Year 14 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 15 Obs = 0 0 0 0 0 0 0 0
Year 15 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 16 Obs = 0 0 0 0 0 0 0 0
Year 16 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 17 Obs = 0 0 0 0 0 0 0 0
Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 18 Obs = 0 0 0 0 0 0 0 0
Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 19 Obs = 0 0 0 0 0 0 0 0
Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15

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Year 20 Obs = 0 0 0 0 0 0 0 0
Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 21 Obs = 0 0 0 0 0 0 0 0
Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 22 Obs = 0 0 0 0 0 0 0 0
Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 23 Obs = 0 0 0 0 0 0 0 0
Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 24 Obs = 0 0 0 0 0 0 0 0
Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 25 Obs = 0 0 0 0 0 0 0 0
Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
fleet 4
Year 1 Obs = 0 0 0 0 0 0 0 0
Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 2 Obs = 0 0 0 0 0 0 0 0
Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 3 Obs = 0 0 0 0 0 0 0 0
Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 4 Obs = 0 0 0 0 0 0 0 0
Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 5 Obs = 0 0 0 0 0 0 0 0
Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 6 Obs = 0 0 0 0 0 0 0 0
Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 7 Obs = 0 0 0 0 0 0 0 0
Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 8 Obs = 0 0 0 0 0 0 0 0
Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 9 Obs = 0 0 0 0 0 0 0 0
Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 10 Obs = 0 0 0 0 0 0 0 0
Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 11 Obs = 0 0 0 0 0 0 0 0
Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 12 Obs = 0 0 0 0 0 0 0 0
Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 13 Obs = 0 0 0 0 0 0 0 0
Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 14 Obs = 0 0 0 0 0 0 0 0
Year 14 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 15 Obs = 0 0 0 0 0 0 0 0
Year 15 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 16 Obs = 0 0 0 0 0 0 0 0
Year 16 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 17 Obs = 0 0 0 0 0 0 0 0
Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 18 Obs = 0 0 0 0 0 0 0 0
Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 19 Obs = 0 0 0 0 0 0 0 0
Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 20 Obs = 0 0 0 0 0 0 0 0
Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 21 Obs = 0 0 0 0 0 0 0 0
Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 22 Obs = 0 0 0 0 0 0 0 0
Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15

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Year 23 Obs = 0 0 0 0 0 0 0 0
Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 24 Obs = 0 0 0 0 0 0 0 0
Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 25 Obs = 0 0 0 0 0 0 0 0
Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
fleet 5
Year 1 Obs = 0 0 0 0 0 0 0 0
Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 2 Obs = 0 0 0 0 0 0 0 0
Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 3 Obs = 0 0 0 0 0 0 0 0
Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 4 Obs = 0 0 0 0 0 0 0 0
Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 5 Obs = 0 0 0 0 0 0 0 0
Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 6 Obs = 0 0 0 0 0 0 0 0
Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 7 Obs = 0 0 0 0 0 0 0 0
Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 8 Obs = 0 0 0 0 0 0 0 0
Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 9 Obs = 0 0 0 0 0 0 0 0
Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 10 Obs = 0 0 0 0 0 0 0 0
Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 11 Obs = 0 0 0 0 0 0 0 0
Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 12 Obs = 0 0 0 0 0 0 0 0
Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 13 Obs = 0 0 0 0 0 0 0 0
Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 14 Obs = 0 0 0 0 0 0 0 0
Year 14 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 15 Obs = 0 0 0 0 0 0 0 0
Year 15 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 16 Obs = 0 0 0 0 0 0 0 0
Year 16 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 17 Obs = 0 0 0 0 0 0 0 0
Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 18 Obs = 0 0 0 0 0 0 0 0
Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 19 Obs = 0 0 0 0 0 0 0 0
Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 20 Obs = 0 0 0 0 0 0 0 0
Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 21 Obs = 0 0 0 0 0 0 0 0
Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 22 Obs = 0 0 0 0 0 0 0 0
Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 23 Obs = 0 0 0 0 0 0 0 0
Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 24 Obs = 0 0 0 0 0 0 0 0
Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 25 Obs = 0 0 0 0 0 0 0 0
Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15

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```

fleet 6
Year 1 Obs = 0 0 0 0 0 0 0 0
Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 2 Obs = 0 0 0 0 0 0 0 0
Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 3 Obs = 0 0 0 0 0 0 0 0
Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 4 Obs = 0 0 0 0 0 0 0 0
Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 5 Obs = 0 0 0 0 0 0 0 0
Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 6 Obs = 0 0 0 0 0 0 0 0
Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 7 Obs = 0 0 0 0 0 0 0 0
Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 8 Obs = 0 0 0 0 0 0 0 0
Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 9 Obs = 0 0 0 0 0 0 0 0
Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 10 Obs = 0 0 0 0 0 0 0 0
Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 11 Obs = 0 0 0 0 0 0 0 0
Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 12 Obs = 0 0 0 0 0 0 0 0
Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 13 Obs = 0 0 0 0 0 0 0 0
Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 14 Obs = 0 0 0 0 0 0 0 0
Year 14 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 15 Obs = 0 0 0 0 0 0 0 0
Year 15 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 16 Obs = 0 0 0 0 0 0 0 0
Year 16 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 17 Obs = 0 0 0 0 0 0 0 0
Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 18 Obs = 0 0 0 0 0 0 0 0
Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 19 Obs = 0 0 0 0 0 0 0 0
Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 20 Obs = 0 0 0 0 0 0 0 0
Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 21 Obs = 0 0 0 0 0 0 0 0
Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 22 Obs = 0 0 0 0 0 0 0 0
Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 23 Obs = 0 0 0 0 0 0 0 0
Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 24 Obs = 0 0 0 0 0 0 0 0
Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 25 Obs = 0 0 0 0 0 0 0 0
Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15

```

F Reference Points Using Final Year Selectivity and Freport options

refpt	F	slope to plot on SRR
F0.1	0.152881	0.319245
Fmax	0.279128	0.516866
F30%SPR	0.229528	0.436022

F40%SPR 0.158236 0.327007
 Fmsy 0.186241 0.368634 SSBmsy 6.51841e+25 MSY
 1.14189e+25
 Fcurrent 0.549344 0.981741

Stock-Recruitment Relationship Parameters

alpha = 2.93159e+25
 beta = 1.43419e+25
 unexpl = 2.23067e+26
 steepness = 0.805387

Spawning Stock, Obs Recruits(year+1), Pred Recruits(year+1), standardized residual

Year	Spawning Stock	Obs Recruits	Pred Recruits	Standardized Residual
init	xxxx	97062.2	15698.8	3.85656
1982	15299.5	103590	31273.5	2.53539
1983	20232.5	29010.2	41356.9	-0.750651
1984	17910.5	56267.3	36610.4	0.909817
1985	12866.4	78406	26299.9	2.3124
1986	14397.4	10996.4	29429.5	-2.08397
1987	12863.5	50266.8	26294	1.37179
1988	7234.02	22469	14786.9	0.885709
1989	7950.32	29309.9	16251.1	1.2485
1990	9597.1	18141.7	19617.2	-0.165538
1991	6721.31	56335.6	13738.9	2.9872
1992	6674.25	32501.5	13642.7	1.83768
1993	11836.1	37381.4	24193.9	0.921021
1994	14637.2	41145.4	29919.6	0.674452
1995	18578.8	29040.8	37976.5	-0.567898
1996	20634.6	27793.1	42178.8	-0.883041
1997	21338.4	34351	43617.4	-0.505576
1998	23304.3	25643.4	47635.8	-1.31102
1999	24300.2	30997	49671.5	-0.998224
2000	25984.9	28222.5	53115.3	-1.33864
2001	30300	30073.3	61935.6	-1.5294
2002	33479	17902	68433.7	-2.83872
2003	35553.7	28339.4	72674.7	-1.9936
2004	31562.3	13577.9	64515.8	-3.29917
2005	27021.8	30243.3	55234.7	-1.27507
2006	24936	xxxx	50971.2	

Root Mean Square Error computed from Standardized Residuals

Component	#resids	RMSE
_Catch_Fleet_1	25	0.725723
_Catch_Fleet_2	25	0.227321
_Catch_Fleet_3	25	3.18695
_Catch_Fleet_4	25	2.11043
_Catch_Fleet_5	25	0.287387
_Catch_Fleet_6	25	0.0438207
Catch_Fleet_Total	150	1.59548
_Discard_Fleet_1	0	0
_Discard_Fleet_2	0	0
_Discard_Fleet_3	0	0
_Discard_Fleet_4	0	0
_Discard_Fleet_5	0	0
_Discard_Fleet_6	0	0
Discard_Fleet_Total	0	0
_Index_1	15	2.63899
_Index_2	15	2.75352

_Index_3	15	2.90266
_Index_4	15	2.97054
_Index_5	14	1.71904
_Index_6	25	3.77745
_Index_7	25	4.51911
_Index_8	24	4.55728
_Index_9	20	5.06911
_Index_10	15	1.98099
_Index_11	24	2.55692
_Index_12	24	3.02387
_Index_13	22	2.9767
_Index_14	25	3.51974
_Index_15	25	3.28889
_Index_16	24	3.36338
_Index_17	22	3.94782
_Index_18	23	1.51235
_Index_19	23	2.29602
_Index_20	22	2.98137
_Index_21	22	2.14156
_Index_22	22	1.5502
_Index_23	22	2.35926
_Index_24	22	1.48266
_Index_25	25	3.42895
_Index_26	20	3.75802
_Index_27	17	1.62819
_Index_28	17	1.76583
_Index_29	19	1.45328
_Index_30	19	1.77833
_Index_31	16	1.68215
_Index_32	15	1.76458
_Index_33	19	2.02468
_Index_34	25	1.09348
_Index_35	25	1.37439
_Index_36	19	1.49039
_Index_37	25	1.33349
_Index_38	21	1.98413
_Index_39	15	1.64904
Index_Total	802	2.76882
Nyear1	7	4.12008
Fmult_Year1	6	8.9986
_Fmult_devs_Fleet_1	0	0
_Fmult_devs_Fleet_2	0	0
_Fmult_devs_Fleet_3	0	0
_Fmult_devs_Fleet_4	0	0
_Fmult_devs_Fleet_5	0	0
_Fmult_devs_Fleet_6	0	0
Fmult_devs_Total	0	0
Recruit_devs	0	0
Fleet_Sel_params	32	6.12623
Index_Sel_params	0	0
q_year1	0	0
q_devs	0	0
SRR_steepness	0	0
SRR_unexpl_S	0	0

Projections not requested

that's all

ASAP ALTERNATIVE RUN (F08 SVAge comp.REP)

Age Structured Assessment Program (ASAP) Version 2.0
Start time for run: Fri Mar 28 11:36:11 2008

obj_fun = 28952.5

Component	Lambda	obj_fun
__Catch_Fleet_1	10	2064.51
Catch_Fleet_Total	10	2064.51
Discard_Fleet_Total	0	0
__Index_Fit_1	1	92.1493
__Index_Fit_2	1	46.612
__Index_Fit_3	1	35.2325
__Index_Fit_4	1	114.635
__Index_Fit_5	1	161.785
__Index_Fit_6	1	6.96195
__Index_Fit_7	1	33.4007
__Index_Fit_8	1	41.3422
__Index_Fit_9	1	29.1583
__Index_Fit_10	1	47.2661
__Index_Fit_11	1	14.3711
__Index_Fit_12	1	79.8653
__Index_Fit_13	1	27.0557
Index_Fit_Total	13	729.835
Catch_Age_Comps	see_below	374.972
Discard_Age_Comps	see_below	0
Survey_Age_Comps	see_below	25688.1
__Sel_Param_1	1	0.865894
__Sel_Param_2	1	3.68963
__Sel_Param_3	1	1.0393
__Sel_Param_4	1	2.34366
Sel_Params_Total	4	7.93848
__Index_Sel_Param_1	1	0.943825
__Index_Sel_Param_2	1	1.1233
__Index_Sel_Param_3	1	0.907767
__Index_Sel_Param_4	1	1.99006
__Index_Sel_Param_5	1	0.199202
__Index_Sel_Param_6	1	6.51157
__Index_Sel_Param_9	1	0.461552
__Index_Sel_Param_10	1	0.168969
__Index_Sel_Param_17	1	0.168969
__Index_Sel_Param_18	1	0.486765
__Index_Sel_Param_25	1	0.696264
__Index_Sel_Param_26	1	0.323948
__Index_Sel_Param_27	1	0.168969
__Index_Sel_Param_31	1	0.889978
__Index_Sel_Param_32	1	3.65449
__Index_Sel_Param_35	1	0.168969
__Index_Sel_Param_36	1	0.668816
__Index_Sel_Param_41	1	0.885887
__Index_Sel_Param_42	1	1.93495
__Index_Sel_Param_43	1	2.55251
Index_Sel_Params_Total	20	24.9068
q_year1_Total	0	0
q_devs_Total	130000	0

__Fmult_year1_fleet_1	1	0.658164
Fmult_year1_fleet_Total	1	0.658164
Fmult_devs_fleet_Total	0	0
N_year_1	1	61.573
Recruit_devs	0	0
SRR_steepness	0	0
SRR_unexpl_stock	0	0
Fmult_Max_penalty	1000	0
F_penalty	0	0

Input and Estimated effective sample sizes for fleet 1

1982	31	23.5065
1983	33	24.0389
1984	43	13.3083
1985	379	170.647
1986	39	8.22219
1987	46	22.2347
1988	663	101.747
1989	92	332.309
1990	2270	117.262
1991	58	12.9326
1992	173	79.6955
1993	415	65.9631
1994	106	50.6206
1995	75	39.4668
1996	222	76.4549
1997	267	49.0351
1998	151	177.214
1999	187	281.54
2000	125	223.883
2001	215	203.151
2002	61	54.7536
2003	236	135.97
2004	139	172.464
2005	368	193.59
2006	194	98.8826
Total	6588	2728.89

Input and Estimated effective Discard sample sizes for fleet 1

1982	0	1e+15
1983	0	1e+15
1984	0	1e+15
1985	0	1e+15
1986	0	1e+15
1987	0	1e+15
1988	0	1e+15
1989	0	1e+15
1990	0	1e+15
1991	0	1e+15
1992	0	1e+15
1993	0	1e+15
1994	0	1e+15
1995	0	1e+15
1996	0	1e+15
1997	0	1e+15
1998	0	1e+15
1999	0	1e+15

2000	0	1e+15
2001	0	1e+15
2002	0	1e+15
2003	0	1e+15
2004	0	1e+15
2005	0	1e+15
2006	0	1e+15
Total	0	2.5e+16

Observed and predicted total fleet catch by year and standardized residual
fleet 1 total catches

1982	18963	19195.4	-0.122109
1983	26466	25384.5	0.418271
1984	26057	24981.1	0.422708
1985	20432	19975.4	0.226549
1986	20866	21116.4	-0.119568
1987	18312	18546.2	-0.127383
1988	21761	20876.8	0.41585
1989	10314	9091.06	1.26525
1990	7976	7506.94	0.607599
1991	11316	10926.1	0.351494
1992	11805	12213.1	-0.340726
1993	10781	11630.2	-0.760129
1994	12182	11615.4	0.477441
1995	10495	9694.19	0.795698
1996	11643	12176.9	-0.449456
1997	10325	11128.2	-0.750974
1998	11641	12038.1	-0.336266
1999	10851	11082	-0.211188
2000	13756	14265.1	-0.364303
2001	11932	12220.1	-0.239148
2002	11308	11778.5	-0.40871
2003	12927	13369.7	-0.337545
2004	13832	14125	-0.210103
2005	13444	13611.2	-0.123878
2006	12853	12852.4	0.000429028

Observed and predicted total fleet Discards by year and standardized residual
fleet 1 total Discards

1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0

2001 0 0 0
2002 0 0 0
2003 0 0 0
2004 0 0 0
2005 0 0 0
2006 0 0 0

Index data

index number 1

units = 2

month = 1

starting and ending ages for selectivity = 2 8

selectivity choice = -1

year, obs index, pred index, standardized residual

1992 12.3 7.54009 3.07796
1993 13.6 7.5266 3.72116
1994 12.05 7.94022 2.62358
1995 10.93 9.75436 0.715749
1996 31.25 15.3005 4.49167
1997 10.28 17.1287 -3.21123
1998 7.76 17.7966 -5.22063
1999 11.06 18.139 -3.11172
2000 15.77 18.2803 -0.929082
2001 18.6 17.2825 0.462099
2002 22.68 19.1877 1.05174
2003 35.64 21.965 3.04432
2004 17.77 23.1879 -1.67382
2005 12.89 24.5117 -4.04237
2006 21.06 24.687 -0.999438

index number 2

units = 2

month = 1

starting and ending ages for selectivity = 2 8

selectivity choice = -1

year, obs index, pred index, standardized residual

1982 2.27 1.91575 0.816747
1983 0.95 1.93498 -3.42444
1984 0.66 1.95525 -5.22789
1985 2.38 1.53323 2.11673
1986 2.14 1.3136 2.34926
1987 0.93 1.40755 -1.99492
1988 1.5 1.4356 0.211244
1989 0.32 0.645859 -3.3805
1990 0.72 0.486179 1.89024
1991 1.08 0.748915 1.76227
1992 1.2 0.763812 2.17463
1993 1.27 0.759139 2.47709
1994 0.93 0.804313 0.698939
1995 1.09 0.983287 0.495969
1996 1.76 1.5628 0.572031
1997 1.06 1.75865 -2.4371
1998 1.19 1.79967 -1.9912
1999 1.6 1.82963 -0.645577
2000 2.14 1.84582 0.71187
2001 2.69 1.73105 2.12197
2002 2.47 1.93159 1.18358
2003 2.91 2.20818 1.32851

```

2004  3.03  2.33121  1.26204
2005  1.81  2.43755  -1.43288
2006  1.77  2.48776  -1.63861
index number 3
units = 2
month = 1
starting and ending ages for selectivity = 1 5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  2.5  2.83958  -0.42046
1983  2.89  3.134  -0.267579
1984  2.08  3.09466  -1.31161
1985  1.9  2.32043  -0.659919
1986  1.44  2.56687  -1.90826
1987  0.9  2.50345  -3.37727
1988  0.89  1.90144  -2.50611
1989  0.57  0.889314  -1.46844
1990  0.89  1.12052  -0.760373
1991  1.7  1.45783  0.507342
1992  2.32  1.41421  1.6341
1993  1.07  1.41529  -0.923279
1994  1.53  1.52757  0.00525775
1995  2.4  1.8926  0.784102
1996  1.96  2.29038  -0.514251
1997  2.91  2.16618  0.974491
1998  4.51  2.1654  2.42209
1999  3.78  2.10084  1.93911
2000  3.19  2.01919  1.50973
2001  2.89  2.06634  1.10749
2002  2.55  2.28008  0.369349
2003  2.87  2.3916  0.60198
2004  4.07  2.48299  1.6314
2005  2.49  2.54735  -0.0751662
2006  2.77  2.23649  0.706268
index number 4
units = 2
month = 1
starting and ending ages for selectivity = 3 4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  1.726  1.24583  1.56931
1983  1.049  1.38311  -1.33097
1984  0.145  0.930165  -8.94696
1985  1.296  1.15572  0.551437
1986  0.707  0.607022  0.73393
1987  0.653  0.674727  -0.157559
1988  1.128  0.909554  1.03615
1989  0.465  0.563767  -0.927141
1990  0.102  0.19859  -3.20725
1991  0.062  0.306259  -7.68898
1992  0.432  0.404173  0.320513
1993  0.557  0.374742  1.90782
1994  1.265  0.446179  5.01644
1995  1.355  0.503381  4.76661
1996  0.8  1.00688  -1.10716
1997  1.46  1.46212  -0.0069917
1998  1.871  1.50234  1.05636

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1999  1.99  1.36515  1.81417
2000  2.864  1.46892  3.21411
2001  1.756  1.24145  1.66919
2002  1.908  1.35371  1.65211
2003  2.064  1.62709  1.14496
2004  0.606  1.80873  -5.26384
2005  1.38  1.61231  -0.748946
2006  3.415  1.85697  2.93268
index number 5
units = 2
month = 1
starting and ending ages for selectivity = 3 4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  1.682  1.1546  1.81109
1983  0.779  1.11461  -1.72453
1984  0.394  0.783503  -3.30908
1985  1.935  1.05004  2.94253
1986  0.893  0.481363  2.97472
1987  0.674  0.627016  0.347831
1988  0.435  0.811326  -3.00052
1989  0.333  0.490955  -1.86874
1990  0.011  0.147002  -12.4799
1991  0.294  0.288147  0.0968051
1992  0.186  0.371367  -3.32844
1993  0.508  0.334744  2.00789
1994  0.076  0.401853  -8.01658
1995  0.506  0.440068  0.672034
1996  1.396  0.931751  1.9462
1997  1.859  1.26955  1.83583
1998  0.852  1.141  -1.40596
1999  1.319  1.07479  0.985626
2000  2.797  1.15028  4.27722
2001  1.39  0.926286  1.95379
2002  1.48  1.08518  1.49369
2003  1.51  1.25529  0.889314
2004  1.591  1.38718  0.659915
2005  3.399  1.15449  5.19801
2006  4.304  1.51026  5.04126
index number 6
units = 2
month = 1
starting and ending ages for selectivity = 3 5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1984  0.315  0.418658  -0.738427
1985  0.423  0.494647  -0.406154
1986  0.19  0.253925  -0.752793
1987  0.104  0.291746  -2.67744
1988  0.267  0.377594  -0.89959
1989  0.089  0.237528  -2.54806
1990  0.041  0.0863973  -1.93479
1991  0.246  0.134117  1.5746
1992  0.213  0.167657  0.621342
1993  0.184  0.156116  0.42657
1994  0.357  0.187551  1.6708
1995  0.076  0.21128  -2.65398

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1996  0.375  0.420964  -0.300115
1997  0.6  0.602624  -0.0113271
1998  1.213  0.641634  1.65303
1999  1.117  0.649477  1.40748
2000  1.324  0.680338  1.72827
2001  0.825  0.586594  0.885264
2002  1.962  0.655437  2.84596
2003  1.643  0.749426  2.03755
2004  1.422  0.870724  1.27317
2005  0.447  0.806745  -1.53263
2006  0.493  0.937668  -1.66874
index number 7
units = 2
month = 1
starting and ending ages for selectivity = 1 8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1984  0.999  2.28158  -2.1437
1985  1.191  1.60968  -0.781933
1986  1.719  1.64716  0.110808
1987  1.401  1.70786  -0.514095
1988  1.42  1.53774  -0.206768
1989  0.14  0.633396  -3.91808
1990  0.87  0.649399  0.759102
1991  1.26  0.952706  0.725654
1992  1.02  0.927476  0.246827
1993  1.109  0.933631  0.446805
1994  0.55  0.97366  -1.48252
1995  0.541  1.2111  -2.09179
1996  2.191  1.71041  0.642762
1997  2.5  1.71748  0.97451
1998  1.719  1.71488  0.00622259
1999  2.68  1.72983  1.13637
2000  1.91  1.68011  0.332875
2001  4.417  1.65216  2.55254
2002  6.121  1.84153  3.11777
2003  3.388  2.05019  1.30384
2004  1.954  2.08166  -0.164273
2005  2.41  2.24897  0.179503
2006  1.316  2.11573  -1.23244
index number 8
units = 2
month = 1
starting and ending ages for selectivity = 3 4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.59  0.828087  -0.87993
1983  0.53  0.788703  -1.03182
1984  0.59  0.556906  0.149842
1985  0.3  0.751753  -2.38447
1986  0.64  0.340038  1.64155
1987  0.39  0.44981  -0.370352
1988  0.24  0.579866  -2.28981
1989  0.07  0.350098  -4.17834
1990  0.12  0.103059  0.395037
1991  0.09  0.206938  -2.1612
1992  0.52  0.266142  1.73859

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1993  0.29  0.239277  0.499042
1994  0.03  0.287466 -5.86603
1995  0.2   0.313927 -1.17025
1996  1.04  0.668171  1.14842
1997  0.99  0.905061  0.232841
1998  0.45  0.802239 -1.50073
1999  2.26  0.758655  2.83339
2000  1.69  0.811475  1.90428
2001  0.93  0.64998  0.929889
2002  1.78  0.767453  2.18374
2003  2.57  0.884125  2.76977
2004  2.08  0.976386  1.96303
2005  2.07  0.806251  2.4475
2006  1.57  1.06968  0.996014
index number 9
units = 2
month = 1
starting and ending ages for selectivity = 1 8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1990  0.29  0.27472  0.140505
1991  0.15  0.397241 -2.52797
1992  0.34  0.402362 -0.437131
1993  0.26  0.399074 -1.11216
1994  0.17  0.428745 -2.40118
1995  0.08  0.524055 -4.87879
1996  0.96  0.773908  0.559322
1997  0.73  0.847535 -0.387505
1998  0.43  0.863277 -1.80907
1999  0.9   0.868505  0.0924629
2000  2.61  0.876343  2.83281
2001  0.98  0.832595  0.423112
2002  2.03  0.928122  2.03146
2003  3.78  1.04224  3.34417
2004  2.17  1.10641  1.74848
2005  2.49  1.14161  2.02424
2006  1.32  1.15027  0.357257
index number 10
units = 2
month = 1
starting and ending ages for selectivity = 1 8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1988  4.26  6.23688 -0.989507
1989  1.69  3.64041 -1.99185
1990  2.86  4.60006 -1.2336
1991  3.97  5.46561 -0.82987
1992  4.75  5.43199 -0.348242
1993  8.46  5.3459  1.19148
1994  2.83  6.04261 -1.96899
1995  8.37  7.37571  0.328257
1996  9.69  8.17946  0.439888
1997  16.35 7.95322  1.87059
1998  9.47  8.05435  0.420285
1999  11.44 7.64338  1.04678
2000  7.35  7.79363 -0.152124
2001  5.68  7.95066 -0.872944

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```

2002 16.84 8.77206 1.69287
2003 9.84 8.92621 0.252986
2004 10.66 9.91036 0.189271
2005 11.19 9.42065 0.446761
2006 10.65 8.75713 0.507956
index number 11
units = 2
month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
year, obs index, pred index, standardized residual
1986 0.32 0.321593 -0.0128915
1987 0.26 0.247873 0.123988
1988 0.01 0.0517732 -4.26807
1989 0.14 0.126369 0.265899
1990 0.36 0.188631 1.67763
1991 0.38 0.164607 2.17159
1992 0.37 0.174796 1.94647
1993 0.05 0.16301 -3.06756
1994 0.57 0.214904 2.53196
1995 0.3 0.25164 0.456276
1996 0.08 0.170399 -1.96264
1997 0.22 0.166241 0.727278
1998 0.39 0.172739 2.11384
1999 0.35 0.130116 2.56846
2000 0.21 0.166588 0.601119
2001 0.14 0.179157 -0.640156
2002 0.13 0.194362 -1.04395
2003 0.21 0.143261 0.992688
2004 0.27 0.230624 0.40917
2005 0.01 0.117019 -6.38476
2006 0.17 0.125215 0.793671
index number 12
units = 2
month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
year, obs index, pred index, standardized residual
1982 3.408 12.1543 -3.30058
1983 17.699 19.3591 -0.232713
1984 13.31 7.97112 1.33079
1985 12.843 14.1176 -0.245609
1986 59.526 14.3118 3.69972
1987 7.584 11.031 -0.972531
1988 1.763 2.30405 -0.694743
1989 2.855 5.62376 -1.7597
1990 4.733 8.39461 -1.48741
1991 7.337 7.32547 0.00408205
1992 8.487 7.7789 0.226139
1993 4.145 7.2544 -1.45283
1994 22.311 9.56384 2.19879
1995 13.067 11.1987 0.400496
1996 6.493 7.58322 -0.402886
1997 7.997 7.39821 0.202019
1998 14.983 7.68738 1.7322
1999 8.565 5.79051 1.01612
2000 9.874 7.41364 0.743885

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2001 13.543 7.973 1.37522
2002 5.406 8.64963 -1.22
2003 8.18 6.37553 0.64691
2004 6.993 10.2634 -0.995903
2005 2.198 5.20765 -2.239
2006 9.658 5.57243 1.42752
index number 13
units = 2
month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
year, obs index, pred index, standardized residual
1982 2.27 1.43516 1.19013
1983 5.01 2.28589 2.03679
1984 1.58 0.94122 1.34458
1985 1.26 1.66699 -0.726548
1986 1.26 1.68992 -0.762014
1987 0.39 1.30253 -3.13019
1988 0.54 0.272059 1.77948
1989 1.24 0.664046 1.62105
1990 2.54 0.991224 2.44249
1991 2.64 0.864982 2.89634
1992 0.89 0.918522 -0.0818803
1993 0.5 0.85659 -1.3974
1994 2.41 1.12929 1.96765
1995 0.63 1.32233 -1.92452
1996 0.81 0.895417 -0.260231
1997 0.89 0.873571 0.0483633
1998 0.73 0.907716 -0.565568
1999 0.53 0.683736 -0.66111
2000 0.57 0.875393 -1.11365
2001 0.47 0.941442 -1.80318
2002 0.77 1.02134 -0.733226
2003 0.44 0.752815 -1.394
2004 1.3 1.21189 0.182176
2005 0.35 0.614913 -1.4628
2006 0.8 0.657985 0.507276

```

Input and Estimated effective sample sizes for index 1

```

1992 100 118.621
1993 100 21.273
1994 100 8.3919
1995 100 70.7126
1996 100 3.73205
1997 100 17.5172
1998 100 955.085
1999 100 129.711
2000 100 24.3779
2001 100 41.3227
2002 100 33.9329
2003 100 1118.94
2004 100 49.8274
2005 100 230.662
2006 100 718.924

```

Total 1500 3543.03

Input and Estimated effective sample sizes for index 2

```

1982 200 51.6129

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1983	200	492.46
1984	200	5.42513
1985	200	111.26
1986	200	28.2404
1987	200	107.991
1988	200	131.313
1989	200	39.8793
1990	200	5.71901
1991	200	18.3413
1992	200	19.4127
1993	200	225.433
1994	200	19.172
1995	200	9.31537
1996	200	5.83828
1997	200	106.614
1998	200	2745.17
1999	200	39.8192
2000	200	50.9268
2001	200	34.6435
2002	200	27.118
2003	200	176.445
2004	200	88.7468
2005	200	44.076
2006	200	26.6085
Total	5000	4611.59

Input and Estimated effective sample sizes for index 3

1982	200	22.494
1983	200	39.9825
1984	200	124.415
1985	200	93.8825
1986	200	286.114
1987	200	25.506
1988	200	43.8008
1989	200	4.95657
1990	200	18.8502
1991	200	8.51814
1992	200	14.4996
1993	200	12.6568
1994	200	11.4063
1995	200	37.2978
1996	200	31.7089
1997	200	45.8043
1998	200	25.3096
1999	200	30.619
2000	200	39.2675
2001	200	21.8385
2002	200	21.2653
2003	200	47.0809
2004	200	38.8658
2005	200	401.613
2006	200	222.287

Total 5000 1670.04

Input and Estimated effective sample sizes for index 4

1982	100	107.977
1983	100	34.2916
1984	100	5.83164
1985	100	8.77213

1986	100	19.0612
1987	100	12.5322
1988	100	29.2407
1989	100	34607.8
1990	100	2.45753
1991	100	6.54163
1992	100	17.3549
1993	100	39.7699
1994	100	8.7098
1995	100	5.46338
1996	100	132.138
1997	100	16.7582
1998	100	33.3017
1999	100	7.7066
2000	100	284.199
2001	100	108.154
2002	100	10.4753
2003	100	19.1446
2004	100	20.3479
2005	100	4.99488
2006	100	99.5416
Total	2500	35642.6

Input and Estimated effective sample sizes for index 5

1982	100	26.4813
1983	100	6301.02
1984	100	4.66732
1985	100	22.8855
1986	100	490.263
1987	100	34.8278
1988	100	13.1016
1989	100	20.5499
1990	100	0.433317
1991	100	80.3202
1992	100	14.2691
1993	100	70.9197
1994	100	10.7228
1995	100	7.65234
1996	100	100.16
1997	100	24.4156
1998	100	147.934
1999	100	53.4174
2000	100	52.3684
2001	100	40.2889
2002	100	20.8741
2003	100	27.4651
2004	100	6.28849
2005	100	78.6932
2006	100	39.3887
Total	2500	7689.41

Input and Estimated effective sample sizes for index 6

1984	100	9.13474
1985	100	20.5963
1986	100	22.8604
1987	100	73.253
1988	100	265.783
1989	100	4.79719
1990	100	58.9697

1991	100	13.6972
1992	100	759.943
1993	100	25.6803
1994	100	36.2781
1995	100	18.1394
1996	100	4.18949
1997	100	20.8085
1998	100	95.9122
1999	100	132.763
2000	100	37.8285
2001	100	53.1015
2002	100	49.1044
2003	100	38.8114
2004	100	72.3484
2005	100	10.7314
2006	100	12.4136
Total	2300	1837.14

Input and Estimated effective sample sizes for index 7

1984	100	23.5731
1985	100	24.5881
1986	100	295.131
1987	100	20.4856
1988	100	98.9566
1989	100	17.2652
1990	100	28.0577
1991	100	93.5366
1992	100	44.9739
1993	100	22.3697
1994	100	13.7288
1995	100	47.3238
1996	100	14.6902
1997	100	46.4665
1998	100	6.9553
1999	100	14.1178
2000	100	77.6051
2001	100	10.2087
2002	100	22.811
2003	100	53.259
2004	100	54.7589
2005	100	48.8162
2006	100	132.062
Total	2300	1211.74

Input and Estimated effective sample sizes for index 8

1982	100	11.0587
1983	100	382.381
1984	100	174.553
1985	100	6823.36
1986	100	33599.3
1987	100	29080.3
1988	100	10.4817
1989	100	8.10245
1990	100	2.53957
1991	100	7.14768
1992	100	2.43217
1993	100	3.2546
1994	100	11.7998
1995	100	8.42092

1996	100	26.7721
1997	100	14.6238
1998	100	67.447
1999	100	49.8549
2000	100	76.8843
2001	100	80.2997
2002	100	158.454
2003	100	91.7159
2004	100	10.3535
2005	100	1880.05
2006	100	14.2005

Total 2500 72595.8

Input and Estimated effective sample sizes for index 9

1990	100	61.7963
1991	100	7.81849
1992	100	46.9289
1993	100	25.0137
1994	100	15.7169
1995	100	4.25525
1996	100	42.3328
1997	100	124.66
1998	100	22.7039
1999	100	311.244
2000	100	117.854
2001	100	18.2379
2002	100	21.649
2003	100	21.733
2004	100	79.7948
2005	100	49.0442
2006	100	44.3416

Total 1700 1015.12

Input and Estimated effective sample sizes for index 10

1988	100	15.9629
1989	100	9.63008
1990	100	27.4182
1991	100	9.8401
1992	100	7.73236
1993	100	8.41824
1994	100	19.669
1995	100	16.654
1996	100	40.1803
1997	100	10.6752
1998	100	4.79342
1999	100	11.8347
2000	100	7.16788
2001	100	6.8386
2002	100	7.87276
2003	100	8.6866
2004	100	3.80159
2005	100	11.1216
2006	100	5.62824

Total 1900 233.926

Input and Estimated effective sample sizes for index 11

1986	0	0
1987	0	0
1988	0	0
1989	0	0

1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 12

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 13

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0

1993 0 0
 1994 0 0
 1995 0 0
 1996 0 0
 1997 0 0
 1998 0 0
 1999 0 0
 2000 0 0
 2001 0 0
 2002 0 0
 2003 0 0
 2004 0 0
 2005 0 0
 2006 0 0
 Total 0 0

Survey proportions at age by index

Index number 1

Year 1992 Obs = -1 0.581582 0.385385 0.027027 0.003003 0.001001 0.002002 0
 Year 1992 Pred = -1 0.526066 0.414236 0.0536325 0.00346755 0.00212635
 0.000405328 6.63787e-05
 Year 1993 Obs = -1 0.478 0.493 0.023 0.004 0.001 0.001 0
 Year 1993 Pred = -1 0.56015 0.36281 0.0692043 0.00706614 0.000441028
 0.000269053 5.96403e-05
 Year 1994 Obs = -1 0.311688 0.597403 0.0679321 0.021978 0 0 0.000999001
 Year 1994 Pred = -1 0.499552 0.416628 0.0717824 0.0108515 0.00106977
 6.6426e-05 4.94682e-05
 Year 1995 Obs = -1 0.555 0.42 0.023 0.002 0 0 0
 Year 1995 Pred = -1 0.540384 0.359103 0.0866966 0.0118912 0.00173584
 0.000170247 1.84288e-05
 Year 1996 Obs = -1 0.709 0.267 0.019 0.004 0.001 0 0
 Year 1996 Pred = -1 0.416511 0.515979 0.0592757 0.00718042 0.000908248
 0.00013147 1.42758e-05
 Year 1997 Obs = -1 0.375 0.467 0.101 0.042 0.011 0.004 0
 Year 1997 Pred = -1 0.252928 0.585266 0.151113 0.00947107 0.00106652
 0.000133847 2.14578e-05
 Year 1998 Obs = -1 0.216216 0.419419 0.295295 0.0540541 0.013013 0.001001
 0.001001
 Year 1998 Pred = -1 0.23927 0.420389 0.289355 0.0477964 0.0028274
 0.000316232 4.60082e-05
 Year 1999 Obs = -1 0.191191 0.434434 0.262262 0.0760761 0.025025 0.00500501
 0.00600601
 Year 1999 Pred = -1 0.244192 0.4109 0.22607 0.101867 0.0159164 0.000935299
 0.000119724
 Year 2000 Obs = -1 0.044044 0.413413 0.315315 0.159159 0.049049 0.011011
 0.00800801
 Year 2000 Pred = -1 0.182813 0.432864 0.246545 0.0919479 0.0393207 0.0061045
 0.000404293
 Year 2001 Obs = -1 0.165 0.287 0.345 0.131 0.043 0.02 0.009
 Year 2001 Pred = -1 0.247326 0.341186 0.260826 0.0985928 0.0348261 0.0147959
 0.00244707
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Year 1996 Pred	=	-1	-1	0.884906	0.115094	-1	-1	-1	-1
Year 1997 Obs	=	-1	-1	0.876	0.124	-1	-1	-1	-1
Year 1997 Pred	=	-1	-1	0.773801	0.226199	-1	-1	-1	-1
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Year 2001 Obs	=	-1	-1	0.584	0.416	-1	-1	-1	-1
Year 2001 Pred	=	-1	-1	0.536047	0.463953	-1	-1	-1	-1
Year 2002 Obs	=	-1	-1	0.792	0.208	-1	-1	-1	-1
Year 2002 Pred	=	-1	-1	0.644067	0.355933	-1	-1	-1	-1
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Year 2004 Obs	=	-1	-1	0.467	0.533	-1	-1	-1	-1
Year 2004 Pred	=	-1	-1	0.576537	0.423463	-1	-1	-1	-1
Year 2005 Obs	=	-1	-1	0.254	0.746	-1	-1	-1	-1
Year 2005 Pred	=	-1	-1	0.477495	0.522505	-1	-1	-1	-1
Year 2006 Obs	=	-1	-1	0.714	0.286	-1	-1	-1	-1
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Year 1982 Pred	=	-1	-1	0.942916	0.0570843	-1	-1	-1	-1
Year 1983 Obs	=	-1	-1	0.802	0.198	-1	-1	-1	-1
Year 1983 Pred	=	-1	-1	0.796932	0.203068	-1	-1	-1	-1
Year 1984 Obs	=	-1	-1	0.678	0.322	-1	-1	-1	-1
Year 1984 Pred	=	-1	-1	0.845359	0.154641	-1	-1	-1	-1
Year 1985 Obs	=	-1	-1	0.979	0.021	-1	-1	-1	-1
Year 1985 Pred	=	-1	-1	0.923409	0.0765912	-1	-1	-1	-1
Year 1986 Obs	=	-1	-1	0.76	0.24	-1	-1	-1	-1
Year 1986 Pred	=	-1	-1	0.778747	0.221253	-1	-1	-1	-1
Year 1987 Obs	=	-1	-1	0.984	0.016	-1	-1	-1	-1
Year 1987 Pred	=	-1	-1	0.945552	0.0544476	-1	-1	-1	-1
Year 1988 Obs	=	-1	-1	0.986	0.014	-1	-1	-1	-1
Year 1988 Pred	=	-1	-1	0.904988	0.0950119	-1	-1	-1	-1
Year 1989 Obs	=	-1	-1	0.952	0.048	-1	-1	-1	-1
Year 1989 Pred	=	-1	-1	0.880425	0.119575	-1	-1	-1	-1
Year 1990 Obs	=	-1	-1	0	1	-1	-1	-1	-1
Year 1990 Pred	=	-1	-1	0.697682	0.302318	-1	-1	-1	-1
Year 1991 Obs	=	-1	-1	0.98	0.02	-1	-1	-1	-1
Year 1991 Pred	=	-1	-1	0.957488	0.0425117	-1	-1	-1	-1
Year 1992 Obs	=	-1	-1	1	0	-1	-1	-1	-1
Year 1992 Pred	=	-1	-1	0.934508	0.0654917	-1	-1	-1	-1
Year 1993 Obs	=	-1	-1	0.941	0.059	-1	-1	-1	-1
Year 1993 Pred	=	-1	-1	0.906415	0.0935846	-1	-1	-1	-1
Year 1994 Obs	=	-1	-1	1	0	-1	-1	-1	-1
Year 1994 Pred	=	-1	-1	0.914696	0.0853039	-1	-1	-1	-1
Year 1995 Obs	=	-1	-1	1	0	-1	-1	-1	-1
Year 1995 Pred	=	-1	-1	0.884424	0.115576	-1	-1	-1	-1
Year 1996 Obs	=	-1	-1	0.918	0.082	-1	-1	-1	-1
Year 1996 Pred	=	-1	-1	0.941458	0.0585422	-1	-1	-1	-1
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Year 1998 Obs	=	-1	-1	0.692	0.308	-1	-1	-1	-1
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Year 1999 Obs	=	-1	-1	0.713	0.287	-1	-1	-1	-1
Year 1999 Pred	=	-1	-1	0.770533	0.229467	-1	-1	-1	-1
Year 2000 Obs	=	-1	-1	0.823	0.177	-1	-1	-1	-1
Year 2000 Pred	=	-1	-1	0.764353	0.235647	-1	-1	-1	-1
Year 2001 Obs	=	-1	-1	0.779	0.221	-1	-1	-1	-1
Year 2001 Pred	=	-1	-1	0.707318	0.292682	-1	-1	-1	-1
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Year 2002 Pred	=	-1	-1	0.791008	0.208992	-1	-1	-1	-1
Year 2003 Obs	=	-1	-1	0.83	0.17	-1	-1	-1	-1
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Year 2004 Obs	=	-1	-1	0.915	0.085	-1	-1	-1	-1
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Year 2005 Pred	=	-1	-1	0.656531	0.343469	-1	-1	-1	-1
Year 2006 Obs	=	-1	-1	0.87	0.13	-1	-1	-1	-1
Year 2006 Pred	=	-1	-1	0.807134	0.192866	-1	-1	-1	-1
Index number 6									
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Year 1984 Pred	=	-1	-1	0.671702	0.223603	0.104696	-1	-1	-1
Year 1985 Obs	=	-1	-1	0.768	0.095	0.137	-1	-1	-1
Year 1985 Pred	=	-1	-1	0.832262	0.125621	0.0421177	-1	-1	-1
Year 1986 Obs	=	-1	-1	0.526	0.432	0.042	-1	-1	-1
Year 1986 Pred	=	-1	-1	0.626783	0.324061	0.0491556	-1	-1	-1
Year 1987 Obs	=	-1	-1	0.827	0.135	0.038	-1	-1	-1
Year 1987 Pred	=	-1	-1	0.862806	0.0904114	0.0467827	-1	-1	-1
Year 1988 Obs	=	-1	-1	0.835	0.131	0.034	-1	-1	-1
Year 1988 Pred	=	-1	-1	0.825596	0.157732	0.016672	-1	-1	-1
Year 1989 Obs	=	-1	-1	0.55045	0.26973	0.17982	-1	-1	-1
Year 1989 Pred	=	-1	-1	0.772633	0.190958	0.036408	-1	-1	-1
Year 1990 Obs	=	-1	-1	0.537	0.317	0.146	-1	-1	-1
Year 1990 Pred	=	-1	-1	0.504005	0.397427	0.0985677	-1	-1	-1
Year 1991 Obs	=	-1	-1	0.768	0.118	0.114	-1	-1	-1
Year 1991 Pred	=	-1	-1	0.873407	0.0705682	0.0560243	-1	-1	-1
Year 1992 Obs	=	-1	-1	0.882118	0.0989011	0.018981	-1	-1	-1
Year 1992 Pred	=	-1	-1	0.87886	0.112083	0.00905674	-1	-1	-1
Year 1993 Obs	=	-1	-1	0.82018	0.0819181	0.0979021	-1	-1	-1
Year 1993 Pred	=	-1	-1	0.825177	0.155039	0.0197846	-1	-1	-1
Year 1994 Obs	=	-1	-1	0.88	0.07	0.05	-1	-1	-1
Year 1994 Pred	=	-1	-1	0.832103	0.141217	0.0266805	-1	-1	-1
Year 1995 Obs	=	-1	-1	0.671	0.263	0.066	-1	-1	-1
Year 1995 Pred	=	-1	-1	0.782124	0.185993	0.031883	-1	-1	-1
Year 1996 Obs	=	-1	-1	0.70971	0.229229	0.0610611	-1	-1	-1
Year 1996 Pred	=	-1	-1	0.884729	0.100114	0.0151567	-1	-1	-1
Year 1997 Obs	=	-1	-1	0.845	0.095	0.06	-1	-1	-1
Year 1997 Pred	=	-1	-1	0.784778	0.199588	0.015634	-1	-1	-1
Year 1998 Obs	=	-1	-1	0.48951	0.414585	0.0959041	-1	-1	-1
Year 1998 Pred	=	-1	-1	0.55007	0.372939	0.0769909	-1	-1	-1
Year 1999 Obs	=	-1	-1	0.531	0.345	0.124	-1	-1	-1
Year 1999 Pred	=	-1	-1	0.541382	0.293393	0.165225	-1	-1	-1
Year 2000 Obs	=	-1	-1	0.548	0.396	0.056	-1	-1	-1
Year 2000 Pred	=	-1	-1	0.54869	0.30783	0.143481	-1	-1	-1
Year 2001 Obs	=	-1	-1	0.412412	0.442442	0.145145	-1	-1	-1
Year 2001 Pred	=	-1	-1	0.474216	0.357088	0.168697	-1	-1	-1
Year 2002 Obs	=	-1	-1	0.644	0.237	0.119	-1	-1	-1
Year 2002 Pred	=	-1	-1	0.556039	0.267344	0.176617	-1	-1	-1
Year 2003 Obs	=	-1	-1	0.618619	0.24024	0.141141	-1	-1	-1
Year 2003 Pred	=	-1	-1	0.531276	0.327352	0.141372	-1	-1	-1

Year 2004 Obs = -1 -1 0.575576 0.288288 0.136136 -1 -1 -1
Year 2004 Pred = -1 -1 0.500612 0.319902 0.179487 -1 -1 -1
Year 2005 Obs = -1 -1 0.59041 0.335664 0.0739261 -1 -1 -1
Year 2005 Pred = -1 -1 0.398897 0.379761 0.221341 -1 -1 -1
Year 2006 Obs = -1 -1 0.73 0.138 0.132 -1 -1 -1
Year 2006 Pred = -1 -1 0.551953 0.24001 0.208037 -1 -1 -1
Index number 7
Year 1984 Obs = 0 0.572 0.331 0.072 0.014 0.004 0.004 0.003
Year 1984 Pred = 0.0314468 0.662808 0.22131 0.0598425 0.0215495 0.0018583
0.000709992 0.0004758
Year 1985 Obs = 0.201798 0.284715 0.442557 0.0629371 0.000999001 0.00699301
0 0
Year 1985 Pred = 0.0789427 0.385065 0.459214 0.0563022 0.0145179 0.00522029
0.000450148 0.000287241
Year 1986 Obs = 0.1 0.681 0.173 0.042 0.003 0.001 0 0
Year 1986 Pred = 0.0782077 0.663848 0.173495 0.0728627 0.00850014 0.00218846
0.00078688 0.00011115
Year 1987 Obs = 0.0539461 0.761239 0.158841 0.023976 0.001998 0 0 0
Year 1987 Pred = 0.0581372 0.644304 0.264646 0.022526 0.00896439 0.00104405
0.000268788 0.000110297
Year 1988 Obs = 0.010989 0.622378 0.338661 0.025974 0.000999001 0.000999001
0 0
Year 1988 Pred = 0.0134865 0.559311 0.364006 0.0564897 0.0045921 0.00182487
0.000212526 7.71663e-05
Year 1989 Obs = 0 0.207 0.679 0.107 0.007 0 0 0
Year 1989 Pred = 0.0799177 0.278257 0.52025 0.104445 0.0153151 0.0012428
0.000493855 7.83978e-05
Year 1990 Obs = 0.037 0.775 0.126 0.048 0.008 0.006 0 0
Year 1990 Pred = 0.116354 0.669011 0.120399 0.0771179 0.0147098 0.00215355
0.00017475 8.04639e-05
Year 1991 Obs = 0.028971 0.655345 0.26973 0.028971 0.00999001 0.003996
0.002997 0
Year 1991 Pred = 0.0692099 0.684722 0.220771 0.0144891 0.00884678 0.00168498
0.000246674 2.92329e-05
Year 1992 Obs = 0.012987 0.558442 0.358641 0.044955 0.015984 0.00899101 0 0
Year 1992 Pred = 0.0754931 0.606495 0.285258 0.0295506 0.00183643 0.0011194
0.000213193 3.49092e-05
Year 1993 Obs = 0.0759241 0.745255 0.136863 0.034965 0.002997 0.000999001
0.001998 0.000999001
Year 1993 Pred = 0.0699388 0.640385 0.247753 0.0378113 0.00371093
0.000230232 0.000140332 3.11029e-05
Year 1994 Obs = 0.24 0.545 0.155 0.044 0.016 0 0 0
Year 1994 Pred = 0.088413 0.577722 0.287799 0.0396742 0.00576488 0.000564928
3.50475e-05 2.60969e-05
Year 1995 Obs = 0.042957 0.709291 0.215784 0.021978 0.003996 0.001998 0
0.003996
Year 1995 Pred = 0.0832296 0.617211 0.244993 0.0473243 0.00623909
0.000905326 8.87136e-05 9.6018e-06
Year 1996 Obs = 0.031031 0.405405 0.542543 0.019019 0.002002 0 0 0
Year 1996 Pred = 0.0399067 0.528381 0.39098 0.0359376 0.0041844 0.000526124
7.60901e-05 8.26124e-06
Year 1997 Obs = 0.013013 0.272272 0.54955 0.149149 0.00800801 0.00600601
0.002002 0
Year 1997 Pred = 0.0387728 0.357718 0.494426 0.102141 0.00615329 0.000688777
8.63642e-05 1.38438e-05
Year 1998 Obs = 0 0.156156 0.613614 0.187187 0.031031 0.012012 0 0

Year 1998 Pred = 0.0403492 0.352131 0.369547 0.203516 0.0323129 0.00190006
0.000212326 3.0887e-05
Year 1999 Obs = 0.016 0.253 0.554 0.129 0.043 0.004 0.001 0
Year 1999 Pred = 0.0301303 0.363123 0.364974 0.160664 0.0695855 0.0108076
0.000634533 8.12135e-05
Year 2000 Obs = 0.0588822 0.206587 0.45509 0.178643 0.0648703 0.0229541
0.00598802 0.00698603
Year 2000 Pred = 0.0397177 0.282075 0.398944 0.181805 0.0651723 0.027704
0.00429723 0.000284563
Year 2001 Obs = 0.005 0.609 0.257 0.099 0.025 0.004 0.001 0
Year 2001 Pred = 0.043437 0.36689 0.302315 0.184913 0.0671853 0.0235903
0.0100135 0.00165591
Year 2002 Obs = 0.0720721 0.504505 0.315315 0.0780781 0.02002 0.00500501
0.004004 0.001001
Year 2002 Pred = 0.0422777 0.354678 0.355351 0.138782 0.0705129 0.0251928
0.00883545 0.00437027
Year 2003 Obs = 0 0.430569 0.388611 0.11988 0.025974 0.026973 0.004995
0.002997
Year 2003 Pred = 0.0279908 0.345997 0.348703 0.174525 0.0579672 0.0290265
0.0103601 0.00543023
Year 2004 Obs = 0.131 0.197 0.386 0.225 0.041 0.012 0.008 0
Year 2004 Pred = 0.0443786 0.251335 0.375986 0.195162 0.0842145 0.0276028
0.0138091 0.00751163
Year 2005 Obs = 0.028 0.454 0.309 0.147 0.036 0.013 0.005 0.008
Year 2005 Pred = 0.0208425 0.37453 0.256929 0.198688 0.0890633 0.0379315
0.0124214 0.00959386
Year 2006 Obs = 0.074 0.165 0.45 0.175 0.073 0.033 0.016 0.014
Year 2006 Pred = 0.023707 0.201988 0.43923 0.155141 0.103422 0.0457485
0.0194661 0.0112973
Index number 8
Year 1982 Obs = -1 -1 0.881 0.119 -1 -1 -1 -1
Year 1982 Pred = -1 -1 0.947854 0.0521459 -1 -1 -1 -1
Year 1983 Obs = -1 -1 0.792 0.208 -1 -1 -1 -1
Year 1983 Pred = -1 -1 0.811981 0.188019 -1 -1 -1 -1
Year 1984 Obs = -1 -1 0.831 0.169 -1 -1 -1 -1
Year 1984 Pred = -1 -1 0.857461 0.142539 -1 -1 -1 -1
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Year 1985 Pred = -1 -1 0.929909 0.0700907 -1 -1 -1 -1
Year 1986 Obs = -1 -1 0.797 0.203 -1 -1 -1 -1
Year 1986 Pred = -1 -1 0.794797 0.205203 -1 -1 -1 -1
Year 1987 Obs = -1 -1 0.949 0.051 -1 -1 -1 -1
Year 1987 Pred = -1 -1 0.950275 0.0497253 -1 -1 -1 -1
Year 1988 Obs = -1 -1 1 0 -1 -1 -1 -1
Year 1988 Pred = -1 -1 0.912905 0.0870954 -1 -1 -1 -1
Year 1989 Obs = -1 -1 1 0 -1 -1 -1 -1
Year 1989 Pred = -1 -1 0.890139 0.109861 -1 -1 -1 -1
Year 1990 Obs = -1 -1 1 0 -1 -1 -1 -1
Year 1990 Pred = -1 -1 0.717479 0.282521 -1 -1 -1 -1
Year 1991 Obs = -1 -1 0.889 0.111 -1 -1 -1 -1
Year 1991 Pred = -1 -1 0.961218 0.0387822 -1 -1 -1 -1
Year 1992 Obs = -1 -1 0.788 0.212 -1 -1 -1 -1
Year 1992 Pred = -1 -1 0.940128 0.0598721 -1 -1 -1 -1
Year 1993 Obs = -1 -1 0.759 0.241 -1 -1 -1 -1
Year 1993 Pred = -1 -1 0.914224 0.0857758 -1 -1 -1 -1
Year 1994 Obs = -1 -1 1 0 -1 -1 -1 -1
Year 1994 Pred = -1 -1 0.921873 0.0781265 -1 -1 -1 -1
Year 1995 Obs = -1 -1 1 0 -1 -1 -1 -1

Year 1995 Pred = -1 -1 0.893853 0.106147 -1 -1 -1 -1
Year 1996 Obs = -1 -1 0.99 0.01 -1 -1 -1 -1
Year 1996 Pred = -1 -1 0.946515 0.0534848 -1 -1 -1 -1
Year 1997 Obs = -1 -1 0.97 0.03 -1 -1 -1 -1
Year 1997 Pred = -1 -1 0.887311 0.112689 -1 -1 -1 -1
Year 1998 Obs = -1 -1 0.8 0.2 -1 -1 -1 -1
Year 1998 Pred = -1 -1 0.74707 0.25293 -1 -1 -1 -1
Year 1999 Obs = -1 -1 0.845 0.155 -1 -1 -1 -1
Year 1999 Pred = -1 -1 0.787016 0.212984 -1 -1 -1 -1
Year 2000 Obs = -1 -1 0.734 0.266 -1 -1 -1 -1
Year 2000 Pred = -1 -1 0.781154 0.218846 -1 -1 -1 -1
Year 2001 Obs = -1 -1 0.677 0.323 -1 -1 -1 -1
Year 2001 Pred = -1 -1 0.726731 0.273269 -1 -1 -1 -1
Year 2002 Obs = -1 -1 0.775 0.225 -1 -1 -1 -1
Year 2002 Pred = -1 -1 0.80639 0.19361 -1 -1 -1 -1
Year 2003 Obs = -1 -1 0.809 0.191 -1 -1 -1 -1
Year 2003 Pred = -1 -1 0.764708 0.235292 -1 -1 -1 -1
Year 2004 Obs = -1 -1 0.625 0.375 -1 -1 -1 -1
Year 2004 Pred = -1 -1 0.75809 0.24191 -1 -1 -1 -1
Year 2005 Obs = -1 -1 0.667 0.333 -1 -1 -1 -1
Year 2005 Pred = -1 -1 0.677778 0.322222 -1 -1 -1 -1
Year 2006 Obs = -1 -1 0.72 0.28 -1 -1 -1 -1
Year 2006 Pred = -1 -1 0.821597 0.178403 -1 -1 -1 -1
Index number 9
Year 1990 Obs = 0.07 0.59 0.14 0.17 0.03 0 0 0
Year 1990 Pred = 0.143929 0.554761 0.160515 0.114975 0.0221835 0.0032511
0.000263834 0.000121484
Year 1991 Obs = 0 0.47 0.53 0 0 0 0
Year 1991 Pred = 0.0868601 0.576064 0.29862 0.0219166 0.0135361 0.0025808
0.000377853 4.4779e-05
Year 1992 Obs = 0.03 0.44 0.38 0.12 0.03 0 0 0
Year 1992 Pred = 0.0910626 0.490415 0.370847 0.0429614 0.0027006 0.00164788
0.000313872 5.13953e-05
Year 1993 Obs = 0.04 0.42 0.35 0.15 0 0 0.04 0
Year 1993 Pred = 0.0856223 0.52555 0.326898 0.0557916 0.00553867 0.000343986
0.000209687 4.6475e-05
Year 1994 Obs = 0.237624 0.465347 0.237624 0 0.0594059 0 0 0
Year 1994 Pred = 0.105068 0.460234 0.368612 0.0568254 0.00835218 0.000819323
5.08345e-05 3.78524e-05
Year 1995 Obs = 0.376238 0.247525 0.247525 0.128713 0 0 0 0
Year 1995 Pred = 0.100653 0.500366 0.319322 0.0689786 0.00919869 0.00133617
0.000130945 1.41727e-05
Year 1996 Obs = 0.019802 0.425743 0.415842 0.138614 0 0 0 0
Year 1996 Pred = 0.0461533 0.409646 0.487345 0.050094 0.00589991 0.000742596
0.000107407 1.16615e-05
Year 1997 Obs = 0.0505051 0.232323 0.525253 0.181818 0.010101 0 0 0
Year 1997 Pred = 0.0411157 0.254288 0.565076 0.130545 0.00795505 0.000891386
0.000111779 1.79178e-05
Year 1998 Obs = 0 0.16 0.56 0.26 0.02 0 0 0
Year 1998 Pred = 0.0419437 0.24538 0.414024 0.254982 0.0409507 0.00241048
0.00026939 3.91884e-05
Year 1999 Obs = 0.03 0.29 0.41 0.19 0.06 0.02 0 0
Year 1999 Pred = 0.0314039 0.25371 0.409983 0.201825 0.0884204 0.0137472
0.000807198 0.000103314
Year 2000 Obs = 0.03 0.24 0.47 0.19 0.05 0.02 0 0
Year 2000 Pred = 0.039847 0.189706 0.431369 0.219835 0.079713 0.0339204
0.00526195 0.00034845

Year 2001 Obs = 0.01 0.43 0.29 0.15 0.06 0.04 0.02 0
Year 2001 Pred = 0.0451052 0.255391 0.338338 0.231427 0.085054 0.0298956
0.0126911 0.00209871
Year 2002 Obs = 0.0505051 0.40404 0.313131 0.151515 0.0505051 0.020202 0
0.010101
Year 2002 Pred = 0.0438966 0.246864 0.397651 0.173673 0.0892572 0.0319229
0.0111968 0.00553833
Year 2003 Obs = 0.010101 0.393939 0.383838 0.121212 0.0606061 0.020202
0.010101 0
Year 2003 Pred = 0.0288129 0.238753 0.386859 0.216526 0.072746 0.0364648
0.0130161 0.00682246
Year 2004 Obs = 0.049505 0.247525 0.405941 0.207921 0.0594059 0.019802
0.00990099 0
Year 2004 Pred = 0.0436932 0.165881 0.398967 0.231588 0.101084 0.0331665
0.0165941 0.00902661
Year 2005 Obs = 0.02 0.22 0.39 0.21 0.07 0.06 0.01 0.02
Year 2005 Pred = 0.0214864 0.258824 0.285464 0.246868 0.111935 0.0477221
0.015629 0.0120714
Year 2006 Obs = 0 0.178218 0.356436 0.217822 0.168317 0.049505 0.019802
0.00990099
Year 2006 Pred = 0.0228183 0.130327 0.455641 0.179975 0.12136 0.053739
0.0228681 0.0132718
Index number 10
Year 1988 Obs = 0.04 0.72 0.24 0 0 0 0 0
Year 1988 Pred = 0.10567 0.551345 0.289759 0.0474307 0.00395567 0.00158734
0.000185532 6.74548e-05
Year 1989 Obs = 0.59 0.3 0.11 0 0 0 0 0
Year 1989 Pred = 0.441879 0.193564 0.292246 0.061885 0.00930973 0.000762868
0.000304239 4.83613e-05
Year 1990 Obs = 0.45 0.5 0.04 0.01 0 0 0 0
Year 1990 Pred = 0.521992 0.377602 0.0548761 0.0370746 0.00725516 0.00107257
8.73483e-05 4.02734e-05
Year 1991 Obs = 0.25 0.68 0.07 0 0 0 0 0
Year 1991 Pred = 0.383375 0.477187 0.124244 0.00860076 0.00538763 0.00103619
0.000152242 1.8066e-05
Year 1992 Obs = 0.232323 0.636364 0.121212 0.010101 0 0 0 0
Year 1992 Pred = 0.409624 0.414023 0.157251 0.0171824 0.00109549 0.000674296
0.000128886 2.11326e-05
Year 1993 Obs = 0.30303 0.676768 0.020202 0 0 0 0 0
Year 1993 Pred = 0.388157 0.447146 0.139696 0.0224879 0.00226428 0.000141854
8.67762e-05 1.92586e-05
Year 1994 Obs = 0.584158 0.376238 0.029703 0 0.00990099 0 0 0
Year 1994 Pred = 0.452725 0.372182 0.149722 0.0217703 0.00324537 0.000321142
1.99954e-05 1.49087e-05
Year 1995 Obs = 0.59 0.35 0.03 0.01 0.02 0 0 0
Year 1995 Pred = 0.434301 0.405195 0.12988 0.0264628 0.00357924 0.00052445
5.15772e-05 5.58983e-06
Year 1996 Obs = 0.168317 0.524752 0.277228 0.019802 0.00990099 0 0 0
Year 1996 Pred = 0.265189 0.441749 0.263962 0.0255916 0.00305704 0.000388137
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Year 1997 Obs = 0.10101 0.505051 0.323232 0.0606061 0.010101 0 0 0
Year 1997 Pred = 0.266079 0.308847 0.344716 0.075114 0.00464246 0.000524746
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Year 1998 Obs = 0.0707071 0.616162 0.282828 0.030303 0 0 0 0
Year 1998 Pred = 0.273007 0.299752 0.254031 0.147563 0.0240365 0.00142722
0.000160065 2.33157e-05
Year 1999 Obs = 0.09 0.53 0.3 0.06 0.01 0.01 0 0

Year 1999 Pred = 0.2167 0.328569 0.266682 0.123826 0.0550212 0.00862921
 0.000508468 6.51653e-05
 Year 2000 Obs = 0.128713 0.524752 0.247525 0.0594059 0.019802 0.00990099
 0.00990099 0
 Year 2000 Pred = 0.272094 0.243119 0.277666 0.133468 0.0490856 0.0210699
 0.00328003 0.000217493
 Year 2001 Obs = 0.11 0.58 0.21 0.07 0.02 0.01 0 0
 Year 2001 Pred = 0.286844 0.304817 0.202825 0.130855 0.0487771 0.0172944
 0.0073676 0.00121998
 Year 2002 Obs = 0.09 0.54 0.25 0.08 0.03 0.01 0 0
 Year 2002 Pred = 0.282048 0.29769 0.24085 0.0992163 0.0517175 0.0186584
 0.00656743 0.00325277
 Year 2003 Obs = 0.0594059 0.564356 0.257426 0.0594059 0.019802 0.019802
 0.00990099 0.00990099
 Year 2003 Pred = 0.204304 0.317726 0.258579 0.136508 0.0465158 0.0235203
 0.00842519 0.00442194
 Year 2004 Obs = 0.0808081 0.59596 0.232323 0.0505051 0.020202 0.010101
 0.010101 0
 Year 2004 Pred = 0.29623 0.21107 0.254979 0.139602 0.0618014 0.0204548
 0.0102701 0.005594
 Year 2005 Obs = 0.277228 0.534653 0.108911 0.049505 0.019802 0.00990099 0 0
 Year 2005 Pred = 0.15812 0.357473 0.198029 0.161528 0.0742837 0.0319465
 0.0104994 0.00812017
 Year 2006 Obs = 0.0792079 0.534653 0.29703 0.049505 0.019802 0.00990099
 0.00990099 0
 Year 2006 Pred = 0.182016 0.195109 0.342611 0.127644 0.0872978 0.0389939
 0.016652 0.00967701
 Index number 11
 N/A
 Index number 12
 N/A
 Index number 13
 N/A

Index Selectivity at Age

0.0612985 0.308279 0.752582 0.95406 0.993013 0.998989 0.999871 1
 0.0384494 0.319544 0.846508 0.984796 0.998688 0.999889 0.999991 1
 0.340174 0.99113 0.999959 1 1 1 1 1
 0 0 0.696733 0.999999 0 0 0 0
 0 0 0.999999 0.68619 0 0 0 0
 0 0 0.615634 0.768747 1 0 0 0
 0.0603079 0.675801 0.985445 0.999545 0.999986 1 1 1
 0 0 1 0.623561 0 0 0 0
 0.0494111 0.37117 0.870175 0.987033 0.998845 0.999899 0.999992 1
 0.540556 0.762086 0.897378 0.960081 0.98541 0.995068 0.998669 1
 1 0 0 0 0 0 0 0
 1 0 0 0 0 0 0 0
 1 0 0 0 0 0 0 0

Deviations section: only applicable if associated lambda > 0

Nyear1 observed, expected, standardized residual

2 41325.1 26197.7 0.591731
 3 23229.6 12015.3 0.855858
 4 2049.47 3640.42 -0.745861
 5 783.58 1079.1 -0.415446
 6 252.807 319.652 -0.304574
 7 224.667 94.6859 1.12174

8 47.6525 39.8523 0.232067

Fleet Obs, Initial, and Standardized Residual for Fmult

1 1.01667 1 0.0214614

Standardized Residuals for Fmult_devs by fleet and year

N/A

Index Obs, Initial, and Standardized Residual for q_year1

N/A

Standardized Residuals for catchability deviations by index and year

index 1 q_devs standardized residuals

2 0

3 0

4 0

5 0

6 0

7 0

8 0

9 0

10 0

11 0

12 0

13 0

14 0

15 0

index 2 q_devs standardized residuals

2 0

3 0

4 0

5 0

6 0

7 0

8 0

9 0

10 0

11 0

12 0

13 0

14 0

15 0

16 0

17 0

18 0

19 0

20 0

21 0

22 0

23 0

24 0

25 0

index 3 q_devs standardized residuals

2 0

3 0

4 0

5 0

6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0

index 4 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0

index 5 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0

13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0

index 6 q_devs standardized residuals

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

index 7 q_devs standardized residuals

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

```
22 0
23 0
  index 8 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
  index 9 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
  index 10 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
```

14 0
15 0
16 0
17 0
18 0
19 0
index 11 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
index 12 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
index 13 q_devs standardized residuals
2 0
3 0
4 0
5 0

Fmult by year for each fleet

1982 1.01667
1983 1.44772
1984 1.56668
1985 1.66922
1986 1.86084
1987 1.49672
1988 1.994
1989 1.73682
1990 1.58354
1991 1.89415
1992 1.86993
1993 1.6404
1994 1.43306
1995 1.93142
1996 1.60304
1997 0.978431
1998 0.888182
1999 0.751541
2000 0.834523
2001 0.673641
2002 0.581336
2003 0.527712
2004 0.521252
2005 0.52825
2006 0.428633

Directed F by age and year for each fleet

fleet 1 directed F at age
0.0390337 0.579494 0.99408 1.01597 1.01665 1.01667 1.01667 1.01667
0.0555832 0.825188 1.41555 1.44673 1.44769 1.44772 1.44772 1.44772
0.0601505 0.892994 1.53187 1.5656 1.56664 1.56668 1.56668 1.56668
0.0640874 0.951441 1.63213 1.66807 1.66918 1.66922 1.66922 1.66922
0.0714446 1.06067 1.8195 1.85957 1.8608 1.86084 1.86084 1.86084
0.0574648 0.853122 1.46347 1.4957 1.49669 1.49672 1.49672 1.49672
0.076557 1.13656 1.94969 1.99263 1.99396 1.994 1.994 1.994
0.066683 0.989975 1.69823 1.73563 1.73679 1.73682 1.73682 1.73682
0.0607982 0.902609 1.54836 1.58246 1.58351 1.58354 1.58354 1.58354
0.0727236 1.07965 1.85207 1.89286 1.89411 1.89415 1.89415 1.89415
0.0717935 1.06584 1.82838 1.86865 1.86989 1.86993 1.86993 1.86993
0.0629812 0.935019 1.60396 1.63928 1.64037 1.6404 1.6404 1.6404
0.0550206 0.816835 1.40122 1.43208 1.43303 1.43306 1.43306 1.43306
0.0230218 0.288547 1.38845 1.8809 1.92786 1.93118 1.9314 1.93142
0.0191077 0.239489 1.15239 1.56111 1.60009 1.60284 1.60303 1.60304
0.0116625 0.146174 0.703371 0.952839 0.97663 0.978308 0.978423 0.978431
0.0105868 0.132691 0.638492 0.86495 0.886547 0.88807 0.888174 0.888182
0.00895809 0.112278 0.540265 0.731883 0.750157 0.751446 0.751535 0.751541
0.00994721 0.124675 0.599919 0.812695 0.832987 0.834418 0.834517 0.834523
0.00802956 0.10064 0.484265 0.656021 0.672401 0.673556 0.673636 0.673641
0.00692931 0.0868496 0.417909 0.56613 0.580266 0.581263 0.581331 0.581336
0.00629014 0.0788384 0.37936 0.513909 0.526741 0.527646 0.527708 0.527712
0.00621313 0.0778732 0.374716 0.507618 0.520292 0.521186 0.521248 0.521252
0.00629654 0.0789186 0.379746 0.514432 0.527277 0.528183 0.528245 0.52825
0.00510914 0.0640362 0.308134 0.417421 0.427844 0.428579 0.428629 0.428633

Discard F by age and year for each fleet

fleet 1 Discard F at age
0 0 0 0 0 0 0 0

1985	1.65646	1.6369	1.64029
1986	1.84662	1.83221	1.83712
1987	1.48529	1.46688	1.46951
1988	1.97876	1.9558	1.9592
1989	1.72355	1.70518	1.7078
1990	1.57144	1.56307	1.56709
1991	1.87968	1.85596	1.85952
1992	1.85564	1.83233	1.83471
1993	1.62787	1.60898	1.61237
1994	1.42211	1.40539	1.40842
1995	1.73241	1.47674	1.51053
1996	1.43786	1.19031	1.21094
1997	0.877613	0.747913	0.757708
1998	0.796663	0.727086	0.74853
1999	0.674102	0.615854	0.63962
2000	0.748534	0.682587	0.710033
2001	0.604229	0.563724	0.580894
2002	0.521435	0.474103	0.489852
2003	0.473337	0.43399	0.449618
2004	0.467542	0.43252	0.448102
2005	0.473818	0.452504	0.466889
2006	0.384466	0.349794	0.364892

Population Numbers at the Start of the Year

50033.9	41325.1	23229.6	2049.47	783.58	252.807	224.667	47.6525
79692.8	39396.1	18953.3	7038.16	607.506	232.113	74.8854	80.6651
32813.6	61719.3	14132.5	3767.55	1356.11	116.942	44.6793	29.9418
58115.9	25297.2	20689	2500.81	644.565	231.767	19.9854	12.7527
45915.4	44627.6	7998.48	3311.74	386.176	99.4241	35.7488	5.04967
45409.9	44909.9	12650.4	1061.58	422.277	49.1802	12.6614	5.19556
9484.77	35102.2	15666.7	2397	194.768	77.3985	9.0139	3.27287
23150.6	7193.16	9223	1825.48	267.558	21.7118	8.62764	1.36961
34556.9	17731.4	2188.37	1381.91	263.477	38.573	3.13	1.44122
30155.8	26623.9	5886.88	380.905	232.47	44.2764	6.48187	0.768155
32022.3	22957.7	7405	756.281	46.9785	28.6355	5.45373	0.893017
29863.2	24401.4	6474.08	974.117	95.5611	5.92869	3.61366	0.800927
39370.1	22957.5	7843	1065.93	154.818	15.1711	0.941199	0.700831
46100.1	30507.9	8304.6	1581.54	208.413	30.2415	2.96339	0.320738
31216.8	36884.6	18717.1	1696.15	197.404	24.8202	3.58959	0.389728
30455.2	25074.4	23767.2	4840.66	291.489	32.6278	4.09113	0.655788
31645.6	24645.5	17737.4	9630.49	1528.39	89.8708	10.0428	1.46093
23837	25636.4	17670.6	7668.97	3320.07	515.647	30.2744	3.87481
30518.7	19342	18760.1	8428.66	3020.13	1283.8	199.134	13.1866
32821.4	24739.3	13979.7	8430.16	3061.62	1074.99	456.306	75.4582
35606.7	26657	18315.6	7052.21	3581.54	1279.59	448.77	221.975
26245.3	28951	20009.4	9873.4	3277.93	1641.36	585.833	307.064
42249.9	21353.1	21906.2	11210.4	4835.26	1584.82	792.853	431.282
21437.6	34377.1	16172.7	12330.2	5524.67	2352.88	770.5	595.106
22939.2	17441.5	26009.7	9057.35	6035.26	2669.65	1135.94	659.252

q by index

index 1 q over time	
1992	0.000560461
1993	0.000560461
1994	0.000560461
1995	0.000560461
1996	0.000560461

1997 0.000560461
1998 0.000560461
1999 0.000560461
2000 0.000560461
2001 0.000560461
2002 0.000560461
2003 0.000560461
2004 0.000560461
2005 0.000560461
2006 0.000560461

index 2 q over time

1982 5.29284e-05
1983 5.29284e-05
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1986 5.29284e-05
1987 5.29284e-05
1988 5.29284e-05
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2006 5.29284e-05

index 3 q over time

1982 3.37882e-05
1983 3.37882e-05
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index 4 q over time
1982 6.83234e-05
1983 6.83234e-05
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index 5 q over time
1982 4.68664e-05
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index 6 q over time

1984 3.23216e-05
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index 7 q over time

1984 3.62562e-05
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index 8 q over time

1982 3.37891e-05
1983 3.37891e-05
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2006 3.37891e-05

index 9 q over time

1990 2.31569e-05
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2002 2.31569e-05
2003 2.31569e-05
2004 2.31569e-05
2005 2.31569e-05
2006 2.31569e-05

index 10 q over time

1988 0.000128544
1989 0.000128544
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2004 0.000128544
2005 0.000128544
2006 0.000128544

index 11 q over time

1986 5.45856e-06

1987 5.45856e-06
1988 5.45856e-06
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1991 5.45856e-06
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2001 5.45856e-06
2002 5.45856e-06
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2005 5.45856e-06
2006 5.45856e-06

index 12 q over time

1982 0.000242921
1983 0.000242921
1984 0.000242921
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2005 0.000242921
2006 0.000242921

index 13 q over time

1982 2.86838e-05
1983 2.86838e-05
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 2002 2.86838e-05
 2003 2.86838e-05
 2004 2.86838e-05
 2005 2.86838e-05
 2006 2.86838e-05

Proportions of catch at age by fleet
 fleet 1

Year 1 Obs = 0.146845 0.533716 0.27888 0.0256925 0.00901297 0.00318751
 0.00184106 0.000824357
 Year 1 Pred = 0.0513598 0.491732 0.398533 0.0356207 0.0136243 0.00439569
 0.0039064 0.00082856
 Year 2 Obs = 0.103612 0.598342 0.229546 0.0458839 0.0145793 0.00679528
 0.000336608 0.000904635
 Year 2 Pred = 0.0903823 0.4702 0.307665 0.115427 0.00996629 0.00380791
 0.00122853 0.00132334
 Year 3 Obs = 0.0942382 0.521666 0.303281 0.0624068 0.0162689 0.00186435
 7.84991e-05 0.000196248
 Year 3 Pred = 0.0351405 0.677824 0.208033 0.0559939 0.0201605 0.00173852
 0.000664228 0.000445131
 Year 4 Obs = 0.0558107 0.392743 0.482878 0.0474579 0.0133215 0.00676819
 0.000805737 0.000214863
 Year 4 Pred = 0.0918882 0.401264 0.434567 0.0530069 0.0136659 0.0049139
 0.000423727 0.000270382
 Year 5 Obs = 0.0563748 0.497562 0.320918 0.109789 0.00917325 0.0040641
 0.0016837 0.000435439
 Year 5 Pred = 0.0924713 0.674898 0.156781 0.0654444 0.00763323 0.00196525
 0.000706623 9.98135e-05
 Year 6 Obs = 0.0361216 0.546812 0.344315 0.0523557 0.0172825 0.000794231
 0.000921308 0.00139785
 Year 6 Pred = 0.0636797 0.655715 0.249685 0.021163 0.00842079 0.000980731
 0.000252487 0.000103608
 Year 7 Obs = 0.0204602 0.529056 0.374768 0.0549979 0.016574 0.00311406
 0.000488985 0.000540457
 Year 7 Pred = 0.0169801 0.589054 0.336018 0.0517995 0.00420993 0.00167299
 0.000194837 7.07438e-05
 Year 8 Obs = 0.063287 0.315776 0.48164 0.111543 0.0232711 0.00362582
 0.000593315 0.000263696
 Year 8 Pred = 0.0956689 0.293961 0.495269 0.0988857 0.0144974 0.00117644
 0.000467484 7.42115e-05
 Year 9 Obs = 0.131557 0.624327 0.155018 0.0705274 0.0156649 0.00212645
 0.000567054 0.000212645
 Year 9 Pred = 0.12849 0.67366 0.111213 0.0709001 0.0135217 0.0019796
 0.000160635 7.39647e-05
 Year 10 Obs = 0.0470108 0.570563 0.335697 0.0348471 0.0101911 0.00150284
 0.000140891 4.69638e-05

Year 10 Pred = 0.0824055 0.696157 0.198802 0.0129663 0.00791536 0.00150757
 0.000220702 2.6155e-05
 Year 11 Obs = 0.0686058 0.561535 0.302207 0.0564193 0.00757272 0.00351053
 0.000100301 5.01505e-05
 Year 11 Pred = 0.0900669 0.620978 0.259357 0.0267036 0.00165917 0.00101135
 0.000192614 3.15395e-05
 Year 12 Obs = 0.0682494 0.596718 0.297482 0.0300616 0.0038772 0.00239006
 0.00106225 0.000159337
 Year 12 Pred = 0.079083 0.652267 0.229935 0.0349171 0.00342633 0.000212574
 0.000129568 2.87174e-05
 Year 13 Obs = 0.0809769 0.51226 0.345857 0.0485466 0.0101345 0.00128535
 0.00069211 0.000247182
 Year 13 Pred = 0.0954296 0.587489 0.273478 0.0375545 0.00545618 0.000534675
 3.31706e-05 2.46993e-05
 Year 14 Obs = 0.0383395 0.377437 0.472962 0.0802409 0.0257108 0.00498672
 0.000259051 6.47626e-05
 Year 14 Pred = 0.0628503 0.460095 0.381638 0.0826585 0.0109896 0.0015956
 0.000156361 1.69236e-05
 Year 15 Obs = 0.00868307 0.371174 0.497293 0.0956745 0.0223509 0.00380554
 0.000857587 0.000160798
 Year 15 Pred = 0.0256037 0.341667 0.56519 0.0595162 0.00700105 0.000880909
 0.000127407 1.38328e-05
 Year 16 Obs = 0.00206925 0.175541 0.554973 0.217202 0.0381432 0.011036
 0.000758725 0.0002759
 Year 16 Pred = 0.0184486 0.178549 0.634345 0.157775 0.00964452 0.00108068
 0.000135514 2.17223e-05
 Year 17 Obs = 0.00299222 0.148481 0.42423 0.348627 0.0651639 0.00917614
 0.00126338 6.64938e-05
 Year 17 Pred = 0.0180279 0.166009 0.457522 0.305855 0.0493113 0.00290272
 0.000324395 4.71899e-05
 Year 18 Obs = 0.0127178 0.153527 0.439854 0.282322 0.0815767 0.0251546
 0.00386453 0.000983699
 Year 18 Pred = 0.0129023 0.165534 0.451615 0.244462 0.107641 0.0167375
 0.000982765 0.000125784
 Year 19 Obs = 0.00135811 0.0949441 0.49182 0.288289 0.0943885 0.0228409
 0.00456818 0.00179023
 Year 19 Pred = 0.0163637 0.123053 0.462971 0.25739 0.0937349 0.0398898
 0.00618787 0.000409764
 Year 20 Obs = 0.000832829 0.218655 0.360388 0.282935 0.0978952 0.0274833
 0.00931254 0.00249849
 Year 20 Pred = 0.0181602 0.164124 0.374195 0.283605 0.104831 0.0368531
 0.0156445 0.00258711
 Year 21 Obs = 0.0218685 0.0912526 0.435038 0.308651 0.104679 0.0256472
 0.0108538 0.00200997
 Year 21 Pred = 0.0171921 0.155254 0.440431 0.215136 0.111299 0.0398153
 0.013965 0.00690753
 Year 22 Obs = 0.019559 0.119544 0.372829 0.30222 0.119242 0.0425162
 0.0175955 0.00649449
 Year 22 Pred = 0.0108833 0.145323 0.420349 0.264599 0.0895318 0.0448906
 0.0160237 0.00839888
 Year 23 Obs = 0.00730276 0.0718673 0.386841 0.319956 0.130153 0.0524843
 0.020748 0.010647
 Year 23 Pred = 0.0159763 0.0977808 0.420512 0.274708 0.120769 0.0396359
 0.0198308 0.0107873
 Year 24 Obs = 0.0172803 0.13655 0.262167 0.285301 0.155593 0.0739879
 0.0359712 0.03315

Year 24 Pred = 0.00805196 0.156292 0.30768 0.299232 0.136646 0.0582727
 0.0190843 0.0147401
 Year 25 Obs = 0.0148916 0.0835802 0.395291 0.255419 0.140028 0.067753
 0.0290036 0.014034
 Year 25 Pred = 0.00783156 0.0725494 0.464405 0.208487 0.141728 0.0627791
 0.0267152 0.0155045

Proportions of Discards at age by fleet
 fleet 1

Year 1 Obs = 0 0 0 0 0 0 0 0
 Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 2 Obs = 0 0 0 0 0 0 0 0
 Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 3 Obs = 0 0 0 0 0 0 0 0
 Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 4 Obs = 0 0 0 0 0 0 0 0
 Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 5 Obs = 0 0 0 0 0 0 0 0
 Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 6 Obs = 0 0 0 0 0 0 0 0
 Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 7 Obs = 0 0 0 0 0 0 0 0
 Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 8 Obs = 0 0 0 0 0 0 0 0
 Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 9 Obs = 0 0 0 0 0 0 0 0
 Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 10 Obs = 0 0 0 0 0 0 0 0
 Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 11 Obs = 0 0 0 0 0 0 0 0
 Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 12 Obs = 0 0 0 0 0 0 0 0
 Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 13 Obs = 0 0 0 0 0 0 0 0
 Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 14 Obs = 0 0 0 0 0 0 0 0
 Year 14 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 15 Obs = 0 0 0 0 0 0 0 0
 Year 15 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 16 Obs = 0 0 0 0 0 0 0 0
 Year 16 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 17 Obs = 0 0 0 0 0 0 0 0
 Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 18 Obs = 0 0 0 0 0 0 0 0
 Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 19 Obs = 0 0 0 0 0 0 0 0
 Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 20 Obs = 0 0 0 0 0 0 0 0
 Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 21 Obs = 0 0 0 0 0 0 0 0
 Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 22 Obs = 0 0 0 0 0 0 0 0
 Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 23 Obs = 0 0 0 0 0 0 0 0
 Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 24 Obs = 0 0 0 0 0 0 0 0
 Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15

Year 25 Obs = 0 0 0 0 0 0 0 0
 Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15

F Reference Points Using Final Year Selectivity and Freport options

refpt	F	slope to plot on SRR				
F0.1	0.150496	0.314039				
Fmax	0.280941	0.506466				
F30%SPR	0.23454	0.436015				
F40%SPR	0.159777	0.327007				
Fmsy	0.280937	0.506459	SSBmsy	65694.7	MSY	16712.6
Fcurrent	0.384466	0.666036				

Stock-Recruitment Relationship Parameters

alpha = 33271.7
 beta = 0.0171332
 unexpl = 269444
 steepness = 1

Spawning Stock, Obs Recruits(year+1), Pred Recruits(year+1), standardized residual

Year	SS	Obs	Pred	Residual
init	xxxx	50033.9	33271.7	0.863699
1982	23028.1	79692.8	33271.7	1.84909
1983	20985.5	32813.6	33271.7	-0.0293473
1984	17756.9	58115.9	33271.7	1.18068
1985	14902.8	58915.4	33271.7	1.20961
1986	15047.3	45409.9	33271.7	0.658417
1987	15983.6	9484.77	33271.7	-2.6568
1988	9224.05	23150.6	33271.6	-0.767785
1989	5408.63	34556.9	33271.6	0.0802391
1990	7480.19	30155.8	33271.6	-0.208157
1991	7347.33	32022.3	33271.6	-0.0810195
1992	8459.78	29863.2	33271.6	-0.228796
1993	9320.08	39370.1	33271.6	0.356284
1994	12162.4	46100.1	33271.7	0.690353
1995	18524.2	31216.8	33271.7	-0.134955
1996	20952.1	30455.2	33271.7	-0.187244
1997	21391.5	31645.6	33271.7	-0.106076
1998	23275	23837	33271.7	-0.70593
1999	23246.8	30518.7	33271.7	-0.182834
2000	24171.5	32821.4	33271.7	-0.028848
2001	28086.2	35606.7	33271.7	0.143588
2002	32456.5	26245.3	33271.7	-0.502181
2003	36786.4	42249.9	33271.7	0.505727
2004	37365.9	21437.6	33271.7	-0.930519
2005	37693.1	22939.2	33271.7	-0.7872
2006	39173.3	xxxx	33271.7	

Root Mean Square Error computed from Standardized Residuals

Component	#resids	RMSE
_Catch_Fleet_1	25	0.478577
Catch_Fleet_Total	25	0.478577
_Discard_Fleet_1	0	0
Discard_Fleet_Total	0	0
_Index_1	15	2.9409
_Index_2	25	2.08431
_Index_3	25	1.39818
_Index_4	25	3.27278
_Index_5	25	3.85238

_Index_6	23	1.61452
_Index_7	23	1.49045
_Index_8	25	2.15759
_Index_9	17	2.05723
_Index_10	19	1.07253
_Index_11	21	2.24145
_Index_12	25	1.50986
_Index_13	25	1.52569
Index_Total	293	2.23831
Nyear1	7	0.677861
Fmult_Year1	1	0.0214614
_Fmult_devs_Fleet_1	0	0
Fmult_devs_Total	0	0
Recruit_devs	0	0
Fleet_Sel_params	4	1.71411
Index_Sel_params	68	0.728852
q_year1	0	0
q_devs	0	0
SRR_steepness	0	0
SRR_unexpl_S	0	0

Projections not requested

that's all

ASAP ALTERNATIVE RUN (F08 MULTI SVAge.REP)

Age Structured Assessment Program (ASAP) Version 2.0
Start time for run: Fri Mar 28 13:51:17 2008

obj_fun = 45830.2

Component	Lambda	obj_fun
__Catch_Fleet_1	10	1976.54
__Catch_Fleet_2	10	1543.55
__Catch_Fleet_3	10	3265.42
__Catch_Fleet_4	10	1171.79
__Catch_Fleet_5	10	1803.36
__Catch_Fleet_6	10	1211.4
Catch_Fleet_Total	60	10972.1
Discard_Fleet_Total	0	0
__Index_Fit_1	1	99.8189
__Index_Fit_2	1	76.6323
__Index_Fit_3	1	38.2846
__Index_Fit_4	1	674.6
__Index_Fit_5	1	792.804
__Index_Fit_6	1	13.0548
__Index_Fit_7	1	34.4386
__Index_Fit_8	1	182.317
__Index_Fit_9	1	32.3718
__Index_Fit_10	1	48.8763
__Index_Fit_11	1	36.7619
__Index_Fit_12	1	92.7366
__Index_Fit_13	1	20.4368
Index_Fit_Total	13	2143.13
Catch_Age_Comps	see_below	2472.97
Discard_Age_Comps	see_below	0
Survey_Age_Comps	see_below	29484.6
__Sel_Param_1	1	0.876883
__Sel_Param_2	1	7.80609
__Sel_Param_3	1	1.159
__Sel_Param_4	1	2.78348
__Sel_Param_5	0	0
__Sel_Param_6	0	0
__Sel_Param_7	0	0
__Sel_Param_8	0	0
__Sel_Param_9	1	27.1384
__Sel_Param_11	1	22.7558
__Sel_Param_12	1	16.4072
__Sel_Param_13	1	103.468
__Sel_Param_17	1	39.8586
__Sel_Param_18	1	52.679
__Sel_Param_20	1	13.3228
__Sel_Param_21	1	104.359
__Sel_Param_25	1	0.888378
__Sel_Param_26	1	9.53583
__Sel_Param_27	1	0.891698
__Sel_Param_28	1	3.97907
__Sel_Param_29	1	0.901386
__Sel_Param_30	1	4.58442
__Sel_Param_31	1	1.69186

__Sel_Param_32	1	0.698472
__Sel_Param_33	1	0.862118
__Sel_Param_34	1	3.27088
__Sel_Param_35	1	1.61987
__Sel_Param_36	1	0.424805
Sel_Params_Total	24	421.963
__Index_Sel_Param_1	1	1.31586
__Index_Sel_Param_3	1	0.881503
__Index_Sel_Param_4	1	5.79736
__Index_Sel_Param_5	1	0.289153
__Index_Sel_Param_6	1	5.60516
__Index_Sel_Param_9	1	0.442075
__Index_Sel_Param_10	1	0.168969
__Index_Sel_Param_17	1	0.168969
__Index_Sel_Param_18	1	0.443008
__Index_Sel_Param_25	1	0.728782
__Index_Sel_Param_26	1	0.357856
__Index_Sel_Param_27	1	0.168969
__Index_Sel_Param_31	1	0.867095
__Index_Sel_Param_32	1	3.55618
__Index_Sel_Param_35	1	0.168969
__Index_Sel_Param_36	1	0.760976
__Index_Sel_Param_41	1	0.888247
__Index_Sel_Param_42	1	2.14515
__Index_Sel_Param_43	1	1.40355
Index_Sel_Params_Total	19	26.1578
q_year1_Total	0	0
q_devs_Total	130000	0
__Fmult_year1_fleet_1	1	0.442467
__Fmult_year1_fleet_2	1	-0.818903
__Fmult_year1_fleet_3	1	119.098
__Fmult_year1_fleet_4	1	119.098
__Fmult_year1_fleet_5	1	-0.27683
__Fmult_year1_fleet_6	1	-2.15671
Fmult_year1_fleet_Total	6	235.386
Fmult_devs_fleet_Total	0	0
N_year_1	1	73.9121
Recruit_devs	0	0
SRR_steepness	0	0
SRR_unexpl_stock	0	0
Fmult_Max_penalty	1000	0
F_penalty	0	0

Input and Estimated effective sample sizes for fleet 1

1982	31	0.241008
1983	33	0.703232
1984	43	1.70392
1985	379	16.22
1986	39	1.71089
1987	46	4.03722
1988	663	73.8028
1989	92	0.68642
1990	2270	30.6753
1991	58	4.62533
1992	173	27.9117
1993	415	0.817513
1994	106	10.4028

1995	75	11.3122
1996	222	65.9931
1997	267	29.1057
1998	151	44.5803
1999	187	45.0792
2000	125	126.574
2001	215	53.2007
2002	61	52.8198
2003	236	540.394
2004	139	440.712
2005	368	44.8789
2006	194	380.616
Total	6588	2008.8

Input and Estimated effective sample sizes for fleet 2

1982	10	0.0957991
1983	10	0.404572
1984	10	2.50319
1985	10	0.599177
1986	10	0.756592
1987	10	3.91203
1988	10	0.611378
1989	10	0.579011
1990	10	0.619397
1991	10	0.766801
1992	10	0.246268
1993	10	0.679388
1994	10	0.753415
1995	10	6.29289
1996	10	25.1849
1997	10	11.9335
1998	10	6.88701
1999	10	22.2499
2000	10	7.01976
2001	10	27.8323
2002	10	7.90409
2003	10	8.73044
2004	10	20.8715
2005	10	25.1157
2006	10	8.37452

Total 250 190.924

Input and Estimated effective sample sizes for fleet 3

1982	0	0.27197
1983	0	0.00643108
1984	0	0.011243
1985	0	0.0657306
1986	0	0.0187932
1987	0	0.0216768
1988	0	0.0880965
1989	10	0.0778081
1990	10	0.14547
1991	10	0.363032
1992	10	0.0965035
1993	10	0.0163067
1994	10	0.162001
1995	10	0.0810745
1996	10	0.197019
1997	10	0.138381

1998	10	0.129164
1999	10	0.145954
2000	10	0.111016
2001	10	0.082808
2002	10	0.100124
2003	10	0.200913
2004	10	0.15029
2005	10	0.0913496
2006	10	0.172197

Total 180 2.94535

Input and Estimated effective sample sizes for fleet 4

1982	0	0.301304
1983	0	1.05703
1984	0	0.128103
1985	0	0.0455786
1986	0	0.241491
1987	0	0.0917117
1988	0	0.0573292
1989	0	0.285143
1990	0	0.0652916
1991	0	0.148446
1992	0	0.10273
1993	0	0.436069
1994	10	0.0666308
1995	10	0.378404
1996	10	0.0578331
1997	10	0.314728
1998	10	0.280872
1999	10	0.306507
2000	10	0.289745
2001	10	0.150844
2002	10	0.269742
2003	10	0.276941
2004	10	0.713166
2005	10	0.838495
2006	10	0.591872

Total 130 7.49601

Input and Estimated effective sample sizes for fleet 5

1982	10	0.128276
1983	10	0.49279
1984	10	4.03153
1985	10	0.824078
1986	10	1.02304
1987	10	4.90925
1988	10	0.708588
1989	10	0.891267
1990	10	0.855972
1991	10	1.18493
1992	10	0.281373
1993	10	0.977105
1994	10	1.50332
1995	10	34.912
1996	10	772.296
1997	10	31.7885
1998	10	15.5305
1999	10	8.66238
2000	10	24.0074

2001	10	29.143
2002	10	8.7636
2003	10	9.70986
2004	10	13.9248
2005	10	10.4823
2006	10	8.69858
Total	250	985.73

Input and Estimated effective sample sizes for fleet 6

1982	10	0.474685
1983	10	27.8293
1984	10	11.3501
1985	10	2.69443
1986	10	12.7006
1987	10	6.74465
1988	10	1.7653
1989	10	24.0472
1990	10	4.52262
1991	10	4.46393
1992	10	2.09493
1993	10	10.5111
1994	10	4.8728
1995	10	6.83062
1996	10	2.59822
1997	10	23.1824
1998	10	19.6278
1999	10	8.65241
2000	10	13.7124
2001	10	99.7269
2002	10	42.3543
2003	10	348.973
2004	10	58.3459
2005	10	52.3199
2006	10	222.82
Total	250	1013.22

Input and Estimated effective Discard sample sizes for fleet 1

1982	0	1e+15
1983	0	1e+15
1984	0	1e+15
1985	0	1e+15
1986	0	1e+15
1987	0	1e+15
1988	0	1e+15
1989	0	1e+15
1990	0	1e+15
1991	0	1e+15
1992	0	1e+15
1993	0	1e+15
1994	0	1e+15
1995	0	1e+15
1996	0	1e+15
1997	0	1e+15
1998	0	1e+15
1999	0	1e+15
2000	0	1e+15
2001	0	1e+15
2002	0	1e+15

2003 0 1e+15
2004 0 1e+15
2005 0 1e+15
2006 0 1e+15

Total 0 2.5e+16

Input and Estimated effective Discard sample sizes for fleet 2

1982 0 1e+15
1983 0 1e+15
1984 0 1e+15
1985 0 1e+15
1986 0 1e+15
1987 0 1e+15
1988 0 1e+15
1989 0 1e+15
1990 0 1e+15
1991 0 1e+15
1992 0 1e+15
1993 0 1e+15
1994 0 1e+15
1995 0 1e+15
1996 0 1e+15
1997 0 1e+15
1998 0 1e+15
1999 0 1e+15
2000 0 1e+15
2001 0 1e+15
2002 0 1e+15
2003 0 1e+15
2004 0 1e+15
2005 0 1e+15
2006 0 1e+15

Total 0 2.5e+16

Input and Estimated effective Discard sample sizes for fleet 3

1982 0 1e+15
1983 0 1e+15
1984 0 1e+15
1985 0 1e+15
1986 0 1e+15
1987 0 1e+15
1988 0 1e+15
1989 0 1e+15
1990 0 1e+15
1991 0 1e+15
1992 0 1e+15
1993 0 1e+15
1994 0 1e+15
1995 0 1e+15
1996 0 1e+15
1997 0 1e+15
1998 0 1e+15
1999 0 1e+15
2000 0 1e+15
2001 0 1e+15
2002 0 1e+15
2003 0 1e+15
2004 0 1e+15
2005 0 1e+15

2006 0 1e+15
 Total 0 2.5e+16
 Input and Estimated effective Discard sample sizes for fleet 4
 1982 0 1e+15
 1983 0 1e+15
 1984 0 1e+15
 1985 0 1e+15
 1986 0 1e+15
 1987 0 1e+15
 1988 0 1e+15
 1989 0 1e+15
 1990 0 1e+15
 1991 0 1e+15
 1992 0 1e+15
 1993 0 1e+15
 1994 0 1e+15
 1995 0 1e+15
 1996 0 1e+15
 1997 0 1e+15
 1998 0 1e+15
 1999 0 1e+15
 2000 0 1e+15
 2001 0 1e+15
 2002 0 1e+15
 2003 0 1e+15
 2004 0 1e+15
 2005 0 1e+15
 2006 0 1e+15
 Total 0 2.5e+16
 Input and Estimated effective Discard sample sizes for fleet 5
 1982 0 1e+15
 1983 0 1e+15
 1984 0 1e+15
 1985 0 1e+15
 1986 0 1e+15
 1987 0 1e+15
 1988 0 1e+15
 1989 0 1e+15
 1990 0 1e+15
 1991 0 1e+15
 1992 0 1e+15
 1993 0 1e+15
 1994 0 1e+15
 1995 0 1e+15
 1996 0 1e+15
 1997 0 1e+15
 1998 0 1e+15
 1999 0 1e+15
 2000 0 1e+15
 2001 0 1e+15
 2002 0 1e+15
 2003 0 1e+15
 2004 0 1e+15
 2005 0 1e+15
 2006 0 1e+15
 Total 0 2.5e+16
 Input and Estimated effective Discard sample sizes for fleet 6

1982	0	1e+15
1983	0	1e+15
1984	0	1e+15
1985	0	1e+15
1986	0	1e+15
1987	0	1e+15
1988	0	1e+15
1989	0	1e+15
1990	0	1e+15
1991	0	1e+15
1992	0	1e+15
1993	0	1e+15
1994	0	1e+15
1995	0	1e+15
1996	0	1e+15
1997	0	1e+15
1998	0	1e+15
1999	0	1e+15
2000	0	1e+15
2001	0	1e+15
2002	0	1e+15
2003	0	1e+15
2004	0	1e+15
2005	0	1e+15
2006	0	1e+15
Total	0	2.5e+16

Observed and predicted total fleet catch by year and standardized residual
fleet 1 total catches

1982	7536	5970.07	2.33513
1983	10201	7852.01	2.62369
1984	11455	10788.6	0.600826
1985	10767	10416.3	0.331967
1986	9500	9559.79	-0.0628995
1987	9945	9774.71	0.173149
1988	11616	7893.64	3.87289
1989	6218	5589.29	1.06862
1990	2962	3466.26	-1.57603
1991	4629	4799.79	-0.363218
1992	6361	6927.82	-0.855725
1993	4401	4194.5	0.481776
1994	4969	4676.68	0.60781
1995	4911	4774.55	0.282472
1996	3947	3961.81	-0.037536
1997	3313	3376.72	-0.190968
1998	3730	3744.53	-0.038987
1999	3551	3563.09	-0.0340601
2000	3564	3576.5	-0.0351064
2001	3705	3691.18	0.0374708
2002	4723	4729.67	-0.0141448
2003	4835	4829.28	0.0118693
2004	6036	5986.71	0.0822069
2005	5984	5949.51	0.0579491
2006	4481	4478.2	0.00625614

fleet 2 total catches

1982	2864	2733.18	0.468694
1983	3201	3131.21	0.220985

1984	5674	5562.43	0.199092
1985	3907	3894.24	0.032792
1986	2687	2689.71	-0.0100884
1987	2326	2319.01	0.0301855
1988	3071	2830.39	0.817923
1989	1908	1940.74	-0.170582
1990	1237	1270.48	-0.26771
1991	1595	1613.21	-0.113816
1992	1168	1168.03	-0.000228875
1993	1313	1295.96	0.130937
1994	1620	1617.01	0.0185363
1995	2066	2047.66	0.0893968
1996	1913	1919.51	-0.0340733
1997	681	683.504	-0.0367987
1998	1346	1347.61	-0.0120205
1999	1271	1272.21	-0.00955747
2000	1521	1523.05	-0.013485
2001	1265	1263.49	0.0119431
2002	1850	1850.92	-0.00495953
2003	1614	1613.35	0.00403255
2004	2193	2186.47	0.0298806
2005	1841	1837.53	0.0189247
2006	1781	1780.52	0.00267546
fleet 3 total catches			
1982	0	2.17813e-05	-11.5918
1983	0	9.67825e-10	-0.00097019
1984	0	1.11636e-14	-1.11914e-08
1985	0	9.4865e-12	-9.51014e-06
1986	0	3.63228e-17	-3.64171e-11
1987	0	4.08966e-11	-4.09985e-05
1988	0	3.69612e-05	-15.5059
1989	709	214.057	12.006
1990	1214	1253.39	-0.320129
1991	1052	1047.28	0.0451271
1992	690	707.962	-0.257627
1993	846	827.937	0.216359
1994	434	432.886	0.0257655
1995	138	138.233	-0.016891
1996	355	356.58	-0.0445213
1997	239	238.927	0.00306082
1998	254	253.852	0.00586163
1999	1181	1171.09	0.084503
2000	592	591.019	0.0166176
2001	230	230.191	-0.0083295
2002	307	306.917	0.00272334
2003	445	445.298	-0.00671081
2004	170	170.058	-0.00341487
2005	153	152.946	0.00356469
2006	214	213.987	0.000589446
fleet 4 total catches			
1982	0	1.63688e-05	-9.72013
1983	0	8.9278e-08	-0.0891034
1984	0	1.16555e-08	-0.0116777
1985	0	1.92838e-12	-1.93319e-06
1986	0	7.7355e-14	-7.75478e-08
1987	0	4.43064e-20	-5.34235e-14
1988	0	1.1571e-13	-1.15999e-07

1989	0	1.96311e-20	-1.78078e-14
1990	0	4.10018e-18	-4.11361e-12
1991	0	3.59114e-16	-3.60003e-10
1992	0	2.08148e-10	-0.000208665
1993	0	1.39522e-05	-8.75652
1994	472	281.954	5.16521
1995	170	169.563	0.0257992
1996	108	108.092	-0.00851767
1997	86	86.0848	-0.00988289
1998	135	134.961	0.00290376
1999	367	366.883	0.00320173
2000	134	133.929	0.0052939
2001	238	237.673	0.0137981
2002	142	142.142	-0.010045
2003	83	83.02	-0.00241633
2004	74	74.0023	-0.000317263
2005	77	77.0006	-8.14275e-05
2006	74	73.998	0.000273206

fleet 5 total catches

1982	8267	7254.89	1.30922
1983	12687	11556.8	0.935381
1984	8512	8248.25	0.315544
1985	5665	5634.13	0.0547801
1986	8102	8124.26	-0.0275096
1987	5519	5476.03	0.0783624
1988	6634	5627.63	1.64929
1989	1435	1446.46	-0.0797169
1990	2329	2457.24	-0.537335
1991	3611	3709.92	-0.270917
1992	3242	3243.27	-0.00391181
1993	4006	3854.68	0.386
1994	4231	4198.86	0.0764339
1995	2459	2453.92	0.0207208
1996	4454	4574.9	-0.268497
1997	5382	5568.94	-0.34229
1998	5659	5663	-0.00708688
1999	3795	3791.77	0.00854194
2000	7470	7462.25	0.0104058
2001	5279	5251.1	0.053117
2002	3632	3648.82	-0.0463236
2003	5279	5293.14	-0.0268084
2004	4831	4814.65	0.033981
2005	4724	4705.24	0.039887
2006	4992	4989.97	0.00407941

fleet 6 total catches

1982	296	290.549	0.186339
1983	376	372.901	0.0829626
1984	415	414.238	0.0184242
1985	92	91.9744	0.00279134
1986	578	578.343	-0.00595467
1987	522	521.655	0.00662919
1988	341	334.757	0.18523
1989	45	45.0033	-0.000724943
1990	234	236.525	-0.107597
1991	429	430.001	-0.0233546
1992	344	345.698	-0.0493633
1993	910	898.999	0.121935

1994	687	682.235	0.0697731
1995	752	754.903	-0.0386219
1996	681	685.599	-0.0674722
1997	556	557.789	-0.0322068
1998	734	733.421	0.00791784
1999	711	709.573	0.0201415
2000	952	949.788	0.0233239
2001	1274	1273.05	0.00744881
2002	777	778.599	-0.0206129
2003	882	883.837	-0.0208526
2004	1034	1035.86	-0.0180007
2005	999	998.876	0.00124593
2006	795	795.002	-2.65654e-05

Observed and predicted total fleet Discards by year and standardized residual

fleet 1 total Discards

1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0

fleet 2 total Discards

1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0
1995	0	0	0
1996	0	0	0
1997	0	0	0

1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0

fleet 3 total Discards

1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0

fleet 4 total Discards

1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	0	0	0
2002	0	0	0

2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0

	fleet 5	total	Discards
1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0

	fleet 6	total	Discards
1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0

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Index data
index number 1
units = 2
month = 1
starting and ending ages for selectivity = 2 8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1992 12.3 5.48081 5.08426
1993 13.6 7.08226 4.10389
1994 12.05 8.96872 1.85748
1995 10.93 11.6494 -0.400916
1996 31.25 16.0097 4.20671
1997 10.28 17.4853 -3.34084
1998 7.76 18.8163 -5.57106
1999 11.06 19.6273 -3.6077
2000 15.77 19.6145 -1.37215
2001 18.6 18.4942 0.035871
2002 22.68 19.9931 0.793115
2003 35.64 22.4528 2.90618
2004 17.77 22.585 -1.50812
2005 12.89 22.6145 -3.53568
2006 21.06 19.9067 0.354241
index number 2
units = 2
month = 1
starting and ending ages for selectivity = 2 8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982 2.27 0.455855 7.72779
1983 0.95 0.861621 0.470048
1984 0.66 1.83504 -4.92245
1985 2.38 1.55713 2.04225
1986 2.14 1.23156 2.6597
1987 0.93 1.50131 -2.30533
1988 1.5 1.12558 1.38233
1989 0.32 0.621465 -3.19516
1990 0.72 0.696578 0.159201
1991 1.08 0.845711 1.17715
1992 1.2 0.62016 3.17755
1993 1.27 0.664527 3.11785
1994 0.93 1.07545 -0.699471
1995 1.09 1.33639 -0.98103
1996 1.76 1.94962 -0.492546
1997 1.06 2.26412 -3.65324
1998 1.19 2.27324 -3.11571
1999 1.6 2.3008 -1.74862
2000 2.14 2.3343 -0.418354
2001 2.69 2.10003 1.19184
2002 2.47 2.32527 0.290656
2003 2.91 2.61708 0.510717
2004 3.03 2.6683 0.611926
2005 1.81 2.48403 -1.52381
2006 1.77 2.39662 -1.45894
index number 3
units = 2
month = 1
starting and ending ages for selectivity = 1 5

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selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  2.5  1.07036  2.80043
1983  2.89  2.915  -0.0284315
1984  2.08  3.46954  -1.68909
1985  1.9  2.25511  -0.565653
1986  1.44  2.58739  -1.93455
1987  0.9  2.33275  -3.14413
1988  0.89  1.46489  -1.64505
1989  0.57  1.22674  -2.53032
1990  0.89  1.23419  -1.07933
1991  1.7  1.42947  0.572184
1992  2.32  1.26798  1.99441
1993  1.07  1.63066  -1.3909
1994  1.53  1.74126  -0.42698
1995  2.4  2.05544  0.511627
1996  1.96  2.54451  -0.8616
1997  2.91  2.4249  0.602023
1998  4.51  2.44389  2.02269
1999  3.78  2.45719  1.42186
2000  3.19  2.27132  1.1213
2001  2.89  2.24543  0.833106
2002  2.55  2.42939  0.159957
2003  2.87  2.54297  0.399379
2004  4.07  2.42853  1.70461
2005  2.49  2.41209  0.104939
2006  2.77  2.01475  1.05096
index number 4
units = 2
month = 1
starting and ending ages for selectivity = 3 4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  1.726  0.020156  21.4215
1983  1.049  0.00928056  22.7578
1984  0.145  0.833704  -8.41994
1985  1.296  1.66026  -1.19232
1986  0.707  0.774766  -0.440605
1987  0.653  1.0141  -2.1189
1988  1.128  1.28137  -0.613691
1989  0.465  0.358562  1.25126
1990  0.102  0.532544  -7.95564
1991  0.062  0.643778  -11.2652
1992  0.432  0.499167  -0.695656
1993  0.557  0.151569  6.26519
1994  1.265  0.905274  1.61063
1995  1.355  1.23149  0.460075
1996  0.8  1.81326  -3.93895
1997  1.46  2.62503  -2.82402
1998  1.871  2.69579  -1.75807
1999  1.99  2.37221  -0.845713
2000  2.864  2.56205  0.536297
2001  1.756  2.12303  -0.913681
2002  1.908  2.30589  -0.911769
2003  2.064  2.76895  -1.41439
2004  0.606  2.97883  -7.66544
2005  1.38  2.41771  -2.69926

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2006  3.415  2.55862  1.38978
index number 5
units = 2
month = 1
starting and ending ages for selectivity = 3  4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  1.682  0.0175228  21.9711
1983  0.779  0.00739608  22.4179
1984  0.394  0.817284  -3.51228
1985  1.935  1.52009  1.16175
1986  0.893  0.598128  1.92926
1987  0.674  0.935341  -1.57738
1988  0.435  1.12501  -4.57404
1989  0.333  0.270861  0.994208
1990  0.011  0.495354  -18.3277
1991  0.294  0.523058  -2.77326
1992  0.186  0.433915  -4.07773
1993  0.508  0.130559  6.54021
1994  0.076  0.865006  -11.707
1995  0.506  1.00775  -3.31639
1996  1.396  1.66169  -0.838657
1997  1.859  2.28206  -0.987014
1998  0.852  2.06709  -4.26648
1999  1.319  1.88874  -1.72831
2000  2.797  2.02928  1.54457
2001  1.39  1.6199  -0.736787
2002  1.48  1.87588  -1.14104
2003  1.51  2.16977  -1.74503
2004  1.591  2.31309  -1.80141
2005  3.399  1.76156  3.16397
2006  4.304  2.12704  3.39279
index number 6
units = 2
month = 1
starting and ending ages for selectivity = 3  5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1984  0.315  0.234541  0.76558
1985  0.423  0.458818  -0.210985
1986  0.19  0.217245  -0.347829
1987  0.104  0.301022  -2.75869
1988  0.267  0.358746  -0.766677
1989  0.089  0.104698  -0.421651
1990  0.041  0.158314  -3.5068
1991  0.246  0.178726  0.829269
1992  0.213  0.149582  0.917444
1993  0.184  0.0437486  3.72865
1994  0.357  0.256317  0.860006
1995  0.076  0.336891  -3.86506
1996  0.375  0.516544  -0.831232
1997  0.6  0.730271  -0.510018
1998  1.213  0.78147  1.14126
1999  1.117  0.768707  0.96999
2000  1.324  0.80793  1.28211
2001  0.825  0.682308  0.492929
2002  1.962  0.752256  2.48835

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2003  1.643  0.853245  1.70078
2004  1.422  0.962644  1.01267
2005  0.447  0.811039  -1.54641
2006  0.493  0.852492  -1.42154
index number 7
units = 2
month = 1
starting and ending ages for selectivity = 1  8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1984  0.999  2.19887  -2.04785
1985  1.191  1.46491  -0.537318
1986  1.719  1.48811  0.37439
1987  1.401  1.59613  -0.338475
1988  1.42  1.00341  0.901358
1989  0.14  0.740873  -4.32491
1990  0.87  0.75219  0.377684
1991  1.26  0.916791  0.825399
1992  1.02  0.700082  0.976918
1993  1.109  0.919455  0.486519
1994  0.55  1.10917  -1.82076
1995  0.541  1.35342  -2.38018
1996  2.191  1.84207  0.450273
1997  2.5  1.90649  0.703505
1998  1.719  1.91252  -0.276911
1999  2.68  1.96056  0.811385
2000  1.91  1.8941  0.0217017
2001  4.417  1.79349  2.33949
2002  6.121  1.96374  2.95099
2003  3.388  2.15956  1.16894
2004  1.954  2.09724  -0.183624
2005  2.41  2.07279  0.391246
2006  1.316  1.83775  -0.866813
index number 8
units = 2
month = 1
starting and ending ages for selectivity = 3  4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.59  0.012535  9.99757
1983  0.53  0.00520795  11.9991
1984  0.59  0.596057  -0.0265112
1985  0.3  1.09687  -3.36514
1986  0.64  0.418574  1.10217
1987  0.39  0.675729  -1.42671
1988  0.24  0.806146  -3.14501
1989  0.07  0.188724  -2.57438
1990  0.12  0.358349  -2.83973
1991  0.09  0.369657  -3.66711
1992  0.52  0.310399  1.3393
1993  0.29  0.0932474  2.94514
1994  0.03  0.628407  -7.89608
1995  0.2  0.713151  -3.3001
1996  1.04  1.19922  -0.369755
1997  0.99  1.63248  -1.29825
1998  0.45  1.4446  -3.02747
1999  2.26  1.32972  1.37675

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2000	1.69	1.42723	0.438648
2001	0.93	1.13096	-0.507815
2002	1.78	1.32605	0.764205
2003	2.57	1.52287	1.35834
2004	2.08	1.62058	0.647849
2005	2.07	1.21818	1.37621
2006	1.57	1.50959	0.101846

index number 9
units = 2
month = 1
starting and ending ages for selectivity = 1 8
selectivity choice = -1

year	obs index	pred index	standardized residual
1990	0.29	0.326862	-0.31059
1991	0.15	0.390696	-2.48484
1992	0.34	0.312163	0.221722
1993	0.26	0.356115	-0.81653
1994	0.17	0.48488	-2.72055
1995	0.08	0.597296	-5.21835
1996	0.96	0.814881	0.42541
1997	0.73	0.899529	-0.542052
1998	0.43	0.919792	-1.97367
1999	0.9	0.929709	-0.084299
2000	2.61	0.929861	2.67894
2001	0.98	0.860493	0.337562
2002	2.03	0.942675	1.99108
2003	3.78	1.0425	3.34351
2004	2.17	1.05416	1.87405
2005	2.49	1.00105	2.36529
2006	1.32	0.927903	0.914878

index number 10
units = 2
month = 1
starting and ending ages for selectivity = 1 8
selectivity choice = -1

year	obs index	pred index	standardized residual
1988	4.26	5.88488	-0.838714
1989	1.69	4.39393	-2.48018
1990	2.86	4.79774	-1.34281
1991	3.97	5.05149	-0.625349
1992	4.75	5.56706	-0.411994
1993	8.46	5.81988	0.970969
1994	2.83	6.52782	-2.16947
1995	8.37	7.45167	0.301662
1996	9.69	8.26943	0.411494
1997	16.35	8.13913	1.81061
1998	9.47	8.46636	0.29079
1999	11.44	8.15948	0.877178
2000	7.35	8.08929	-0.248772
2001	5.68	7.98697	-0.884769
2002	16.84	8.6326	1.73447
2003	9.84	8.60594	0.347832
2004	10.66	8.94796	0.454436
2005	11.19	8.10941	0.835802
2006	10.65	7.33559	0.967731

index number 11
units = 2


```

month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
  year, obs index, pred index, standardized residual
1986 0.32 0.38262 -0.463904
1987 0.26 0.119271 2.02278
1988 0.01 0.215559 -7.97047
1989 0.14 0.138853 0.0213615
1990 0.36 0.179477 1.80675
1991 0.38 0.146507 2.47396
1992 0.37 0.261448 0.9014
1993 0.05 0.193841 -3.51721
1994 0.57 0.22229 2.44424
1995 0.3 0.225908 0.736285
1996 0.08 0.157849 -1.76407
1997 0.22 0.152806 0.946018
1998 0.39 0.174819 2.08277
1999 0.35 0.128662 2.59764
2000 0.21 0.153688 0.810333
2001 0.14 0.161208 -0.366126
2002 0.13 0.170931 -0.710506
2003 0.21 0.115053 1.56187
2004 0.27 0.176284 1.10661
2005 0.01 0.0895175 -5.68937
2006 0.17 0.116876 0.972568

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index number 12

units = 2

month = 1

starting and ending ages for selectivity = 1 1

selectivity choice = -1

```

  year, obs index, pred index, standardized residual
1982 3.408 17.9581 -4.31382
1983 17.699 27.7909 -1.17118
1984 13.31 10.019 0.737262
1985 12.843 15.0264 -0.407546
1986 59.526 16.2027 3.37761
1987 7.584 5.05074 1.05516
1988 1.763 9.12821 -4.26824
1989 2.855 5.87995 -1.87533
1990 4.733 7.60026 -1.22938
1991 7.337 6.20409 0.435355
1992 8.487 11.0715 -0.69003
1993 4.145 8.20855 -1.77357
1994 22.311 9.41328 2.23998
1995 13.067 9.56645 0.809409
1996 6.493 6.6844 -0.0754105
1997 7.997 6.47085 0.549663
1998 14.983 7.40302 1.83004
1999 8.565 5.4484 1.1742
2000 9.874 6.50818 1.082
2001 13.543 6.82662 1.77816
2002 5.406 7.23837 -0.757647
2003 8.18 4.87211 1.345
2004 6.993 7.46506 -0.169559
2005 2.198 3.79078 -1.41471
2006 9.658 4.94932 1.73532

```

index number 13

```

units = 2
month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982 2.27 2.12047 0.176879
1983 5.01 3.28152 1.09831
1984 1.58 1.18303 0.751049
1985 1.26 1.7743 -0.88849
1986 1.26 1.9132 -1.08413
1987 0.39 0.596386 -1.1025
1988 0.54 1.07785 -1.79403
1989 1.24 0.694299 1.50541
1990 2.54 0.89743 2.70052
1991 2.64 0.732572 3.32761
1992 0.89 1.30731 -0.998054
1993 0.5 0.969257 -1.71815
1994 2.41 1.11151 2.00883
1995 0.63 1.1296 -1.51562
1996 0.81 0.789287 0.0672394
1997 0.89 0.764071 0.396002
1998 0.73 0.87414 -0.467735
1999 0.53 0.643341 -0.50304
2000 0.57 0.768479 -0.775535
2001 0.47 0.80608 -1.40025
2002 0.77 0.854698 -0.270882
2003 0.44 0.575294 -0.695922
2004 1.3 0.881466 1.00851
2005 0.35 0.447611 -0.638517
2006 0.8 0.58441 0.815071

```

Input and Estimated effective sample sizes for index 1

```

1992 100 43.808
1993 100 0.557621
1994 100 6.36623
1995 100 18.3641
1996 100 6.53857
1997 100 49.7465
1998 100 103.43
1999 100 28.5752
2000 100 17.5802
2001 100 31.5588
2002 100 17.0236
2003 100 107.507
2004 100 24.811
2005 100 81.0669
2006 100 245.687

```

Total 1500 782.621

Input and Estimated effective sample sizes for index 2

```

1982 200 0.0606725
1983 200 0.293579
1984 200 2.0214
1985 200 332.209
1986 200 33.4284
1987 200 348.478
1988 200 9.62086
1989 200 1.3145

```

1990	200	1.41036
1991	200	6.76998
1992	200	8.74047
1993	200	1.9755
1994	200	595.782
1995	200	3.65263
1996	200	3.73875
1997	200	69.8507
1998	200	218.949
1999	200	38.6778
2000	200	51.6254
2001	200	24.5799
2002	200	20.2172
2003	200	431.442
2004	200	231.349
2005	200	78.3861
2006	200	50.5252
Total	5000	2565.1

Input and Estimated effective sample sizes for index 3

1982	200	0.58047
1983	200	17.0632
1984	200	17.9177
1985	200	165.096
1986	200	270.859
1987	200	69.3924
1988	200	3.98785
1989	200	2.44251
1990	200	7.261
1991	200	5.98254
1992	200	175.091
1993	200	4889.34
1994	200	6.05223
1995	200	13.34
1996	200	73.9536
1997	200	145.684
1998	200	35.8999
1999	200	37.2363
2000	200	96.4518
2001	200	45.0888
2002	200	44.5106
2003	200	92.0734
2004	200	118.987
2005	200	895.183
2006	200	312.214

Total 5000 7541.69

Input and Estimated effective sample sizes for index 4

1982	100	8.39482
1983	100	75.2588
1984	100	0.007279
1985	100	10.49
1986	100	9.32903
1987	100	10.6897
1988	100	16.5352
1989	100	4.36532
1990	100	0.19391
1991	100	10.3053
1992	100	505.915

1993	100	11.6449
1994	100	258.151
1995	100	2.61214
1996	100	820.995
1997	100	16.682
1998	100	36.1991
1999	100	6.90336
2000	100	165.083
2001	100	363.932
2002	100	12.9416
2003	100	24.8506
2004	100	17.3341
2005	100	4.5544
2006	100	686.215
Total	2500	3079.58
Input and Estimated effective sample sizes for index 5		
1982	100	8.37857
1983	100	190.175
1984	100	0.00744726
1985	100	26.5766
1986	100	254.536
1987	100	26.7538
1988	100	9.84369
1989	100	3.40125
1990	100	0.0572045
1991	100	4.75626
1992	100	6.86439
1993	100	19.2885
1994	100	36.8234
1995	100	4.0852
1996	100	433.743
1997	100	28.9208
1998	100	199.245
1999	100	53.6636
2000	100	51.8603
2001	100	53.4689
2002	100	23.1804
2003	100	29.8531
2004	100	6.25595
2005	100	76.1243
2006	100	63.2604
Total	2500	1611.12
Input and Estimated effective sample sizes for index 6		
1984	100	0.108932
1985	100	6.42799
1986	100	78.7149
1987	100	126.549
1988	100	75.7512
1989	100	27.3127
1990	100	1.71234
1991	100	9.19794
1992	100	11.7058
1993	100	17.256
1994	100	19.3062
1995	100	115.552
1996	100	6.87779
1997	100	21.1447

1998	100	93.9813
1999	100	90.5935
2000	100	30.5635
2001	100	34.4762
2002	100	63.1121
2003	100	52.2532
2004	100	91.0283
2005	100	11.7648
2006	100	18.5144

Total 2300 1003.91

Input and Estimated effective sample sizes for index 7

1984	100	5.23319
1985	100	27.0258
1986	100	241.891
1987	100	21.2738
1988	100	5.41881
1989	100	0.830844
1990	100	7.17044
1991	100	76.0327
1992	100	23.6082
1993	100	17.7015
1994	100	7.57609
1995	100	13.982
1996	100	21.1072
1997	100	76.6199
1998	100	8.20103
1999	100	13.7323
2000	100	77.6332
2001	100	9.21016
2002	100	18.2604
2003	100	45.3026
2004	100	53.5258
2005	100	38.8581
2006	100	132.506

Total 2300 942.701

Input and Estimated effective sample sizes for index 8

1982	100	1186.22
1983	100	3076.57
1984	100	0.0230121
1985	100	1419.08
1986	100	158.295
1987	100	5931.68
1988	100	8.97249
1989	100	2.81165
1990	100	20.6031
1991	100	31.2626
1992	100	9.41173
1993	100	7.05119
1994	100	43.3997
1995	100	4.81478
1996	100	22.6548
1997	100	15.3148
1998	100	92.5184
1999	100	73.4836
2000	100	48.2867
2001	100	35.6999
2002	100	67.1358

2003	100	208.097
2004	100	8.4355
2005	100	305.25
2006	100	8.43741
Total	2500	12785.5
Input and Estimated effective sample sizes for index 9		
1990	100	7.26999
1991	100	7.14964
1992	100	23.6592
1993	100	1.66187
1994	100	9.1535
1995	100	5.0661
1996	100	49.8249
1997	100	121.29
1998	100	22.7625
1999	100	635.002
2000	100	141.918
2001	100	20.5765
2002	100	22.1646
2003	100	23.0369
2004	100	72.5359
2005	100	56.2258
2006	100	29.906
Total	1700	1249.2
Input and Estimated effective sample sizes for index 10		
1988	100	1.48793
1989	100	9.08255
1990	100	17.9709
1991	100	8.52108
1992	100	1.88521
1993	100	13.3611
1994	100	14.5023
1995	100	11.6114
1996	100	49.898
1997	100	12.2684
1998	100	4.73133
1999	100	14.0643
2000	100	8.43251
2001	100	7.76601
2002	100	9.02435
2003	100	9.83115
2004	100	4.05491
2005	100	10.1301
2006	100	5.59076
Total	1900	214.214
Input and Estimated effective sample sizes for index 11		
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0

1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 12

1982	0	0
1983	0	0
1984	0	0
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 13

1982	0	0
1983	0	0
1984	0	0
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0

2000 0 0
 2001 0 0
 2002 0 0
 2003 0 0
 2004 0 0
 2005 0 0
 2006 0 0
 Total 0 0

Survey proportions at age by index

Index number 1

Year 1992 Obs = -1 0.581582 0.385385 0.027027 0.003003 0.001001 0.002002 0
 Year 1992 Pred = -1 0.537365 0.314276 0.0980548 0.0436503 0.00386281
 0.0023173 0.000474207
 Year 1993 Obs = -1 0.478 0.493 0.023 0.004 0.001 0.001 0
 Year 1993 Pred = -1 0.893863 0.0723216 0.0246687 0.00626094 0.00253299
 0.000206141 0.000146787
 Year 1994 Obs = -1 0.311688 0.597403 0.0679321 0.021978 0 0 0.000999001
 Year 1994 Pred = -1 0.538861 0.427038 0.0248372 0.00697561 0.00159757
 0.000608286 8.25858e-05
 Year 1995 Obs = -1 0.555 0.42 0.023 0.002 0 0 0
 Year 1995 Pred = -1 0.506976 0.316061 0.165698 0.00847162 0.00214131
 0.000458027 0.000194004
 Year 1996 Obs = -1 0.709 0.267 0.019 0.004 0.001 0 0
 Year 1996 Pred = -1 0.472151 0.439108 0.0705333 0.017222 0.000752887
 0.000179613 5.36199e-05
 Year 1997 Obs = -1 0.375 0.467 0.101 0.042 0.011 0.004 0
 Year 1997 Pred = -1 0.302847 0.518141 0.161536 0.0142899 0.00302279
 0.0001249 3.78952e-05
 Year 1998 Obs = -1 0.216216 0.419419 0.295295 0.0540541 0.013013 0.001001
 0.001001
 Year 1998 Pred = -1 0.273668 0.361564 0.295673 0.0631165 0.00493703
 0.000988716 5.21081e-05
 Year 1999 Obs = -1 0.191191 0.434434 0.262262 0.0760761 0.025025 0.00500501
 0.00600601
 Year 1999 Pred = -1 0.299996 0.337169 0.215197 0.122377 0.0231886 0.00171769
 0.000355397
 Year 2000 Obs = -1 0.044044 0.413413 0.315315 0.159159 0.049049 0.011011
 0.00800801
 Year 2000 Pred = -1 0.221258 0.359498 0.237782 0.112644 0.0577043 0.0102113
 0.000902332
 Year 2001 Obs = -1 0.165 0.287 0.345 0.131 0.043 0.02 0.009
 Year 2001 Pred = -1 0.279685 0.285787 0.241079 0.115825 0.0492584 0.0238481
 0.00451774
 Year 2002 Obs = -1 0.122 0.474 0.246 0.1 0.037 0.014 0.007
 Year 2002 Pred = -1 0.271544 0.33982 0.18611 0.118634 0.0513998 0.0207585
 0.0117349
 Year 2003 Obs = -1 0.229 0.403 0.238 0.075 0.029 0.011 0.015
 Year 2003 Pred = -1 0.257022 0.329992 0.234531 0.0918575 0.0520456 0.0213522
 0.0132008
 Year 2004 Obs = -1 0.082 0.488 0.257 0.092 0.035 0.023 0.023
 Year 2004 Pred = -1 0.172008 0.344461 0.259843 0.134907 0.0471033 0.0252722
 0.016406
 Year 2005 Obs = -1 0.22977 0.312687 0.237762 0.103896 0.0539461 0.025974
 0.035964
 Year 2005 Pred = -1 0.262937 0.232891 0.259945 0.139669 0.0646131 0.0214249
 0.0185202

Year 2006 Obs = -1 0.125 0.43 0.204 0.117 0.063 0.027 0.034
Year 2006 Pred = -1 0.151531 0.399401 0.185364 0.145149 0.0695303 0.0305718
0.018453
Index number 2
Year 1982 Obs = -1 0.308 0.63 0.053 0.009 0 0 0
Year 1982 Pred = -1 0.0121701 0.0246488 0.00518885 0.957571 0.000175522
0.000230868 1.43969e-05
Year 1983 Obs = -1 0.336327 0.41018 0.199601 0.0319361 0.010978 0 0.010978
Year 1983 Pred = -1 0.913533 0.00486505 0.00208339 0.000429736 0.079055
1.43779e-05 1.983e-05
Year 1984 Obs = -1 0.258 0.5 0.136 0.076 0 0.015 0.015
Year 1984 Pred = -1 0.667018 0.326909 0.000363914 0.000150554 3.05695e-05
0.00552583 2.3186e-06
Year 1985 Obs = -1 0.231231 0.655656 0.0880881 0.017017 0.00800801 0 0
Year 1985 Pred = -1 0.259011 0.666374 0.0733595 7.88576e-05 3.21071e-05
6.409e-06 0.00113825
Year 1986 Obs = -1 0.692 0.201 0.093 0.009 0.005 0 0
Year 1986 Pred = -1 0.585649 0.261233 0.138159 0.0147185 1.56161e-05
6.27488e-06 0.000217879
Year 1987 Obs = -1 0.505 0.462 0.022 0.011 0 0 0
Year 1987 Pred = -1 0.505739 0.428838 0.0416735 0.0214487 0.00226471
2.37543e-06 3.31298e-05
Year 1988 Obs = -1 0.4 0.54 0.047 0.013 0 0 0
Year 1988 Pred = -1 0.209535 0.648954 0.123292 0.0116505 0.00593955
0.000619922 9.45792e-06
Year 1989 Obs = -1 0.187812 0.718282 0.0629371 0.030969 0 0 0
Year 1989 Pred = -1 0.608735 0.225593 0.136773 0.0252312 0.00235817
0.00118584 0.0001236
Year 1990 Obs = -1 0.875 0.042 0.083 0 0 0 0
Year 1990 Pred = -1 0.435843 0.494107 0.0408812 0.0241054 0.00442821
0.000409149 0.000225875
Year 1991 Obs = -1 0.731 0.25 0 0.019 0 0 0
Year 1991 Pred = -1 0.485433 0.36111 0.134814 0.0108265 0.00649897 0.0011511
0.000166784
Year 1992 Obs = -1 0.642 0.342 0.008 0 0.008 0 0
Year 1992 Pred = -1 0.417973 0.448613 0.0945238 0.0341934 0.00276903
0.00160444 0.000324062
Year 1993 Obs = -1 0.575 0.394 0.031 0 0 0 0
Year 1993 Pred = -1 0.838432 0.124493 0.0286772 0.00591443 0.00218966
0.000172117 0.000120966
Year 1994 Obs = -1 0.376 0.57 0.043 0.011 0 0 0
Year 1994 Pred = -1 0.395509 0.575211 0.0225931 0.0051563 0.00108065
0.000397421 5.32557e-05
Year 1995 Obs = -1 0.725 0.248 0.018 0 0 0 0.009
Year 1995 Pred = -1 0.388949 0.444998 0.157549 0.00654559 0.00151401
0.000312795 0.000130767
Year 1996 Obs = -1 0.614 0.318 0.068 0 0 0 0
Year 1996 Pred = -1 0.341234 0.582403 0.063177 0.0125352 0.000501472
0.00011555 3.4047e-05
Year 1997 Obs = -1 0.274 0.632 0.085 0.009 0 0 0
Year 1997 Pred = -1 0.205842 0.646311 0.136074 0.00978174 0.0018935
7.55679e-05 2.26296e-05
Year 1998 Obs = -1 0.227227 0.437437 0.269269 0.0500501 0.00800801
0.00800801 0
Year 1998 Pred = -1 0.199366 0.483386 0.266951 0.046307 0.00331466
0.000641154 3.33513e-05
Year 1999 Obs = -1 0.137862 0.462537 0.2997 0.0809191 0.012987 0.00599401 0

Year 1999 Pred = -1 0.225234 0.464567 0.200239 0.0925324 0.016045 0.00114797
0.000234431
Year 2000 Obs = -1 0.0890891 0.481481 0.294294 0.0560561 0.0700701
0.00900901 0
Year 2000 Pred = -1 0.163627 0.487904 0.217936 0.0838958 0.0393287
0.00672201 0.000586278
Year 2001 Obs = -1 0.178 0.331 0.379 0.074 0.019 0.015 0.004
Year 2001 Pred = -1 0.216779 0.406511 0.231581 0.0904122 0.0351864 0.0164538
0.00307646
Year 2002 Obs = -1 0.138 0.36 0.3 0.126 0.04 0.012 0.024
Year 2002 Pred = -1 0.205486 0.471925 0.174544 0.0904124 0.0358468 0.0139831
0.00780198
Year 2003 Obs = -1 0.185814 0.442557 0.202797 0.0999001 0.044955 0.020979
0.002997
Year 2003 Pred = -1 0.194071 0.457274 0.219475 0.0698527 0.0362178 0.0143515
0.00875739
Year 2004 Obs = -1 0.0988024 0.478044 0.280439 0.0888224 0.0169661
0.0199601 0.0169661
Year 2004 Pred = -1 0.128136 0.470918 0.239899 0.101212 0.0323385 0.0167583
0.0107376
Year 2005 Obs = -1 0.144 0.359 0.32 0.083 0.055 0.028 0.011
Year 2005 Pred = -1 0.210678 0.342453 0.258133 0.112705 0.0477126 0.0152809
0.0130375
Year 2006 Obs = -1 0.022977 0.587413 0.135864 0.140859 0.0509491 0.033966
0.027972
Year 2006 Pred = -1 0.110774 0.535831 0.167941 0.106863 0.0468443 0.019894
0.0118518
Index number 3
Year 1982 Obs = 0.22 0.608 0.16 0.012 0 -1 -1 -1
Year 1982 Pred = 0.726929 0.0112397 0.00665987 0.00137546 0.253796 -1 -1 -1
Year 1983 Obs = 0.332 0.505 0.118 0.042 0.003 -1 -1 -1
Year 1983 Pred = 0.413073 0.585553 0.000912297 0.00038329 7.90489e-05 -1 -1
-1
Year 1984 Obs = 0.0869131 0.667333 0.206793 0.033966 0.004995 -1 -1 -1
Year 1984 Pred = 0.125116 0.765023 0.109691 0.000119799 4.95542e-05 -1 -1 -1
Year 1985 Obs = 0.311 0.421 0.242 0.026 0 -1 -1 -1
Year 1985 Pred = 0.288701 0.387829 0.291909 0.0315278 3.38858e-05 -1 -1 -1
Year 1986 Obs = 0.271271 0.576577 0.0760761 0.0760761 0 -1 -1 -1
Year 1986 Pred = 0.271323 0.604501 0.0788851 0.0409311 0.00435988 -1 -1 -1
Year 1987 Obs = 0.0780781 0.644645 0.222222 0.033033 0.022022 -1 -1 -1
Year 1987 Pred = 0.0938097 0.705815 0.175092 0.0166932 0.00859046 -1 -1 -1
Year 1988 Obs = 0.067 0.697 0.202 0.034 0 -1 -1 -1
Year 1988 Pred = 0.269987 0.349135 0.316343 0.0589642 0.00557103 -1 -1 -1
Year 1989 Obs = 0.544 0.368 0.088 0 0 -1 -1 -1
Year 1989 Pred = 0.207675 0.66874 0.0725042 0.0431265 0.00795461 -1 -1 -1
Year 1990 Obs = 0.494 0.427 0.034 0.045 0 -1 -1 -1
Year 1990 Pred = 0.266814 0.533436 0.176922 0.0143612 0.00846679 -1 -1 -1
Year 1991 Obs = 0.447 0.494 0.053 0 0.006 -1 -1 -1
Year 1991 Pred = 0.188046 0.622788 0.135537 0.0496433 0.00398611 -1 -1 -1
Year 1992 Obs = 0.427 0.448 0.108 0.013 0.004 -1 -1 -1
Year 1992 Pred = 0.378315 0.443305 0.139198 0.0287747 0.0104076 -1 -1 -1
Year 1993 Obs = 0.215 0.748 0.028 0.009 0 -1 -1 -1
Year 1993 Pred = 0.218104 0.740936 0.032186 0.00727387 0.00149995 -1 -1 -1
Year 1994 Obs = 0.48951 0.437562 0.0589411 0.00699301 0.00699301 -1 -1 -1
Year 1994 Pred = 0.234228 0.52972 0.225385 0.00868523 0.00198189 -1 -1 -1
Year 1995 Obs = 0.388 0.483 0.117 0.008 0.004 -1 -1 -1
Year 1995 Pred = 0.201655 0.548388 0.183552 0.0637568 0.00264847 -1 -1 -1

Year 1996 Obs = 0.056 0.633 0.291 0.02 0 -1 -1 -1
Year 1996 Pred = 0.11382 0.566972 0.283101 0.030129 0.00597712 -1 -1 -1
Year 1997 Obs = 0.058 0.443 0.392 0.1 0.007 -1 -1 -1
Year 1997 Pred = 0.115619 0.416777 0.382841 0.0790787 0.00568379 -1 -1 -1
Year 1998 Obs = 0.0840841 0.472472 0.361361 0.0730731 0.00900901 -1 -1 -1
Year 1998 Pred = 0.131247 0.402142 0.285253 0.154552 0.0268057 -1 -1 -1
Year 1999 Obs = 0.0559441 0.457542 0.393606 0.0819181 0.010989 -1 -1 -1
Year 1999 Pred = 0.0960709 0.45734 0.27597 0.1167 0.0539201 -1 -1 -1
Year 2000 Obs = 0.0690691 0.376376 0.382382 0.125125 0.047047 -1 -1 -1
Year 2000 Pred = 0.124149 0.364669 0.318116 0.139408 0.0536581 -1 -1 -1
Year 2001 Obs = 0.041958 0.470529 0.321678 0.127872 0.037962 -1 -1 -1
Year 2001 Pred = 0.131725 0.439651 0.241196 0.134806 0.0526222 -1 -1 -1
Year 2002 Obs = 0.024 0.459 0.337 0.137 0.043 -1 -1 -1
Year 2002 Pred = 0.129094 0.426505 0.286564 0.103983 0.0538544 -1 -1 -1
Year 2003 Obs = 0.063 0.456 0.359 0.087 0.035 -1 -1 -1
Year 2003 Pred = 0.0830113 0.433112 0.298554 0.140585 0.0447377 -1 -1 -1
Year 2004 Obs = 0.088 0.366 0.337 0.162 0.047 -1 -1 -1
Year 2004 Pred = 0.133184 0.3053 0.328252 0.164058 0.0692055 -1 -1 -1
Year 2005 Obs = 0.064 0.458 0.217 0.189 0.072 -1 -1 -1
Year 2005 Pred = 0.0680919 0.470485 0.223736 0.165457 0.0722307 -1 -1 -1
Year 2006 Obs = 0.112112 0.26026 0.44044 0.126126 0.0610611 -1 -1 -1
Year 2006 Pred = 0.106435 0.285746 0.404369 0.124341 0.0791085 -1 -1 -1
Index number 4
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Year 1983 Obs = -1 -1 0.571 0.429 -1 -1 -1 -1
Year 1983 Pred = -1 -1 0.626753 0.373247 -1 -1 -1 -1
Year 1984 Obs = -1 -1 0.538 0.462 -1 -1 -1 -1
Year 1984 Pred = -1 -1 0.998454 0.00154567 -1 -1 -1 -1
Year 1985 Obs = -1 -1 0.972 0.028 -1 -1 -1 -1
Year 1985 Pred = -1 -1 0.867233 0.132767 -1 -1 -1 -1
Year 1986 Obs = -1 -1 0.738 0.262 -1 -1 -1 -1
Year 1986 Pred = -1 -1 0.576212 0.423788 -1 -1 -1 -1
Year 1987 Obs = -1 -1 0.98 0.02 -1 -1 -1 -1
Year 1987 Pred = -1 -1 0.880949 0.119051 -1 -1 -1 -1
Year 1988 Obs = -1 -1 0.891 0.109 -1 -1 -1 -1
Year 1988 Pred = -1 -1 0.791012 0.208988 -1 -1 -1 -1
Year 1989 Obs = -1 -1 0.781 0.219 -1 -1 -1 -1
Year 1989 Pred = -1 -1 0.542558 0.457442 -1 -1 -1 -1
Year 1990 Obs = -1 -1 0.206 0.794 -1 -1 -1 -1
Year 1990 Pred = -1 -1 0.896814 0.103186 -1 -1 -1 -1
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Year 1991 Pred = -1 -1 0.658253 0.341747 -1 -1 -1 -1
Year 1992 Obs = -1 -1 0.792 0.208 -1 -1 -1 -1
Year 1992 Pred = -1 -1 0.773388 0.226612 -1 -1 -1 -1
Year 1993 Obs = -1 -1 0.883 0.117 -1 -1 -1 -1
Year 1993 Pred = -1 -1 0.757382 0.242618 -1 -1 -1 -1
Year 1994 Obs = -1 -1 0.962 0.038 -1 -1 -1 -1
Year 1994 Pred = -1 -1 0.948207 0.0517927 -1 -1 -1 -1
Year 1995 Obs = -1 -1 0.961 0.039 -1 -1 -1 -1
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Year 1996 Obs = -1 -1 0.857143 0.142857 -1 -1 -1 -1
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Year 1997 Obs = -1 -1 0.876 0.124 -1 -1 -1 -1
Year 1997 Pred = -1 -1 0.773523 0.226477 -1 -1 -1 -1
Year 1998 Obs = -1 -1 0.648 0.352 -1 -1 -1 -1
Year 1998 Pred = -1 -1 0.565615 0.434385 -1 -1 -1 -1

Year 1999 Obs	=	-1	-1	0.441	0.559	-1	-1	-1	-1
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Year 2000 Obs	=	-1	-1	0.579	0.421	-1	-1	-1	-1
Year 2000 Pred	=	-1	-1	0.616838	0.383162	-1	-1	-1	-1
Year 2001 Obs	=	-1	-1	0.584	0.416	-1	-1	-1	-1
Year 2001 Pred	=	-1	-1	0.557967	0.442033	-1	-1	-1	-1
Year 2002 Obs	=	-1	-1	0.792	0.208	-1	-1	-1	-1
Year 2002 Pred	=	-1	-1	0.660354	0.339646	-1	-1	-1	-1
Year 2003 Obs	=	-1	-1	0.698	0.302	-1	-1	-1	-1
Year 2003 Pred	=	-1	-1	0.599715	0.400285	-1	-1	-1	-1
Year 2004 Obs	=	-1	-1	0.467	0.533	-1	-1	-1	-1
Year 2004 Pred	=	-1	-1	0.585332	0.414668	-1	-1	-1	-1
Year 2005 Obs	=	-1	-1	0.254	0.746	-1	-1	-1	-1
Year 2005 Pred	=	-1	-1	0.488225	0.511775	-1	-1	-1	-1
Year 2006 Obs	=	-1	-1	0.714	0.286	-1	-1	-1	-1
Year 2006 Pred	=	-1	-1	0.696448	0.303552	-1	-1	-1	-1
Index number 5									
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Year 1982 Pred	=	-1	-1	0.872946	0.127054	-1	-1	-1	-1
Year 1983 Obs	=	-1	-1	0.802	0.198	-1	-1	-1	-1
Year 1983 Pred	=	-1	-1	0.771556	0.228444	-1	-1	-1	-1
Year 1984 Obs	=	-1	-1	0.678	0.322	-1	-1	-1	-1
Year 1984 Pred	=	-1	-1	0.999231	0.00076907	-1	-1	-1	-1
Year 1985 Obs	=	-1	-1	0.979	0.021	-1	-1	-1	-1
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Year 1986 Obs	=	-1	-1	0.76	0.24	-1	-1	-1	-1
Year 1986 Pred	=	-1	-1	0.732246	0.267754	-1	-1	-1	-1
Year 1987 Obs	=	-1	-1	0.984	0.016	-1	-1	-1	-1
Year 1987 Pred	=	-1	-1	0.937042	0.0629584	-1	-1	-1	-1
Year 1988 Obs	=	-1	-1	0.986	0.014	-1	-1	-1	-1
Year 1988 Pred	=	-1	-1	0.883895	0.116105	-1	-1	-1	-1
Year 1989 Obs	=	-1	-1	0.952	0.048	-1	-1	-1	-1
Year 1989 Pred	=	-1	-1	0.704632	0.295368	-1	-1	-1	-1
Year 1990 Obs	=	-1	-1	0	1	-1	-1	-1	-1
Year 1990 Pred	=	-1	-1	0.945891	0.0541092	-1	-1	-1	-1
Year 1991 Obs	=	-1	-1	0.98	0.02	-1	-1	-1	-1
Year 1991 Pred	=	-1	-1	0.794836	0.205164	-1	-1	-1	-1
Year 1992 Obs	=	-1	-1	1	0	-1	-1	-1	-1
Year 1992 Pred	=	-1	-1	0.872845	0.127155	-1	-1	-1	-1
Year 1993 Obs	=	-1	-1	0.941	0.059	-1	-1	-1	-1
Year 1993 Pred	=	-1	-1	0.862616	0.137384	-1	-1	-1	-1
Year 1994 Obs	=	-1	-1	1	0	-1	-1	-1	-1
Year 1994 Pred	=	-1	-1	0.973561	0.0264387	-1	-1	-1	-1
Year 1995 Obs	=	-1	-1	1	0	-1	-1	-1	-1
Year 1995 Pred	=	-1	-1	0.803351	0.196649	-1	-1	-1	-1
Year 1996 Obs	=	-1	-1	0.918	0.082	-1	-1	-1	-1
Year 1996 Pred	=	-1	-1	0.930232	0.0697677	-1	-1	-1	-1
Year 1997 Obs	=	-1	-1	0.811	0.189	-1	-1	-1	-1
Year 1997 Pred	=	-1	-1	0.872931	0.127069	-1	-1	-1	-1
Year 1998 Obs	=	-1	-1	0.692	0.308	-1	-1	-1	-1
Year 1998 Pred	=	-1	-1	0.72368	0.27632	-1	-1	-1	-1
Year 1999 Obs	=	-1	-1	0.713	0.287	-1	-1	-1	-1
Year 1999 Pred	=	-1	-1	0.770411	0.229589	-1	-1	-1	-1
Year 2000 Obs	=	-1	-1	0.823	0.177	-1	-1	-1	-1
Year 2000 Pred	=	-1	-1	0.76404	0.23596	-1	-1	-1	-1
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Year 2001 Pred	=	-1	-1	0.717425	0.282575	-1	-1	-1	-1

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Year 2002 Pred = -1 -1 0.796357 0.203643 -1 -1 -1 -1
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Year 2006 Obs = -1 -1 0.87 0.13 -1 -1 -1 -1
Year 2006 Pred = -1 -1 0.821896 0.178104 -1 -1 -1 -1
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Year 1987 Pred = -1 -1 0.834456 0.098073 0.0674712 -1 -1 -1
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Year 1989 Pred = -1 -1 0.52245 0.383087 0.0944635 -1 -1 -1
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Index number 7

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0 0
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Year 1986 Obs = 0.1 0.681 0.173 0.042 0.003 0.001 0 0
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Year 1987 Pred = 0.0281728 0.661383 0.26922 0.0262533 0.0135203 0.00142761
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0 0
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Year 1996 Pred = 0.0323073 0.502137 0.411418 0.0447845 0.00889123
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0.002002 0
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Year 1998 Pred = 0.0344624 0.329471 0.383485 0.212517 0.036887 0.00264043
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0.000902875 0.00018438
Year 2000 Obs = 0.0588822 0.206587 0.45509 0.178643 0.0648703 0.0229541
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Year 2000 Pred = 0.0305915 0.280373 0.401333 0.179891 0.069292 0.0324835
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 Year 2002 Pred = 0.0328172 0.338299 0.372974 0.138427 0.0717475 0.0284472
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 Year 2005 Obs = 0.028 0.454 0.309 0.147 0.036 0.013 0.005 0.008
 Year 2005 Pred = 0.0162823 0.351031 0.273915 0.207189 0.0905173 0.0383205
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Index number 8

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Year 2006 Pred = -1 -1 0.844693 0.155307 -1 -1 -1 -1
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0.000337528 0.000186337
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Year 1991 Pred = 0.0788575 0.522824 0.270926 0.111779 0.00906429 0.00544534
0.000964538 0.000139753
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Year 1992 Pred = 0.176128 0.413154 0.308902 0.0719293 0.0262741 0.00212934
0.00123387 0.000249215
Year 1993 Obs = 0.04 0.42 0.35 0.15 0 0 0.04 0
Year 1993 Pred = 0.114467 0.778455 0.0805187 0.0204976 0.00426874 0.0015816
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Year 1996 Pred = 0.0407354 0.406209 0.482955 0.0578972 0.0115998 0.000464407
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Year 1997 Obs = 0.0505051 0.232323 0.525253 0.181818 0.010101 0 0 0
Year 1997 Pred = 0.0357231 0.257787 0.563836 0.13119 0.00952279 0.00184479
7.36283e-05 2.20488e-05
Year 1998 Obs = 0 0.16 0.56 0.26 0.02 0 0 0
Year 1998 Pred = 0.039969 0.24516 0.414074 0.252715 0.0442656 0.00317097
0.000613396 3.19076e-05
Year 1999 Obs = 0.03 0.29 0.41 0.19 0.06 0.02 0 0
Year 1999 Pred = 0.0291022 0.277338 0.398482 0.189812 0.0885708 0.0153698
0.00109973 0.000224581
Year 2000 Obs = 0.03 0.24 0.47 0.19 0.05 0.02 0 0
Year 2000 Pred = 0.0347573 0.20438 0.424523 0.209562 0.0814599 0.0382161
0.00653223 0.000569729
Year 2001 Obs = 0.01 0.43 0.29 0.15 0.06 0.04 0.02 0
Year 2001 Pred = 0.0393969 0.263231 0.343857 0.216482 0.085343 0.0332391
0.0155442 0.00290638
Year 2002 Obs = 0.0505051 0.40404 0.313131 0.151515 0.0505051 0.020202 0
0.010101
Year 2002 Pred = 0.0381313 0.252196 0.403471 0.164915 0.0862589 0.0342262
0.0133517 0.00744975

Year 2003 Obs = 0.010101 0.393939 0.383838 0.121212 0.0606061 0.020202
0.010101 0
Year 2003 Pred = 0.0232083 0.242406 0.397871 0.211041 0.0678243 0.0351931
0.0139463 0.00851017
Year 2004 Obs = 0.049505 0.247525 0.405941 0.207921 0.0594059 0.019802
0.00990099 0
Year 2004 Pred = 0.0351667 0.161378 0.413145 0.232595 0.0990894 0.0316845
0.0164204 0.0105211
Year 2005 Obs = 0.02 0.22 0.39 0.21 0.07 0.06 0.01 0.02
Year 2005 Pred = 0.0188051 0.260114 0.29453 0.245351 0.10817 0.0458281
0.0146782 0.0125233
Year 2006 Obs = 0 0.178218 0.356436 0.217822 0.168317 0.049505 0.019802
0.00990099
Year 2006 Pred = 0.0264878 0.142357 0.47968 0.166148 0.106755 0.0468328
0.0198903 0.0118497
Index number 10
Year 1988 Obs = 0.04 0.72 0.24 0 0 0 0 0
Year 1988 Pred = 0.478662 0.221002 0.242844 0.0498092 0.00488706 0.00252723
0.000265172 4.05354e-06
Year 1989 Obs = 0.59 0.3 0.11 0 0 0 0 0
Year 1989 Pred = 0.412954 0.474778 0.0624256 0.0408599 0.00782641
0.000741974 0.000375094 3.91723e-05
Year 1990 Obs = 0.45 0.5 0.04 0.01 0 0 0 0
Year 1990 Pred = 0.488847 0.348949 0.140355 0.0125369 0.00767554 0.00143025
0.000132851 7.34852e-05
Year 1991 Obs = 0.25 0.68 0.07 0 0 0 0 0
Year 1991 Pred = 0.379 0.448158 0.118281 0.0476728 0.00397512 0.00242046
0.000430988 6.25684e-05
Year 1992 Obs = 0.232323 0.636364 0.121212 0.010101 0 0 0 0
Year 1992 Pred = 0.613706 0.256759 0.0977738 0.0222409 0.00835377
0.000686208 0.000399716 8.08919e-05
Year 1993 Obs = 0.30303 0.676768 0.020202 0 0 0 0 0
Year 1993 Pred = 0.435244 0.527916 0.0278111 0.00691623 0.00148106
0.000556192 4.39514e-05 3.09501e-05
Year 1994 Obs = 0.584158 0.376238 0.029703 0 0.00990099 0 0 0
Year 1994 Pred = 0.444993 0.359315 0.185405 0.00786194 0.00186303
0.000396055 0.000146427 1.96601e-05
Year 1995 Obs = 0.59 0.35 0.03 0.01 0.02 0 0 0
Year 1995 Pred = 0.396167 0.384657 0.156139 0.0596804 0.00257449 0.000604034
0.000125456 5.25506e-05
Year 1996 Obs = 0.168317 0.524752 0.277228 0.019802 0.00990099 0 0 0
Year 1996 Pred = 0.249441 0.443635 0.26864 0.0314606 0.00648136 0.00026301
6.09251e-05 1.79867e-05
Year 1997 Obs = 0.10101 0.505051 0.323232 0.0606061 0.010101 0 0 0
Year 1997 Pred = 0.245338 0.315759 0.351751 0.0799521 0.00596759 0.00117176
4.7012e-05 1.41058e-05
Year 1998 Obs = 0.0707071 0.616162 0.282828 0.030303 0 0 0 0
Year 1998 Pred = 0.269831 0.295189 0.253931 0.151396 0.0272682 0.00197987
0.000385 2.0066e-05
Year 1999 Obs = 0.09 0.53 0.3 0.06 0.01 0.01 0 0
Year 1999 Pred = 0.206057 0.350228 0.256294 0.119261 0.0572233 0.0100648
0.000723929 0.000148126
Year 2000 Obs = 0.128713 0.524752 0.247525 0.0594059 0.019802 0.00990099
0.00990099 0
Year 2000 Pred = 0.248273 0.260376 0.275457 0.132834 0.0530944 0.0252469
0.00433807 0.000379096
Year 2001 Obs = 0.11 0.58 0.21 0.07 0.02 0.01 0 0

Year 2001 Pred = 0.263757 0.314311 0.209117 0.128611 0.0521352 0.0205811
 0.0096752 0.00181256
 Year 2002 Obs = 0.09 0.54 0.25 0.08 0.03 0.01 0 0
 Year 2002 Pred = 0.25875 0.305221 0.248702 0.0993053 0.0534099 0.0214799
 0.00842335 0.00470908
 Year 2003 Obs = 0.0594059 0.564356 0.257426 0.0594059 0.019802 0.019802
 0.00990099 0.00990099
 Year 2003 Pred = 0.174703 0.325446 0.272062 0.140973 0.0465868 0.0245014
 0.00976037 0.00596749
 Year 2004 Obs = 0.0808081 0.59596 0.232323 0.0505051 0.020202 0.010101
 0.010101 0
 Year 2004 Pred = 0.257448 0.210709 0.274745 0.151103 0.0661921 0.0214527
 0.0111761 0.00717493
 Year 2005 Obs = 0.277228 0.534653 0.108911 0.049505 0.019802 0.00990099 0 0
 Year 2005 Pred = 0.144251 0.355865 0.20523 0.167011 0.0757133 0.0325126
 0.0104681 0.00894871
 Year 2006 Obs = 0.0792079 0.534653 0.29703 0.049505 0.019802 0.00990099
 0.00990099 0
 Year 2006 Pred = 0.208205 0.199573 0.342503 0.115892 0.0765691 0.0340464
 0.0145357 0.00867656
 Index number 11
 N/A
 Index number 12
 N/A
 Index number 13
 N/A

Index Selectivity at Age

0.106403 0.244817 0.469495 0.708798 0.872376 0.953313 0.987 1
 0.00292969 0.278651 0.980689 0.99985 0.99999 1 1 1
 0.224921 0.970976 0.999741 0.999998 1 1 1 1
 0 0 0.70531 1 0 0 0 0
 0 0 0.999975 0.704889 0 0 0 0
 0 0 0.606629 0.748008 1 0 0 0
 0.042917 0.57808 0.97667 0.999219 0.999974 0.999999 1 1
 0 0 1 0.598093 0 0 0 0
 0.0414441 0.35816 0.87808 0.989357 0.999168 0.999936 0.999995 1
 0.444903 0.685741 0.856259 0.942475 0.978728 0.992777 0.998047 1
 1 0 0 0 0 0 0 0
 1 0 0 0 0 0 0 0
 1 0 0 0 0 0 0 0

Deviations section: only applicable if associated lambda > 0

Nyear1 observed, expected, standardized residual

2 286.252 3503.99 -3.2518
 3 164.732 752.269 -1.97172
 4 34.0134 117.878 -1.61357
 5 6276.04 18.4496 7.56799
 6 1.15039 2.87895 -1.1909
 7 1.51314 0.445747 1.58669
 8 0.0943591 0.0802721 0.209906

Fleet Obs, Initial, and Standardized Residual for Fmult

1 1.06156 0.5 0.977426
 2 0.13451 0.2 -0.514978
 3 3.05902e-07 0.05 -15.5843
 4 3.05902e-07 0.05 -15.5843

5 0.489352 0.2 1.16161
6 0.0794867 0.05 0.601818

Standardized Residuals for Fmult_devs by fleet and year
N/A

Index Obs, Initial, and Standardized Residual for q_year1
N/A

Standardized Residuals for catchability deviations by index and year
index 1 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0

index 2 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0

index 3 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0

8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0

index 4 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0

index 5 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0

15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0

index 6 q_devs standardized residuals

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

index 7 q_devs standardized residuals

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

index 8 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0

index 9 q_devs standardized residuals

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

index 10 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0

```
16 0
17 0
18 0
19 0
  index 11 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
  index 12 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
  index 13 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
```


0.0682426 0.94653 1 0.714298 0.46494 0.282495 0.163687 0.092067
0.0602832 0.723521 1 0.485206 0.153646 0.0406654 0.0101971 0.00252128
0.0602832 0.723521 1 0.485206 0.153646 0.0406654 0.0101971 0.00252128
0.0602832 0.723521 1 0.485206 0.153646 0.0406654 0.0101971 0.00252128
0.0602832 0.723521 1 0.485206 0.153646 0.0406654 0.0101971 0.00252128
0.0602832 0.723521 1 0.485206 0.153646 0.0406654 0.0101971 0.00252128
0.0602832 0.723521 1 0.485206 0.153646 0.0406654 0.0101971 0.00252128
0.0602832 0.723521 1 0.485206 0.153646 0.0406654 0.0101971 0.00252128
0.0602832 0.723521 1 0.485206 0.153646 0.0406654 0.0101971 0.00252128
0.0602832 0.723521 1 0.485206 0.153646 0.0406654 0.0101971 0.00252128
0.0602832 0.723521 1 0.485206 0.153646 0.0406654 0.0101971 0.00252128
0.0602832 0.723521 1 0.485206 0.153646 0.0406654 0.0101971 0.00252128
0.0602832 0.723521 1 0.485206 0.153646 0.0406654 0.0101971 0.00252128
0.0602832 0.723521 1 0.485206 0.153646 0.0406654 0.0101971 0.00252128
0.0602832 0.723521 1 0.485206 0.153646 0.0406654 0.0101971 0.00252128

Fmult by year for each fleet

1982 1.06156 0.13451 3.05902e-07 3.05902e-07 0.489352 0.0794867
1983 1.10401 0.101086 1.10676e-13 5.66497e-10 0.535406 0.0376709
1984 0.850568 0.231708 8.29175e-19 4.14465e-12 0.478375 0.0260715
1985 1.20851 0.159363 1.944e-15 4.38751e-16 0.324862 0.00895283
1986 0.965997 0.103539 3.89177e-21 4.45649e-17 0.440393 0.0472397
1987 0.868906 0.12732 4.14138e-15 1.3638e-23 0.411986 0.0395224
1988 1.34936 0.181179 1.30984e-08 4.07259e-17 0.503985 0.0508169
1989 1.07967 0.180533 0.0428189 2.34814e-23 0.187171 0.007232
1990 0.590446 0.0927925 0.314935 1.62888e-21 0.250585 0.0343323
1991 0.828357 0.165015 0.239951 2.16907e-19 0.517872 0.0663759
1992 2.05219 0.0877475 0.288414 1.8756e-13 0.347507 0.0808183
1993 0.610366 0.0778725 0.099393 2.43004e-08 0.327211 0.0994068
1994 0.493778 0.0689036 0.0559511 0.0794384 0.251681 0.0582644
1995 1.19533 0.472093 0.0118411 0.05353 0.319066 0.0590028
1996 0.752209 0.339661 0.0250176 0.0198173 0.445091 0.0418482
1997 0.394007 0.0779335 0.0251413 0.00922708 0.402248 0.0327447
1998 0.350637 0.123973 0.0252166 0.018182 0.367645 0.0440114
1999 0.296355 0.104613 0.137265 0.0523532 0.233745 0.0477804
2000 0.256722 0.108328 0.0666405 0.0160038 0.401518 0.0587105
2001 0.255209 0.0861519 0.020134 0.0321163 0.271399 0.0735773
2002 0.301993 0.116668 0.0275245 0.0153002 0.17261 0.0415398
2003 0.2524 0.0835154 0.0362729 0.00776204 0.209335 0.0410535
2004 0.309646 0.112429 0.019451 0.00695738 0.194407 0.0530746
2005 0.366439 0.112053 0.0144671 0.0113019 0.227147 0.0604569
2006 0.271644 0.107649 0.0359352 0.00752173 0.237537 0.0513892

Directed F by age and year for each fleet

fleet 1 directed F at age

0.00502907 0.773553 1.06086 1.06156 1.06156 1.06156 1.06156 1.06156
0.00523018 0.804487 1.10329 1.10401 1.10401 1.10401 1.10401 1.10401
0.0040295 0.619803 0.850007 0.850567 0.850568 0.850568 0.850568 0.850568
0.00572523 0.880634 1.20772 1.20851 1.20851 1.20851 1.20851 1.20851
0.00457633 0.703915 0.96536 0.965996 0.965997 0.965997 0.965997 0.965997
0.00411637 0.633166 0.868333 0.868905 0.868906 0.868906 0.868906 0.868906
0.00639247 0.983266 1.34847 1.34935 1.34936 1.34936 1.34936 1.34936
0.00511484 0.786746 1.07896 1.07967 1.07967 1.07967 1.07967 1.07967
0.00279719 0.430253 0.590056 0.590445 0.590446 0.590446 0.590446 0.590446
0.00392427 0.603618 0.827811 0.828356 0.828357 0.828357 0.828357 0.828357
0.0097221 1.49542 2.05084 2.05219 2.05219 2.05219 2.05219 2.05219
0.00289156 0.44477 0.609964 0.610366 0.610366 0.610366 0.610366 0.610366
0.00233923 0.359813 0.493453 0.493778 0.493778 0.493778 0.493778 0.493778
0.00471427 0.0836974 0.703772 1.15298 1.19302 1.1952 1.19532 1.19533

0.00296665 0.0526701 0.442878 0.725559 0.750759 0.752133 0.752205 0.752209
 0.00155393 0.0275886 0.231979 0.380047 0.393247 0.393967 0.394005 0.394007
 0.00138289 0.0245518 0.206445 0.338215 0.349961 0.350602 0.350636 0.350637
 0.0011688 0.020751 0.174485 0.285855 0.295784 0.296325 0.296353 0.296355
 0.00101249 0.0179758 0.15115 0.247627 0.256227 0.256696 0.256721 0.256722
 0.00100652 0.0178699 0.15026 0.246167 0.254717 0.255183 0.255208 0.255209
 0.00119104 0.0211458 0.177805 0.291294 0.301411 0.301963 0.301992 0.301993
 0.000995445 0.0176732 0.148605 0.243457 0.251913 0.252374 0.252399 0.2524
 0.00122122 0.0216816 0.18231 0.298675 0.309049 0.309614 0.309644 0.309646
 0.00144521 0.0256583 0.215749 0.353457 0.365733 0.366402 0.366438 0.366439
 0.00107134 0.0190207 0.159936 0.26202 0.27112 0.271617 0.271643 0.271644
 fleet 2 directed F at age
 0.13451 0.13451 0.13451 0.13451 0.13451 0.13451 0.13451 0.13451
 0.101086 0.101086 0.101086 0.101086 0.101086 0.101086 0.101086 0.101086
 0.231708 0.231708 0.231708 0.231708 0.231708 0.231708 0.231708 0.231708
 0.159363 0.159363 0.159363 0.159363 0.159363 0.159363 0.159363 0.159363
 0.103539 0.103539 0.103539 0.103539 0.103539 0.103539 0.103539 0.103539
 0.12732 0.12732 0.12732 0.12732 0.12732 0.12732 0.12732 0.12732
 0.181179 0.181179 0.181179 0.181179 0.181179 0.181179 0.181179 0.181179
 0.180533 0.180533 0.180533 0.180533 0.180533 0.180533 0.180533 0.180533
 0.0927925 0.0927925 0.0927925 0.0927925 0.0927925 0.0927925 0.0927925 0.0927925
 0.0927925
 0.165015 0.165015 0.165015 0.165015 0.165015 0.165015 0.165015 0.165015
 0.0877475 0.0877475 0.0877475 0.0877475 0.0877475 0.0877475 0.0877475 0.0877475
 0.0877475
 0.0778725 0.0778725 0.0778725 0.0778725 0.0778725 0.0778725 0.0778725 0.0778725
 0.0778725
 0.0689036 0.0689036 0.0689036 0.0689036 0.0689036 0.0689036 0.0689036 0.0689036
 0.0689036
 0.00383534 0.0458592 0.276473 0.447964 0.470166 0.471946 0.472082 0.472093
 0.00275944 0.0329948 0.198917 0.322301 0.338274 0.339555 0.339653 0.339661
 0.000633141 0.00757049 0.0456404 0.0739503 0.0776154 0.0779093 0.0779318
 0.0779335
 0.00100717 0.0120428 0.0726025 0.117637 0.123467 0.123934 0.12397 0.123973
 0.000849888 0.0101621 0.0612648 0.0992662 0.104186 0.10458 0.104611 0.104613
 0.000880068 0.010523 0.0634403 0.102791 0.107886 0.108294 0.108325 0.108328
 0.000699909 0.00836883 0.0504534 0.0817487 0.0858003 0.0861252 0.08615
 0.0861519
 0.000947829 0.0113332 0.0683249 0.110706 0.116192 0.116632 0.116666 0.116668
 0.000678489 0.00811272 0.0489094 0.079247 0.0831745 0.0834895 0.0835136
 0.0835154
 0.000913388 0.0109214 0.0658422 0.106683 0.11197 0.112394 0.112427 0.112429
 0.000910329 0.0108848 0.0656217 0.106326 0.111595 0.112018 0.11205 0.112053
 0.000874555 0.0104571 0.063043 0.102147 0.10721 0.107616 0.107647 0.107649
 fleet 3 directed F at age
 7.16653e-11 3.05902e-07 1.27858e-08 2.07233e-08 1.68232e-10 3.05902e-08
 1.52951e-08 3.05902e-09
 2.59287e-17 1.10676e-13 4.62591e-15 7.49773e-15 6.08668e-17 1.10676e-14
 5.5338e-15 1.10676e-15
 1.94255e-22 8.29175e-19 3.46569e-20 5.61723e-20 4.56009e-22 8.29175e-20
 4.14588e-20 8.29175e-21
 4.55431e-19 1.944e-15 8.12531e-17 1.31696e-16 1.06911e-18 1.944e-16
 9.71999e-17 1.944e-17
 9.11746e-25 3.89177e-21 1.62664e-22 2.63647e-22 2.1403e-24 3.89177e-22
 1.94589e-22 3.89177e-23
 9.70222e-19 4.14138e-15 1.73097e-16 2.80557e-16 2.27757e-18 4.14138e-16
 2.07069e-16 4.14138e-17

3.06863e-12 1.30984e-08 5.47473e-10 8.87349e-10 7.20353e-12 1.30984e-09
 6.54921e-10 1.30984e-10
 1.00314e-05 0.0428189 0.0017897 0.00290076 2.35485e-05 0.00428189 0.00214095
 0.000428189
 7.37816e-05 0.314935 0.0131633 0.0213352 0.0001732 0.0314935 0.0157468
 0.00314935
 5.62146e-05 0.239951 0.0100292 0.0162555 0.000131962 0.0239951 0.0119976
 0.00239951
 6.75682e-05 0.288414 0.0120548 0.0195385 0.000158614 0.0288414 0.0144207
 0.00288414
 2.32853e-05 0.099393 0.00415432 0.00673336 5.46616e-05 0.0099393 0.00496965
 0.00099393
 1.31079e-05 0.0559511 0.00233858 0.00379039 3.07705e-05 0.00559511
 0.00279755 0.000559511
 2.77407e-06 0.0118411 0.000494919 0.00080217 6.51204e-06 0.00118411
 0.000592053 0.000118411
 5.861e-06 0.0250176 0.00104566 0.00169481 1.37585e-05 0.00250176 0.00125088
 0.000250176
 5.88998e-06 0.0251413 0.00105083 0.00170319 1.38266e-05 0.00251413
 0.00125706 0.000251413
 5.90762e-06 0.0252166 0.00105397 0.00170829 1.3868e-05 0.00252166 0.00126083
 0.000252166
 3.21578e-05 0.137265 0.00573724 0.00929898 7.54894e-05 0.0137265 0.00686324
 0.00137265
 1.56122e-05 0.0666405 0.00278536 0.00451455 3.66492e-05 0.00666405
 0.00333203 0.000666405
 4.7169e-06 0.020134 0.000841539 0.00136398 1.10728e-05 0.0020134 0.0010067
 0.00020134
 6.4483e-06 0.0275245 0.00115044 0.00186464 1.51372e-05 0.00275245 0.00137622
 0.000275245
 8.49783e-06 0.0362729 0.00151609 0.0024573 1.99484e-05 0.00362729 0.00181364
 0.000362729
 4.55688e-06 0.019451 0.00081299 0.0013177 1.06972e-05 0.0019451 0.000972549
 0.00019451
 3.38929e-06 0.0144671 0.000604681 0.000980073 7.95627e-06 0.00144671
 0.000723357 0.000144671
 8.41872e-06 0.0359352 0.00150198 0.00243442 1.97627e-05 0.00359352
 0.00179676 0.000359352
 fleet 4 directed F at age
 3.58631e-11 2.41655e-09 3.05902e-07 2.7123e-08 1.63405e-10 3.05902e-08
 1.52951e-08 3.05902e-09
 6.64144e-14 4.47517e-12 5.66497e-10 5.02288e-11 3.02609e-13 5.66497e-11
 2.83248e-11 5.66497e-12
 4.85907e-16 3.27416e-14 4.14465e-12 3.67488e-13 2.21397e-15 4.14465e-13
 2.07233e-13 4.14465e-14
 5.14379e-20 3.46602e-18 4.38751e-16 3.89021e-17 2.3437e-19 4.38751e-17
 2.19376e-17 4.38751e-18
 5.22466e-21 3.52051e-19 4.45649e-17 3.95137e-18 2.38054e-20 4.45649e-18
 2.22824e-18 4.45649e-19
 1.59888e-27 1.07737e-25 1.3638e-23 1.20922e-24 7.28509e-27 1.3638e-24
 6.81901e-25 1.3638e-25
 4.77459e-21 3.21724e-19 4.07259e-17 3.61099e-18 2.17548e-20 4.07259e-18
 2.0363e-18 4.07259e-19
 2.75289e-27 1.85497e-25 2.34814e-23 2.08199e-24 1.25432e-26 2.34814e-24
 1.17407e-24 2.34814e-25
 1.90965e-25 1.28677e-23 1.62888e-21 1.44426e-22 8.70108e-25 1.62888e-22
 8.1444e-23 1.62888e-23

2.54296e-23 1.71351e-21 2.16907e-19 1.92322e-20 1.15867e-22 2.16907e-20
 1.08454e-20 2.16907e-21
 2.1989e-17 1.48168e-15 1.8756e-13 1.66301e-14 1.0019e-16 1.8756e-14
 9.37802e-15 1.8756e-15
 2.84891e-12 1.91967e-10 2.43004e-08 2.15461e-09 1.29807e-11 2.43004e-09
 1.21502e-09 2.43004e-10
 9.31313e-06 0.000627542 0.0794384 0.00704345 4.2434e-05 0.00794384
 0.00397192 0.000794384
 6.2757e-06 0.000422873 0.05353 0.00474627 2.85944e-05 0.005353 0.0026765
 0.0005353
 2.32333e-06 0.000156552 0.0198173 0.00175711 1.05859e-05 0.00198173
 0.000990866 0.000198173
 1.08176e-06 7.28915e-05 0.00922708 0.000818124 4.92888e-06 0.000922708
 0.000461354 9.22708e-05
 2.13161e-06 0.000143633 0.018182 0.00161212 9.71238e-06 0.0018182 0.0009091
 0.00018182
 6.13773e-06 0.000413576 0.0523532 0.00464192 2.79658e-05 0.00523532
 0.00261766 0.000523532
 1.87624e-06 0.000126426 0.0160038 0.00141899 8.54885e-06 0.00160038
 0.000800191 0.000160038
 3.76522e-06 0.00025371 0.0321163 0.00284761 1.71557e-05 0.00321163
 0.00160581 0.000321163
 1.79375e-06 0.000120868 0.0153002 0.0013566 8.173e-06 0.00153002 0.000765011
 0.000153002
 9.09999e-07 6.1318e-05 0.00776204 0.000688225 4.14629e-06 0.000776204
 0.000388102 7.76204e-05
 8.15663e-07 5.49615e-05 0.00695738 0.00061688 3.71646e-06 0.000695738
 0.000347869 6.95738e-05
 1.32501e-06 8.92823e-05 0.0113019 0.00100209 6.03722e-06 0.00113019
 0.000565097 0.000113019
 8.81826e-07 5.94197e-05 0.00752173 0.000666918 4.01792e-06 0.000752173
 0.000376086 7.52173e-05
 fleet 5 directed F at age
 0.331986 0.355263 0.378585 0.401756 0.424589 0.446903 0.468538 0.489352
 0.36323 0.388698 0.414214 0.439567 0.464548 0.488963 0.512634 0.535406
 0.324539 0.347294 0.370092 0.392744 0.415065 0.436879 0.458028 0.478375
 0.220393 0.235846 0.251328 0.266711 0.281868 0.296682 0.311045 0.324862
 0.298771 0.319719 0.340707 0.361561 0.382109 0.402191 0.421661 0.440393
 0.279499 0.299096 0.318731 0.338239 0.357462 0.376249 0.394463 0.411986
 0.341913 0.365886 0.389905 0.41377 0.437285 0.460267 0.482549 0.503985
 0.12698 0.135884 0.144804 0.153667 0.1624 0.170935 0.17921 0.187171
 0.170002 0.181922 0.193864 0.20573 0.217422 0.228849 0.239927 0.250585
 0.351334 0.375968 0.400649 0.425171 0.449334 0.47295 0.495845 0.517872
 0.235756 0.252286 0.268847 0.285302 0.301517 0.317363 0.332727 0.347507
 0.221987 0.237551 0.253145 0.268639 0.283907 0.298828 0.313294 0.327211
 0.170745 0.182717 0.194711 0.206629 0.218372 0.229849 0.240976 0.251681
 0.00323518 0.0924137 0.300548 0.318573 0.319054 0.319066 0.319066 0.319066
 0.00451301 0.128915 0.419258 0.444403 0.445074 0.44509 0.445091 0.445091
 0.0040786 0.116506 0.378901 0.401626 0.402232 0.402247 0.402248 0.402248
 0.00372775 0.106484 0.346307 0.367077 0.367631 0.367645 0.367645 0.367645
 0.00237007 0.0677014 0.220179 0.233384 0.233736 0.233745 0.233745 0.233745
 0.00407121 0.116295 0.378214 0.400898 0.401503 0.401518 0.401518 0.401518
 0.00275186 0.0786074 0.255647 0.270979 0.271388 0.271399 0.271399 0.271399
 0.00175019 0.0499944 0.162592 0.172343 0.172603 0.17261 0.17261 0.17261
 0.00212256 0.0606314 0.197185 0.209012 0.209327 0.209335 0.209335 0.209335
 0.0019712 0.0563076 0.183124 0.194107 0.194399 0.194407 0.194407 0.194407
 0.00230316 0.0657904 0.213963 0.226796 0.227138 0.227147 0.227147 0.227147

0.00240851 0.0687997 0.22375 0.23717 0.237528 0.237537 0.237537 0.237537
 fleet 6 directed F at age
 0.00542438 0.0752366 0.0794867 0.0567772 0.0369566 0.0224546 0.0130109
 0.00731811
 0.00257076 0.0356566 0.0376709 0.0269082 0.0175147 0.0106418 0.00616624
 0.00346825
 0.00177919 0.0246775 0.0260715 0.0186228 0.0121217 0.00736507 0.00426757
 0.00240033
 0.000610965 0.00847413 0.00895283 0.00639499 0.00416253 0.00252913
 0.00146546 0.000824261
 0.00322376 0.0447138 0.0472397 0.0337432 0.0219636 0.013345 0.00773253
 0.00434922
 0.00269711 0.0374091 0.0395224 0.0282308 0.0183755 0.0111649 0.0064693
 0.00363871
 0.00346788 0.0480998 0.0508169 0.0362984 0.0236268 0.0143555 0.00831807
 0.00467856
 0.000493531 0.00684531 0.007232 0.00516581 0.00336245 0.002043 0.00118378
 0.000665829
 0.00234293 0.0324966 0.0343323 0.0245235 0.0159625 0.00969872 0.00561976
 0.00316088
 0.00452966 0.0628268 0.0663759 0.0474122 0.0308608 0.0187509 0.0108649
 0.00611103
 0.00551525 0.0764969 0.0808183 0.0577283 0.0375757 0.0228308 0.0132289
 0.0074407
 0.00678378 0.0940915 0.0994068 0.0710061 0.0462182 0.0280819 0.0162716
 0.00915209
 0.00397611 0.055149 0.0582644 0.0416181 0.0270894 0.0164594 0.00953712
 0.00536423
 0.00355688 0.0426897 0.0590028 0.0286285 0.00906551 0.00239937 0.000601658
 0.000148763
 0.00252274 0.030278 0.0418482 0.020305 0.00642979 0.00170177 0.000426731
 0.000105511
 0.00197396 0.0236915 0.0327447 0.0158879 0.00503108 0.00133158 0.000333902
 8.25586e-05
 0.00265315 0.0318432 0.0440114 0.0213546 0.00676215 0.00178974 0.00044879
 0.000110965
 0.00288036 0.0345701 0.0477804 0.0231833 0.00734125 0.00194301 0.000487223
 0.000120468
 0.00353926 0.0424783 0.0587105 0.0284867 0.0090206 0.00238749 0.000598678
 0.000148026
 0.00443548 0.0532347 0.0735773 0.0357001 0.0113048 0.00299205 0.000750277
 0.000185509
 0.00250416 0.030055 0.0415398 0.0201554 0.00638241 0.00168924 0.000423587
 0.000104734
 0.00247483 0.029703 0.0410535 0.0199194 0.00630768 0.00166946 0.000418627
 0.000103507
 0.00319951 0.0384006 0.0530746 0.0257521 0.00815468 0.0021583 0.000541208
 0.000133816
 0.00364454 0.0437418 0.0604569 0.029334 0.00928893 0.00245851 0.000616486
 0.000152429
 0.00309791 0.0371812 0.0513892 0.0249343 0.00789572 0.00208976 0.000524022
 0.000129567
 Discard F by age and year for each fleet
 fleet 1 Discard F at age
 0 0 0 0 0 0 0
 0 0 0 0 0 0 0
 0 0 0 0 0 0 0

0.00952051 0.254039 0.670305 0.785736 0.774681 0.77716 0.771296 0.767543
0.00890225 0.178469 0.562895 0.638807 0.623239 0.620924 0.61612 0.613468
0.00640145 0.140174 0.466712 0.59772 0.596613 0.597177 0.593833 0.591805
0.00628074 0.152454 0.445032 0.554781 0.550746 0.551272 0.547868 0.545794
0.00731068 0.146817 0.492121 0.627151 0.623587 0.621214 0.618339 0.61688
0.00830795 0.160632 0.567697 0.717894 0.713769 0.710602 0.70754 0.706049
0.00746162 0.171453 0.507142 0.629373 0.623778 0.623205 0.619523 0.617394

Average F for ages 3 to 5

Freport unweighted in .std and MCMC files

year	unweighted	Nweighted	Bweighted
1982	1.65522	1.6575	1.65758
1983	1.67166	1.6623	1.66505
1984	1.49366	1.47791	1.47794
1985	1.64075	1.62869	1.62948
1986	1.4651	1.46007	1.46141
1987	1.36289	1.35542	1.35686
1988	1.98081	1.97226	1.97341
1989	1.42041	1.41714	1.41826
1990	0.925277	0.924658	0.924668
1991	1.47526	1.4732	1.4747
1992	2.494	2.49943	2.4984
1993	1.03253	1.04182	1.03989
1994	0.842362	0.893591	0.890187
1995	1.77962	1.54293	1.58347
1996	1.39345	1.16858	1.1937
1997	0.81724	0.731217	0.738249
1998	0.794683	0.750405	0.765123
1999	0.619526	0.595893	0.605792
2000	0.743574	0.712734	0.726137
2001	0.608314	0.594174	0.600351
2002	0.553681	0.5131	0.526045
2003	0.516853	0.486686	0.498406
2004	0.580953	0.547767	0.562355
2005	0.666454	0.644411	0.659251
2006	0.586764	0.54732	0.562267

Population Numbers at the Start of the Year

79921.3 286.252 164.732 34.0134 6276.04 1.15039 1.51314 0.0943591
123682 40613.2 61.4552 25.813 5.3236 979.338 0.178115 0.245655
44589 63155.3 8794.85 9.60277 3.97214 0.806531 145.791 0.0611728
66874.1 20810 15212.5 1642.61 1.76546 0.71881 0.143484 25.483
72109.2 37215.3 4716.73 2446.74 260.62 0.276513 0.111109 3.85796
22478.1 39176.3 9438.83 899.666 462.974 48.8842 0.0512741 0.715114
40624.6 12169.2 10709 1995.56 188.544 96.1211 10.0323 0.15306
26168.4 19519.6 2055.41 1222.27 225.446 21.0707 10.5957 1.10438
33824.5 15664.9 5045.99 409.491 241.419 44.3491 4.09768 2.26216
27610.9 21182.6 4477.3 1639.49 131.642 79.023 13.9966 2.02798
49273 13374.5 4078.79 842.941 304.884 24.6898 14.3059 2.88947
36531.7 28748 1212.87 274.032 56.5084 20.9207 1.64446 1.15575
41893.3 21946.8 9069.25 349.395 79.7287 16.7094 6.14507 0.823459
42575 26819.8 8718.64 3027.63 125.768 29.0905 6.0101 2.51258
29748.6 34326.4 16646.7 1771.17 351.372 14.0567 3.23898 0.954367
28798.2 24047 21453.4 4430.23 318.422 61.6384 2.45994 0.736653
32946.7 23384.3 16110 8726.29 1513.49 108.336 20.9553 1.09005
24247.8 26738.7 15670.5 6624.92 3060.99 530.77 37.9748 7.75499
28964.3 19707.9 16697.3 7315.41 2815.69 1319.94 225.602 19.6765

30381.5 23489.3 12515.6 6993.25 2729.85 1062.4 496.797 92.8886
32213.9 24653.8 16088 5836.23 3022.66 1198.43 467.481 260.835
21683.1 26206.3 17544.8 8259.5 2628.37 1362.78 540.01 329.517
33222.8 17641.4 18422 9204.81 3882.9 1240.63 642.913 411.936
16870.6 27002.4 12471.4 9220.44 4025.2 1704.03 545.749 465.626
22026.7 13698.2 18827 5787.71 3682.27 1614.15 685.5 408.386

q by index

index 1 q over time

1992 0.000899486
1993 0.000899486
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2004 0.000899486
2005 0.000899486
2006 0.000899486

index 2 q over time

1982 6.95525e-05
1983 6.95525e-05
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1986 6.95525e-05
1987 6.95525e-05
1988 6.95525e-05
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2006 6.95525e-05

index 3 q over time

1982 4.32841e-05
1983 4.32841e-05
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index 4 q over time

1982 0.000134194
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2005 0.000134194
2006 0.000134194

index 5 q over time

1982 9.28585e-05
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index 6 q over time

1984 4.38692e-05
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index 7 q over time

1984 4.66135e-05
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index 8 q over time

1982 6.77292e-05
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index 9 q over time

1990 2.69239e-05
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index 10 q over time

1988 0.000155852
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2004 0.000155852
2005 0.000155852
2006 0.000155852

index 11 q over time

1986 5.30611e-06
1987 5.30611e-06
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1991 5.30611e-06
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2003 5.30611e-06
2004 5.30611e-06
2005 5.30611e-06
2006 5.30611e-06

index 12 q over time

1982 0.000224697
1983 0.000224697
1984 0.000224697
1985 0.000224697
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 index 13 q over time
 1982 2.65319e-05
 1983 2.65319e-05
 1984 2.65319e-05
 1985 2.65319e-05
 1986 2.65319e-05
 1987 2.65319e-05
 1988 2.65319e-05
 1989 2.65319e-05
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 2001 2.65319e-05
 2002 2.65319e-05
 2003 2.65319e-05
 2004 2.65319e-05
 2005 2.65319e-05
 2006 2.65319e-05

Proportions of catch at age by fleet
 fleet 1

Year 1 Obs = 0.0999237 0.477013 0.390403 0.0160876 0.00422994 0.0067263
 0.00395257 0.00166424
 Year 1 Pred = 0.0827446 0.0320251 0.0225304 0.00465316 0.857672 0.000156777
 0.000205328 1.27364e-05
 Year 2 Obs = 0.10236 0.634204 0.227746 0.0289916 0.00156994 0.00324454
 0.000680308 0.00120362
 Year 2 Pred = 0.0265622 0.943565 0.00173806 0.000726579 0.000149028
 0.0272473 4.92241e-06 6.7417e-06
 Year 3 Obs = 0.0664268 0.506889 0.31883 0.0766062 0.0272241 0.00340893
 0.000142039 0.000473462
 Year 3 Pred = 0.00509288 0.845532 0.14676 0.000159426 6.55665e-05 1.32308e-
 05 0.00237605 9.9035e-07
 Year 4 Obs = 0.0447546 0.343172 0.536416 0.0509351 0.0140125 0.00900421
 0.00133198 0.000372955
 Year 4 Pred = 0.0150919 0.497365 0.43949 0.0472574 5.05597e-05 2.04899e-05
 4.07094e-06 0.000719667
 Year 5 Obs = 0.0249296 0.431275 0.39042 0.135673 0.00967781 0.00569644
 0.00177631 0.000551268
 Year 5 Pred = 0.0137248 0.791856 0.123567 0.0639529 0.00679021 7.17411e-06
 2.86816e-06 9.9034e-05
 Year 6 Obs = 0.0183903 0.493436 0.413006 0.0517919 0.0186673 0.00127403
 0.00132942 0.00210491
 Year 6 Pred = 0.0036891 0.741361 0.221885 0.0210933 0.0108168 0.00113718
 1.18678e-06 1.64618e-05

Year 7 Obs = 0.0137816 0.502282 0.406308 0.0578374 0.0147757 0.00356965
0.000813339 0.000632597
Year 7 Pred = 0.0142398 0.432587 0.455982 0.084738 0.00797749 0.00404863
0.000420311 6.37521e-06
Year 8 Obs = 0.0113879 0.295492 0.572835 0.0997628 0.0180308 0.00189798
0.000355872 0.000237248
Year 8 Pred = 0.0100543 0.808319 0.105708 0.0627009 0.0115477 0.00107471
0.000539383 5.61008e-05
Year 9 Obs = 0 0.651696 0.210154 0.112033 0.0197706 0.00439346 0.00146449
0.000488162
Year 9 Pred = 0.012688 0.645397 0.300237 0.0242755 0.0144175 0.00260945
0.000241961 0.000133817
Year 10 Obs = 0 0.519579 0.450533 0.0196485 0.00844057 0.00152207
0.00013837 0.00013837
Year 10 Pred = 0.0086662 0.704666 0.20258 0.0738946 0.00595189 0.00352696
0.000624011 9.01616e-05
Year 11 Obs = 0.0115983 0.586021 0.36372 0.034388 0.00193306 0.00223827 0
0.00010174
Year 11 Pred = 0.031705 0.648632 0.24738 0.0511248 0.0186207 0.00149457
0.000868227 0.000175496
Year 12 Obs = 0.0213669 0.609594 0.331116 0.0246215 0.00410358 0.00608462
0.00268855 0.000424508
Year 12 Pred = 0.0100724 0.923292 0.0515034 0.0116904 0.00242637 0.000895901
7.04873e-05 4.94834e-05
Year 13 Obs = 0.0151246 0.470005 0.469243 0.0345704 0.00813421 0.00152517
0.000762583 0.000635486
Year 13 Pred = 0.00976979 0.637116 0.33579 0.0133544 0.0030646 0.000638454
0.00023505 3.14828e-05
Year 14 Obs = 0.00640312 0.357183 0.595768 0.0335468 0.00556793 0.00111359
0.000278396 0.000139198
Year 14 Pred = 0.0275874 0.272758 0.468688 0.218893 0.00929184 0.00215045
0.000445033 0.000186239
Year 15 Obs = 0 0.251933 0.573098 0.143499 0.0280525 0.00269736 0.000539471
0.000179824
Year 15 Pred = 0.0125096 0.226992 0.643153 0.0966573 0.0196654 0.000787474
0.000181689 5.35757e-05
Year 16 Obs = 0 0.086758 0.557534 0.277169 0.059589 0.0157534 0.00228311
0.000913242
Year 16 Pred = 0.00809008 0.109471 0.657279 0.206685 0.0153454 0.002975
0.000118871 3.56212e-05
Year 17 Obs = 0 0.0439265 0.385253 0.45316 0.0979381 0.0161363 0.00336172
0.000224115
Year 17 Pred = 0.00838592 0.0964902 0.449404 0.373008 0.0669349 0.00479904
0.000929692 4.84021e-05
Year 18 Obs = 0 0.0307962 0.39309 0.381072 0.14647 0.0400601 0.00650976
0.002003
Year 18 Pred = 0.00584186 0.100998 0.436765 0.290452 0.139729 0.0241233
0.0017342 0.000355364
Year 19 Obs = 0 0.0548229 0.500129 0.280062 0.116111 0.0307732 0.0121541
0.00594776
Year 19 Pred = 0.00684379 0.0736553 0.435951 0.297971 0.119224 0.0559337
0.00958461 0.000837271
Year 20 Obs = 0 0.192057 0.381393 0.272035 0.0900435 0.0421654 0.0160501
0.0062568
Year 20 Pred = 0.00762441 0.096548 0.363464 0.321935 0.130911 0.0510917
0.0239435 0.004482

Year 21 Obs = 0 0.0797956 0.53184 0.270244 0.0752752 0.0261399 0.0147406
0.00196541
Year 21 Pred = 0.00727537 0.0927398 0.438147 0.245827 0.131803 0.05234
0.0204484 0.0114195
Year 22 Obs = 0 0.0960949 0.431814 0.276631 0.108771 0.0521366 0.0224903
0.012063
Year 22 Pred = 0.0042353 0.0847619 0.417243 0.306555 0.10112 0.0525133
0.0208418 0.0127294
Year 23 Obs = 0 0.048398 0.439966 0.297639 0.126138 0.0507589 0.0202361
0.0168634
Year 23 Pred = 0.00615164 0.0542612 0.406901 0.313987 0.137262 0.043982
0.0228227 0.0146326
Year 24 Obs = 0 0.084207 0.228491 0.271093 0.181561 0.112332 0.0605758
0.0617407
Year 24 Pred = 0.00353109 0.0933184 0.301347 0.342142 0.154821 0.0657504
0.0210874 0.018003
Year 25 Obs = 0 0.0787154 0.466205 0.232997 0.121327 0.0579345 0.0277078
0.0151134
Year 25 Pred = 0.0046227 0.0472079 0.468248 0.223569 0.147536 0.0648077
0.0275692 0.0164396
fleet 2
Year 1 Obs = 0.172408 0.608612 0.179438 0.0249561 0.00913884 0.00333919
0.00105448 0.00105448
Year 1 Pred = 0.949488 0.00238912 0.00122559 0.000252953 0.0466243 8.52265e-
06 1.1162e-05 6.9237e-07
Year 2 Obs = 0.0778358 0.59769 0.250119 0.0454042 0.0213574 0.00648632
0.000474608 0.000632811
Year 2 Pred = 0.808884 0.186806 0.000250908 0.000104821 2.14997e-05
0.00393085 7.10135e-07 9.72597e-07
Year 3 Obs = 0.0814915 0.508356 0.349416 0.049416 0.00961366 0.00161725
8.98473e-05 0
Year 3 Pred = 0.450776 0.486548 0.0615793 6.68496e-05 2.7493e-05 5.54787e-06
0.000996313 4.15268e-07
Year 4 Obs = 0.0274049 0.415828 0.493428 0.0472595 0.0118848 0.0033557
0.000699105 0.000139821
Year 4 Pred = 0.731322 0.156689 0.100958 0.0108487 1.16068e-05 4.70377e-06
9.34546e-07 0.00016521
Year 5 Obs = 0.0420725 0.482665 0.369497 0.0932996 0.00564862 0.00623296
0.00019478 0.00038956
Year 5 Pred = 0.693372 0.260078 0.0295931 0.015306 0.00162512 1.717e-06
6.86442e-07 2.3702e-05
Year 6 Obs = 0.054914 0.570351 0.306151 0.0624558 0.00589206 0.000235682 0
0
Year 6 Pred = 0.379639 0.495996 0.108245 0.0102834 0.0052734 0.0005544
5.78582e-07 8.02547e-06
Year 7 Obs = 0 0.495499 0.377951 0.0800068 0.0385595 0.00662477 0.000169866
0.00118906
Year 7 Pred = 0.72378 0.142947 0.10987 0.0204044 0.00192093 0.000974885
0.000101208 1.53511e-06
Year 8 Obs = 0.000823384 0.0201729 0.591601 0.294772 0.076163 0.0152326
0.000411692 0.000823384
Year 8 Pred = 0.621781 0.324987 0.0309899 0.0183697 0.00338317 0.00031486
0.000158025 1.6436e-05
Year 9 Obs = 0.00140449 0.100421 0.51264 0.293539 0.0821629 0.00842697
0.000702247 0.000702247
Year 9 Pred = 0.685666 0.226748 0.0769153 0.00621485 0.00369108 0.000668054
6.19452e-05 3.42587e-05

Year 10 Obs = 0 0.142431 0.611857 0.194258 0.0432513 0.00745712 0.000745712
0
Year 10 Pred = 0.593327 0.31365 0.0657492 0.0239674 0.00193046 0.00114395
0.000202395 2.92435e-05
Year 11 Obs = 0 0.0214031 0.472652 0.414388 0.0778835 0.0124851 0.00118906
0
Year 11 Pred = 0.846888 0.11264 0.0313249 0.00646951 0.00235632 0.000189128
0.000109868 2.22078e-05
Year 12 Obs = 0 0.269211 0.575536 0.13173 0.0230005 0.000522739 0 0
Year 12 Pred = 0.614515 0.366215 0.0148958 0.00337888 0.000701292
0.000258941 2.03729e-05 1.43022e-05
Year 13 Obs = 0.00277649 0.119389 0.583989 0.232763 0.0532161 0.00647848
0.00138825 0
Year 13 Pred = 0.626841 0.265759 0.102134 0.00405918 0.000931512 0.000194063
7.14454e-05 9.56945e-06
Year 14 Obs = 0 0.0642528 0.493788 0.304934 0.117501 0.0188143 0.000709975
0
Year 14 Pred = 0.050343 0.335222 0.412995 0.190763 0.00821379 0.00190467
0.000394244 0.000164987
Year 15 Obs = 0 0.164492 0.620533 0.157119 0.0374362 0.015882 0.0036869
0.000850822
Year 15 Pred = 0.0235086 0.28729 0.58362 0.0867466 0.017902 0.000718259
0.000165752 4.88769e-05
Year 16 Obs = 0 0.0163305 0.600384 0.363112 0.0172911 0.00288184 0 0
Year 16 Pred = 0.0159613 0.145459 0.626176 0.194741 0.0146659 0.00284881
0.000113851 3.41173e-05
Year 17 Obs = 0.0118421 0.359868 0.456579 0.151316 0.0184211 0.00197368 0 0
Year 17 Pred = 0.0166474 0.129004 0.430788 0.353628 0.0643666 0.00462391
0.000895938 4.66456e-05
Year 18 Obs = 0.000712758 0.0498931 0.35923 0.412687 0.108339 0.0627227
0.00427655 0.00213828
Year 18 Pred = 0.0115937 0.134993 0.418552 0.275282 0.134329 0.0232363
0.00167076 0.000342369
Year 19 Obs = 0 0.028169 0.224225 0.510423 0.194366 0.0309859 0.0101408
0.00169014
Year 19 Pred = 0.013709 0.0993663 0.421675 0.285047 0.115687 0.0543806
0.00932026 0.000814193
Year 20 Obs = 0 0.0539986 0.278879 0.380041 0.228298 0.0430622 0.0123035
0.00341763
Year 20 Pred = 0.0151305 0.129037 0.348289 0.305104 0.125844 0.0492105
0.0230663 0.00431787
Year 21 Obs = 0 0.0351423 0.255338 0.459075 0.204626 0.0311388 0.0133452
0.00133452
Year 21 Pred = 0.0144518 0.124068 0.420261 0.233202 0.126825 0.0504618
0.0197184 0.011012
Year 22 Obs = 0 0.0262997 0.205505 0.435474 0.221407 0.075841 0.030581
0.00489297
Year 22 Pred = 0.0084712 0.114179 0.402978 0.292821 0.097974 0.0509789
0.0202367 0.0123601
Year 23 Obs = 0 0.0106054 0.26867 0.381352 0.198409 0.10517 0.0251878
0.0106054
Year 23 Pred = 0.0124239 0.0738042 0.396814 0.302839 0.134285 0.0431123
0.0223757 0.0143462
Year 24 Obs = 0 0.00888657 0.24621 0.434919 0.203346 0.0747517 0.0230005
0.00888657
Year 24 Pred = 0.00704566 0.125402 0.290343 0.326026 0.149643 0.0636755
0.0204258 0.0174385

Year 25 Obs = 0 0.00924499 0.223934 0.337956 0.229584 0.132512 0.048793
 0.0179764
 Year 25 Pred = 0.00936574 0.0644149 0.458093 0.216317 0.144796 0.0637285
 0.0271153 0.0161692
 fleet 3
 Year 1 Obs = 0 0 0 0 0 0 0 0
 Year 1 Pred = 0.0821733 0.882577 0.0189237 0.00633039 0.00947228 0.00031484
 0.00020617 2.55772e-06
 Year 2 Obs = 0 0 0 0 0 0 0 0
 Year 2 Pred = 0.00101118 0.996797 5.59596e-05 3.78912e-05 6.3092e-08
 0.0020975 1.89464e-07 5.18977e-08
 Year 3 Obs = 0 0 0 0 0 0 0 0
 Year 3 Pred = 0.000215838 0.994412 0.00526041 9.25583e-06 3.09022e-08
 1.13388e-06 0.000101814 8.4873e-09
 Year 4 Obs = 0 0 0 0 0 0 0 0
 Year 4 Pred = 0.00105879 0.968309 0.0260773 0.00454181 3.9447e-08 2.90685e-
 06 2.88767e-07 1.02097e-05
 Year 5 Obs = 0 0 0 0 0 0 0 0
 Year 5 Pred = 0.000618783 0.990715 0.00471173 0.00394988 3.40453e-06
 6.54056e-07 1.30743e-07 9.02882e-07
 Year 6 Obs = 0 0 0 0 0 0 0 0
 Year 6 Pred = 0.000177396 0.989293 0.00902397 0.00138951 5.78448e-06
 0.000110578 5.77008e-08 1.60073e-07
 Year 7 Obs = 0 0 0 0 0 0 0 0
 Year 7 Pred = 0.00113653 0.958124 0.0307801 0.00926503 7.08085e-06
 0.000653432 3.39182e-05 1.02893e-07
 Year 8 Obs = 0.310372 0.651982 0.0376452 0 0 0 0 0
 Year 8 Pred = 0.000444497 0.991679 0.00395247 0.00379737 5.67748e-06
 9.60777e-05 2.41101e-05 5.01536e-07
 Year 9 Obs = 0.338025 0.646259 0.0157166 0 0 0 0 0
 Year 9 Pred = 0.000696543 0.983224 0.0139401 0.00182564 8.80215e-06
 0.000289681 1.34303e-05 1.48553e-06
 Year 10 Obs = 0.206489 0.793511 0 0 0 0 0 0
 Year 10 Pred = 0.000436718 0.985433 0.00863407 0.00510126 3.33557e-06
 0.000359408 3.17944e-05 9.18776e-07
 Year 11 Obs = 0.421841 0.563915 0.0131483 0.00109569 0 0 0 0
 Year 11 Pred = 0.0017311 0.982795 0.0114236 0.00382399 1.13066e-05
 0.000165016 4.79306e-05 1.93765e-06
 Year 12 Obs = 0.378133 0.556484 0.06502 0.00036324 0 0 0 0
 Year 12 Pred = 0.000392023 0.997215 0.00169535 0.000623305 1.05022e-06
 7.05106e-05 2.7738e-06 3.89452e-07
 Year 13 Obs = 0.205618 0.603889 0.17753 0.0129636 0 0 0 0
 Year 13 Pred = 0.000542949 0.98257 0.0157829 0.00101669 1.89405e-06
 7.17495e-05 1.32075e-05 3.53803e-07
 Year 14 Obs = 0.181467 0.525097 0.265122 0.028314 0 0 0 0
 Year 14 Pred = 0.000415298 0.987195 0.00843205 0.00389604 1.29753e-06
 5.45035e-05 5.63917e-06 4.71977e-07
 Year 15 Obs = 0.0239334 0.663892 0.248699 0.0634755 0 0 0 0
 Year 15 Pred = 0.000225515 0.983828 0.0138563 0.00206021 3.28854e-06
 2.39009e-05 2.75699e-06 1.62593e-07
 Year 16 Obs = 0.0126984 0.395238 0.477778 0.114286 0 0 0 0
 Year 16 Pred = 0.000295662 0.961874 0.0287073 0.00893091 5.20222e-06
 0.000183053 3.65674e-06 2.19156e-07
 Year 17 Obs = 0.047619 0.306878 0.386243 0.259259 0 0 0 0
 Year 17 Pred = 0.000346605 0.958834 0.0221984 0.0182283 2.56628e-05
 0.000333952 3.23443e-05 3.36784e-07
 Year 18 Obs = 0.0319893 0.407531 0.416861 0.143619 0 0 0 0

Year 18 Pred = 0.000231848 0.9637 0.0207157 0.0136292 5.14406e-05 0.00161188
5.79328e-05 2.37425e-06
Year 19 Obs = 0.0220441 0.164329 0.460922 0.352705 0 0 0 0
Year 19 Pred = 0.000366133 0.947377 0.0278728 0.0188478 5.91659e-05
0.00503804 0.000431609 7.54068e-06
Year 20 Obs = 0.0226337 0.203704 0.218107 0.555556 0 0 0 0
Year 20 Pred = 0.000315801 0.961448 0.0179915 0.0157659 5.02976e-05
0.00356289 0.000834772 3.12521e-05
Year 21 Obs = 0.0247148 0.235741 0.418251 0.321293 0 0 0 0
Year 21 Pred = 0.000313232 0.959959 0.022544 0.0125137 5.26383e-05
0.00379394 0.000741043 8.27672e-05
Year 22 Obs = 0.00319489 0.421725 0.408946 0.0894569 0.0399361 0.0159744
0.0159744 0.00479233
Year 22 Pred = 0.000198346 0.954369 0.0233522 0.0169743 4.39281e-05
0.00414052 0.000821578 0.000100358
Year 23 Obs = 0.00369004 0.143911 0.494465 0.195572 0.0811808 0.0332103
0.0258303 0.0221402
Year 23 Pred = 0.000439204 0.931412 0.0347188 0.0265052 9.0906e-05
0.00528684 0.00137157 0.000175873
Year 24 Obs = 0.0162602 0.166667 0.390244 0.211382 0.0894309 0.0528455
0.0406504 0.0325203
Year 24 Pred = 0.000151309 0.961387 0.015432 0.0173342 6.15393e-05
0.00474351 0.000760591 0.000129868
Year 25 Obs = 0.0114286 0.14 0.517143 0.148571 0.0828571 0.0457143
0.0314286 0.0228571
Year 25 Pred = 0.000375376 0.921639 0.0454408 0.0214647 0.000111131
0.00886018 0.00188438 0.000224731
fleet 4
Year 1 Obs = 0 0 0 0 0 0 0 0
Year 1 Pred = 0.0792542 0.0134375 0.872599 0.0159684 0.0177323 0.000606796
0.000397355 4.92953e-06
Year 2 Obs = 0 0 0 0 0 0 0 0
Year 2 Pred = 0.042642 0.663574 0.112824 0.00417915 5.16418e-06 0.176755
1.5966e-05 4.37339e-06
Year 3 Obs = 0 0 0 0 0 0 0 0
Year 3 Pred = 0.000806441 0.0586522 0.939682 9.04482e-05 2.24105e-07
8.46589e-06 0.000760173 6.33687e-08
Year 4 Obs = 0 0 0 0 0 0 0 0
Year 4 Pred = 0.000830425 0.0119888 0.977843 0.00931663 6.00512e-08
4.55589e-06 4.52582e-07 1.60016e-05
Year 5 Obs = 0 0 0 0 0 0 0 0
Year 5 Pred = 0.00245679 0.0620944 0.894393 0.0410161 2.62365e-05 5.18927e-
06 1.03732e-06 7.16346e-06
Year 6 Obs = 0 0 0 0 0 0 0 0
Year 6 Pred = 0.000393256 0.0346202 0.956415 0.00805624 2.48893e-05
0.000489849 2.55608e-07 7.09103e-07
Year 7 Obs = 0 0 0 0 0 0 0 0
Year 7 Pred = 0.00075094 0.00999356 0.972328 0.0160108 9.0809e-06
0.000862754 4.47836e-05 1.35854e-07
Year 8 Obs = 0 0 0 0 0 0 0 0
Year 8 Pred = 0.00206502 0.072728 0.877895 0.0461402 5.11953e-05 0.00089195
0.00022383 4.65607e-06
Year 9 Obs = 0 0 0 0 0 0 0 0
Year 9 Pred = 0.00101228 0.022557 0.968582 0.0069392 2.48291e-05 0.00084127
3.90033e-05 4.31415e-06
Year 10 Obs = 0 0 0 0 0 0 0 0

Year 10 Pred = 0.000986002 0.0351218 0.931986 0.0301227 1.46172e-05
0.00162153 0.000143446 4.14522e-06
Year 11 Obs = 0 0 0 0 0 0 0
Year 11 Pred = 0.00301659 0.0270353 0.951733 0.0174282 3.82423e-05
0.000574619 0.000166905 6.74733e-06
Year 12 Obs = 0 0 0 0 0 0 0
Year 12 Pred = 0.0039611 0.159062 0.818997 0.016472 2.05969e-05 0.0014237
5.60068e-05 7.86357e-06
Year 13 Obs = 0 0.604376 0.362808 0.0328168 0 0 0 0
Year 13 Pred = 0.000701969 0.0200538 0.975581 0.00343786 4.753e-06
0.00018537 3.41224e-05 9.14075e-07
Year 14 Obs = 0 0.404255 0.524823 0.070922 0 0 0 0
Year 14 Pred = 0.000967051 0.0362883 0.938729 0.0237276 5.86442e-06
0.000253615 2.62401e-05 2.1962e-06
Year 15 Obs = 0 0.741611 0.241611 0.0167785 0 0 0 0
Year 15 Pred = 0.000329858 0.0227167 0.968984 0.00788141 9.33627e-06
6.98599e-05 8.05841e-06 4.75244e-07
Year 16 Obs = 0 0.220779 0.636364 0.142857 0 0 0 0
Year 16 Pred = 0.000209435 0.0107559 0.972217 0.0165459 7.15254e-06
0.000259114 5.17617e-06 3.10219e-07
Year 17 Obs = 0.00595238 0.25 0.434524 0.309524 0 0 0 0
Year 17 Pred = 0.000308028 0.0134515 0.943177 0.0423683 4.42666e-05
0.000593062 5.74398e-05 5.9809e-07
Year 18 Obs = 0.00208333 0.133333 0.497917 0.366667 0 0 0 0
Year 18 Pred = 0.000221875 0.0145587 0.947813 0.0341127 9.55499e-05
0.00308248 0.000110788 4.5404e-06
Year 19 Obs = 0.0111732 0.256983 0.458101 0.273743 0 0 0 0
Year 19 Pred = 0.000259988 0.0106197 0.946263 0.0350038 8.15464e-05
0.00714887 0.000612444 1.07001e-05
Year 20 Obs = 0 0.0634146 0.243902 0.692683 0 0 0 0
Year 20 Pred = 0.000341093 0.016393 0.929064 0.0445368 0.000105445
0.00768996 0.00180173 6.7453e-05
Year 21 Obs = 0.00564972 0.169492 0.468927 0.355932 0 0 0 0
Year 21 Pred = 0.00027589 0.0133474 0.949332 0.0288267 8.99892e-05
0.00667762 0.00130429 0.000145677
Year 22 Obs = 0 0.387387 0.432432 0.117117 0.036036 0.00900901 0.00900901
0.00900901
Year 22 Pred = 0.000167193 0.0126995 0.941112 0.037422 7.18715e-05
0.00697447 0.0013839 0.000169047
Year 23 Obs = 0 0.133333 0.609524 0.180952 0.047619 0.0190476 0.00952381 0
Year 23 Pred = 0.000249804 0.00836271 0.944092 0.0394279 0.000100356
0.00600882 0.00155887 0.00019989
Year 24 Obs = 0 0.08 0.52 0.24 0.08 0.04 0.02 0.02
Year 24 Pred = 0.000186837 0.0187401 0.911042 0.0559815 0.000147493
0.0117047 0.00187677 0.000320451
Year 25 Obs = 0 0.0887097 0.637097 0.169355 0.0564516 0.0241935 0.016129
0.00806452
Year 25 Pred = 0.000165676 0.00642139 0.958865 0.0247777 9.52022e-05
0.00781445 0.00166197 0.000198207
fleet 5
Year 1 Obs = 0.177729 0.545789 0.226071 0.0362567 0.0138952 0 0.000258515 0
Year 1 Pred = 0.936927 0.00252281 0.00137913 0.000302064 0.0588408 1.1321e-
05 1.55447e-05 1.00706e-06
Year 2 Obs = 0.10964 0.553058 0.237093 0.0638217 0.0251476 0.0104782 0
0.00076205
Year 2 Pred = 0.797305 0.197042 0.000282031 0.000125034 2.71031e-05
0.00521578 9.87882e-07 1.4131e-06

Year 3 Obs = 0.130587 0.526352 0.276452 0.0579113 0.00841202 0.000286123 0
0
Year 3 Pred = 0.432113 0.499105 0.0673153 7.75493e-05 3.3706e-05 7.15907e-06
0.0013479 5.86768e-07
Year 4 Obs = 0.0905476 0.452015 0.395988 0.0427435 0.0133743 0.00533165 0 0
Year 4 Pred = 0.711735 0.163184 0.112046 0.012777 1.44467e-05 6.1624e-06
1.28362e-06 0.000237
Year 5 Obs = 0.100594 0.551416 0.239566 0.0936236 0.0111006 0.00129077
0.00240943 0
Year 5 Pred = 0.675754 0.271241 0.0328895 0.0180521 0.00202561 2.25261e-06
9.44174e-07 3.40494e-05
Year 6 Obs = 0.059377 0.595041 0.263954 0.0569612 0.0231405 0.000127146
0.000635728 0.000762873
Year 6 Pred = 0.360258 0.503676 0.117137 0.0118093 0.00640004 0.000708207
7.74878e-07 1.12257e-05
Year 7 Obs = 0.0430723 0.576506 0.33243 0.0388554 0.00883534 0.000301205 0
0
Year 7 Pred = 0.702257 0.148421 0.121566 0.0239583 0.00238369 0.00127332
0.00013859 2.19549e-06
Year 8 Obs = 0.042516 0.313337 0.552126 0.0786255 0.00931858 0.00116482
0.00291206 0
Year 8 Pred = 0.602429 0.33695 0.0342399 0.0215384 0.0041922 0.000410659
0.000216082 2.3473e-05
Year 9 Obs = 0.0930416 0.7301 0.139431 0.0311017 0.0060622 0 0.000263574 0
Year 9 Pred = 0.666146 0.235739 0.0852143 0.00730686 0.00458626 0.0008737
8.49357e-05 4.90603e-05
Year 10 Obs = 0.0141727 0.59443 0.371622 0.0130191 0.00659196 0.000164799 0
0
Year 10 Pred = 0.571998 0.323576 0.0722827 0.0279617 0.00238019 0.00148457
0.000275376 4.15557e-05
Year 11 Obs = 0.0165934 0.639544 0.320472 0.0179928 0 0.00539784 0 0
Year 11 Pred = 0.834839 0.118823 0.0352136 0.00771776 0.00297071 0.000250972
0.000152853 3.2269e-05
Year 12 Obs = 0.0121651 0.60502 0.357715 0.0244841 0.000307977 0.000307977
0 0
Year 12 Pred = 0.597325 0.380929 0.0165115 0.0039746 0.000871818 0.000338824
2.79484e-05 2.04919e-05
Year 13 Obs = 0.117858 0.596449 0.253319 0.0274504 0.00417723 0.000149187
0.000596748 0
Year 13 Pred = 0.606122 0.274993 0.11262 0.0047499 0.00115197 0.000252604
9.74994e-05 1.36393e-05
Year 14 Obs = 0.0694528 0.453999 0.428743 0.0348767 0.0078172 0.00481058
0.000300661 0
Year 14 Pred = 0.03242 0.515727 0.342755 0.103571 0.00425535 0.000983073
0.000203426 8.513e-05
Year 15 Obs = 0.0165785 0.419465 0.495641 0.0505931 0.017579 0.000142918 0
0
Year 15 Pred = 0.0151643 0.442721 0.485167 0.0471757 0.00928998 0.000371338
8.56685e-05 2.52614e-05
Year 16 Obs = 0.000558114 0.160179 0.584345 0.204409 0.0382308 0.0122785 0
0
Year 16 Pred = 0.0118335 0.257632 0.598283 0.121723 0.00874723 0.00169278
6.76316e-05 2.02665e-05
Year 17 Obs = 0 0.110044 0.417682 0.388881 0.0737928 0.00902708 0.000573148
0
Year 17 Pred = 0.0134863 0.249669 0.449755 0.241526 0.0419494 0.00300227
0.000581558 3.02773e-05

Year 18 Obs = 0 0.0489408 0.482591 0.3701 0.0791332 0.0146092 0.00462625 0
Year 18 Pred = 0.00939609 0.261367 0.437161 0.188094 0.0875821 0.0150934
0.00108494 0.00022232
Year 19 Obs = 0 0.0740931 0.528266 0.292783 0.0824253 0.0217921 0.000640943
0
Year 19 Pred = 0.0116216 0.201239 0.460684 0.203726 0.0788973 0.0369484
0.00633075 0.000553025
Year 20 Obs = 0 0.158292 0.373064 0.336419 0.101813 0.0228561 0.00680015
0.000755572
Year 20 Pred = 0.0126922 0.258592 0.376522 0.215777 0.0849255 0.0330854
0.0155036 0.00290211
Year 21 Obs = 0.00030656 0.0594727 0.406806 0.369099 0.129062 0.0282036
0.00613121 0.000919681
Year 21 Pred = 0.0118832 0.243715 0.445342 0.161663 0.0838943 0.0332556
0.0129912 0.00725493
Year 22 Obs = 0 0.0519851 0.367186 0.384075 0.142136 0.0375082 0.0135995
0.00350954
Year 22 Pred = 0.00709929 0.228597 0.435228 0.206892 0.0660539 0.0342416
0.0135887 0.00829945
Year 23 Obs = 0.00526662 0.0467413 0.341014 0.377441 0.14944 0.0482774
0.0263331 0.00548607
Year 23 Pred = 0.0110194 0.156385 0.453578 0.226455 0.095818 0.0306475
0.0159018 0.0101952
Year 24 Obs = 0.000729927 0.0447689 0.291241 0.374453 0.183698 0.0579075
0.0240876 0.0231144
Year 24 Pred = 0.00608732 0.258835 0.323281 0.23748 0.104011 0.044093
0.0141401 0.0120718
Year 25 Obs = 0.000987167 0.017769 0.34847 0.325518 0.179911 0.078233
0.0333169 0.0157947
Year 25 Pred = 0.00822831 0.135198 0.518666 0.160225 0.10234 0.044874
0.0190876 0.0113819
fleet 6
Year 1 Obs = 0.212871 0.787129 0 0 0 0 0 0
Year 1 Pred = 0.718792 0.0250859 0.0135958 0.00200437 0.240474 2.67082e-05
2.02681e-05 7.07132e-07
Year 2 Obs = 0.158085 0.841915 0 0 0 0 0 0
Year 2 Pred = 0.23644 0.757364 0.00107472 0.000320705 4.28162e-05 0.00475638
4.97891e-07 3.83545e-07
Year 3 Obs = 0.170732 0.829268 0 0 0 0 0 0
Year 3 Pred = 0.0556179 0.83264 0.111335 8.63328e-05 2.31109e-05 2.83357e-06
0.000294854 6.91242e-08
Year 4 Obs = 0.162602 0.837398 0 0 0 0 0 0
Year 4 Pred = 0.162592 0.483179 0.328911 0.025246 1.7581e-05 4.32906e-06
4.98369e-07 4.95539e-05
Year 5 Obs = 0.109729 0.890271 0 0 0 0 0 0
Year 5 Pred = 0.141342 0.735337 0.0883976 0.0326581 0.00225699 1.44887e-06
3.35635e-07 6.51837e-06
Year 6 Obs = 0.0805471 0.919453 0 0 0 0 0 0
Year 6 Pred = 0.0422235 0.765138 0.176415 0.0119714 0.00399591 0.000255248
1.5435e-07 1.20421e-06
Year 7 Obs = 0.0763889 0.923611 0 0 0 0 0 0
Year 7 Pred = 0.159164 0.436004 0.354047 0.0469661 0.002878 0.000887454
5.3384e-05 4.55434e-07
Year 8 Obs = 0.135417 0.864583 0 0 0 0 0 0
Year 8 Pred = 0.107194 0.777102 0.0782884 0.0331481 0.00397373 0.000224701
6.53456e-05 3.82277e-06
Year 9 Obs = 0.113208 0.886792 0 0 0 0 0 0

Year 9 Pred = 0.135751 0.622661 0.223144 0.012879 0.00497879 0.000547514
 2.94168e-05 9.15059e-06
 Year 10 Obs = 0.023976 0.976024 0 0 0 0 0
 Year 10 Pred = 0.0960632 0.704348 0.15599 0.0406169 0.00212944 0.0007667
 7.85997e-05 6.38763e-06
 Year 11 Obs = 0.024602 0.975398 0 0 0 0 0
 Year 11 Pred = 0.286781 0.529049 0.155438 0.0229308 0.00543626 0.000265115
 8.92392e-05 1.01456e-05
 Year 12 Obs = 0.0191657 0.980834 0 0 0 0 0
 Year 12 Pred = 0.103219 0.853183 0.0366636 0.0059405 0.000802542 0.000180046
 8.20802e-06 3.24099e-06
 Year 13 Obs = 0.175182 0.824818 0 0 0 0 0
 Year 13 Pred = 0.106981 0.629093 0.255423 0.0072512 0.00108312 0.000137103
 2.92469e-05 2.20335e-06
 Year 14 Obs = 0.139278 0.860722 0 0 0 0 0
 Year 14 Pred = 0.101664 0.679501 0.191922 0.0265466 0.000344863 2.10856e-05
 1.0941e-06 1.13208e-07
 Year 15 Obs = 0.0384911 0.961509 0 0 0 0 0
 Year 15 Pred = 0.0519485 0.637233 0.296777 0.0132096 0.000822477 8.70097e-06
 5.03351e-07 3.66988e-08
 Year 16 Obs = 0.0172786 0.590353 0.37581 0.0165587 0 0 0 0
 Year 16 Pred = 0.0499096 0.45655 0.450575 0.0419628 0.000953455 4.88338e-05
 4.89238e-07 3.62488e-08
 Year 17 Obs = 0 0.403892 0.51592 0.0801887 0 0 0 0
 Year 17 Pred = 0.0614286 0.477815 0.365799 0.089921 0.00493812 9.35352e-05
 4.54329e-06 5.8484e-08
 Year 18 Obs = 0.0471116 0.32922 0.553561 0.0701066 0 0 0 0
 Year 18 Pred = 0.0436996 0.510737 0.363045 0.0715029 0.010527 0.000480135
 8.65438e-06 4.38482e-07
 Year 19 Obs = 0 0.314914 0.588519 0.0965665 0 0 0 0
 Year 19 Pred = 0.0588762 0.428355 0.416741 0.0843607 0.0103299 0.00128032
 5.50084e-05 1.18813e-06
 Year 20 Obs = 0 0.524324 0.369231 0.0993763 0.00706861 0 0 0
 Year 20 Pred = 0.060827 0.520703 0.322209 0.0845244 0.0105185 0.00108453
 0.000127435 5.89813e-06
 Year 21 Obs = 0.0533049 0.401564 0.404407 0.140725 0 0 0 0
 Year 21 Pred = 0.056738 0.488925 0.379686 0.0630918 0.0103522 0.00108606
 0.000106387 1.46899e-05
 Year 22 Obs = 0.0298598 0.478367 0.365021 0.118221 0.00853138 0 0 0
 Year 22 Pred = 0.0355424 0.480862 0.389079 0.0846631 0.00854652 0.00117255
 0.000116683 1.76207e-05
 Year 23 Obs = 0.0499706 0.298648 0.466784 0.180482 0.00411523 0 0 0
 Year 23 Pred = 0.0615794 0.367191 0.452606 0.103438 0.0138383 0.00117144
 0.000152413 2.41612e-05
 Year 24 Obs = 0.109767 0.498271 0.31936 0.0691443 0.00345722 0 0 0
 Year 24 Pred = 0.0312177 0.557719 0.296036 0.0995453 0.0137852 0.00154665
 0.000124373 2.62536e-05
 Year 25 Obs = 0.0883694 0.314709 0.505701 0.0826682 0.00741163 0.00114025 0
 0
 Year 25 Pred = 0.0473619 0.326967 0.533082 0.075382 0.0152237 0.00176669
 0.000188438 2.77828e-05

Proportions of Discards at age by fleet

fleet 1
 Year 1 Obs = 0 0 0 0 0 0 0 0
 Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 2 Obs = 0 0 0 0 0 0 0 0

Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 3 Obs = 0 0 0 0 0 0 0 0
Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 4 Obs = 0 0 0 0 0 0 0 0
Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 5 Obs = 0 0 0 0 0 0 0 0
Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 6 Obs = 0 0 0 0 0 0 0 0
Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 7 Obs = 0 0 0 0 0 0 0 0
Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 8 Obs = 0 0 0 0 0 0 0 0
Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 9 Obs = 0 0 0 0 0 0 0 0
Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 10 Obs = 0 0 0 0 0 0 0 0
Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 11 Obs = 0 0 0 0 0 0 0 0
Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 12 Obs = 0 0 0 0 0 0 0 0
Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 13 Obs = 0 0 0 0 0 0 0 0
Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 14 Obs = 0 0 0 0 0 0 0 0
Year 14 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 15 Obs = 0 0 0 0 0 0 0 0
Year 15 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 16 Obs = 0 0 0 0 0 0 0 0
Year 16 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 17 Obs = 0 0 0 0 0 0 0 0
Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 18 Obs = 0 0 0 0 0 0 0 0
Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 19 Obs = 0 0 0 0 0 0 0 0
Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 20 Obs = 0 0 0 0 0 0 0 0
Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 21 Obs = 0 0 0 0 0 0 0 0
Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 22 Obs = 0 0 0 0 0 0 0 0
Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 23 Obs = 0 0 0 0 0 0 0 0
Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 24 Obs = 0 0 0 0 0 0 0 0
Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 25 Obs = 0 0 0 0 0 0 0 0
Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
fleet 2
Year 1 Obs = 0 0 0 0 0 0 0 0
Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 2 Obs = 0 0 0 0 0 0 0 0
Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 3 Obs = 0 0 0 0 0 0 0 0
Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 4 Obs = 0 0 0 0 0 0 0 0
Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 5 Obs = 0 0 0 0 0 0 0 0

Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 6 Obs = 0 0 0 0 0 0 0 0
Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 7 Obs = 0 0 0 0 0 0 0 0
Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 8 Obs = 0 0 0 0 0 0 0 0
Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 9 Obs = 0 0 0 0 0 0 0 0
Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 10 Obs = 0 0 0 0 0 0 0 0
Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 11 Obs = 0 0 0 0 0 0 0 0
Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 12 Obs = 0 0 0 0 0 0 0 0
Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 13 Obs = 0 0 0 0 0 0 0 0
Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 14 Obs = 0 0 0 0 0 0 0 0
Year 14 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 15 Obs = 0 0 0 0 0 0 0 0
Year 15 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 16 Obs = 0 0 0 0 0 0 0 0
Year 16 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 17 Obs = 0 0 0 0 0 0 0 0
Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 18 Obs = 0 0 0 0 0 0 0 0
Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 19 Obs = 0 0 0 0 0 0 0 0
Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 20 Obs = 0 0 0 0 0 0 0 0
Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 21 Obs = 0 0 0 0 0 0 0 0
Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 22 Obs = 0 0 0 0 0 0 0 0
Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 23 Obs = 0 0 0 0 0 0 0 0
Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 24 Obs = 0 0 0 0 0 0 0 0
Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 25 Obs = 0 0 0 0 0 0 0 0
Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
fleet 3
Year 1 Obs = 0 0 0 0 0 0 0 0
Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 2 Obs = 0 0 0 0 0 0 0 0
Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 3 Obs = 0 0 0 0 0 0 0 0
Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 4 Obs = 0 0 0 0 0 0 0 0
Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 5 Obs = 0 0 0 0 0 0 0 0
Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 6 Obs = 0 0 0 0 0 0 0 0
Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 7 Obs = 0 0 0 0 0 0 0 0
Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 8 Obs = 0 0 0 0 0 0 0 0

Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 9 Obs = 0 0 0 0 0 0 0 0
Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 10 Obs = 0 0 0 0 0 0 0 0
Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 11 Obs = 0 0 0 0 0 0 0 0
Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 12 Obs = 0 0 0 0 0 0 0 0
Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 13 Obs = 0 0 0 0 0 0 0 0
Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 14 Obs = 0 0 0 0 0 0 0 0
Year 14 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 15 Obs = 0 0 0 0 0 0 0 0
Year 15 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 16 Obs = 0 0 0 0 0 0 0 0
Year 16 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 17 Obs = 0 0 0 0 0 0 0 0
Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 18 Obs = 0 0 0 0 0 0 0 0
Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 19 Obs = 0 0 0 0 0 0 0 0
Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 20 Obs = 0 0 0 0 0 0 0 0
Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 21 Obs = 0 0 0 0 0 0 0 0
Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 22 Obs = 0 0 0 0 0 0 0 0
Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 23 Obs = 0 0 0 0 0 0 0 0
Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 24 Obs = 0 0 0 0 0 0 0 0
Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 25 Obs = 0 0 0 0 0 0 0 0
Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
fleet 4
Year 1 Obs = 0 0 0 0 0 0 0 0
Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 2 Obs = 0 0 0 0 0 0 0 0
Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 3 Obs = 0 0 0 0 0 0 0 0
Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 4 Obs = 0 0 0 0 0 0 0 0
Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 5 Obs = 0 0 0 0 0 0 0 0
Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 6 Obs = 0 0 0 0 0 0 0 0
Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 7 Obs = 0 0 0 0 0 0 0 0
Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 8 Obs = 0 0 0 0 0 0 0 0
Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 9 Obs = 0 0 0 0 0 0 0 0
Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 10 Obs = 0 0 0 0 0 0 0 0
Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 11 Obs = 0 0 0 0 0 0 0 0

Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 12 Obs = 0 0 0 0 0 0 0 0
Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 13 Obs = 0 0 0 0 0 0 0 0
Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 14 Obs = 0 0 0 0 0 0 0 0
Year 14 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 15 Obs = 0 0 0 0 0 0 0 0
Year 15 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 16 Obs = 0 0 0 0 0 0 0 0
Year 16 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 17 Obs = 0 0 0 0 0 0 0 0
Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 18 Obs = 0 0 0 0 0 0 0 0
Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 19 Obs = 0 0 0 0 0 0 0 0
Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 20 Obs = 0 0 0 0 0 0 0 0
Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 21 Obs = 0 0 0 0 0 0 0 0
Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 22 Obs = 0 0 0 0 0 0 0 0
Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 23 Obs = 0 0 0 0 0 0 0 0
Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 24 Obs = 0 0 0 0 0 0 0 0
Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 25 Obs = 0 0 0 0 0 0 0 0
Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
fleet 5
Year 1 Obs = 0 0 0 0 0 0 0 0
Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 2 Obs = 0 0 0 0 0 0 0 0
Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 3 Obs = 0 0 0 0 0 0 0 0
Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 4 Obs = 0 0 0 0 0 0 0 0
Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 5 Obs = 0 0 0 0 0 0 0 0
Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 6 Obs = 0 0 0 0 0 0 0 0
Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 7 Obs = 0 0 0 0 0 0 0 0
Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 8 Obs = 0 0 0 0 0 0 0 0
Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 9 Obs = 0 0 0 0 0 0 0 0
Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 10 Obs = 0 0 0 0 0 0 0 0
Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 11 Obs = 0 0 0 0 0 0 0 0
Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 12 Obs = 0 0 0 0 0 0 0 0
Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 13 Obs = 0 0 0 0 0 0 0 0
Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 14 Obs = 0 0 0 0 0 0 0 0

Year 14 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 15 Obs = 0 0 0 0 0 0 0 0
Year 15 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 16 Obs = 0 0 0 0 0 0 0 0
Year 16 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 17 Obs = 0 0 0 0 0 0 0 0
Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 18 Obs = 0 0 0 0 0 0 0 0
Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 19 Obs = 0 0 0 0 0 0 0 0
Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 20 Obs = 0 0 0 0 0 0 0 0
Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 21 Obs = 0 0 0 0 0 0 0 0
Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 22 Obs = 0 0 0 0 0 0 0 0
Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 23 Obs = 0 0 0 0 0 0 0 0
Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 24 Obs = 0 0 0 0 0 0 0 0
Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 25 Obs = 0 0 0 0 0 0 0 0
Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
fleet 6
Year 1 Obs = 0 0 0 0 0 0 0 0
Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 2 Obs = 0 0 0 0 0 0 0 0
Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 3 Obs = 0 0 0 0 0 0 0 0
Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 4 Obs = 0 0 0 0 0 0 0 0
Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 5 Obs = 0 0 0 0 0 0 0 0
Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 6 Obs = 0 0 0 0 0 0 0 0
Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 7 Obs = 0 0 0 0 0 0 0 0
Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 8 Obs = 0 0 0 0 0 0 0 0
Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 9 Obs = 0 0 0 0 0 0 0 0
Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 10 Obs = 0 0 0 0 0 0 0 0
Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 11 Obs = 0 0 0 0 0 0 0 0
Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 12 Obs = 0 0 0 0 0 0 0 0
Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 13 Obs = 0 0 0 0 0 0 0 0
Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 14 Obs = 0 0 0 0 0 0 0 0
Year 14 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 15 Obs = 0 0 0 0 0 0 0 0
Year 15 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 16 Obs = 0 0 0 0 0 0 0 0
Year 16 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 17 Obs = 0 0 0 0 0 0 0 0

Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 18 Obs = 0 0 0 0 0 0 0 0
 Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 19 Obs = 0 0 0 0 0 0 0 0
 Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 20 Obs = 0 0 0 0 0 0 0 0
 Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 21 Obs = 0 0 0 0 0 0 0 0
 Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 22 Obs = 0 0 0 0 0 0 0 0
 Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 23 Obs = 0 0 0 0 0 0 0 0
 Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 24 Obs = 0 0 0 0 0 0 0 0
 Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
 Year 25 Obs = 0 0 0 0 0 0 0 0
 Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15

F Reference Points Using Final Year Selectivity and Freport options

refpt	F	slope to plot on SRR			
F0.1	0.153305	0.318993			
Fmax	0.280737	0.51694			
F30%SPR	0.230649	0.43601			
F40%SPR	0.158871	0.327012			
Fmsy	0.204411	0.395064	SSBmsy	6.35383e+25	MSY
	1.21161e+25				
Fcurrent	0.586764	1.03479			

Stock-Recruitment Relationship Parameters

alpha = 2.91798e+25
 beta = 1.03225e+25
 unexpl = 2.25984e+26
 steepness = 0.851259

Spawning Stock, Obs Recruits(year+1), Pred Recruits(year+1), standardized residual

Year	SSB	Obs Recruits	Pred Recruits	Standardized Residual
init	xxxx	79921.3	6895.37	5.1869
1982	7668.5	123682	21677.4	3.68653
1983	13116.5	44589	37077.8	0.390507
1984	12626.9	66874.1	35693.9	1.32908
1985	11034.5	72109.2	31192.5	1.774
1986	12582	22478.1	35566.8	-0.971406
1987	10319.1	40624.6	29170.2	0.701182
1988	6190.88	26168.4	17500.4	0.8517
1989	5943.41	33824.5	16800.9	1.48134
1990	7411.88	27610.9	20952	0.584232
1991	5330.35	49273	15067.9	2.50817
1992	5217.14	36531.7	14747.9	1.92024
1993	8993.8	41893.3	25423.7	1.05729
1994	12864.6	42575	36365.9	0.333704
1995	17270.1	29748.6	48819.3	-1.04861
1996	19359	28798.2	54724.3	-1.35907
1997	19800.3	32946.7	55971.8	-1.12188
1998	21405.5	24247.8	60509.1	-1.93587
1999	21545.2	28964.3	60904.2	-1.57339
2000	21923.9	30381.5	61974.6	-1.50914
2001	25023.3	32213.9	70736.1	-1.66509
2002	28221.5	21683.1	79776.9	-2.75774

2003	30733.3	33222.8	86877.1	-2.03492
2004	28544.5	16870.6	80689.8	-3.31309
2005	25558.8	22026.7	72249.9	-2.51466
2006	23825.8	xxxx	67350.9	

Root Mean Square Error computed from Standardized Residuals

Component	#resids	RMSE
_Catch_Fleet_1	25	1.15006
_Catch_Fleet_2	25	0.211925
_Catch_Fleet_3	25	4.55708
_Catch_Fleet_4	25	2.81316
_Catch_Fleet_5	25	0.495593
_Catch_Fleet_6	25	0.0692742
Catch_Fleet_Total	150	2.24718
_Discard_Fleet_1	0	0
_Discard_Fleet_2	0	0
_Discard_Fleet_3	0	0
_Discard_Fleet_4	0	0
_Discard_Fleet_5	0	0
_Discard_Fleet_6	0	0
Discard_Fleet_Total	0	0
_Index_1	15	3.1099
_Index_2	25	2.5973
_Index_3	25	1.48293
_Index_4	25	7.45039
_Index_5	25	8.08223
_Index_6	23	1.77101
_Index_7	23	1.52043
_Index_8	25	3.99163
_Index_9	17	2.14715
_Index_10	19	1.14883
_Index_11	21	2.67517
_Index_12	25	1.81917
_Index_13	25	1.34097
Index_Total	293	3.82846
Nyear1	7	3.34493
Fmult_Year1	6	9.02474
_Fmult_devs_Fleet_1	0	0
_Fmult_devs_Fleet_2	0	0
_Fmult_devs_Fleet_3	0	0
_Fmult_devs_Fleet_4	0	0
_Fmult_devs_Fleet_5	0	0
_Fmult_devs_Fleet_6	0	0
Fmult_devs_Total	0	0
Recruit_devs	0	0
Fleet_Sel_params	32	7.70217
Index_Sel_params	68	0.756962
q_year1	0	0
q_devs	0	0
SRR_steepness	0	0
SRR_unexpl_S	0	0

Projections not requested

that's all

SS2 ALTERNATIVE RUN (F08 MULTI.REP)

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

Time: Wed Mar 19 08:48:34 2008

Data_File: F08_MULTI.DAT
Control_File: F08_MULTI_IAN.CTL

Convergence_Level:
Hessian:
Sum_of_months_on_read_was:_ 12 rescaled_to_sum_to: 1

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

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

```

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

```

Source Lambda Like

```

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

```

```

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

```

```

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

```

PARAMETERS

```

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

```

```

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

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

```

2 0 -1
3 0 -1
4 0 -1
5 0 -1
6 0 -1
Q_parms
sel_parms
#_size_sel:_1
#_male
#_size_sel:_2
#_male
#_size_sel:_3
#_male
#_size_sel:_4
#_male
#_size_sel:_5
#_male
#_size_sel:_6
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#_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
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#_size_sel:_39
#_male
#_size_sel:_40
#_male
#_size_sel:_41
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#_size_sel:_42
#_male
#_size_sel:_43
#_male
#_size_sel:_44
#_male
#_size_sel:_45
#_male
#_age_sel:_1
1 1.95761 2 0.5 9 4 4 -1 99 30 0
2 -3 -3
3 3.97162e-009 3 0 9 2 2 -1 99 31 0 LO
4 9 -3
5 -999 -2
6 -999 -2
#_male
#_age_sel:_2
7 2.82246 2 0.5 9 4 4 -1 99 32 0
8 -3 -3
9 0.544786 3 0 9 2 2 -1 99 33 0
10 9 -3
11 -999 -2
12 -999 -2
#_male
#_age_sel:_3

```

```

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

```

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

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

```

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

```

Selex_Block_Assignments Years:

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


```

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

```

```

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

```

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

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

1 1991 TIME 1 13788.5 13607.8 12908.3 26507 4473.92 4473.92 4473.92 4629
0.629675 1562.38 1562.38 1562.38 1595 0.36496 1046.58 1046.58 1046.58 1052
0.0842471 0 0 0 0 3528.02 3528.02 3528.02 3611 0.416467 428.241 428.241
428.241 429 0.0487067 12977
1 1992 TIME 1 14108.7 13885.9 13228.7 32693.2 6382.46 6382.46 6382.46 6361
0.884227 1169.98 1169.98 1169.98 1168 0.260421 690.092 690.092 690.092 690
0.0553676 0 0 0 0 3248.25 3248.25 3248.25 3242 0.382673 344.367 344.367
344.367 344 0.038694 13313.3
1 1993 TIME 1 14919.9 14710.7 13934.8 30696.7 4491.49 4491.49 4491.49 4401
0.580373 1322.18 1322.18 1322.18 1313 0.282546 846.301 846.301 846.301 846
0.0611891 0 0 0 0 4055.18 4055.18 4055.18 4006 0.436058 909.333 909.333
909.333 910 0.0925591 14014.3
1 1994 TIME 1 16141.9 15947.6 15184 28514.4 4958.5 4958.5 4958.5 4969
0.562156 1630.73 1630.73 1630.73 1620 0.296654 433.541 433.541 433.541 434
0.0296666 472.132 472.132 472.132 472 0.0509053 4201.27 4201.27 4201.27 4231
0.407506 677.4 677.4 677.4 678 0.0631812 15257.9
1 1995 TIME 1 16363 16138.4 15414.2 32953.6 4447.27 4447.27 4447.27 4911
0.760228 1943.54 1943.54 1943.54 2066 0.525156 137.847 137.847 137.847 138
0.0122314 169.595 169.595 169.595 170 0.0200129 2324.56 2324.56 2324.56 2450
0.426889 750.203 750.203 750.203 752 0.0613531 15499.6
1 1996 TIME 1 20718.7 20552.7 19654.2 24358.2 3918.19 3918.19 3918.19 3947
0.475522 1867.38 1867.38 1867.38 1913 0.3635 355.946 355.946 355.946 355
0.0235728 108.07 108.07 108.07 108 0.00913772 4388.14 4388.14 4388.14 4454
0.578351 687.134 687.134 687.134 681 0.042292 19717.3
1 1997 TIME 1 23214.8 23032.1 22276.1 26808.5 3484.28 3484.28 3484.28 3313
0.282129 687.09 687.09 687.09 681 0.0823618 239.71 239.71 239.71 239
0.0126451 86.1085 86.1085 86.1085 86 0.00530796 5833.36 5833.36 5833.36 5382
0.513491 559.913 559.913 559.913 556 0.0292825 22345.5
1 1998 TIME 1 26576.2 26380.7 25618.9 28696.3 3850.77 3850.77 3850.77 3730
0.257561 1366 1366 1366 1346 0.118628 254.276 254.276 254.276 254 0.0118904
135.111 135.111 135.111 135 0.00748703 5958.31 5958.31 5958.31 5659 0.420086
735.407 735.407 735.407 734 0.0366528 25693.2
1 1999 TIME 1 29259.8 29109.1 28286.6 22114.6 3539.67 3539.67 3539.67 3551
0.197563 1271.76 1271.76 1271.76 1271 0.0910697 1177.61 1177.61 1177.61 1181
0.0471332 366.676 366.676 366.676 367 0.0177053 3785.77 3785.77 3785.77 3795
0.222714 708.711 708.711 708.711 711 0.0327238 28343.9
1 2000 TIME 1 32517.2 32332 31637.6 27166 3590 3590 3590 3564 0.173567
1529.87 1529.87 1529.87 1521 0.0918201 591.85 591.85 591.85 592 0.0219422
133.992 133.992 133.992 134 0.0059384 7604.64 7604.64 7604.64 7470 0.38613
948.278 948.278 948.278 952 0.0436747 31708
1 2001 TIME 1 32786.7 32601.2 31846.6 27215 3752.61 3752.61 3752.61 3705
0.175605 1274.81 1274.81 1274.81 1265 0.07105 230.053 230.053 230.053 230
0.00826828 238.013 238.013 238.013 238 0.0106197 5395.49 5395.49 5395.49 5279
0.261697 1268.49 1268.49 1268.49 1274 0.0594051 31917
1 2002 TIME 1 35532.8 35327.1 34532.3 30178.7 4845.25 4845.25 4845.25 4723
0.202588 1871.1 1871.1 1871.1 1850 0.0946733 307.344 307.344 307.344 307
0.0098913 142.064 142.064 142.064 142 0.00573971 3704.72 3704.72 3704.72 3632
0.161527 776.721 776.721 776.721 777 0.0339231 34610.5
1 2003 TIME 1 39940.8 39797.3 38930.3 21051.9 5006.81 5006.81 5006.81 4835
0.185697 1635.26 1635.26 1635.26 1614 0.072284 446.213 446.213 446.213 445
0.0129194 83.0403 83.0403 83.0403 83 0.00301957 5493.05 5493.05 5493.05 5279
0.211607 885.684 885.684 885.684 882 0.0350385 38984.8
1 2004 TIME 1 41141.6 40946.7 40257.4 28596.6 6255.46 6255.46 6255.46 6036
0.213811 2221.22 2221.22 2221.22 2193 0.0898307 170.135 170.135 170.135 170
0.00474415 74.0298 74.0298 74.0298 74 0.00254895 4968.13 4968.13 4968.13 4831
0.176707 1038.15 1038.15 1038.15 1034 0.0421661 40331.4

1 2005 TIME 1 41755.1 41659.5 40874.8 14016.7 6009.79 6009.79 6009.79 5984
 0.204824 1846.92 1846.92 1846.92 1841 0.0716039 152.99 152.99 152.99 153
 0.00425289 76.9977 76.9977 76.9977 77 0.00274663 4745.78 4745.78 4745.78 4724
 0.166086 996.952 996.952 996.952 999 0.0422069 40911.1
 1 2006 TIME 1 40233.3 40053.2 39529 26414.8 4482.71 4482.71 4482.71 4481
 0.145567 1781.85 1781.85 1781.85 1781 0.0671848 213.998 213.998 213.998 214
 0.00589704 73.9991 73.9991 73.9991 74 0.00257925 4995.37 4995.37 4995.37 4992
 0.168439 794.683 794.683 794.683 795 0.0367256 39597.5
 1 2007 FORE 1 41381 41082.8 40510.7 43744.6 0.332017 0.332017 0.332017
 0.332017 9.23527e-006 0.140433 0.140433 0.140433 0.140433 4.26244e-006
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 0.00517644 0.00517644 1.63637e-007 0.378088 0.378088 0.378088 0.378088
 1.06863e-005 0.0564658 0.0564658 0.0564658 0.0564658 2.33e-006 40510.8

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

1995 45868.1 45459.8 477538 43913.8 0.732982 0.0919589 0.50213 0.147926 +
 16363 16138.4 9773.01 9773.01 9773.01 15414.2 32953.6 0.597262 + 1.58823
 1.78146
 1996 50498 50089.7 477538 48530 0.810033 0.101626 0.515467 0.196694 +
 20718.7 20552.7 11324.9 11324.9 11324.9 19654.2 24358.2 0.546602 + 1.32259
 1.47529
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 23214.8 23032.1 10890.5 10890.5 10890.5 22276.1 26808.5 0.469116 + 0.820735
 0.917455
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 26576.2 26380.7 12299.9 12299.9 12299.9 25618.9 28696.3 0.462815 + 0.747176
 0.842448
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 0.600614
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 0.712707
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 0.574126
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 0.49981
 2003 98627.6 98219.3 477538 96610.2 1.61256 0.202309 0.573842 0.507836 +
 39940.8 39797.3 13550.1 13550.1 13550.1 38930.3 21051.9 0.339254 + 0.44817
 0.51235
 2004 97930.7 97522.4 477538 95913.4 1.60093 0.20085 0.573505 0.506709 +
 41141.6 40946.7 14727.1 14727.1 14727.1 40257.4 28596.6 0.357962 + 0.450859
 0.519928
 2005 103328 102920 477538 101309 1.69099 0.212149 0.573883 0.526184 +
 41755.1 41659.5 13829.4 13829.4 13829.4 40874.8 14016.7 0.331204 + 0.416358
 0.482293
 2006 115502 115093 477538 113478 1.8941 0.237631 0.57513 0.558108 + 40233.3
 40053.2 12342.6 12342.6 12342.6 39529 26414.8 0.306776 + 0.360707 0.418063
 2007 479522 479114 477538 477457 7.96942 0.999831 0.000185743 0.818711 +
 41381 41082.8 0.927974 0.927974 0.927974 40510.7 43744.6 2.24251e-005 +
 2.28845e-005 2.65233e-005

SPAWN_RECRUIT Function: 3 - - - - -
 11.0006 Ln(R0) 59911.2
 0.879485 steep
 0.6 stddev_recr
 0 env_link_
 -0.47173 init-eq 37379.9
 1982 2006 recdev:start_end 1957 first_year_with_full_bias_adjustment
 year spawn_bio exp-recr with-env bias-adj pred-recr dev
 S/Rcurve 477538 59911.2
 Virg 477538 59911.2 59911.2 50042 59911.2
 Init 22076.4 37379.9 37379.9 31222.3 37379.9
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 2003 38930.3 43227.2 43227.2 36106.4 21051.9 -0.53948
 2004 40257.4 43663.6 43663.6 36470.9 28596.6 -0.243228
 2005 40874.8 43859.8 43859.8 36634.8 14016.7 -0.960752
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 2007 40510.7 43744.6 43744.6 43744.6 43744.6 0 forecast

N_est r.m.s.e.
 25 0.419648

INDEX_2

index	year	vuln	bio	obs	exp	eff_Q	SE	Dev	Like	Like+log(s)
7	1982	29774.9	-0.001	5.02351	0.000168716	0.16				
7	1983	37028.8	-0.001	6.24736	0.000168716	0.16				
7	1984	45427.8	-0.001	7.66442	0.000168716	0.16				
7	1985	30632.9	-0.001	5.16827	0.000168716	0.16				
7	1986	37501	-0.001	6.32702	0.000168716	0.16				
7	1987	39105.7	-0.001	6.59778	0.000168716	0.16				
7	1988	28102.3	-0.001	4.74131	0.000168716	0.16				
7	1989	8463.62	-0.001	1.42795	0.000168716	0.16				
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7	1991	22155	-0.001	3.73791	0.000168716	0.16				
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7	1994	23534.2	3.76	3.9706	0.000168716	0.16	-0.0544976	0.0580076	-1.77457	
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7	1999	23322.2	2.11	3.93483	0.000168716	0.16	-0.623181	7.58505	5.75246	
7	2000	17962.7	0.7	3.0306	0.000168716	0.16	-1.46544	41.9435	40.1109	
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7	2002	22104.7	2.77	3.72943	0.000168716	0.16	-0.297407	1.72756	-0.105022	
7	2003	24578.6	8.17	4.1468	0.000168716	0.16	0.678131	8.98168	7.1491	
7	2004	17137	1.45	2.89128	0.000168716	0.16	-0.690137	9.30253	7.46995	
7	2005	23278.6	2.96	3.92748	0.000168716	0.16	-0.282808	1.56212	-0.270462	
7	2006	11411.5	2.64	1.92531	0.000168716	0.16	0.315691	1.9465	0.113919	
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8	1983	12864.2	-0.001	5.87992	0.000457075	0.16				
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8	1985	19150.8	-0.001	8.75337	0.000457075	0.16				
8	1986	13693.6	-0.001	6.25902	0.000457075	0.16				
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INDEX_1

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

```

rmse_Qdev_not_in_logL
pen_mean_Qdev_not_in_logL_in_randwalk_approach

INDEX_3

Index Q_parm_assignments

```

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

```

```

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

```

```

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

```

```

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

```

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

FIT_LEN_COMPS

Index Year Seas Gender Mkt Nsamp effN Like

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

MeaneffN/MeaninputN

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

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

FIT_AGE_COMPS

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

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

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

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

1 0 25 343.08 200 54.9403 1.7154 1.7154
 2 0 25 46.883 200 10.8494 0.234415 0.234415
 3 0 18 58.9492 200 20.2599 0.294746 0.294746
 4 0 13 128.722 200 14.849 0.643612 0.643612
 5 0 25 136.872 200 53.0946 0.684359 0.684359
 6 0 25 203.369 200 25.0275 1.01685 1.01685
 7 0 0 0 0 0 0 -1.#IND
 8 0 0 0 0 0 0 -1.#IND
 9 0 0 0 0 0 0 -1.#IND
 10 0 0 0 0 0 0 -1.#IND
 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

1 1994 1 1994-1 0.021663 0.399745 0.999448 0.999976 0.99997 0.99973 0.999242
0.998508 0.997528 0.996303 0.994834 0.993122 0.991168 0.988974 0.986541
0.983872
1 1995 1 1995-1 0.00253893 0.102677 0.720443 0.999541 0.999993 0.999909
0.999575 0.998994 0.998168 0.997095 0.995778 0.994218 0.992414 0.99037
0.988086 0.985564
1 2006 1 2006-1 0.00253893 0.102677 0.720443 0.999541 0.999993 0.999909
0.999575 0.998994 0.998168 0.997095 0.995778 0.994218 0.992414 0.99037
0.988086 0.985564
1 2007 1 2007-1 0.00253893 0.102677 0.720443 0.999541 0.999993 0.999909
0.999575 0.998994 0.998168 0.997095 0.995778 0.994218 0.992414 0.99037
0.988086 0.985564
2 1982 1 1982-2 0.00985151 0.145692 0.675532 0.999153 0.999989 0.999946
0.999662 0.999131 0.998353 0.99733 0.996062 0.99455 0.992795 0.990799
0.988563 0.986088
2 1994 1 1994-2 0.00985151 0.145692 0.675532 0.999153 0.999989 0.999946
0.999662 0.999131 0.998353 0.99733 0.996062 0.99455 0.992795 0.990799
0.988563 0.986088
2 1995 1 1995-2 0.00106144 0.0394312 0.383279 0.9755 0.999953 0.999987
0.999791 0.999348 0.998658 0.997722 0.996541 0.995116 0.993447 0.991537
0.989386 0.986996
2 2006 1 2006-2 0.00106144 0.0394312 0.383279 0.9755 0.999953 0.999987
0.999791 0.999348 0.998658 0.997722 0.996541 0.995116 0.993447 0.991537
0.989386 0.986996
2 2007 1 2007-2 0.00106144 0.0394312 0.383279 0.9755 0.999953 0.999987
0.999791 0.999348 0.998658 0.997722 0.996541 0.995116 0.993447 0.991537
0.989386 0.986996
3 1982 1 1982-3 0.347973 0.999523 0.999966 0.999996 0.999997 0.999998
0.999998 0.999998 0.999998 0.999998 0.999997 0.999996 0.999991 0.999959
0.997971 0.000471197
3 1994 1 1994-3 0.347973 0.999523 0.999966 0.999996 0.999997 0.999998
0.999998 0.999998 0.999998 0.999998 0.999997 0.999996 0.999991 0.999959
0.997971 0.000471197
3 1995 1 1995-3 0.0618538 0.568734 0.998788 0.999986 0.999999 1 1 1 1 1 1 1 1
1 1 0.999769
3 2006 1 2006-3 0.0618538 0.568734 0.998788 0.999986 0.999999 1 1 1 1 1 1 1 1
1 1 0.999769
3 2007 1 2007-3 0.0618538 0.568734 0.998788 0.999986 0.999999 1 1 1 1 1 1 1 1
1 1 0.999769
4 1982 1 1982-4 0.034365 0.497215 0.998452 0.97541 0.258896 0.00935664
9.09988e-005 4.55558e-005 4.54797e-005 4.54604e-005 4.54507e-005 4.5445e-005
4.54415e-005 4.54391e-005 4.54374e-005 4.54362e-005
4 1994 1 1994-4 0.034365 0.497215 0.998452 0.97541 0.258896 0.00935664
9.09988e-005 4.55558e-005 4.54797e-005 4.54604e-005 4.54507e-005 4.5445e-005
4.54415e-005 4.54391e-005 4.54374e-005 4.54362e-005
4 1995 1 1995-4 0.0107409 0.279376 0.984951 0.999189 0.735157 0.515702
0.500663 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531
0.500531 0.500531
4 2006 1 2006-4 0.0107409 0.279376 0.984951 0.999189 0.735157 0.515702
0.500663 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531
0.500531 0.500531
4 2007 1 2007-4 0.0107409 0.279376 0.984951 0.999189 0.735157 0.515702
0.500663 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531 0.500531
0.500531 0.500531
5 1982 1 1982-5 0.0505048 0.588763 0.999024 0.999989 0.999939 0.999644
0.999103 0.998314 0.997281 0.996002 0.99448 0.992715 0.990709 0.988462
0.985978 0.983256

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

7 2006 1
 8 2006 1
 9 2006 1
 10 2006 1
 11 2006 1
 12 2006 1
 13 2006 1
 14 2006 1
 15 2006 1
 16 2006 1
 17 2006 1
 18 2006 1
 19 2006 1
 20 2006 1
 21 2006 1
 22 2006 1
 23 2006 1
 24 2006 1
 25 2006 1
 26 2006 1
 27 2006 1
 28 2006 1
 29 2006 1
 30 2006 1
 31 2006 1
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 34 2006 1
 35 2006 1
 36 2006 1
 37 2006 1
 38 2006 1
 39 2006 1
 40 2006 1
 41 2006 1
 42 2006 1
 43 2006 1
 44 2006 1
 45 2006 1

AGE_SELEX_mortality_in_endyear

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

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

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

ENVIRONMENTAL_DATA Begins_in_startyr-1

NUMBERS_AT_AGE

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

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

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

CATCH_AT_AGE

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

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

1991 1 83.4701 787.422 1034.65 160.974 76.6016 14.5116 2.12955 0.282383
 0.0679508 0.0102201 0.00144754 0.000295956 6.2922e-005 1.49388e-005 3.50668e-
 006 1.14952e-006
 1992 1 73.7436 505.813 776.36 200.656 19.8716 9.67756 1.84177 0.270451
 0.0358949 0.00864839 0.00130285 0.000184894 3.78902e-005 8.07717e-006
 1.92352e-006 6.22799e-007
 1993 1 75.0351 695.182 794.861 227.451 38.7369 3.92045 1.91653 0.364973
 0.0536431 0.00712873 0.00172038 0.000259687 3.69401e-005 7.5906e-006
 1.62314e-006 5.30769e-007
 1994 1 73.6426 698.134 1103.38 255.541 48.5437 8.68066 0.886077 0.433448
 0.0826081 0.012155 0.00161759 0.000391052 5.91494e-005 8.4338e-006 1.73768e-
 006 5.05581e-007
 1995 1 16.557 377.312 1180.95 524.481 80.7089 16.1855 2.93435 0.299803
 0.146782 0.0280076 0.00412735 0.000550297 0.000133328 2.0218e-005 2.89106e-
 006 7.75494e-007
 1996 1 8.47553 318.811 1243.01 490.124 57.6747 8.87918 1.7946 0.325555
 0.0332866 0.0163155 0.00311798 0.000460376 6.15255e-005 1.49475e-005
 2.27377e-006 4.14262e-007
 1997 1 2.11667 54.8569 398.733 235.169 26.667 3.11084 0.481081 0.0972657
 0.0176536 0.00180646 0.000886429 0.000169642 2.50913e-005 3.36007e-006
 8.18227e-007 1.47637e-007
 1998 1 3.26331 87.4723 459.418 593.307 118.318 13.2721 1.55256 0.240137
 0.0485651 0.00881886 0.000903049 0.000443528 8.49758e-005 1.25852e-005
 1.6879e-006 4.86308e-007
 1999 1 1.93009 72.1972 415.669 415.86 184.401 36.51 4.11013 0.480854
 0.0743874 0.0150491 0.00273414 0.000280165 0.000137718 2.64121e-005 3.9163e-
 006 6.7803e-007
 2000 1 2.39027 55.8971 441.27 507.321 186.241 81.9431 16.2955 1.83479
 0.214683 0.0332198 0.00672329 0.00122215 0.000125317 6.16507e-005 1.18349e-
 005 2.06185e-006
 2001 1 1.85306 53.3617 270.425 424.965 174.661 63.8838 28.2145 5.61133
 0.631885 0.0739547 0.0114484 0.00231832 0.000421717 4.32788e-005 2.13126e-005
 4.81193e-006
 2002 1 2.74167 72.1536 459.467 483.302 279.31 114.952 42.2679 18.6699
 3.71332 0.418229 0.0489635 0.00758287 0.00153637 0.00027966 2.87225e-005
 1.73633e-005
 2003 1 1.45988 61.116 359.105 483.991 188.756 108.006 44.58 16.3926 7.24101
 1.44043 0.162279 0.019006 0.0029449 0.000597037 0.000108755 1.79577e-005
 2004 1 2.46446 52.9531 492.958 609.815 305.098 117.89 67.6364 27.9176
 10.2662 4.53564 0.902518 0.10172 0.0119195 0.00184806 0.000374948 7.96814e-
 005
 2005 1 0.962926 57.4187 276.475 544.744 249.722 124.098 48.1001 27.5966
 11.3914 4.18965 1.85151 0.368565 0.0415606 0.00487309 0.000756097 0.00018626
 2006 1 1.7031 26.5257 361.135 374.193 275.533 125.45 62.5347 24.2381 13.9064
 5.741 2.11196 0.933632 0.185929 0.0209771 0.00246116 0.000476569
 fleet 3 fleetarea 1 gmorph 1
 Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 1981 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1982 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1983 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1984 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1985 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1986 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1987 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1988 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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

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

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

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

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

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

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

Growth_Parameters

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

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

1 1996 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 1996 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 1997 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 1997 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 1998 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 1998 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 1999 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 1999 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 2000 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 2000 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 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 2001 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 2002 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 2002 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
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
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 2004 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 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 2005 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 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 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
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364

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
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
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 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 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
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 10 5.83176e-010 1.12322e-012 3.11849e-014 3.22251e-015 6.93596e-016 2.33679e-016 1.05418e-016 5.80595e-017 3.68354e-017 2.59089e-017 1.96795e-017 1.58451e-017 1.33426e-017 1.16338e-017 1.04248e-017 9.54536e-018
 mean 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666 66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
 sdsz 2.81 3.69026 4.40721 4.99116 5.46677 5.85416 6.16967 6.42666 6.63596 6.80644 6.9453 7.05839 7.1505 7.22553 7.28663 7.3364

AGE AGE_KEY

KEY: 1

mean 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5 12.5 13.5 14.5 15.5
 SD 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001
 0.001 0.001 0.001 0.001
 7 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1
 6 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
 5 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
 4 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
 3 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0
 2 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Composition_Database

year	season	fleet	rep	pick_gender	kind	mkt	ageerr	gender	Lbin_lo	Lbin_hi	bin						
obs	exp	Pearson	N	effN	Like	Used											
1982	1	1	1	0	AGE	0	1	1	1	70	0	0.0999438	0.0530772	2.95642	200	85.5962	12.6501
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	1	0.476731	0.456822	0.565234	200	85.5962	4.06741
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	2	0.390191	0.381253	0.260239	200	85.5962	1.80831
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	3	0.0161747	0.0833381	-3.43654	200	85.5962	-5.30355
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	4	0.00432648	0.0194175	-1.54666	200	85.5962	-1.29917
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	5	0.00682085	0.0045571	0.475325	200	85.5962	0.550166
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	6	0.00404933	0.00112714	1.23163	200	85.5962	1.03571
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	7	0.00176283	0.000407879	0.948988	200	85.5962	0.516052
1																	
1982	1	1	1	0	AGE	0	1	1	1	70							
1982	1	2	1	0	AGE	0	1	1	1	70	0	0.17237	0.0433609	8.95802	200	3.2155	47.577
1																	
1982	1	2	1	0	AGE	0	1	1	1	70	1	0.608225	0.299001	9.55198	200	3.2155	86.38
1																	
1982	1	2	1	0	AGE	0	1	1	1	70	2	0.179394	0.462702	-8.03556	200	3.2155	-33.9952
1																	
1982	1	2	1	0	AGE	0	1	1	1	70	3	0.025036	0.149444	-4.93483	200	3.2155	-8.9459
1																	
1982	1	2	1	0	AGE	0	1	1	1	70	4	0.00923145	0.0347883	-1.9724	200	3.2155	-2.44941
1																	
1982	1	2	1	0	AGE	0	1	1	1	70	5	0.00343644	0.0081052	-0.736379	200	3.2155	-0.589741
1																	
1982	1	2	1	0	AGE	0	1	1	1	70	6	0.00115356	0.00194522	-0.254093	200	3.2155	-0.120552
1																	
1982	1	2	1	0	AGE	0	1	1	1	70	7	0.00115356	0.000653287	0.276892	200	3.2155	0.13118
1																	
1982	1	2	1	0	AGE	0	1	1	1	70							
1982	1	5	1	0	AGE	0	1	1	1	70	0	0.177705	0.0961099	3.91503	200	48.3589	21.8445
1																	
1982	1	5	1	0	AGE	0	1	1	1	70	1	0.545508	0.523005	0.637136	200	48.3589	4.59592
1																	
1982	1	5	1	0	AGE	0	1	1	1	70	2	0.226013	0.296261	-2.17574	200	48.3589	-12.2341
1																	
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1982	1	5	1	0	AGE	0	1	1	1	70	4	0.0139854	0.0151159	-0.131033	200	48.3589	-0.217428
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1982	1	5	1	0	AGE	0	1	1	1	70							
1982	1	6	1	0	AGE	0	1	1	1	70	0	0.212929	0.129703	3.50319	200	16.2957	21.1102
1																	
1982	1	6	1	0	AGE	0	1	1	1	70	1	0.787071	0.870297	-3.50319	200	16.2957	-15.8226
1																	
1982	1	6	1	0	AGE	0	1	1	1	70							
1983	1	1	1	0	AGE	0	1	1	1	70	0	0.102378	0.0548332	2.95355	200	26.1453	12.7846
1																	
1983	1	1	1	0	AGE	0	1	1	1	70	1	0.633797	0.534206	2.82346	200	26.1453	21.669
1																	
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1																	

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5.00569 1
1983 1 1 1 0 AGE 0 1 1 1 70 4 0.00166861 0.0144014 -1.51143 200 26.1453 -
0.719282 1
1983 1 1 1 0 AGE 0 1 1 1 70 5 0.00334187 0.00344786 -0.0255715 200 26.1453 -
0.0208688 1
1983 1 1 1 0 AGE 0 1 1 1 70 6 0.000779684 0.00087368 -0.0449924 200 26.1453 -
0.0177496 1
1983 1 1 1 0 AGE 0 1 1 1 70 7 0.00130258 0.000331903 0.753626 200 26.1453
0.356192 1
1983 1 1 1 0 AGE 0 1 1 1 70
1983 1 2 1 0 AGE 0 1 1 1 70 0 0.0778858 0.047458 2.0239 200 7.69229 7.71689 1
1983 1 2 1 0 AGE 0 1 1 1 70 1 0.597407 0.370473 6.6455 200 7.69229 57.0902 1
1983 1 2 1 0 AGE 0 1 1 1 70 2 0.250058 0.415537 -4.74868 200 7.69229 -25.3998
1
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1
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1.03732 1
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1.32114 1
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2.65095 1
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2.94421 1
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0.196757 1
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1
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7.48969 1
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1.52847 1
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1
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0.161057 1
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1
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0.413829 1
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1.15281 1
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1987 1 2 1 0 AGE 0 1 1 1 70 0 0.0549422 0.0323282 1.80816 200 11.4841 5.82762
1
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4.82218 1
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0.16505 1
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5.94234 1
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0.218753 1
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1
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4.61331 1
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0.0817446 1

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1
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0.169969 1
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4.87832 1
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1.75517 1
1988 1 1 1 0 AGE 0 1 1 1 70 4 0.0148638 0.00892227 0.89355 200 391.169
1.51722 1
1988 1 1 1 0 AGE 0 1 1 1 70 5 0.00366672 0.00221542 0.436541 200 391.169
0.369499 1
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0.142848 1
1988 1 1 1 0 AGE 0 1 1 1 70 7 0.000732011 0.00015633 0.651192 200 391.169
0.226019 1
1988 1 1 1 0 AGE 0 1 1 1 70
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44 1982 A 1 9 0
44 1982 A 1 10 0
44 1982 A 1 11 0
44 1982 A 1 12 0
44 1982 A 1 13 0
44 1982 A 1 14 0
44 1982 A 1 15 0
44 2006 L 1 10 1
44 2006 L 1 11 1
44 2006 L 1 12 1
44 2006 L 1 13 1
44 2006 L 1 14 1
44 2006 L 1 15 1
44 2006 L 1 16 1
44 2006 L 1 17 1
44 2006 L 1 18 1
44 2006 L 1 19 1
44 2006 L 1 20 1
44 2006 L 1 21 1
44 2006 L 1 22 1
44 2006 L 1 23 1
44 2006 L 1 24 1
44 2006 L 1 25 1
44 2006 L 1 26 1
44 2006 L 1 27 1
44 2006 L 1 28 1
44 2006 L 1 29 1
44 2006 L 1 30 1
44 2006 L 1 31 1
44 2006 L 1 32 1
44 2006 L 1 33 1
44 2006 L 1 34 1
44 2006 L 1 35 1
44 2006 L 1 36 1
44 2006 L 1 37 1
44 2006 L 1 38 1
44 2006 L 1 39 1

44 2006 L 1 40 1
44 2006 L 1 41 1
44 2006 L 1 42 1
44 2006 L 1 43 1
44 2006 L 1 44 1
44 2006 L 1 45 1
44 2006 L 1 46 1
44 2006 L 1 47 1
44 2006 L 1 48 1
44 2006 L 1 49 1
44 2006 L 1 50 1
44 2006 L 1 51 1
44 2006 L 1 52 1
44 2006 L 1 53 1
44 2006 L 1 54 1
44 2006 L 1 55 1
44 2006 L 1 56 1
44 2006 L 1 57 1
44 2006 L 1 58 1
44 2006 L 1 59 1
44 2006 L 1 60 1
44 2006 L 1 61 1
44 2006 L 1 62 1
44 2006 L 1 63 1
44 2006 L 1 64 1
44 2006 L 1 65 1
44 2006 L 1 66 1
44 2006 L 1 67 1
44 2006 L 1 68 1
44 2006 L 1 69 1
44 2006 L 1 70 1
44 2006 L 1 71 1
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44 2006 L 1 73 1
44 2006 L 1 74 1
44 2006 L 1 75 1
44 2006 L 1 76 1
44 2006 L 1 77 1
44 2006 L 1 78 1
44 2006 L 1 79 1
45 1982 L 1 10 1
45 1982 L 1 11 1
45 1982 L 1 12 1
45 1982 L 1 13 1
45 1982 L 1 14 1
45 1982 L 1 15 1
45 1982 L 1 16 1
45 1982 L 1 17 1
45 1982 L 1 18 1
45 1982 L 1 19 1
45 1982 L 1 20 1
45 1982 L 1 21 1
45 1982 L 1 22 1
45 1982 L 1 23 1
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45 1982 L 1 25 1
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45 1982 L 1 27 1
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45 1982 L 1 30 1
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45 1982 L 1 32 1
45 1982 L 1 33 1
45 1982 L 1 34 1
45 1982 L 1 35 1
45 1982 L 1 36 1
45 1982 L 1 37 1
45 1982 L 1 38 1
45 1982 L 1 39 1
45 1982 L 1 40 1
45 1982 L 1 41 1
45 1982 L 1 42 1
45 1982 L 1 43 1
45 1982 L 1 44 1
45 1982 L 1 45 1
45 1982 L 1 46 1
45 1982 L 1 47 1
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45 1982 L 1 51 1
45 1982 L 1 52 1
45 1982 L 1 53 1
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45 1982 L 1 57 1
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45 1982 L 1 59 1
45 1982 L 1 60 1
45 1982 L 1 61 1
45 1982 L 1 62 1
45 1982 L 1 63 1
45 1982 L 1 64 1
45 1982 L 1 65 1
45 1982 L 1 66 1
45 1982 L 1 67 1
45 1982 L 1 68 1
45 1982 L 1 69 1
45 1982 L 1 70 1
45 1982 L 1 71 1
45 1982 L 1 72 1
45 1982 L 1 73 1
45 1982 L 1 74 1
45 1982 L 1 75 1
45 1982 L 1 76 1
45 1982 L 1 77 1
45 1982 L 1 78 1
45 1982 L 1 79 1
45 1982 A 1 0 0
45 1982 A 1 1 0
45 1982 A 1 2 0
45 1982 A 1 3 0

45 1982 A 1 4 1
45 1982 A 1 5 1
45 1982 A 1 6 1
45 1982 A 1 7 1
45 1982 A 1 8 1
45 1982 A 1 9 1
45 1982 A 1 10 1
45 1982 A 1 11 1
45 1982 A 1 12 1
45 1982 A 1 13 1
45 1982 A 1 14 1
45 1982 A 1 15 1
45 2006 L 1 10 1
45 2006 L 1 11 1
45 2006 L 1 12 1
45 2006 L 1 13 1
45 2006 L 1 14 1
45 2006 L 1 15 1
45 2006 L 1 16 1
45 2006 L 1 17 1
45 2006 L 1 18 1
45 2006 L 1 19 1
45 2006 L 1 20 1
45 2006 L 1 21 1
45 2006 L 1 22 1
45 2006 L 1 23 1
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45 2006 L 1 27 1
45 2006 L 1 28 1
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45 2006 L 1 31 1
45 2006 L 1 32 1
45 2006 L 1 33 1
45 2006 L 1 34 1
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45 2006 L 1 36 1
45 2006 L 1 37 1
45 2006 L 1 38 1
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45 2006 L 1 40 1
45 2006 L 1 41 1
45 2006 L 1 42 1
45 2006 L 1 43 1
45 2006 L 1 44 1
45 2006 L 1 45 1
45 2006 L 1 46 1
45 2006 L 1 47 1
45 2006 L 1 48 1
45 2006 L 1 49 1
45 2006 L 1 50 1
45 2006 L 1 51 1
45 2006 L 1 52 1
45 2006 L 1 53 1
45 2006 L 1 54 1

45 2006 L 1 55 1
45 2006 L 1 56 1
45 2006 L 1 57 1
45 2006 L 1 58 1
45 2006 L 1 59 1
45 2006 L 1 60 1
45 2006 L 1 61 1
45 2006 L 1 62 1
45 2006 L 1 63 1
45 2006 L 1 64 1
45 2006 L 1 65 1
45 2006 L 1 66 1
45 2006 L 1 67 1
45 2006 L 1 68 1
45 2006 L 1 69 1
45 2006 L 1 70 1
45 2006 L 1 71 1
45 2006 L 1 72 1
45 2006 L 1 73 1
45 2006 L 1 74 1
45 2006 L 1 75 1
45 2006 L 1 76 1
45 2006 L 1 77 1
45 2006 L 1 78 1
45 2006 L 1 79 1

SS2 ALTERNATIVE RUN (F08 SVAge comp.REP)

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

Time: Mon Mar 24 10:22:43 2008

Data_File: F08_MULTI_SVAGE.DAT
Control_File: F08_MULTI_SVAGE.CTL

Convergence_Level:
Hessian:
Sum_of_months_on_read_was:_ 12 rescaled_to_sum_to: 1

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

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

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

Recruitment 0 0
 Parm_priors 0 0
 Parm_devs 1 0
 penalties 0

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

PARAMETERS

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

MGParm_Block_Assignments

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

```

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

```

```

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

```

```

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

```



```

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

```

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

Selex_Block_Assignments Years:

Base_parm#	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006		
1	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0

RECR_DIST

G_pattern gender Seas Area Value Used?
 1 1 1 1 1

MOVEMENT

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

SUBMORPHDIST 1

MGparm_By_Year_after_adjustments

Year	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
1982	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1983	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1984	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1985	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1986	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1987	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1988	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1989	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1990	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1991	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1992	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1993	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1994	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1995	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1996	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1997	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1
1998	0.2	0	28.1	60.2	0.2052	0.1	0	2.44e-006	3.34694	28.1	-0.25	1	0	0	0	4	1

```

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

```

SELParm(Size)_By_Year_after_adjustments
Fleet/Svy Year

SELParm(Age)_By_Year_after_adjustments
Fleet/Svy Year

```

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

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EXPLOITATION Hrate_is_Continuous_F Fleet_in_columns;_year_in_rows

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

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

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

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

1 2006 TIME 1 49313.5 49136.8 48312.5 25925.7 4479.09 4479.09 4479.09 4481
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74 74 74 0.00185252 4989.39 4989.39 4989.39 4992 0.139819 795.14 795.14
795.14 795 0.0255747 48379.7
1 2007 FORE 1 53899 53614.6 52970.8 41729.8 2447.68 2447.68 2447.68 2447.68
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109.781 0.00210571 37.6537 37.6537 37.6537 37.6537 0.000828969 2773.31
2773.31 2773.31 2773.31 0.0625663 374.512 374.512 374.512 374.512 0.0114442
52970.8

SPR_series uses_R0= 45538.3 ###note_Y/R_unit_is_Dead_Biomass
Year Bio_all Bio_Smry SPBzero SPBfished SPBfished/R SPR Y/R GenTime Actual:
Bio_all Bio_Smry Enc_Catch Dead_Catch Retain_Catch SPB Recruits Tot_Exploit
More_F(by_morph): aveF-1 maxF-1
1982 22428.8 22118.5 362975 21108.5 0.463533 0.0581542 0.417203 0.130061 +
22225.9 21924 18900.6 18900.6 18900.6 20939.8 44297.1 0.850384 + 1.77013
1.88487
1983 28903.3 28592.9 362975 27503.9 0.603974 0.0757737 0.457077 0.195501 +
21981.5 21552.7 15069.5 15069.5 15069.5 20457.2 62916.4 0.685554 + 1.36853
1.47254
1984 22037.6 21727.3 362975 20714.8 0.454888 0.0570696 0.416716 0.0998648 +
30300 30053.6 25920 25920 25920 28486.6 36151.1 0.855446 + 2.01001 2.15218
1985 24377.7 24067.4 362975 23026.6 0.505654 0.0634386 0.430905 0.140805 +
24233.9 23908.6 20248.4 20248.4 20248.4 22902.2 47725.9 0.835542 + 1.6846
1.79026
1986 20866 20555.6 362975 19565.6 0.429653 0.0539036 0.407294 0.111259 +
23502.6 23146.1 20980.1 20980.1 20980.1 21983.1 52311.7 0.89267 + 1.92717
2.06148
1987 23909.1 23598.7 362975 22567.1 0.495562 0.0621725 0.426955 0.152803 +
23165 22900.3 18324.4 18324.4 18324.4 21641.1 38847.8 0.791036 + 1.61809
1.73312
1988 20463 20152.6 362975 19164 0.420833 0.0527971 0.405597 0.0941261 +
22870.9 22798.5 21306.9 21306.9 21306.9 21764.2 10621.7 0.931618 + 2.08152
2.2176
1989 25369.9 25059.6 362975 24029.6 0.527679 0.0662018 0.432925 0.185625 +
11840.9 11680.2 9979.7 9979.7 9979.7 11322.3 23587 0.842814 + 1.48775
1.58284
1990 26672 26361.7 362975 25345.8 0.556582 0.0698279 0.434153 0.251431 +
10872.7 10680.2 7811.03 7811.03 7811.03 10143 28244.9 0.718409 + 1.24128
1.33745
1991 23613.7 23303.4 362975 22305.3 0.489815 0.0614514 0.419944 0.188231 +
13738.1 13558.9 11007.2 11007.2 11007.2 12874.7 26297 0.801216 + 1.49757
1.61851
1992 22521.6 22211.3 362975 21214 0.46585 0.0584449 0.415346 0.162926 +
13982.4 13761.4 11877.8 11877.8 11877.8 13109.2 32432.6 0.849486 + 1.61466
1.72911
1993 23834.8 23524.5 362975 22522.5 0.494585 0.0620499 0.42095 0.204881 +
14630.2 14437.7 11526.9 11526.9 11526.9 13667.8 28239.9 0.787889 + 1.40772
1.55091
1994 24677.3 24367 362975 23346.1 0.51267 0.0643189 0.427584 0.205787 +
15312.6 15117.6 12129.1 12129.1 12129.1 14405.9 28620.9 0.792101 + 1.37827
1.54472
1995 31626.6 31316.3 362975 30147.6 0.662028 0.083057 0.490402 0.0743422 +
15441.5 15206.7 10045.4 10045.4 10045.4 14493.8 34451 0.650544 + 2.21942
2.46005

1996 34584.9 34274.6 362975 33093.3 0.726714 0.0911724 0.503715 0.117219 +
 19639.1 19467.8 11493.4 11493.4 11493.4 18540.4 25144.7 0.585229 + 1.8112
 2.0062
 1997 46766 46455.6 362975 45246.2 0.993587 0.124654 0.54302 0.29534 + 22083
 21908.1 10753.4 10753.4 10753.4 21128 25677 0.486952 + 0.956848 1.0644
 1998 50408.2 50097.9 362975 48885.5 1.0735 0.13468 0.551037 0.333938 +
 25298.3 25111.7 12281.6 12281.6 12281.6 24367.8 27386.1 0.485469 + 0.842946
 0.942859
 1999 60268.8 59958.5 362975 58745.1 1.29002 0.161844 0.562568 0.44757 +
 27486.3 27341.5 11038.7 11038.7 11038.7 26554.1 21247.3 0.401608 + 0.609689
 0.689104
 2000 53494.3 53184 362975 51974.1 1.14133 0.143189 0.554058 0.378438 +
 29967.2 29783.2 14580.6 14580.6 14580.6 29116.4 26996.8 0.486551 + 0.740663
 0.838785
 2001 60881.4 60571.1 362975 59358.3 1.30348 0.163533 0.561983 0.441292 +
 29599 29400.3 12140.5 12140.5 12140.5 28655.3 29162.3 0.410166 + 0.589219
 0.685709
 2002 68985.9 68675.5 362975 67449 1.48115 0.185823 0.576394 0.470889 +
 32516.2 32288 11558.2 11558.2 11558.2 31451.9 33483.4 0.35546 + 0.524308
 0.59229
 2003 70740.3 70429.9 362975 69203.6 1.51968 0.190657 0.576516 0.484175 +
 37943.5 37774.7 13278.3 13278.3 13278.3 36819.8 24764.3 0.349948 + 0.50158
 0.568058
 2004 74294.2 73983.9 362975 72755.2 1.59767 0.200441 0.579058 0.496789 +
 41067.1 40792.2 14475.7 14475.7 14475.7 39994.5 40333.2 0.35249 + 0.46989
 0.534935
 2005 82644.8 82334.4 362975 81102.3 1.78097 0.223438 0.580915 0.533177 +
 45927.9 45768.7 13896.2 13896.2 13896.2 44695.8 23368.8 0.302565 + 0.403989
 0.461642
 2006 102651 102340 362975 101102 2.22015 0.278537 0.577099 0.594881 +
 49313.5 49136.8 12332.1 12332.1 12332.1 48312.5 25925.7 0.250075 + 0.30218
 0.34517
 2007 173958 173647 362975 172397 3.78577 0.474957 0.487189 0.709693 + 53899
 53614.6 6806.11 6806.11 6806.11 52970.8 41729.8 0.126275 + 0.13522 0.154458

SPAWN_RECRUIT Function: 3 - - - - -
 10.7263 Ln(R0) 45538.3
 0.941285 steep
 0.6 stddev_recr
 0 env_link_
 -0.0527826 init-eq 43197
 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 362975 45538.3
 Virg 362975 45538.3 45538.3 38036.8 45538.3
 Init 20939.8 43197 43197 36081.2 43197
 1982 20939.8 36293.5 36293.5 30314.9 44297.1 0.379281
 1983 20457.2 36110 36110 30161.6 62916.4 0.735238
 1984 28486.6 38490.3 38490.3 32149.8 36151.1 0.1173
 1985 22902.2 36976.1 36976.1 30885 47725.9 0.435202
 1986 21983.1 36668.4 36668.4 30628 52311.7 0.535303
 1987 21641.1 36548.7 36548.7 30528 38847.8 0.241006
 1988 21764.2 36592.1 36592.1 30564.3 10621.7 -1.05693
 1989 11322.3 30679.2 30679.2 25625.4 23587 -0.0828879
 1990 10143 29523.1 29523.1 24659.7 28244.9 0.13574
 1991 12874.7 31977.9 31977.9 26710.2 26297 -0.0155899
 1992 13109.2 32155.4 32155.4 26858.5 32432.6 0.188584

1993 13667.8 32561.2 32561.2 27197.4 28239.9 0.0376144
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 1995 14493.8 33120.1 33120.1 27664.2 34451 0.219397
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 2003 36819.8 40011.2 40011.2 33420.2 24764.3 -0.299759
 2004 39994.5 40444.9 40444.9 33782.4 40333.2 0.177235
 2005 44695.8 40986.8 40986.8 34235 23368.8 -0.381848
 2006 48312.5 41339.5 41339.5 34529.7 25925.7 -0.286584
 2007 52970.8 41729.8 41729.8 41729.8 41729.8 0 forecast

N_est r.m.s.e.
 25 0.351305

INDEX_2

index year vuln_bio obs exp eff_Q SE Dev Like Like+log(s)
 7 1992 17134.2 12.3 9.26881 0.000540955 0.16 0.282945 1.56363 -0.268956
 7 1993 17432.6 13.6 9.43026 0.000540955 0.16 0.366146 2.61841 0.785833
 7 1994 18626.7 12.05 10.0762 0.000540955 0.16 0.17889 0.625031 -1.20755
 7 1995 18724.4 10.93 10.1291 0.000540955 0.16 0.0761018 0.113115 -1.71947
 7 1996 23779.2 31.25 12.8635 0.000540955 0.16 0.887626 15.3883 13.5557
 7 1997 27129 10.28 14.6756 0.000540955 0.16 -0.355986 2.47511 0.642533
 7 1998 29056.5 7.76 15.7182 0.000540955 0.16 -0.70584 9.73067 7.89808
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16 1998 56964.5 9.47 7.30502 0.000128238 0.4 0.259567 0.210546 -0.705745
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16 2000 57713 7.35 7.40101 0.000128238 0.4 -0.00691646 0.000149492 -0.916141
16 2001 59735 5.68 7.66031 0.000128238 0.4 -0.299101 0.279567 -0.636724
16 2002 66476.1 16.84 8.52478 0.000128238 0.4 0.68078 1.44832 0.532028
16 2003 70801.1 9.84 9.07941 0.000128238 0.4 0.0804464 0.0202238 -0.896067
16 2004 75874.3 10.66 9.73 0.000128238 0.4 0.0912849 0.0260404 -0.89025
16 2005 79050.7 11.19 10.1373 0.000128238 0.4 0.0987965 0.0305023 -0.885788
16 2006 75889.8 10.65 9.73198 0.000128238 0.4 0.0901426 0.0253928 -0.890898
17 1982 44297.1 2.27 1.40076 3.1622e-005 0.4 0.482763 0.728314 -0.187977
17 1983 62916.4 5.01 1.98954 3.1622e-005 0.4 0.923532 2.66535 1.74906
17 1984 36151.1 1.58 1.14317 3.1622e-005 0.4 0.323621 0.327283 -0.589008
17 1985 47725.9 1.26 1.50919 3.1622e-005 0.4 -0.180458 0.101766 -0.814525
17 1986 52311.7 1.26 1.6542 3.1622e-005 0.4 -0.272204 0.231547 -0.684744
17 1987 38847.8 0.39 1.22844 3.1622e-005 0.4 -1.14736 4.11384 3.19755
17 1988 10621.7 0.54 0.335879 3.1622e-005 0.4 0.474818 0.704536 -0.211754
17 1989 23587 1.24 0.745869 3.1622e-005 0.4 0.508317 0.807457 -0.108834
17 1990 28244.9 2.54 0.893158 3.1622e-005 0.4 1.04516 3.4136 2.49731
17 1991 26297 2.64 0.831562 3.1622e-005 0.4 1.15523 4.17048 3.25418
17 1992 32432.6 0.89 1.02558 3.1622e-005 0.4 -0.141795 0.0628311 -0.85346
17 1993 28239.9 0.5 0.893 3.1622e-005 0.4 -0.579979 1.05117 0.134882
17 1994 28620.9 2.41 0.905048 3.1622e-005 0.4 0.979394 2.99754 2.08125
17 1995 34451 0.63 1.08941 3.1622e-005 0.4 -0.54767 0.937321 0.0210301
17 1996 25144.7 0.81 0.795126 3.1622e-005 0.4 0.0185334 0.0010734 -0.915217
17 1997 25677 0.89 0.811956 3.1622e-005 0.4 0.0917754 0.026321 -0.88997
17 1998 27386.1 0.73 0.866003 3.1622e-005 0.4 -0.170844 0.0912115 -0.825079
17 1999 21247.3 0.53 0.671883 3.1622e-005 0.4 -0.237207 0.175835 -0.740456
17 2000 26996.8 0.57 0.853693 3.1622e-005 0.4 -0.403935 0.509886 -0.406405
17 2001 29162.3 0.47 0.92217 3.1622e-005 0.4 -0.673997 1.4196 0.503308
17 2002 33483.4 0.77 1.05881 3.1622e-005 0.4 -0.318511 0.317028 -0.599262
17 2003 24764.3 0.44 0.783094 3.1622e-005 0.4 -0.576478 1.03852 0.122232
17 2004 40333.2 1.3 1.27541 3.1622e-005 0.4 0.0190928 0.00113917 -0.915152
17 2005 23368.8 0.35 0.738967 3.1622e-005 0.4 -0.747321 1.74528 0.828985
17 2006 25925.7 0.8 0.819822 3.1622e-005 0.4 -0.024475 0.00187196 -0.914419
18 1982 44297.1 3.408 11.863 0.000267804 0.4 -1.24729 4.8617 3.94541
18 1983 62916.4 17.699 16.8493 0.000267804 0.4 0.0492002 0.00756457 -0.908726
18 1984 36151.1 13.31 9.68141 0.000267804 0.4 0.318308 0.316625 -0.599666
18 1985 47725.9 12.843 12.7812 0.000267804 0.4 0.00482508 7.27545e-005 -
0.916218
18 1986 52311.7 59.526 14.0093 0.000267804 0.4 1.44669 6.54038 5.62409
18 1987 38847.8 7.584 10.4036 0.000267804 0.4 -0.316111 0.31227 -0.604021
18 1988 10621.7 1.763 2.84454 0.000267804 0.4 -0.478383 0.715158 -0.201132
18 1989 23587 2.855 6.31671 0.000267804 0.4 -0.794126 1.97074 1.05445
18 1990 28244.9 4.733 7.56409 0.000267804 0.4 -0.468853 0.686946 -0.229345

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

INDEX_1

Index	Do_Power	Power	Do_Env_var	Env_Link	Do_ExtraVar	Qtype	Q	Num=0/Bio=1	Err_type	N	Npos	r.m.s.e.	mean_input_SE	mean_(Input+extra)_SE	pen_mean_Qdev	rmse_Qdev
1	0	1.0	0	0.00	0.0	0	--	1	0	0	0	0	0	0	0	0
2	0	1.0	0	0.00	0.0	0	--	1	0	0	0	0	0	0	0	0
3	0	1.0	0	0.00	0.0	0	--	1	0	0	0	0	0	0	0	0
4	0	1.0	0	0.00	0.0	0	--	1	0	0	0	0	0	0	0	0
5	0	1.0	0	0.00	0.0	0	--	1	0	0	0	0	0	0	0	0
6	0	1.0	0	0.00	0.0	0	--	1	0	0	0	0	0	0	0	0
7	0	1.0	0	0.00	0.0	0	0.000540955	0	0	15	15	0.420682	0.16	0.16	0	0
8	0	1.0	0	0.00	0.0	0	5.29245e-005	0	0	25	25	0.406955	0.21	0.21	0	0
9	0	1.0	0	0.00	0.0	0	3.57563e-005	0	0	25	25	0.454752	0.31	0.31	0	0
10	0	1.0	0	0.00	0.0	0	5.08453e-005	0	0	25	25	0.779939	0.21	0.21	0	0
11	0	1.0	0	0.00	0.0	0	3.51898e-005	0	0	25	25	0.956204	0.21	0.21	0	0
12	0	1.0	0	0.00	0.0	0	2.2917e-005	0	0	23	23	0.728863	0.4	0.4	0	0
13	0	1.0	0	0.00	0.0	0	3.57884e-005	0	0	23	23	0.622706	0.4	0.4	0	0
14	0	1.0	0	0.00	0.0	0	2.45492e-005	0	0	25	25	0.873332	0.4	0.4	0	0
15	0	1.0	0	0.00	0.0	0	2.12204e-005	0	0	17	17	0.846791	0.4	0.4	0	0

```

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

```

rmse_Qdev_not_in_logL

pen_mean_Qdev_not_in_logL_in_randwalk_approach

INDEX_3

Index Q_parm_assignments

```

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

```

DISCARD log(L)_based_on_T-distribution_with_DF=_30
as_fraction

index year seas obs exp cv Dev Like Like+log(s)

MEAN_BODY_WT log(L)_based_on_T-distribution_with_DF=_30

year seas index Mkt obs exp cv Dev Like Like+log(s)

```

1982 1 1 0 0.504 0.612363 0.1 -0.108363 2.22137 2.22137
1983 1 1 0 0.521 0.610247 0.1 -0.0892473 1.44645 1.44645
1984 1 1 0 0.518 0.599941 0.1 -0.0819413 1.24178 1.24178
1985 1 1 0 0.575 0.655972 0.1 -0.0809724 0.992146 0.992146
1986 1 1 0 0.613 0.602498 0.1 0.010502 0.0151573 0.0151573
1987 1 1 0 0.581 0.592906 0.1 -0.0119064 0.0216828 0.0216828
1988 1 1 0 0.588 0.64301 0.1 -0.05501 0.445738 0.445738
1989 1 1 0 0.668 0.735088 0.1 -0.0670882 0.512566 0.512566
1990 1 1 0 0.54 0.63509 0.1 -0.0950898 1.5246 1.5246
1991 1 1 0 0.537 0.624971 0.1 -0.0879709 1.32801 1.32801
1992 1 1 0 0.595 0.629074 0.1 -0.0340744 0.168527 0.168527
1993 1 1 0 0.571 0.609911 0.1 -0.0389107 0.238088 0.238088
1994 1 1 0 0.605 0.643092 0.1 -0.038092 0.203476 0.203476
1995 1 1 0 0.675 0.758197 0.1 -0.0831971 0.765681 0.765681
1996 1 1 0 0.621 0.755434 0.1 -0.134434 2.24981 2.24981
1997 1 1 0 0.697 0.840488 0.1 -0.143488 2.04817 2.04817
1998 1 1 0 0.759 0.945693 0.1 -0.186693 2.84759 2.84759
1999 1 1 0 0.755 0.996752 0.1 -0.241752 4.55675 4.55675
2000 1 1 0 0.85 1.04868 0.1 -0.198685 2.59336 2.59336
2001 1 1 0 0.903 1.09022 0.1 -0.187221 2.07559 2.07559
2002 1 1 0 0.898 1.08023 0.1 -0.182231 1.99375 1.99375

```

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

FIT_LEN_COMPS

Index Year Seas Gender Mkt Nsamp effN Like

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

FIT_AGE_COMPS

Index Year Seas Gender Mkt Ageerr Lbin_lo Lbin_hi Nsamp effN Like

1	1982	1	0	0	1	1	70	200	81.2288	10.9277
1	1983	1	0	0	1	1	70	200	18.1541	12.7422
1	1984	1	0	0	1	1	70	200	54.4502	9.94839
1	1985	1	0	0	1	1	70	200	73.3926	5.38873
1	1986	1	0	0	1	1	70	200	17.2752	15.2438
1	1987	1	0	0	1	1	70	200	32.8046	7.88321
1	1988	1	0	0	1	1	70	200	1405	1.92141
1	1989	1	0	0	1	1	70	200	167.564	5.4684
1	1990	1	0	0	1	1	70	200	576.416	0.872547
1	1991	1	0	0	1	1	70	200	52.384	2.0233
1	1992	1	0	0	1	1	70	200	53.1101	9.20428
1	1993	1	0	0	1	1	70	200	144.595	6.31613
1	1994	1	0	0	1	1	70	200	119.826	4.70352
1	1995	1	0	0	1	1	70	200	51.9234	10.1064
1	1996	1	0	0	1	1	70	200	48.1564	8.60539
1	1997	1	0	0	1	1	70	200	13.4072	29.1135
1	1998	1	0	0	1	1	70	200	16.7415	21.6081
1	1999	1	0	0	1	1	70	200	24.2913	19.1481
1	2000	1	0	0	1	1	70	200	438.556	4.00258
1	2001	1	0	0	1	1	70	200	62.9992	7.98905
1	2002	1	0	0	1	1	70	200	79.9802	5.41049
1	2003	1	0	0	1	1	70	200	1422.43	0.431303
1	2004	1	0	0	1	1	70	200	1592.84	0.86772
1	2005	1	0	0	1	1	70	200	32.9787	22.7301
1	2006	1	0	0	1	1	70	200	301.77	2.63987

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

5	1983	1	0	0	1	1	70	200	204.326	9.5561
5	1984	1	0	0	1	1	70	200	19.7119	12.3787
5	1985	1	0	0	1	1	70	200	538.178	2.19176
5	1986	1	0	0	1	1	70	200	81.3641	4.55726
5	1987	1	0	0	1	1	70	200	112.563	6.15826
5	1988	1	0	0	1	1	70	200	797.105	1.69369
5	1989	1	0	0	1	1	70	200	116.98	4.90465
5	1990	1	0	0	1	1	70	200	34.6077	8.71447
5	1991	1	0	0	1	1	70	200	45.2194	12.6433
5	1992	1	0	0	1	1	70	200	37.4275	16.0632
5	1993	1	0	0	1	1	70	200	31.4512	15.287
5	1994	1	0	0	1	1	70	200	65.4731	4.97609
5	1995	1	0	0	1	1	70	200	23.4387	17.5967
5	1996	1	0	0	1	1	70	200	21.1776	9.18798
5	1997	1	0	0	1	1	70	200	79.3723	10.8362
5	1998	1	0	0	1	1	70	200	105.893	4.11222
5	1999	1	0	0	1	1	70	200	45.7771	10.6191
5	2000	1	0	0	1	1	70	200	73.3322	4.60441
5	2001	1	0	0	1	1	70	200	356.533	3.10758
5	2002	1	0	0	1	1	70	200	41.7404	11.8396
5	2003	1	0	0	1	1	70	200	51.4947	9.51896
5	2004	1	0	0	1	1	70	200	63.3645	4.95205
5	2005	1	0	0	1	1	70	200	107.476	7.28217
5	2006	1	0	0	1	1	70	200	51.3523	8.112
6	1982	1	0	0	1	1	70	200	12.4067	6.76494
6	1983	1	0	0	1	1	70	200	759.853	0.128153
6	1984	1	0	0	1	1	70	200	7.5733	9.96616
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6	1987	1	0	0	1	1	70	200	447.703	0.23329
6	1988	1	0	0	1	1	70	200	19.9705	3.78513
6	1989	1	0	0	1	1	70	200	9194.22	0.0105341
6	1990	1	0	0	1	1	70	200	186.315	0.566594
6	1991	1	0	0	1	1	70	200	13.1603	10.76
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7	2003	1	0	0	1	1	70	100	1304.54	0.52771
7	2004	1	0	0	1	1	70	100	41.4193	5.27762
7	2005	1	0	0	1	1	70	100	265.329	2.22615
7	2006	1	0	0	1	1	70	100	591.112	1.40826
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9	1985	1	0	0	1	1	70	100	104.298	1.45802
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9	1987	1	0	0	1	1	70	100	28.4879	6.88516
9	1988	1	0	0	1	1	70	100	17.2359	4.41347
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9	1991	1	0	0	1	1	70	100	8.76446	18.732
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9	1993	1	0	0	1	1	70	100	9.75097	14.9005
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9	2001	1	0	0	1	1	70	100	18.7651	12.152
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9	2003	1	0	0	1	1	70	100	34.1479	6.59077
9	2004	1	0	0	1	1	70	100	29.8708	7.30773
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9	2006	1	0	0	1	1	70	100	46.2158	4.38971

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10	2003	1	0	0	1	1	70	100	7.2401	7.12041
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11	1985	1	0	0	1	1	70	100	11.4335	6.3576
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11	1987	1	0	0	1	1	70	100	12.3526	6.04738
11	1988	1	0	0	1	1	70	100	9.13526	8.44736
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11	1993	1	0	0	1	1	70	100	16.696	3.72828
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11	1995	1	0	0	1	1	70	100	2.33909	53.4097
11	1996	1	0	0	1	1	70	100	103.459	0.528176
11	1997	1	0	0	1	1	70	100	593.25	0.082214
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12	1987	1	0	0	1	1	70	100	180.86	0.353807
12	1988	1	0	0	1	1	70	100	576.741	0.653005
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12	1990	1	0	0	1	1	70	100	44.1905	5.10948

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12	1998	1	0	0	1	1	70	100	78.3576	1.71525
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12	2002	1	0	0	1	1	70	100	23.6434	4.08445
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13	1985	1	0	0	1	1	70	100	17.8443	9.46712
13	1986	1	0	0	1	1	70	100	27.6556	3.65434
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13	2006	1	0	0	1	1	70	100	92.0958	3.28434
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14	1987	1	0	0	1	1	70	100	37.7006	1.58658
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16	2002	1	0	0	1	1	70	100	14.3093	10.6092
16	2003	1	0	0	1	1	70	100	15.9751	10.9178
16	2004	1	0	0	1	1	70	100	5.43365	27.569
16	2005	1	0	0	1	1	70	100	13.1425	18.5097
16	2006	1	0	0	1	1	70	100	8.02483	22.3305

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

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

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

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

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

AGE_SELEX_from_size_selex_in_endyear

fleet	year	morph	season	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	2006	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

13 2006 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 14 2006 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 15 2006 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 16 2006 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 17 2006 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 18 2006 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 19 2006 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

AGE_SELEX_mortality_in_endyear

fleet	year	morph	season	label	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	2006	1	1	sel*wt	0.000307115	0.0376789	0.549828	1.22382	1.66059	2.08799	2.48742	2.84605	3.15612	3.41532	3.62629	3.79461	3.92695	4.02974	4.10865	4.16834	
1	2006	1	1	sel*ret*wt	0.000307115	0.0376789	0.549828	1.22382	1.66059	2.08799	2.48742	2.84605	3.15612	3.41532	3.62629	3.79461	3.92695	4.02974	4.10865	4.16834	
1	2006	1	1	sel_nums	0.00171496	0.0845306	0.680925	0.99941	0.999992	0.999917	0.999592	0.999021	0.998203	0.99714	0.995832	0.994281	0.992487	0.990451	0.988176	0.985663	
1	2006	1	1	sel*ret_nums	0.00171496	0.0845306	0.680925	0.99941	0.999992	0.999917	0.999592	0.999021	0.998203	0.99714	0.995832	0.994281	0.992487	0.990451	0.988176	0.985663	
1	2006	1	1	dead_nums	0.00171496	0.0845306	0.680925	0.99941	0.999992	0.999917	0.999592	0.999021	0.998203	0.99714	0.995832	0.994281	0.992487	0.990451	0.988176	0.985663	
1	2006	1	1	dead*wt	0.000307115	0.0376789	0.549828	1.22382	1.66059	2.08799	2.48742	2.84605	3.15612	3.41532	3.62629	3.79461	3.92695	4.02974	4.10865	4.16834	
2	2006	1	1	sel*wt	0.000131324	0.0123618	0.240667	1.1148	1.66043	2.08815	2.48805	2.84727	3.15801	3.41796	3.62972	3.79885	3.93202	4.03565	4.11538	4.17589	
2	2006	1	1	sel*ret*wt	0.000131324	0.0123618	0.240667	1.1148	1.66043	2.08815	2.48805	2.84727	3.15801	3.41796	3.62972	3.79885	3.93202	4.03565	4.11538	4.17589	
2	2006	1	1	sel_nums	0.000733328	0.0277331	0.29805	0.910385	0.999895	0.999995	0.999846	0.999447	0.998802	0.997911	0.996774	0.995393	0.993769	0.991903	0.989795	0.987449	
2	2006	1	1	sel*ret_nums	0.000733328	0.0277331	0.29805	0.910385	0.999895	0.999995	0.999846	0.999447	0.998802	0.997911	0.996774	0.995393	0.993769	0.991903	0.989795	0.987449	
2	2006	1	1	dead_nums	0.000733328	0.0277331	0.29805	0.910385	0.999895	0.999995	0.999846	0.999447	0.998802	0.997911	0.996774	0.995393	0.993769	0.991903	0.989795	0.987449	
2	2006	1	1	dead*wt	0.000131324	0.0123618	0.240667	1.1148	1.66043	2.08815	2.48805	2.84727	3.15801	3.41796	3.62972	3.79885	3.93202	4.03565	4.11538	4.17589	
3	2006	1	1	sel*wt	0.00951124	0.220262	0.80717	1.22451	1.6606	2.08816	2.48842	2.84884	3.16179	3.42511	3.64145	3.81642	3.95664	4.06842	4.15009	0.00122562	
3	2006	1	1	sel*ret*wt	0.00951124	0.220262	0.80717	1.22451	1.6606	2.08816	2.48842	2.84884	3.16179	3.42511	3.64145	3.81642	3.95664	4.06842	4.15009	0.00122562	
3	2006	1	1	sel_nums	0.0531117	0.494146	0.999627	0.999976	0.999996	0.999997	0.999998	0.999998	0.999997	0.999997	0.999997	0.999995	0.999991	0.999958	0.998144	0.000289815	
3	2006	1	1	sel*ret_nums	0.0531117	0.494146	0.999627	0.999976	0.999996	0.999997	0.999997	0.999998	0.999998	0.999997	0.999997	0.999997	0.999995	0.999991	0.999958	0.998144	0.000289815

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ENVIRONMENTAL_DATA Begins_in_startyr-1

NUMBERS_AT_AGE

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

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

CATCH_AT_AGE

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

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

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

2001 1 1.79114 48.6667 257.22 444.795 177.129 63.5242 24.3317 3.34404
 0.194208 0.0153777 0.00200361 0.000357525 6.31586e-005 6.18689e-006 3.30692e-
 006 5.7498e-007
 2002 1 2.74331 71.0364 454.7 514.058 281.197 104.503 37.6982 14.4417 1.98506
 0.115314 0.00913456 0.00119083 0.000212642 3.75961e-005 3.68652e-006
 2.33021e-006
 2003 1 1.47201 59.3316 368.657 522.017 188.787 95.0133 35.419 12.7777
 4.89543 0.673043 0.0391121 0.00309977 0.000404357 7.22592e-005 1.27873e-005
 2.06882e-006
 2004 1 2.73315 50.1427 489.055 678.049 310.027 103.282 52.1236 19.4311
 7.01046 2.68643 0.369464 0.0214803 0.00170339 0.000222362 3.97699e-005
 8.21444e-006
 2005 1 1.14875 59.4744 268.752 599.04 269.648 113.652 37.9755 19.1654
 7.14501 2.57824 0.988269 0.135971 0.00790927 0.000627601 8.19887e-005
 1.77565e-005
 2006 1 1.04859 28.5528 376.134 402.28 295.956 122.711 51.8571 17.3269
 8.74446 3.26027 1.17667 0.451153 0.0620947 0.00361366 0.000286904 4.57675e-
 005
 fleet 3 fleetarea 1 gmorph 1
 Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 1981 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1982 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1983 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1984 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1985 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1986 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1987 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1988 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1989 1 534.429 418.238 405.194 67.9568 7.32222 0.721529 0.170383 0.0166095
 0.00210912 0.000282583 3.45102e-005 5.3211e-006 8.1212e-007 1.24028e-007
 1.8983e-008 9.57508e-013
 1990 1 980.966 1437.69 233.045 131.076 19.4601 2.1036 0.207482 0.0490299
 0.00478461 0.000608411 8.16582e-005 9.9933e-006 1.54461e-006 2.36392e-007
 3.61471e-008 1.87345e-012
 1991 1 691.775 1231.85 359.272 37.7958 19.4741 2.93784 0.318618 0.0314491
 0.00743901 0.000726885 9.25799e-005 1.24496e-005 1.52699e-006 2.36614e-007
 3.62469e-008 1.86907e-012
 1992 1 566.903 744.224 240.248 41.864 3.94299 2.07986 0.315329 0.0342294
 0.00338259 0.000801368 7.84551e-005 1.00155e-005 1.35043e-006 1.66136e-007
 2.57822e-008 1.31379e-012
 1993 1 552.063 1055.11 255.403 45.5145 7.43405 0.716188 0.379374 0.0575696
 0.00625687 0.000619304 0.000147012 1.44269e-005 1.84681e-006 2.4979e-007
 3.07799e-008 1.58672e-012
 1994 1 282.475 467.41 167.818 24.4709 4.09227 0.70554 0.0686248 0.0363858
 0.0055275 0.000601608 5.96529e-005 1.41906e-005 1.39601e-006 1.79202e-007
 2.42673e-008 9.83843e-013
 1995 1 24.5991 133.021 70.8237 11.3549 1.48783 0.262435 0.0461671 0.00449815
 0.00238772 0.000363286 3.96163e-005 3.93734e-006 9.39185e-007 9.26786e-008
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 1996 1 33.4799 317.031 221.482 21.7294 1.73299 0.224309 0.039933 0.00703249
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 1997 1 17.2407 120.735 176.74 30.1058 1.72483 0.136063 0.0177075 0.00315466
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0.00735915 0.00131273 0.000231803 2.26953e-005 1.21233e-005 1.85878e-006
2.042e-007 7.75606e-012
2000 1 32.5723 184.395 293.95 125.206 44.0849 16.8115 2.31054 0.134214
0.0106303 0.00138553 0.000247339 4.37151e-005 4.28464e-006 2.29152e-006
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2001 1 13.5566 90.6185 90.153 51.0566 18.5124 6.63846 2.54311 0.349654
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0.182372 0.0106037 0.00084092 0.000109779 1.96347e-005 3.47793e-006 3.41137e-
007 6.27578e-011
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Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
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fleet 5 fleetarea 1 gmorph 1
Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
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1985 1 759.199 4251.64 3720.47 414.056 52.0354 6.93097 0.840277 0.128347
0.0193642 0.00291736 0.000440398 6.66468e-005 1.01151e-005 1.54026e-006
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1986 1 1369.92 8664.26 3434.72 909.93 86.4685 10.899 1.45295 0.176272
0.0269553 0.00407333 0.000614932 9.30606e-005 1.41246e-005 2.15098e-006
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1987 1 641.962 6270.4 2642.92 289.131 66.958 6.49403 0.822107 0.109688
0.0133238 0.00204096 0.000309097 4.67878e-005 7.10297e-006 1.08199e-006
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1988 1 236.731 5942.11 3909.95 498.692 48.5649 11.4293 1.11239 0.140932
0.0188251 0.00229033 0.000351549 5.33727e-005 8.10255e-006 1.23419e-006
1.88716e-007 3.4271e-008
1989 1 182.858 620.718 1060.4 178.034 19.1819 1.88964 0.445982 0.0434418
0.00551067 0.000737388 8.99159e-005 1.38395e-005 2.10798e-006 3.21215e-007
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1990 1 377.95 2402.67 686.756 386.677 57.4053 6.2036 0.611546 0.144401
0.0140769 0.00178774 0.000239577 2.92676e-005 4.51463e-006 6.89394e-007
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1991 1 453.308 3501.33 1800.67 189.635 97.7038 14.7353 1.59723 0.15753
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1992 1 526.412 2997.56 1706.31 297.649 28.0329 14.7826 2.24 0.242965
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1993 1 521.884 4326.45 1846.68 329.443 53.8067 5.18218 2.7436 0.416012
0.0451671 0.00446493 0.00105828 0.00010367 1.32443e-005 1.78737e-006 2.2013e-
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1997 1 56.7504 998.607 4465.08 1254.51 71.9446 5.67516 0.73837 0.131475
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1998 1 48.184 818.114 2894.95 2201.52 298.158 17.2434 1.36425 0.177534
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1999 1 20.493 480.03 1739.4 1144.58 431.465 59.0445 3.42737 0.271204
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006 7.93335e-007
2001 1 34.4835 579.2 1760.04 1644.08 596.709 213.97 81.9467 11.2611 0.653915
0.0517718 0.00674468 0.00120338 0.000212557 2.08191e-005 1.11265e-005
1.93435e-006
2002 1 24.215 387.619 1426.5 871.172 434.321 161.388 58.2114 22.2974 3.06446
0.177997 0.0140982 0.0018377 0.00032811 5.80042e-005 5.68696e-006 3.59424e-
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2003 1 21.8931 545.504 1948.75 1490.61 491.313 247.237 92.1534 33.2409
12.7339 1.75049 0.101712 0.00806008 0.00105129 0.000187844 3.32376e-005
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2004 1 27.7723 314.972 1766.22 1322.79 551.237 183.613 92.6535 34.536
12.4585 4.77358 0.656429 0.0381595 0.00302569 0.000394927 7.0625e-005
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2005 1 14.1551 453.035 1177 1417.18 581.398 245.016 81.8594 41.3077 15.3979
5.55558 2.12926 0.292917 0.0170366 0.00135169 0.000176561 3.82336e-005
2006 1 13.7498 231.45 1752.97 1012.76 679.065 281.521 118.955 39.7412
20.0539 7.47597 2.69782 1.03426 0.142334 0.00828225 0.000657485 0.00010487
fleet 6 fleetarea 1 gmorph 1
Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1981 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1982 1 63.1746 333.136 142.163 16.9699 0.433075 0.00151139 3.75664e-006
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1983 1 101.496 421.18 175.332 22.9266 0.464451 0.00164255 4.09477e-006
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1984 1 54.5825 517.512 177.711 24.5144 0.547822 0.00153881 3.88784e-006
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1985 1 18.9381 79.574 57.2551 5.4821 0.116604 0.000360733 7.23957e-007
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1986 1 145.169 688.886 224.548 51.1796 0.823138 0.0024098 5.31792e-006
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1987 1 89.9487 659.198 228.458 21.5025 0.842795 0.0018985 3.97855e-006
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1988 1 18.7317 352.776 190.867 20.9442 0.345207 0.00188693 3.04013e-006
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1993 1 177.211 1102.26 386.853 59.3753 1.6413 0.00367148 3.21772e-005
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2006 1 45.5824 299.521 529.244 159.083 18.2184 0.349401 0.0772115 0.0257355
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4.30282e-007 6.88024e-008

BIOLOGY 1 70 15 1 N_Used_morphs;_lengths;_ages;_season;_by_season_in_endyr
bin low Mean_Size Wt_len-F mat_len spawn Wt_len-M

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

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

Growth_Parameters

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

Season gmorph GrowPattern Sex BirthSeas age age_Beg age_Mid M Len_Beg Len_Mid
SD_Beg SD_Mid Wt_Beg Wt_Mid Len_Mat Age_Mat Mat*Fecund Len:_1 SelWt:_1
RetWt:_1 Len:_2 SelWt:_2 RetWt:_2 Len:_3 SelWt:_3 RetWt:_3 Len:_4 SelWt:_4
RetWt:_4 Len:_5 SelWt:_5 RetWt:_5 Len:_6 SelWt:_6 RetWt:_6 Len:_7 SelWt:_7
RetWt:_7 Len:_8 SelWt:_8 RetWt:_8 Len:_9 SelWt:_9 RetWt:_9 Len:_10 SelWt:_10
RetWt:_10 Len:_11 SelWt:_11 RetWt:_11 Len:_12 SelWt:_12 RetWt:_12 Len:_13
SelWt:_13 RetWt:_13 Len:_14 SelWt:_14 RetWt:_14 Len:_15 SelWt:_15 RetWt:_15
Len:_16 SelWt:_16 RetWt:_16 Len:_17 SelWt:_17 RetWt:_17 Len:_18 SelWt:_18
RetWt:_18 Len:_19 SelWt:_19 RetWt:_19
1 1 1 1 1 0 0 0.5 0.2 10 28.11 2.81 0.006815 0.17908 1 0.38 0.0025897 28.1
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1 1 1 1 1 1 1 1.5 0.2 32.7269 36.9026 3.27269 3.69026 0.298237 0.445742 1
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1 1 1 1 1 2 2 2.5 0.2 40.6711 44.0721 4.06711 4.40721 0.61717 0.807472 1 0.98
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1 1 1 1 1 3 3 3.5 0.2 47.1415 49.9116 4.71415 4.99116 1.01154 1.22454 1 1
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1 1 1 1 1 5 5 5.5 0.2 56.7039 58.5416 5.67039 5.85416 1.8768 2.08816 1 1
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1 1 1 1 1 6 6 6.5 0.2 60.2 61.6967 6.02 6.16967 2.29261 2.48843 1 1 2.29261
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1 1 1 1 1 7 7 7.5 0.2 63.0475 64.2666 6.30475 6.42666 2.67421 2.84884 1 1
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1 1 1 1 1 8 8 8.5 0.2 65.3667 66.3596 6.53667 6.63596 3.01152 3.1618 1 1
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1 1 1 1 1 9 9 9.5 0.2 67.2557 68.0644 6.72557 6.80644 3.29959 3.42512 1 1
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1 1 1 1 1 11 11 11.5 0.2 70.0474 70.5839 7.00474 7.05839 3.73371 3.81643 1 1
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1 1 1 1 1 12 12 12.5 0.2 71.0681 71.505 7.10681 7.1505 3.89048 3.95667 1 1
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1 1 1 1 1 13 13 13.5 0.2 71.8994 72.2553 7.18994 7.22553 4.0158 4.06859 1 1
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1 1 1 1 1 14 14 14.5 0.2 72.5765 72.8663 7.25765 7.28663 4.11573 4.15781 1 1
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
3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
1 2002 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
1 2003 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
1 2004 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
1 2005 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
1 2006 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
1 2007 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539

MEAN_SIZE_TIMESERIES

morph year season beg/mid 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1 1982 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279

1 1996 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 1997 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 1997 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 1998 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 1998 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 1999 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 1999 1 1 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
1 2000 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 2000 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 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
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9.48717e-012 7.46004e-012 6.15038e-012 5.26492e-012
22 0.0197936 5.55877e-005 5.96849e-007 2.37066e-008 2.32291e-009 4.20374e-010
1.16514e-010 4.37748e-011 2.05399e-011 1.13747e-011 7.14223e-012 4.93894e-012
3.68115e-012 2.90966e-012 2.40898e-012 2.06925e-012

21 0.00921523 1.87341e-005 1.92556e-007 7.76317e-009 7.81249e-010 1.45166e-010 4.11751e-011 1.57711e-011 7.51834e-012 4.21768e-012 2.67621e-012 1.86644e-012 1.40074e-012 1.11338e-012 9.25989e-013 7.9833e-013
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 19 0.00137134 1.70957e-006 1.71869e-008 7.384e-010 7.99583e-011 1.58646e-011 4.75353e-012 1.90406e-012 9.41153e-013 5.4361e-013 3.53144e-013 2.51007e-013 1.91287e-013 1.5394e-013 1.29321e-013 1.12402e-013
 18 0.000438335 4.62903e-007 4.75491e-009 2.14473e-010 2.43321e-011 5.02069e-012 1.5529e-012 6.38061e-013 3.21866e-013 1.8896e-013 1.24364e-013 8.9326e-014 6.86496e-014 5.56233e-014 4.69848e-014 4.10196e-014
 17 0.000123603 1.16522e-007 1.24979e-009 5.98539e-011 7.16167e-012 1.54335e-012 4.94191e-013 2.08716e-013 1.0761e-013 6.42834e-014 4.29001e-014 3.11583e-014 2.41611e-014 1.9718e-014 1.67528e-014 1.46947e-014
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 11 4.46692e-009 6.40421e-012 1.4051e-013 1.22107e-014 2.3115e-015 7.06922e-016 2.96132e-016 1.5399e-016 9.33991e-017 6.34016e-017 4.68181e-017 3.68565e-017 3.04806e-017 2.6194e-017 2.31991e-017 2.10424e-017
 10 5.83176e-010 1.12322e-012 3.11849e-014 3.22251e-015 6.93596e-016 2.33679e-016 1.05418e-016 5.80595e-017 3.68354e-017 2.59089e-017 1.96795e-017 1.58451e-017 1.33426e-017 1.16338e-017 1.04248e-017 9.54536e-018
 mean 28.1 36.9026 44.0721 49.9116 54.6677 58.5416 61.6967 64.2666 66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364
 sdsz 2.81 3.69026 4.40721 4.99116 5.46677 5.85416 6.16967 6.42666 6.63596 6.80644 6.9453 7.05839 7.1505 7.22553 7.28663 7.3364

AGE AGE_KEY

KEY: 1

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 0.001 0.001 0.001 0.001
 7 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1
 6 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
 5 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
 4 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
 3 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0
 2 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Composition_Database

year	season	fleet	rep	pick_gender	kind	mkt	ageerr	gender	Lbin_lo	Lbin_hi	bin						
obs	exp	Pearson	N	effN	Like	Used											
1982	1	1	1	0	AGE	0	1	1	1	70	0	0.0999438	0.0502525	3.21671	200	81.2288	13.7432
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	1	0.476731	0.529875	-1.50583	200	81.2288	-10.077
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	2	0.390191	0.362313	0.820201	200	81.2288	5.78466
1																	
1982	1	1	1	0	AGE	0	1	1	1	70	3	0.0161747	0.0485435	-2.13001	200	81.2288	-
3.55524	1																
1982	1	1	1	0	AGE	0	1	1	1	70	4	0.00432648	0.0074203	-0.509819	200	81.2288	-
0.466797	1																
1982	1	1	1	0	AGE	0	1	1	1	70	5	0.00682085	0.00120052	2.29537	200	81.2288	
2.36987	1																
1982	1	1	1	0	AGE	0	1	1	1	70	6	0.00404933	0.000265207	3.28659	200	81.2288	
2.20753	1																
1982	1	1	1	0	AGE	0	1	1	1	70	7	0.00176283	0.000129164	2.03299	200	81.2288	
0.921464	1																
1982	1	1	1	0	AGE	0	1	1	1	70							
1982	1	2	1	0	AGE	0	1	1	1	70	0	0.17237	0.0476363	8.28186	200	3.8026	44.3352
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1982	1	2	1	0	AGE	0	1	1	1	70	1	0.608225	0.353956	7.51975	200	3.8026	65.8554
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1																	
1982	1	2	1	0	AGE	0	1	1	1	70	4	0.00923145	0.0173054	-0.875588	200	3.8026	-
1.16021	1																
1982	1	2	1	0	AGE	0	1	1	1	70	5	0.00343644	0.00268734	0.204634	200	3.8026	
0.168994	1																
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0.198196	1																
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0.443527	1																
1982	1	2	1	0	AGE	0	1	1	1	70							
1982	1	5	1	0	AGE	0	1	1	1	70	0	0.177705	0.0870522	4.54759	200	43.2307	25.3625
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0.159637	1																
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2.51217	1																
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0.0448251	1																
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2.16622	1																

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0.404307 1
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1.38933 1
1982 1 9 1 0 AGE 0 1 1 1 70
1982 1 10 1 0 AGE 0 1 1 1 70 2 0.917916 0.838565 2.1567 100 21.4976 8.29931 1
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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

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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

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PARAMETERS

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Num Value Phase Min Max Init Prior PR_type SD Active_Cnt Prior_Like Bound
M-G_parmsUsing_offset_approach#:_3

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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

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biology_parms

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8 2.44e-006 -3
9 3.34694 -3
10 28.1 -3
11 -0.25 -3
12 1 -3
13 0 -3

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recrdist_by_growthpattern:1

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14 0 -3
recrdist_by_area:1

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15 0 -3
recrdist_by_seas:1

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16 4 -3
cohort_growth_dev:2

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17 1 -3
MGparm_env_linkages

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MG_parm_blockparms
M-G_parm_devs 1

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1_YR1982 0 -

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MGParm_Block_Assignments

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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

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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
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#_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
 2001 46537.9 46232.5 357261 45045.6 1.005 0.126086 0.536243 0.347835 +
 24643.4 24440.5 12337.4 12337.4 12337.4 23695.4 29777.3 0.500638 + 0.807734
 0.868976
 2002 52539.3 52233.9 357261 51039.2 1.13872 0.142863 0.548534 0.397473 +
 26850 26635.9 11882 11882 11882 25788.1 31420.5 0.442532 + 0.68186 0.733559
 2003 54669.2 54363.7 357261 53166.8 1.18619 0.148818 0.552148 0.41282 +
 30852.1 30694.7 13460.1 13460.1 13460.1 29788 23100.3 0.436277 + 0.646115
 0.695103
 2004 55854.3 55548.8 357261 54350.7 1.21261 0.152132 0.554006 0.420918 +
 32334.8 32063 14687.2 14687.2 14687.2 31324.8 39889 0.454221 + 0.627782
 0.675381
 2005 60695.1 60389.7 357261 59187.4 1.32052 0.16567 0.560545 0.451127 +
 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

```

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 357261 44821.4
Virg 357261 44821.4 44821.4 37438 44821.4
Init 25042.3 58202 58202 48614.4 58202
1982 25042.3 38320 38320 32007.6 44326.9 0.325619
1983 26977.7 38753.7 38753.7 32369.8 72362.1 0.804456
1984 26610.1 38675.5 38675.5 32304.5 30206.8 -0.0671377
1985 20339.8 36986.2 36986.2 30893.5 53752.2 0.55384
1986 19437.3 36670.6 36670.6 30629.9 57288.3 0.626122
1987 19549.4 36711.1 36711.1 30663.7 44138.1 0.364245
1988 20217.4 36944.8 36944.8 30858.9 7974.63 -1.35316
1989 9342.89 30361.9 30361.9 25360.4 21685.5 -0.156547
1990 7680.44 28330.5 28330.5 23663.6 32280.6 0.310527
1991 10774.7 31760 31760 26528.2 26851 0.012096
1992 11183 32112.3 32112.3 26822.4 34582.9 0.254122
1993 11571.5 32431 32431 27088.6 29912.3 0.0991567
1994 12295.2 32985.7 32985.7 27552 32280 0.158374
1995 13263.7 33657.8 33657.8 28113.3 35983.4 0.246814
1996 17968 36102.8 36102.8 30155.6 25083.5 -0.184163
1997 19654.4 36748.7 36748.7 30695.1 24474 -0.226493
1998 21694.1 37419.2 37419.2 31255.1 27010.3 -0.145966
1999 23143.9 37835.9 37835.9 31603.2 20830.7 -0.416833
2000 24702.4 38238 38238 31939 27301.4 -0.156891
2001 23695.4 37983.2 37983.2 31726.3 29777.3 -0.0633979
2002 25788.1 38493.7 38493.7 32152.6 31420.5 -0.0230323
2003 29788 39296.6 39296.6 32823.3 23100.3 -0.351293
2004 31324.8 39557.6 39557.6 33041.3 39889 0.188345
2005 34355.7 40011.9 40011.9 33420.8 21256.6 -0.452512
2006 36527.5 40296.4 40296.4 33658.4 23806.8 -0.346291
2007 39115.4 40598.4 40598.4 40598.4 40598.4 0 forecast

```

```

N_est r.m.s.e.
25 0.424012

```

INDEX_2

```

index year vuln_bio obs exp eff_Q SE Dev Like Like+log(s)
2 1992 9860.47 12.3 8.63844 0.000876068 0.16 0.353377 2.43897 0.606389
2 1993 9702.61 13.6 8.50015 0.000876068 0.16 0.469987 4.31421 2.48162
2 1994 10624.9 12.05 9.30816 0.000876068 0.16 0.258174 1.30183 -0.530752
2 1995 11496.1 10.93 10.0714 0.000876068 0.16 0.0818155 0.130738 -1.70184
2 1996 15028.7 31.25 13.1661 0.000876068 0.16 0.864371 14.5925 12.7599
2 1997 17114.2 10.28 14.9932 0.000876068 0.16 -0.377397 2.78181 0.949227
2 1998 18950.9 7.76 16.6023 0.000876068 0.16 -0.76056 11.2979 9.46531
2 1999 19373.9 11.06 16.9728 0.000876068 0.16 -0.428279 3.58248 1.7499
2 2000 20921.9 15.77 18.329 0.000876068 0.16 -0.150374 0.441649 -1.39093
2 2001 19690.6 18.6 17.2503 0.000876068 0.16 0.075332 0.110838 -1.72174
2 2002 21335 22.68 18.6909 0.000876068 0.16 0.193446 0.730884 -1.1017
2 2003 24475.2 35.64 21.4419 0.000876068 0.16 0.50812 5.04269 3.2101
2 2004 26492.2 17.77 23.2089 0.000876068 0.16 -0.267026 1.39263 -0.439948
2 2005 27216.4 12.89 23.8434 0.000876068 0.16 -0.615057 7.38858 5.55599
2 2006 29508.1 21.04 25.8511 0.000876068 0.16 -0.205927 0.828244 -1.00434
3 1982 23687.3 2.27 1.8138 7.65724e-005 0.21 0.224358 0.570709 -0.989939
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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

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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
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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
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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
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6	1983	1	0	0	1	1	70	100	10450.8	0.0046515
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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

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

```


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
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 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-
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 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-
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 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-
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 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
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 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
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 1993 1 2144.78 13996 4761.99 629.365 54.7492 2.83841 1.95572 0.291567
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 1995 1 328.891 6369.35 6489.33 1104.31 97.2387 12.8349 1.11686 0.0579697
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 0.00524771 0.00362924 0.000543831 5.96699e-005 3.76078e-006 1.30676e-006
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 1997 1 107.119 2736.38 9682.14 1629.06 98.4297 11.4507 1.00785 0.133107
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 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
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 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
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1 1 1 1 1 1 1 1.5 0.2 32.7269 36.9026 3.27269 3.69026 0.298237 0.445742 1
0.91 0.271396 36.9026 0.445742 0.445742 36.9026 0.445742 0.445742 36.9026
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1 1 1 1 1 2 2 2.5 0.2 40.6711 44.0721 4.06711 4.40721 0.61717 0.807472 1 0.98
0.604826 44.0721 0.807472 0.807472 44.0721 0.807472 0.807472 44.0721 0.807472

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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
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1 1 1 1 1 4 4 4.5 0.2 52.4115 54.6677 5.24115 5.46677 1.44214 1.66061 1 1
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1 1 1 1 1 5 5 5.5 0.2 56.7039 58.5416 5.67039 5.85416 1.8768 2.08816 1 1
1.8768 58.5413 2.08816 2.08816 58.5413 2.08816 2.08816 58.5413 2.08816
2.08816 58.5413 2.08816 2.08816 58.5413 2.08816 2.08816 58.5413 2.08816
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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
2.67421 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 1 1 1 1 12 12 12.5 0.2 71.0681 71.505 7.10681 7.1505 3.89048 3.95667 1 1
 3.89048 71.0329 3.95667 3.95667 71.0329 3.95667 3.95667 71.0329 3.95667
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 1 1 1 1 1 13 13 13.5 0.2 71.8994 72.2553 7.18994 7.22553 4.0158 4.06859 1 1
 4.0158 71.6577 4.06859 4.06859 71.6577 4.06859 4.06859 71.6577 4.06859
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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
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 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
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 2002 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 2003 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 2004 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 2005 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 2006 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539
 1 2007 1 0.006815 0.298237 0.61717 1.01154 1.44214 1.8768 2.29261 2.67421
 3.01152 3.29959 3.53886 3.73371 3.89048 4.0158 4.11573 4.19539

MEAN_SIZE_TIMESERIES

morph year season beg/mid 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 1 1982 1 0 10 32.7269 40.6711 47.1415 52.4115 56.7039 60.2 63.0475 65.3667
 67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
 1 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 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
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
1 2004 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 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 2005 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 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 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
66.3596 68.0644 69.453 70.5839 71.505 72.2553 72.8663 73.364

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
67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
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 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 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
 67.2557 68.7943 70.0474 71.0681 71.8994 72.5765 73.1279
 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

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 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
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 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
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 75 0 0 9.17599e-013 1.63721e-007 5.22525e-005 0.00103544 0.00531659 0.0135012
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14 2006 L 1 56 1
14 2006 L 1 57 1
14 2006 L 1 58 1
14 2006 L 1 59 1
14 2006 L 1 60 1
14 2006 L 1 61 1
14 2006 L 1 62 1
14 2006 L 1 63 1
14 2006 L 1 64 1
14 2006 L 1 65 1
14 2006 L 1 66 1
14 2006 L 1 67 1
14 2006 L 1 68 1
14 2006 L 1 69 1
14 2006 L 1 70 1
14 2006 L 1 71 1
14 2006 L 1 72 1
14 2006 L 1 73 1
14 2006 L 1 74 1
14 2006 L 1 75 1

14 2006 L 1 76 1
14 2006 L 1 77 1
14 2006 L 1 78 1
14 2006 L 1 79 1

SS2 ALTERNATIVE RUN (F08 SEXStructured.REP)

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

Time: Sat May 17 12:47:08 2008

Data_File: maunder.DAT
Control_File: maunder.CTL

Convergence_Level:
Hessian:
Sum_of_months_on_read_was:_ 12 rescaled_to_sum_to: 1

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

Fleet surv_lambda surv_like disc_lambda disc_like length_lambda length_like
age_lambda age_like sizeage_lambda sizeage_like
1 0 0 0 0 0 0 1 73.1485 0 0
2 0 0 0 0 0 0 1 120.7 0 0
3 0 0 0 0 0 0 1 277.383 0 0
4 0 0 0 0 0 0 1 183.812 0 0
5 0 0 0 0 0 0 1 66.8626 0 0
6 0 0 0 0 0 0 1 153.008 0 0
7 1 54.4921 0 0 0 0 1 219.146 0 0
8 1 80.7492 0 0 0 0 1 751.994 0 0
9 1 52.2079 0 0 0 0 1 630.03 0 0

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

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

effN_mult_Agecomp 1 1 1 1 1 1 1 1 1
effN_mult_Len-at-age 1 1 1 1 1 1 1 1 1

PARAMETERS

Num Value Phase Min Max Init Prior PR_type SD Active_Cnt Prior_Like Bound

M-G_parmsUsing_offset_approach#:_3

Gender:_1_Pattern:_1

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

Gender:_2_Pattern:_1

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

biology_parms

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

recrdist_by_growthpattern:1

23 0 -3

recrdist_by_area:1

24 0 -3

recrdist_by_seas:1

25 4 -3

cohort_growth_dev:2

26 1 -3

MGparm_env_linkages

MG_parm_blockparms

M-G_parm_devs 1

1_YR1976 0 -

MGParm_Block_Assignments

SR_parms

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

Recr_Devs

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


```

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

```

```

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

```

```

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

```

```

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

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

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5_YR1997 0.0302359 - - - - - 200
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5_YR2001 0.126717 - - - - - 204
5_YR2002 0.0904988 - - - - - 205
5_YR2003 0.0423255 - - - - - 206
5_YR2004 0.0576968 - - - - - 207
5_YR2005 0.0613332 - - - - - 208
6_YR1982 0.00386277 - - - - - 209
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6_YR1987 0.000653384 - - - - - 214
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6_YR1990 0.0459931 - - - - - 217
6_YR1991 0.14939 - - - - - 218
6_YR1992 0.160419 - - - - - 219
6_YR1993 0.106973 - - - - - 220
6_YR1994 -0.0751243 - - - - - 221
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6_YR1996 0.0835339 - - - - - 223
6_YR1997 0.070601 - - - - - 224
6_YR1998 0.0237511 - - - - - 225
6_YR1999 -0.0918813 - - - - - 226
6_YR2000 -0.0344111 - - - - - 227
6_YR2001 0.031572 - - - - - 228
6_YR2002 0.0253263 - - - - - 229
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7_YR1989 0.129846 - - - - - 233
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7_YR1991 0.153838 - - - - - 235
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7_YR2003 0.037418 - - - - - 247
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7_YR2005 -0.117623 - - - - - 249
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8_YR1993 -0.25826 - - - - - 254
8_YR1994 -0.175701 - - - - - 255

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

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

G_pattern gender Seas Area Value Used?

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

MOVEMENT

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

SUBMORPHDIST 1

MGparm_By_Year_after_adjustments

Year

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

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

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SELparm(Size)_By_Year_after_adjustments

Fleet/Svy Year

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

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

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

SELParm(Age)_By_Year_after_adjustments

Fleet/Svy Year

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

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

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

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

SPR_series uses_R0= 70165.5 ###note_Y/R_unit_is_Dead_Biomass
Year Bio_all Bio_Smry SPBzero SPBfished SPBfished/R SPR Y/R GenTime Actual:
Bio_all Bio_Smry Enc_Catch Dead_Catch Retain_Catch SPB Recruits Tot_Exploit
More_F(by_morph): aveF-1 aveF-2 maxF-1 maxF-2
1976 57645.9 48913.8 125895 29699.3 0.423275 0.235906 0.244023 0.380641 +
73637.2 63897.1 22983.3 22983.3 22983.3 38600.2 78264.9 0.312115 + 0.29812
0.522346 0.794787 0.804949
1977 59599.1 50867 125895 31751.4 0.452522 0.252207 0.238633 0.418809 +
68514.9 60135.1 20786 20786 20786 35362.7 67335 0.30338 + 0.246158 0.435314
0.674094 0.697938
1978 57726.5 48994.4 125895 30729.8 0.437962 0.244092 0.238203 0.43384 +
63147.1 56065.1 20018.1 20018.1 20018.1 33530.6 56905.9 0.317008 + 0.234818
0.419158 0.659411 0.69658
1979 45272 36539.9 125895 21031 0.299735 0.167053 0.250179 0.353537 +
54855.8 49854.5 24863.3 24863.3 24863.3 30479.3 40187.4 0.453247 + 0.388711
0.69124 1.08718 1.14079
1980 38767.2 30035.1 125895 16681.3 0.237742 0.132502 0.250605 0.320266 +
45530.2 35193.8 21085.4 21085.4 21085.4 21425.8 83056.9 0.463107 + 0.488424
0.874038 1.3873 1.47545
1981 39166.6 30434.5 125895 16564.3 0.236075 0.131573 0.251742 0.244391 +
42952.7 32244.1 17429.8 17429.8 17429.8 17936.1 86047.5 0.405792 + 0.634833
1.11707 1.71882 1.76717
1982 41473.6 32741.5 125895 20111.8 0.286634 0.159751 0.235419 0.505582 +
48837.1 35485.2 19743.9 19743.9 19743.9 18602.4 107287 0.404281 + 0.211494
0.410864 0.919041 0.919041
1983 37586.6 28854.5 125895 17607.2 0.250939 0.139857 0.238694 0.486154 +
54094.4 40957.1 25083.8 25083.8 25083.8 21664.9 105562 0.463704 + 0.257458
0.457168 0.96694 0.973983
1984 35566.7 26834.6 125895 14824.5 0.211278 0.117753 0.245292 0.356653 +
48928.3 41474.8 25287.6 25287.6 25287.6 22439.4 59891.7 0.516829 + 0.453071
0.783557 1.35485 1.35485
1985 38046.3 29314.2 125895 16283.6 0.232074 0.129343 0.248405 0.402099 +
42851.1 32856.5 20279.6 20279.6 20279.6 17557.3 80310.1 0.473257 + 0.374946
0.658032 1.24314 1.24314
1986 34967.7 26235.6 125895 14323.3 0.204136 0.113772 0.249112 0.327682 +
41503 31640.1 20430.1 20430.1 20430.1 16551.5 79251.2 0.492257 + 0.548153
0.861703 1.49009 1.49009
1987 37190.7 28458.6 125895 15733.9 0.22424 0.124977 0.248963 0.343297 +
37931.4 30713.3 18456.2 18456.2 18456.2 15734.3 58000 0.486568 + 0.510383
0.744663 1.21137 1.21137
1988 30417.9 21685.8 125895 11468.5 0.16345 0.0910962 0.245075 0.235096 +
29650.4 27583 22006.3 22006.3 22006.3 14181.1 16612.2 0.742193 + 0.882904
1.20403 1.89627 1.89627

1989 33694.6 24962.5 125895 13139.5 0.187265 0.104369 0.251344 0.196364 +
17405.3 12140.6 9594.41 9594.41 9594.41 6192.17 42303.9 0.551234 + 0.856342
1.52861 2.27067 2.25832
1990 34995.4 26263.2 125895 14243.2 0.202994 0.113136 0.246918 0.301581 +
18307.5 12084 7524.87 7524.87 7524.87 5787.36 50008 0.411027 + 0.532751
1.06813 1.69131 1.67972
1991 34128.4 25396.3 125895 13598.2 0.193802 0.108013 0.251626 0.394615 +
23405.4 16322.6 11137.6 11137.6 11137.6 7973.46 56913.3 0.475855 + 0.422795
0.919914 1.7444 1.7444
1992 33101.4 24369.3 125895 12734.8 0.181496 0.101154 0.248914 0.368044 +
26815 18986.9 13468.9 13468.9 13468.9 9121.77 62901.7 0.502288 + 0.468209
1.02202 1.74979 1.85494
1993 34890.5 26158.4 125895 14221.4 0.202684 0.112963 0.248814 0.43275 +
26974.2 20875.4 13677.4 13677.4 13677.4 9838.36 49006 0.507054 + 0.361488
0.778298 1.52309 1.52309
1994 34141.5 25409.4 125895 13922.8 0.198428 0.110591 0.249828 0.443755 +
27644.6 20015.5 14450.7 14450.7 14450.7 9723.95 61302.2 0.522733 + 0.350884
0.746811 1.70933 1.70933
1995 43570.4 34838.3 125895 19359.1 0.275906 0.153772 0.257921 0.379113 +
31163.1 20452.4 8924.51 8924.51 8924.51 9985.89 86064.1 0.28638 + 0.355471
0.820413 1.39387 1.40571
1996 51017.9 42285.8 125895 24802.9 0.353492 0.197013 0.252104 0.401287 +
40070.9 31878.6 11112.2 11112.2 11112.2 15857.5 65827.7 0.277314 + 0.289924
0.600855 0.96132 0.959614
1997 61913.5 53181.4 125895 32119.1 0.457761 0.255127 0.243968 0.399882 +
47258.2 38624.7 11099.6 11099.6 11099.6 20363.8 69372.8 0.234871 + 0.269138
0.495526 0.777771 0.774145
1998 65547.5 56815.4 125895 35150.7 0.500969 0.279208 0.237615 0.430262 +
55123.8 45340.2 13427.4 13427.4 13427.4 24546.4 78614.4 0.243587 + 0.204969
0.436777 0.71594 0.71264
1999 77636 68903.9 125895 45286.4 0.645423 0.359717 0.217367 0.465932 +
59112.3 51424.7 11338.9 11338.9 11338.9 28441.7 61773 0.19182 + 0.154717
0.311123 0.50954 0.507245
2000 75104.8 66372.7 125895 43460.9 0.619405 0.345216 0.21985 0.474538 +
65313.7 56319.2 14824.1 14824.1 14824.1 32751.1 72273.6 0.226967 + 0.154036
0.310761 0.514723 0.514925
2001 85513 76780.9 125895 53108.4 0.756902 0.421848 0.19537 0.504064 +
67734 58790.4 12029.2 12029.2 12029.2 34849.3 71864.7 0.177595 + 0.115959
0.218208 0.338539 0.342528
2002 93246 84513.9 125895 59958 0.854522 0.476255 0.179493 0.526797 +
72871.3 63763.5 11345.3 11345.3 11345.3 39099.3 73184.4 0.15569 + 0.0838613
0.18618 0.322933 0.332763
2003 87667 78934.9 125895 54527.6 0.777129 0.433121 0.193204 0.504245 +
75635 69212.8 13091.5 13091.5 13091.5 43582.6 51604.4 0.173088 + 0.10842
0.221455 0.362297 0.364519
2004 84715.7 75983.6 125895 52055.9 0.741901 0.413488 0.199336 0.501159 +
77075.7 68279.6 14307.9 14307.9 14307.9 44377.6 70679.9 0.185634 + 0.113706
0.236167 0.385848 0.390276
2005 82653 73920.9 125895 49400.5 0.704057 0.392396 0.208511 0.461895 +
72282.6 68388 13560.6 13560.6 13560.6 44595.1 31294.5 0.187605 + 0.170831
0.273112 0.39839 0.398926
2006 87344.1 78612 125895 54281.9 0.773627 0.43117 0.193232 0.504339 +
64881.1 61831 11967.1 11967.1 11967.1 41537.1 24508.7 0.184447 + 0.106859
0.224993 0.374696 0.374267
2007 85594 76861.9 125895 53561.8 0.763363 0.425449 0.19134 0.511678 +
55966 53457.5 10194.6 10194.6 10194.6 37275.3 20156.4 0.182156 + 0.102903
0.213252 0.343648 0.348872

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

SPAWN_RECRUIT Function: 3 - - - - -

11.1586 Ln(R0) 70165.5

1 steep

0.6 stddev_recr

0 env_link_

-0.0396692 init-eq 67436.6

1970 2007 recdev:start_end 1957 first_year_with_full_bias_adjustment

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

S/Rcurve 125895 70165.5

Virg 125895 70165.5 70165.5 58607.2 70165.5

Init 38034.2 67436.6 67436.6 56327.8 67436.6

1976 38600.2 70165.5 70165.5 58607.2 78264.9 0.289242

1977 35362.7 70165.5 70165.5 58607.2 67335 0.138823

1978 33530.6 70165.5 70165.5 58607.2 56905.9 -0.0294581

1979 30479.3 70165.5 70165.5 58607.2 40187.4 -0.377302

1980 21425.8 70165.5 70165.5 58607.2 83056.9 0.348669

1981 17936.1 70165.5 70165.5 58607.2 86047.5 0.384042

1982 18602.4 70165.5 70165.5 58607.2 107287 0.604651

1983 21664.9 70165.5 70165.5 58607.2 105562 0.588443

1984 22439.4 70165.5 70165.5 58607.2 59891.7 0.0216812

1985 17557.3 70165.5 70165.5 58607.2 80310.1 0.315039

1986 16551.5 70165.5 70165.5 58607.2 79251.2 0.301765

1987 15734.3 70165.5 70165.5 58607.2 58000 -0.0104133

1988 14181.1 70165.5 70165.5 58607.2 16612.2 -1.26072

1989 6192.17 70165.5 70165.5 58607.2 42303.9 -0.325978

1990 5787.36 70165.5 70165.5 58607.2 50008 -0.158674

1991 7973.46 70165.5 70165.5 58607.2 56913.3 -0.0293285

1992 9121.77 70165.5 70165.5 58607.2 62901.7 0.0707161

1993 9838.36 70165.5 70165.5 58607.2 49006 -0.178915

1994 9723.95 70165.5 70165.5 58607.2 61302.2 0.0449586

1995 9985.89 70165.5 70165.5 58607.2 86064.1 0.384236

1996 15857.5 70165.5 70165.5 58607.2 65827.7 0.116184

1997 20363.8 70165.5 70165.5 58607.2 69372.8 0.168637

1998 24546.4 70165.5 70165.5 58607.2 78614.4 0.293698

1999 28441.7 70165.5 70165.5 58607.2 61773 0.0526087

2000 32751.1 70165.5 70165.5 58607.2 72273.6 0.209601

2001 34849.3 70165.5 70165.5 58607.2 71864.7 0.203928

2002 39099.3 70165.5 70165.5 58607.2 73184.4 0.222126

2003 43582.6 70165.5 70165.5 58607.2 51604.4 -0.127249

2004 44377.6 70165.5 70165.5 58607.2 70679.9 0.187304

2005 44595.1 70165.5 70165.5 58607.2 31294.5 -0.627414

2006 41537.1 70165.5 70165.5 58607.2 24508.7 -0.871828

2007 37275.3 70165.5 70165.5 58607.2 20156.4 -1.06734

2008 32757 70165.5 70165.5 58607.2 58607.2 8.88178e-016 forecast

2009 32588.8 70165.5 70165.5 70165.5 70165.5 0 forecast

N_est r.m.s.e.

32 0.430711

INDEX_2

index	year	vuln_bio	obs	exp	eff_Q	SE	Dev	Like	Like+log(s)
7	1992	23299.4	12.2947	7.51303	0.000322456	0.156307	0.492529	4.96451	3.10858
7	1993	25740.1	13.6037	8.30005	0.000322456	0.152101	0.49408	5.27595	3.39274
7	1994	25469.9	12.0506	8.21292	0.000322456	0.178228	0.383406	2.31386	0.589164
7	1995	24794.2	10.9296	7.99503	0.000322456	0.119799	0.312655	3.4056	1.28366
7	1996	39595.8	31.2461	12.7679	0.000322456	0.241612	0.89496	6.86025	5.43983
7	1997	49799.5	10.2832	16.0581	0.000322456	0.239956	-0.445705	1.72505	0.29775
7	1998	55003.3	7.75628	17.7361	0.000322456	0.206629	-0.827101	8.01134	6.43451
7	1999	60239.4	11.0546	19.4246	0.000322456	0.133137	-0.563692	8.96307	6.94669
7	2000	64960.6	15.7587	20.947	0.000322456	0.129614	-0.284601	2.41067	0.367475
7	2001	63779.7	18.5894	20.5661	0.000322456	0.113516	-0.101055	0.396249	-1.77956
7	2002	67202.9	22.6824	21.67	0.000322456	0.155914	0.0456615	0.0428844	-1.81557
7	2003	71027.8	35.6193	22.9033	0.000322456	0.187142	0.441605	2.78417	1.10828
7	2004	68454.9	17.7707	22.0737	0.000322456	0.138544	-0.216836	1.22478	-0.751791
7	2005	64772.2	12.8914	20.8862	0.000322456	0.14648	-0.482528	5.42573	3.50486
7	2006	59713.4	21.0442	19.2549	0.000322456	0.138773	0.0888576	0.204998	-1.76992
7	2007	46030.6	16.8326	14.8428	0.000322456	0.127993	0.125801	0.483017	-1.57276
8	1976	72426.5	2.83438	2.65484	3.66556e-005	0.334882	0.0654389	0.0190923	-1.07488
8	1977	65160.7	2.83863	2.38851	3.66556e-005	0.158535	0.172653	0.593016	-1.24876
8	1978	59711.4	2.49883	2.18876	3.66556e-005	0.191203	0.132487	0.240065	-1.41435
8	1979	51674.3	0.398393	1.89415	3.66556e-005	0.228214	-1.55909	23.336	21.8586
8	1980	36481.2	1.29687	1.33724	3.66556e-005	0.15492	-0.0306545	0.0195769	-1.84527
8	1981	32917.8	1.49903	1.20662	3.66556e-005	0.158012	0.216994	0.942939	-0.902146
8	1982	41488.1	2.26475	1.52077	3.66556e-005	0.196946	0.398245	2.04445	0.419627
8	1983	46611.3	0.948461	1.70857	3.66556e-005	0.151083	-0.58857	7.58813	5.6982
8	1984	46565.6	0.659183	1.70689	3.66556e-005	0.292897	-0.951429	5.27586	4.04792
8	1985	39803.8	2.3779	1.45903	3.66556e-005	0.221934	0.488443	2.42187	0.916494
8	1986	35440.4	2.14136	1.29909	3.66556e-005	0.158406	0.499776	4.97712	3.13453
8	1987	35838.2	0.926661	1.31367	3.66556e-005	0.151085	-0.348993	2.66784	0.77793
8	1988	33361.1	1.50145	1.22287	3.66556e-005	0.228852	0.205229	0.402103	-1.07258
8	1989	15299.4	0.319292	0.560809	3.66556e-005	0.1976	-0.563274	4.0629	2.44139
8	1990	13276	0.714636	0.48664	3.66556e-005	0.21618	0.384248	1.57965	0.0480097
8	1991	19421.2	1.07963	0.711897	3.66556e-005	0.170555	0.416441	2.9809	1.2122
8	1992	22669.4	1.20256	0.830961	3.66556e-005	0.177385	0.369625	2.171	0.441565
8	1993	25053	1.27405	0.918335	3.66556e-005	0.175172	0.327394	1.74655	0.00456337
8	1994	24891.4	0.929802	0.912409	3.66556e-005	0.146912	0.018883	0.0082603	-1.90966
8	1995	24137.1	1.0873	0.884762	3.66556e-005	0.214494	0.206134	0.461784	-1.07769
8	1996	38618	1.75558	1.41557	3.66556e-005	0.255302	0.215268	0.355483	-1.00983
8	1997	48907.4	1.06321	1.79273	3.66556e-005	0.153722	-0.522448	5.77543	3.90282

8 1998 54099.5 1.18648 1.98305 3.66556e-005 0.205136 -0.513647 3.13484
 1.55076
 8 1999 59179.6 1.59826 2.16927 3.66556e-005 0.215129 -0.305473 1.00813 -
 0.528384
 8 2000 63905.9 2.1379 2.34251 3.66556e-005 0.148842 -0.0913998 0.188543 -
 1.71633
 8 2001 62551.2 2.69048 2.29285 3.66556e-005 0.131647 0.159922 0.737845 -
 1.28979
 8 2002 65735.5 2.47207 2.40958 3.66556e-005 0.164547 0.0256041 0.0121063 -
 1.79245
 8 2003 69268.5 2.91102 2.53908 3.66556e-005 0.105669 0.136701 0.836788 -
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 8 2004 66653 3.02581 2.44321 3.66556e-005 0.220811 0.213866 0.469043 -1.0414
 8 2005 62652.3 1.80914 2.29656 3.66556e-005 0.200644 -0.238562 0.706837 -
 0.899386
 8 2006 57793.9 1.76325 2.11847 3.66556e-005 0.183625 -0.183537 0.499519 -
 1.19534
 8 2007 44143.4 3.24656 1.6181 3.66556e-005 0.26374 0.696341 3.48547 2.15268
 9 1977 49840.5 1.13957 1.73069 3.47246e-005 0.181749 -0.417868 2.64304
 0.937915
 9 1978 45554.4 2.17069 1.58186 3.47246e-005 0.289673 0.316447 0.596698 -
 0.642304
 9 1979 39720.5 0.314982 1.37928 3.47246e-005 0.273479 -1.4768 14.5802 13.2837
 9 1980 27728 1.16618 0.962844 3.47246e-005 0.341586 0.191597 0.157307 -
 0.916849
 9 1981 20932.2 0.935167 0.726861 3.47246e-005 0.285575 0.25199 0.389311 -
 0.863939
 9 1982 26493.7 0.909398 0.919983 3.47246e-005 0.303798 -0.0115726 0.000725535
 -1.19067
 9 1983 30124.1 1.57254 1.04605 3.47246e-005 0.378808 0.407674 0.579106 -
 0.391619
 9 1984 30222.4 0.89911 1.04946 3.47246e-005 0.384713 -0.154626 0.0807719 -
 0.874486
 9 1985 27607.3 0.992015 0.958652 3.47246e-005 0.54885 0.03421 0.00194254 -
 0.597988
 9 1986 23023.3 1.24369 0.799474 3.47246e-005 0.260118 0.441884 1.44293
 0.0963141
 9 1987 22753 0.679787 0.790086 3.47246e-005 0.351407 -0.150363 0.091544 -
 0.954266
 9 1988 22436.3 0.257265 0.77909 3.47246e-005 0.332309 -1.10802 5.55879 4.4571
 9 1989 11125.3 0.109191 0.386321 3.47246e-005 0.389323 -1.26357 5.26682
 4.32348
 9 1990 7632.01 0.201527 0.265018 3.47246e-005 0.49991 -0.273875 0.150069 -
 0.543258
 9 1991 11689.9 0.266991 0.405928 3.47246e-005 0.263887 -0.41896 1.26032 -
 0.0719167
 9 1992 13679.5 0.50745 0.475015 3.47246e-005 0.340459 0.066052 0.0188197 -
 1.05864
 9 1993 15166.4 0.854496 0.526646 3.47246e-005 0.327251 0.483984 1.09363 -
 0.0233992
 9 1994 16109.8 0.112407 0.559404 3.47246e-005 0.535758 -1.60475 4.48586
 3.86178
 9 1995 14764 0.595507 0.512674 3.47246e-005 0.276534 0.149773 0.14667 -
 1.13875
 9 1996 24111 1.12882 0.837243 3.47246e-005 0.273761 0.298814 0.595701 -
 0.699799
 9 1997 34307 0.709222 1.1913 3.47246e-005 0.344281 -0.518628 1.13463 0.068336

9 1998 40160.3 1.32099 1.39455 3.47246e-005 0.258547 -0.0541883 0.0219635 -
1.33071
9 1999 43747.2 2.32312 1.5191 3.47246e-005 0.361277 0.424791 0.691256 -
0.326854
9 2000 49401.9 2.41667 1.71546 3.47246e-005 0.193274 0.34271 1.57209 -0.07156
9 2001 48323.1 1.90251 1.678 3.47246e-005 0.22368 0.125572 0.157581 -1.33996
9 2002 50610.6 1.5635 1.75743 3.47246e-005 0.329862 -0.116926 0.0628244 -
1.04626
9 2003 53627.3 1.32269 1.86218 3.47246e-005 0.406018 -0.342082 0.354928 -
0.54643
9 2004 53304.3 2.00321 1.85097 3.47246e-005 0.248761 0.0790425 0.0504808 -
1.34078
9 2005 48916.8 2.99743 1.69861 3.47246e-005 0.264449 0.567943 2.30619
0.976084
9 2006 46940.5 1.56456 1.62999 3.47246e-005 0.290573 -0.0409672 0.00993877 -
1.22596
9 2007 37594.1 2.09713 1.30544 3.47246e-005 0.197404 0.47403 2.88317 1.26066
9 2008 27605.4 2.21 0.958586 3.47246e-005 0.302095 0.835289 3.82257 2.62556

INDEX_1

Index Do_Power Power Do_Env_var Env_Link Do_ExtraVar Qtype Q Num=0/Bio=1
Err_type N Npos r.m.s.e. mean_input_SE mean_(Input+extra)_SE pen_mean_Qdev
rmse_Qdev
1 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
2 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
3 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
4 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
5 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
6 0 1.0 0 0.00 0.0 0 -- 1 0 0 0 0 0 0 0 0
7 0 1.0 0 0.00 0.0 0 0.000322456 0 0 16 16 0.45585 0.160359 0.160359 0 0
8 0 1.0 0 0.00 0.0 0 3.66556e-005 0 0 32 32 0.463306 0.19294 0.19294 0 0
9 0 1.0 0 0.00 0.0 0 3.47246e-005 0 0 32 32 0.58456 0.320599 0.320599 0 0
rmse_Qdev_not_in_logL
pen_mean_Qdev_not_in_logL_in_randwalk_approach

INDEX_3

Index Q_parm_assignments
1 0 -- 0 -- 0 0
2 0 -- 0 -- 0 0
3 0 -- 0 -- 0 0
4 0 -- 0 -- 0 0
5 0 -- 0 -- 0 0
6 0 -- 0 -- 0 0
7 0 -- 0 -- 0 0
8 0 -- 0 -- 0 0
9 0 -- 0 -- 0 0

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

MEAN_BODY_WT log(L)_based_on_T-distribution_with_DF=_30
year seas index Mkt obs exp cv Dev Like Like+log(s)
1982 1 1 0 0.504 0.584366 0.1 -0.0803661 1.26098 1.26098
1983 1 1 0 0.521 0.510163 0.1 0.010837 0.0223376 0.0223376
1984 1 1 0 0.518 0.66308 0.1 -0.14508 3.60042 3.60042

```

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

```

FIT_LEN_COMPS

Index Year Seas Gender Mkt Nsamp effN Like

```

index N Npos mean_effN mean(inputN) HarMean(effN) Mean(effN/inputN)
MeaneffN/MeainputN
1 0 0 0 0 0 0 -1.#IND
2 0 0 0 0 0 0 -1.#IND
3 0 0 0 0 0 0 -1.#IND
4 0 0 0 0 0 0 -1.#IND
5 0 0 0 0 0 0 -1.#IND
6 0 0 0 0 0 0 -1.#IND
7 0 0 0 0 0 0 -1.#IND
8 0 0 0 0 0 0 -1.#IND
9 0 0 0 0 0 0 -1.#IND

```

FIT_AGE_COMPS

Index Year Seas Gender Mkt Ageerr Lbin_lo Lbin_hi Nsamp effN Like

```

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

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

4	1997	1	0	0	1	1	55	200	714.862	1.73441
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4	1999	1	0	0	1	1	55	200	20.9723	19.0542
4	2000	1	0	0	1	1	55	200	88.1996	11.9892
4	2001	1	0	0	1	1	55	200	2.75308	66.6972
4	2002	1	0	0	1	1	55	200	27.6085	23.3548
4	2003	1	0	0	1	1	55	200	86.9763	9.25673
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6	1999	1	0	0	1	1	55	200	1207.62	0.962921
6	2000	1	0	0	1	1	55	200	10915.8	0.866727
6	2001	1	0	0	1	1	55	200	165.636	2.37047

6	2002	1	0	0	1	1	55	200	65.0827	7.12433
6	2003	1	0	0	1	1	55	200	125.669	3.96728
6	2004	1	0	0	1	1	55	200	42.2709	6.99858
6	2005	1	0	0	1	1	55	200	48.6822	3.18684
6	2006	1	0	0	1	1	55	200	183.593	3.46698
6	2007	1	0	0	1	1	55	200	30.7945	15.8018
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index N Npos mean_effN mean(inputN) HarMean(effN) Mean(effN/inputN)
 MeaneffN/MeaninputN

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 3 0 19 522.189 200 47.0152 2.61094 2.61094
 4 0 14 438.546 200 23.6974 2.19273 2.19273
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LEN_SELEX

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5 1976 2 1976-5 0.00958784 0.0112815 0.0145165 0.0204044 0.0306091 0.0474395
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5 1989 2 1989-5 0.00710821 0.00716877 0.00734971 0.00785064 0.00913502
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5 1994 2 1994-5 0.0158153 0.0193697 0.0254748 0.0355329 0.0514177 0.0754488
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2 1988 2 1988-2 3.80775e-005 0.000715817 0.00204595 0.00454597 0.00904411
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2 1989 1 1989-2 3.15497e-005 3.16431e-005 3.19585e-005 3.2971e-005 3.60568e-005 4.49854e-005 6.95058e-005 0.000133406 0.000291386 0.000661808 0.00148527 0.00322012 0.00668232 0.0132235 0.024915 0.0446664 0.0761693 0.123538 0.190552 0.279515 0.389915 0.517252 0.65253 0.782825 0.893085 0.968914 0.999671 0.999982 0.991927 0.963505 0.916332 0.85325 0.7779 0.694378 0.606865 0.519294 0.435069 0.356885 0.28663 0.225393 0.173533 0.130813 0.0965475 0.0697681 0.0493625 0.0341949 0.0231927 0.0154015 0.0100139 0.00637476 0.0039733 0.00242472 0.00144876 0.000847536 0.000485449

2 1989 2 1989-2 3.15497e-005 3.16431e-005 3.19585e-005 3.2971e-005 3.60568e-005 4.49854e-005 6.95058e-005 0.000133406 0.000291386 0.000661808 0.00148527 0.00322012 0.00668232 0.0132235 0.024915 0.0446664 0.0761693 0.123538 0.190552 0.279515 0.389915 0.517252 0.65253 0.782825 0.893085 0.968914 0.999671 0.999982 0.991927 0.963505 0.916332 0.85325 0.7779 0.694378 0.606865 0.519294 0.435069 0.356885 0.28663 0.225393 0.173533 0.130813 0.0965475 0.0697681 0.0493625 0.0341949 0.0231927 0.0154015 0.0100139 0.00637476 0.0039733 0.00242472 0.00144876 0.000847536 0.000485449

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2 1990 2 1990-2 2.83595e-005 2.84985e-005 2.89533e-005 3.03681e-005 3.45531e-005 4.63211e-005 7.77684e-005 0.000157616 0.000350199 0.0007913 0.00175041 0.00372936 0.00760224 0.014787 0.0274126 0.0484104 0.0814233 0.130417 0.198917 0.288904 0.399551 0.526167 0.659792 0.787809 0.895707 0.969707 0.99968 0.999982 0.991927 0.963505 0.916332 0.85325 0.7779 0.694378 0.606865 0.519294 0.435069 0.356885 0.28663 0.225393 0.173533 0.130813 0.0965475 0.0697681 0.0493625 0.0341949 0.0231927 0.0154015 0.0100139 0.00637476 0.0039733 0.00242472 0.00144876 0.000847536 0.000485449

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2 1991 2 1991-2 9.06768e-006 9.69136e-006 1.1496e-005 1.64858e-005 2.96667e-005 6.29251e-005 0.000143068 0.000327465 0.000732457 0.0015813 0.00327855 0.00651473 0.0123961 0.0225778 0.0393567 0.065654 0.104808 0.160105 0.234043 0.327387 0.438228 0.561322 0.688013 0.806964 0.905699 0.972717 0.999712 0.999982 0.991927 0.963505 0.916332 0.85325 0.7779 0.694378 0.606865 0.519294 0.435069 0.356885 0.28663 0.225393 0.173533 0.130813 0.0965475 0.0697681 0.0493625 0.0341949 0.0231927 0.0154015 0.0100139 0.00637476 0.0039733 0.00242472 0.00144876 0.000847536 0.000485449

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

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

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 2 1997 2 1997-2 2.1849e-005 2.18954e-005 2.2061e-005 2.26225e-005 2.44259e-
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2 1999 2 1999-2 0.000109214 0.000110947 0.000115557 0.000127313 0.000156048
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2 2000 2 2000-2 6.36737e-005 6.36934e-005 6.37685e-005 6.40407e-005 6.49728e-
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0.000335653 8.13576e-005 1.77556e-005 3.65608e-006 8.83369e-007 3.99146e-007
3.238e-007 3.13157e-007 3.11617e-007 3.11239e-007 3.11016e-007 3.10829e-007
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3.09562e-007 3.09509e-007
6 2003 1 2003-6 0.0181511 0.0190377 0.0209708 0.0249395 0.0326077 0.0465388
0.0703102 0.108354 0.165351 0.245086 0.34886 0.473833 0.611917 0.749863
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3.23726e-007 3.13086e-007 3.11549e-007 3.11174e-007 3.10953e-007 3.10768e-007
3.10606e-007 3.10461e-007 3.1033e-007 3.10213e-007 3.10106e-007 3.10009e-007
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3.09516e-007 3.09464e-007
6 2003 2 2003-6 0.0181511 0.0190377 0.0209708 0.0249395 0.0326077 0.0465388
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3.09516e-007 3.09464e-007
6 2004 1 2004-6 0.0262991 0.0263016 0.026314 0.0263677 0.0265757 0.027294
0.0295053 0.0355634 0.0503062 0.0820937 0.142599 0.243719 0.39085 0.574516
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6 2004 2 2004-6 0.0262991 0.0263016 0.026314 0.0263677 0.0265757 0.027294
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3.09546e-007 3.09494e-007
6 2005 1 2005-6 0.0103063 0.0526199 0.102399 0.159825 0.224745 0.296603
0.37439 0.456629 0.541383 0.626307 0.708742 0.785843 0.854734 0.912689
0.957301 0.986657 0.999476 0.999935 0.968216 0.837906 0.64574 0.443156
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6 2005 2 2005-6 0.0103063 0.0526199 0.102399 0.159825 0.224745 0.296603
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6 2006 1 2006-6 0.00611475 0.0191273 0.0380166 0.0645372 0.100526 0.147688
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6 2006 2 2006-6 0.00611475 0.0191273 0.0380166 0.0645372 0.100526 0.147688
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6 2008 1 2008-6 0.008959 0.0089591 0.00895958 0.00896569 0.010653 0.999031
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6 2008 2 2008-6 0.008959 0.0089591 0.00895958 0.00896569 0.010653 0.999031
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6 2009 1 2009-6 0.00611475 0.0191273 0.0380166 0.0645372 0.100526 0.147688
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6 2009 2 2009-6 0.00611475 0.0191273 0.0380166 0.0645372 0.100526 0.147688
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0.92856 0.977407 0.999108 0.999934 0.968216 0.837906 0.64574 0.443156
0.270828 0.14739 0.0714296 0.0308268 0.0118473 0.00405474 0.00123594
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3.09788e-007 3.09709e-007 3.09637e-007 3.0957e-007 3.09508e-007 3.0945e-007
3.09396e-007 3.09346e-007

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

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

0.597775 0.554185 0.511111 0.468943 0.428024 0.388651 0.351072 0.315483
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 1 1984 2 1984-1 0.015748 0.0183969 0.0223597 0.0281555 0.0364404 0.0480129
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 1 1985 1 1985-1 0.012752 0.0128605 0.0131449 0.0138443 0.0154562 0.0189363
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AGE_SELEX

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

AGE_SELEX_from_size_selex_in_endyear

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

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

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

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

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

ENVIRONMENTAL_DATA Begins_in_startyr-1

NUMBERS_AT_AGE

Population 1 gmorph 1 gender: 1 GrowPattern: 1 birthseason: 1
Year Per Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1974 VIRG 1 28066.2 21055 15795.2 11849.4 8889.33 6668.69 5002.78 3753.04
2815.49 2112.15 1584.52 1188.69 891.742 668.976 501.859 1506.9
1975 INIT 1 26974.6 20167 15053.3 8869.65 3226.6 1237.35 529.469 251.124
132.357 74.5214 44.5393 27.3484 17.2519 11.122 7.31347 14.8591
1976 TIME 1 31306 22543.1 21034.4 7020.87 2652.53 895.855 275.01 251.124
132.357 74.5214 44.5393 27.3484 17.2519 11.122 7.31347 14.8591
1977 TIME 1 26934 23190.5 13818.7 9598.64 2378.98 1049.05 409.367 139.515
140.188 78.2181 46.3171 28.3146 17.7809 11.4207 7.48442 15.1566
1978 TIME 1 22762.4 19945.9 13934.5 6398.77 3669.66 1063.86 533.668 227.038
83.4673 87.6589 50.8425 30.6314 19.0497 12.1285 7.88808 15.8255
1979 TIME 1 16075 16825.3 11490.2 6168.22 2482.5 1698.62 561.866 306.072
139.553 53.3712 58.0064 34.1595 20.8927 13.1508 8.46487 16.7242
1980 TIME 1 33222.8 11792.2 8490.42 3740.16 1560.18 831.009 704.641 267.157
163.472 79.6869 32.3054 36.0335 21.7726 13.5938 8.71809 16.9997
1981 TIME 1 34419 24142.7 4956.36 2023.04 700.749 431.549 304.685 306.702
133.998 88.8357 46.4141 19.4035 22.3108 13.8129 8.8165 17.0346
1982 TIME 1 42914.8 25049.5 10620.6 1136.37 272.082 137.302 116.813 103.058
126.509 62.0975 45.6073 24.9428 10.9115 13.0115 8.32637 16.083
1983 TIME 1 42224.9 29814 9567.43 3178.24 439.155 140.741 84.3103 77.8849
72.3459 90.7978 45.2573 33.4299 18.3751 8.06763 9.64886 18.1472
1984 TIME 1 23956.7 29441.1 9849.83 2729.16 1200.29 222.328 83.6259 53.9077
52.1644 49.5145 63.2057 31.7319 23.6049 13.0482 5.75854 19.9405
1985 TIME 1 32124.1 16568.9 11058.7 1906.32 638.946 396.389 92.8841 40.0865
28.866 29.7193 29.7703 38.9275 20.0189 15.1842 8.54466 17.1236
1986 TIME 1 31700.5 23361.1 6177.62 2393.26 532.274 247.312 189.325 49.8384
23.5056 17.751 19.0237 19.3945 25.8051 13.4569 10.3375 17.6903
1987 TIME 1 23200 22848.7 8038.89 1044.37 529.034 165.607 95.8023 83.0177
24.1476 12.0634 9.59776 10.539 11.0182 14.972 7.96568 16.9298
1988 TIME 1 6644.89 16899.9 8134.14 1795.88 288.281 187.646 68.8276 43.5524
40.605 12.3308 6.41142 5.19909 5.82463 6.19427 8.55742 14.474
1989 TIME 1 16921.6 4652.15 4147.99 916.104 274.258 63.9359 52.1876 21.6368
15.1034 14.9277 4.79148 2.55946 2.13639 2.45408 2.67499 10.2067

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

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

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

CATCH_AT_AGE

fleet 1 fleetarea 1 gmorph 1
Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1975 E 80.0468 87.8272 2823.56 4039.05 1392.7 468.188 171.091 65.4643
28.8959 13.2395 7.05966 3.79774 2.11648 1.1972 0.681696 1.37969
1976 1 76.1605 73.7273 2898.98 2556.25 955.095 287.162 75.3778 55.3143
24.3224 11.0991 5.90679 3.17113 1.76433 0.996462 0.566556 1.14661
1977 1 49.7948 57.1205 1456.77 2793.09 686.269 267.928 88.7513 24.1036
20.0938 9.0397 4.75503 2.53544 1.40155 0.787239 0.445322 0.898264
1978 1 36.7011 42.0677 1257.41 1635.4 938.012 241.169 102.539 34.6663
10.5515 8.91688 4.58987 2.40965 1.31809 0.733351 0.411419 0.822147
1979 1 44.2543 57.3 1561.26 2271.29 947.937 593.711 170.148 75.136 28.703
8.92787 8.653 4.46183 2.40968 1.33018 0.741051 1.45844
1980 1 107.11 43.621 1199.26 1446.46 648.917 324.3 241.541 75.0176 38.6769
15.4073 5.58188 5.46293 2.91959 1.60105 0.889969 1.72872
1981 1 167.034 136.998 1037.65 1046.31 384.221 223.971 141.264 118.98
44.4397 24.4099 11.4702 4.2348 4.32971 2.36592 1.31498 2.53126
1982 1 556.886 4240.48 2578.94 244.51 44.6869 15.4872 8.99884 4.99508
4.31074 1.43867 0.860613 0.373562 0.132127 0.12646 0.0638533 0.122597
1983 1 1127.43 5861.96 1613.68 499.496 62.3344 17.0402 8.63081 6.50065
5.17751 5.50024 2.51061 1.67968 0.843731 0.337638 0.365468 0.685506
1984 1 506.585 4843.35 3078 987.742 442.068 74.8284 24.5583 13.0445 10.758
8.49501 9.80164 4.37946 2.92277 1.4416 0.561494 1.93777
1985 1 288.44 3487.07 3830.71 655.672 204.361 108.909 21.4153 7.37589
4.45033 3.76138 3.38809 3.92544 1.80577 1.21973 0.605166 1.20866
1986 1 169.711 4038.26 2233.63 924.122 210.175 92.5062 64.8481 15.0616
6.41172 4.30759 4.33097 4.1027 5.09975 2.47652 1.75969 3.00484
1987 1 116.542 5582.52 2981.52 394.56 198.696 58.8741 31.6465 24.8644
6.69295 3.06596 2.32801 2.42352 2.41249 3.11512 1.56778 3.32693
1988 1 124.236 5125.86 3557.19 846.805 145.611 95.2652 33.9264 20.3652
18.1401 5.22463 2.63868 2.06902 2.24689 2.31268 3.08241 5.20831
1989 1 41.6401 1502.69 1880.89 330.903 97.6596 23.4931 19.1241 7.49892
4.88235 4.39661 1.33665 0.669525 0.525961 0.56655 0.575248 2.19061
1990 1 8.36669 2577.57 385.199 101.045 13.1795 5.67122 2.14359 2.25746
1.10247 0.763653 0.771788 0.235561 0.120217 0.0946893 0.101514 0.546423
1991 1 5.38614 3346.44 1448.6 29.5983 0.868522 0.0161903 0.00123934
4.88308e-005 9.96116e-006 7.0661e-007 1.99801e-007 7.34555e-008 1.06966e-008
3.51155e-009 2.38195e-009 1.81953e-008

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

1982 1 689.726 1968.04 2671.42 328.351 82.1738 13.1132 3.27465 1.01962
 0.64423 0.193044 0.0917359 0.0315983 0.00832467 0.00638265 0.00207261
 0.00123425
 1983 1 724.964 6717.3 1861.85 441.46 50.4288 15.0512 2.80189 0.889405
 0.342287 0.236465 0.0785458 0.0409535 0.0153574 0.00469525 0.00341523
 0.00206041
 1984 1 525.525 3058.12 2299.56 714.388 204.07 29.7749 10.7106 2.44929
 0.901923 0.368122 0.270016 0.0940347 0.0508215 0.0206355 0.00603715
 0.00762148
 1985 1 346.034 1430.36 4211.74 666.399 118.286 32.1448 5.03307 2.0514
 0.527272 0.201967 0.0863117 0.0657092 0.023535 0.0138912 0.00533071
 0.00386224
 1986 1 146.137 1805.21 2131.88 884.432 122.044 25.4877 8.17853 1.57862
 0.758207 0.210196 0.0872924 0.0400318 0.0324588 0.0127891 0.0073414
 0.00534867
 1987 1 147.463 1766.97 3473.24 479.816 119.439 18.3803 4.33689 1.63566
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 0.309272 0.180411 0.0599085 0.0281215 0.0101468 0.00288281 0.00216174
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 1984 1 751.062 4768.04 2121.16 405.918 93.9213 7.87134 1.37668 0.357005
 0.173882 0.0779963 0.0668395 0.0214906 0.0105609 0.00379978 0.00105731
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 1985 1 435.659 2462.36 1729.7 211.565 37.2074 10.3611 1.11992 0.192694
 0.0694114 0.0335682 0.0225089 0.0187934 0.00636868 0.00313687 0.00111043
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 1986 1 761.15 5490.76 1432.36 393.882 45.9767 9.58995 3.39086 0.35708
 0.084556 0.0301389 0.0216817 0.0141605 0.0124536 0.00423071 0.00205154
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 1987 1 296.617 3565.01 1394.76 126.458 32.5529 4.46687 1.17664 0.403226
 0.0585127 0.0137214 0.00731057 0.00513057 0.00353882 0.00312749 0.00104878
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 1988 1 216.473 3610.85 1658.94 261.291 22.0669 6.42941 1.08508 0.273757
 0.127993 0.018345 0.00640594 0.00333093 0.00246941 0.0017133 0.00149692
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 1989 1 37.2978 433.811 476.013 58.1596 9.03957 1.04391 0.430841 0.0766991
 0.0277425 0.0132149 0.00286849 0.000987829 0.000547459 0.000411187
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 1990 1 278.7 2068.3 265.196 50.22 3.6137 0.781997 0.156019 0.0780235
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 1991 1 60.9024 2708.42 996.503 48.9491 6.17415 0.594907 0.206076 0.0466025
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 1992 1 74.7487 2647.44 840.996 68.7993 3.41188 0.647045 0.0987699 0.0380545
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1993 1 46.981 3537.05 1332.58 112.31 7.86802 0.594811 0.178855 0.0302189
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1994 1 478.704 2778.95 1158.44 117.035 9.49014 0.918787 0.101444 0.0317415
0.00751175 0.0041349 0.00198454 0.00209634 0.000879521 0.000497305
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1995 1 136.716 1280.59 675.977 127.369 23.771 3.90624 0.72412 0.111865
0.0596212 0.0167939 0.0149326 0.00762937 0.0091867 0.00418241 0.00252604
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0.0462828 0.0246181 0.00936202 0.00809611 0.00428092 0.0051205 0.00227864
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0.0930008 0.0187606 0.0134556 0.00498577 0.00447429 0.00235731 0.0027655
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1999 1 0.584176 170.215 1459.02 786.137 239.453 28.3661 2.26759 0.299482
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2001 1 9.49328 539.375 1401.18 1062.38 330.669 82.4587 24.6906 2.97391
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0.871459 0.0766378 0.0157943 0.00610416 0.00222157 0.000741241 0.000195004
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2004 1 8.44042 142.365 1302.95 911.203 352.196 111.954 51.0931 13.7009
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5.94481 1.6594 0.698216 0.123685 0.0143081 0.00290184 0.00111489 0.00161816
2006 1 0.471602 43.4824 1384.38 800.161 400.369 137.844 49.3668 15.3083
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6.47296 3.17008 1.30893 0.46817 0.195946 0.0354196 0.00395913 0.0026968
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Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
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2007 1 0.515976 3.96194 134.799 585.198 275.63 148.047 49.5671 16.9695
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2008 1 153.03 377.385 840.926 522.619 416.037 106.014 41.2209 11.5069 3.9442
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fleet 6 fleetarea 1 gmorph 1
Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
1975 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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 1.86114e-008 1.03984e-008 1.52283e-008
 2006 1 32.8579 258.241 281.951 2.10446 0.002143 2.24686e-005 1.32969e-005
 8.09327e-006 6.97445e-006 3.8993e-006 1.98002e-006 1.14954e-006 2.92627e-007
 4.74274e-008 1.36599e-008 1.88805e-008
 2007 1 63.0997 466.227 286.209 6.62424 0.00400021 5.4064e-005 3.25194e-005
 2.11751e-005 1.33787e-005 1.17538e-005 6.64808e-006 3.39461e-006 1.97987e-006
 5.0575e-007 8.22074e-008 5.65005e-008
 2008 1 380.152 298.419 0.032768 0.00145816 0.00191892 0.000838294 0.00066694
 0.000437661 0.000294616 0.000189529 0.00016837 9.57879e-005 4.91526e-005
 2.87815e-005 7.37779e-006 2.02666e-006
 fleet 6 fleetarea 1 gmorph 2
 Year Seas 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 1975 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 1976 1 33.2819 599.454 2.15211 0.00202294 5.16666e-005 1.33679e-005
 2.79039e-006 1.58716e-006 4.79241e-007 1.48268e-007 4.71361e-008 1.54124e-008
 5.19489e-009 1.78444e-009 6.21909e-010 3.42967e-010
 1977 1 29.4064 632.536 1.54332 0.00279751 4.1276e-005 1.44428e-005 3.93971e-
 006 8.86979e-007 5.3329e-007 1.66936e-007 5.35551e-008 1.7603e-008 5.94678e-
 009 2.04746e-009 7.1195e-010 3.92784e-010
 1978 1 30.5174 660.61 1.88949 0.00232168 6.89122e-005 1.48228e-005 5.5432e-
 006 1.63754e-006 3.8928e-007 2.42327e-007 7.84708e-008 2.59537e-008 8.7844e-
 009 3.02059e-009 1.05218e-009 5.77119e-010
 1979 1 26.9542 676.652 1.82306 0.00247969 4.7954e-005 2.1461e-005 5.06638e-
 006 2.09777e-006 6.61589e-007 1.6433e-007 1.06659e-007 3.58582e-008 1.22973e-
 008 4.23458e-009 1.48327e-009 8.12641e-010
 1980 1 82.3248 671.523 1.90714 0.00223408 4.47342e-005 1.20719e-005
 6.13499e-006 1.68712e-006 7.72529e-007 2.59841e-007 6.86517e-008 4.70787e-008
 1.66816e-008 5.88894e-009 2.07496e-009 1.15511e-009
 1981 1 44.7759 741.17 0.643933 0.000696745 1.06676e-005 2.87001e-006
 8.95884e-007 5.51535e-007 1.72633e-007 8.55308e-008 3.10627e-008 8.78983e-009
 6.43828e-009 2.36798e-009 8.60014e-010 4.8782e-010
 1982 1 98.1375 613.43 1.11923 0.000429858 7.37849e-006 1.31987e-006 4.0081e-
 007 1.49454e-007 1.0454e-007 3.52331e-008 1.87851e-008 7.2791e-009 2.18825e-
 009 1.68197e-009 6.26411e-010 3.73029e-010
 1983 1 87.6655 811.554 1.21768 0.000982812 7.64272e-006 2.45685e-006
 5.13585e-007 1.79898e-007 7.3032e-008 5.35947e-008 1.88628e-008 1.04237e-008
 4.16814e-009 1.27592e-009 9.91095e-010 5.97927e-010
 1984 1 108.662 887.935 1.09884 0.000728074 1.16145e-005 1.70189e-006
 6.43708e-007 1.56643e-007 5.99757e-008 2.56786e-008 1.97768e-008 7.25231e-009
 4.16133e-009 1.69171e-009 5.27568e-010 6.66017e-010
 1985 1 22.2603 197.42 0.555379 0.000250822 2.85631e-006 8.17309e-007
 1.41425e-007 6.33534e-008 1.71843e-008 7.00815e-009 3.18504e-009 2.58274e-009
 9.93224e-010 5.87053e-010 2.4259e-010 1.75763e-010
 1986 1 91.8579 1314.8 1.56618 0.00145532 1.23454e-005 2.62282e-006 8.86007e-
 007 1.80315e-007 8.93504e-008 2.57061e-008 1.10767e-008 5.27795e-009 4.4704e-
 009 1.76293e-009 1.05949e-009 7.71902e-010

1987 1 59.4852 1190.01 1.75098 0.000756648 1.18611e-005 1.86923e-006
4.64542e-007 1.83823e-007 4.13578e-008 2.16544e-008 6.56285e-009 2.95659e-009
1.46723e-009 1.2769e-009 5.09763e-010 5.42518e-010
1988 1 36.88 780.307 1.57507 0.00077571 6.64549e-006 1.92442e-006 3.52264e-
007 1.00451e-007 4.31731e-008 1.02108e-008 5.59794e-009 1.76498e-009
8.24669e-010 4.17359e-010 3.68825e-010 3.09291e-010
1989 1 8.19198 98.5828 0.400378 0.000217027 1.55343e-006 2.39608e-007
8.20154e-008 1.83955e-008 5.99253e-009 2.81525e-009 7.25654e-010 4.30197e-010
1.46387e-010 7.03958e-011 3.72734e-011 6.20863e-011
1990 1 38.3048 532.296 0.336595 0.000387257 2.79498e-006 2.40249e-007
3.85586e-008 1.57872e-008 4.26837e-009 1.58853e-009 8.60199e-010 2.53196e-010
1.70748e-010 6.33669e-011 3.17831e-011 4.85107e-011
1991 1 10.6478 1064.95 1.17046 0.000293613 5.55586e-006 5.4111e-007
5.09597e-008 9.76912e-009 4.72498e-009 1.43937e-009 6.06398e-010 3.68117e-010
1.20894e-010 8.74057e-011 3.36862e-011 4.54081e-011
1992 1 8.94671 840.058 0.985305 0.000304283 1.20638e-006 4.02383e-007
4.96873e-008 6.06609e-009 1.39517e-009 7.61713e-010 2.62099e-010 1.23346e-010
8.32129e-011 2.89871e-011 2.1877e-011 2.0833e-011
1993 1 19.6278 2203.27 2.76294 0.000931405 4.86111e-006 3.05793e-007
1.24127e-007 2.03335e-008 3.01475e-009 7.84149e-010 4.84459e-010 1.86205e-010
9.71739e-011 7.02063e-011 2.5229e-011 3.94684e-011
1994 1 183.706 1503.39 2.50306 0.00102274 6.68138e-006 6.34353e-007
4.86679e-008 2.51625e-008 4.86098e-009 7.95869e-010 2.28225e-010 1.53617e-010
6.39009e-011 3.49797e-011 2.59642e-011 2.49163e-011
1995 1 132.725 489.495 193.098 16.1731 0.21433 0.0037955 1.55037e-005
7.7944e-008 9.71834e-009 4.7773e-010 3.99747e-011 1.02285e-011 7.22632e-012
3.13074e-012 1.77234e-012 2.67044e-012
1996 1 52.724 398.101 219.149 16.9981 0.203541 0.00271737 1.35058e-005
9.67578e-008 2.17244e-009 3.35165e-010 3.6519e-011 5.8764e-012 1.93263e-012
1.49828e-012 6.62811e-013 9.96372e-013
1997 1 12.3796 171.231 273.686 34.6535 0.378408 0.0047413 1.73418e-005
1.42316e-007 4.29272e-009 1.15339e-010 3.80986e-011 7.73149e-012 1.55128e-012
5.47576e-013 4.30253e-013 4.95106e-013
1998 1 0.815497 82.6638 349.615 114.286 1.96646 0.0214959 7.32724e-005
4.35377e-007 1.47142e-008 5.24799e-010 2.97924e-011 1.81144e-011 4.53587e-012
9.6581e-013 3.45906e-013 6.01561e-013
1999 1 28.1721 51.4712 353.777 92.6115 4.23991 0.0738148 0.000217734
1.19661e-006 2.91512e-008 1.15825e-009 8.68312e-011 9.02707e-012 6.73551e-012
1.79175e-012 3.84691e-013 3.88816e-013
2000 1 0.921085 72.3648 491.192 127.948 5.03642 0.240688 0.00114007
5.36378e-006 1.19705e-007 3.40399e-009 2.81638e-010 3.83243e-011 4.84812e-012
3.807e-012 1.02144e-012 4.50355e-013
2001 1 5.01931 269.856 475.754 179.408 7.18043 0.304899 0.00395014 2.97887e-
005 5.66021e-007 1.46798e-008 8.66252e-010 1.2963e-010 2.13757e-011 2.84788e-
012 2.24462e-012 8.8666e-013
2002 1 36.0617 118.721 348.95 88.5191 5.44161 0.246615 0.00285642 5.83818e-
005 1.76001e-006 3.86319e-008 2.0641e-009 2.18799e-010 3.94181e-011 6.79648e-
012 9.09136e-013 1.01474e-012
2003 1 20.4978 234.326 358.478 104.336 4.22998 0.292509 0.00362105 6.64563e-
005 5.44082e-006 1.89771e-007 8.59554e-009 8.26158e-010 1.05589e-010 1.9905e-
011 3.44855e-012 9.91381e-013
2004 1 43.6091 99.6482 523.54 157.209 7.25 0.32563 0.00612946 0.000120002
8.8116e-006 8.3535e-007 6.02008e-008 4.91222e-009 5.70147e-010 7.6326e-011
1.44684e-011 3.28121e-012
2005 1 86.1916 495.738 282.821 118.048 5.39782 0.274328 0.00332456 9.86435e-
005 7.72026e-006 6.55086e-007 1.28054e-007 1.65964e-008 1.63314e-009
1.98739e-010 2.67035e-011 6.31962e-012

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

BIOLOGY 2 55 15 1 N_Used_morphs;_lengths;_ages;_season;_by_season_in_endyr
bin low Mean_Size Wt_len-F mat_len spawn Wt_len-M

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

46 70 70.5 3.74255 1 3.74255 3.74255
47 71 71.5 3.9232 1 3.9232 3.9232
48 72 72.5 4.10988 1 4.10988 4.10988
49 73 73.5 4.30271 1 4.30271 4.30271
50 74 74.5 4.50178 1 4.50178 4.50178
51 75 75.5 4.70723 1 4.70723 4.70723
52 76 76.5 4.91917 1 4.91917 4.91917
53 77 77.5 5.13771 1 5.13771 5.13771
54 78 78.5 5.36296 1 5.36296 5.36296
55 79 79.5 5.59506 1 5.59506 5.59506

Growth_Parameters

Count Yr Morph A1 A2 L-at-A1 L-at-A2 K A-at-L0 Linf CVmin CVmax natM_amin
natM_max M_young M_old
1 1976 1 0 0 0 0 0 0 0 0 0 2 0.287429 0.287429
2 1976 2 0 0 0 0 0 0 0 0 2 0.540621 0.540621
3 1976 1 0.5 6 29.61 62.12 0.200667 -1.86932 78.2523 0.001 0.001 0 2
0.287429 0.287429
4 1976 2 0.5 6 28.8967 53.195 0.213497 -2.30928 64.0635 0.001 0.001 0 2
0.540621 0.540621

Season gmorph GrowPattern Sex BirthSeas age age_Beg age_Mid M Len_Beg Len_Mid
SD_Beg SD_Mid Wt_Beg Wt_Mid Len_Mat Age_Mat Mat*Fecund Len:_1 SelWt:_1
RetWt:_1 Len:_2 SelWt:_2 RetWt:_2 Len:_3 SelWt:_3 RetWt:_3 Len:_4 SelWt:_4
RetWt:_4 Len:_5 SelWt:_5 RetWt:_5 Len:_6 SelWt:_6 RetWt:_6 Len:_7 SelWt:_7
RetWt:_7 Len:_8 SelWt:_8 RetWt:_8 Len:_9 SelWt:_9 RetWt:_9
1 1 1 1 1 0 0 0.5 0.287429 25 29.61 0.025 0.02961 0.12445 0.202673 1 0.38
0.0472911 29.5 0.202673 0.202673 29.5 0.202673 0.202673 29.5 0.202673
0.202673 29.5 0.202673 0.202673 29.5 0.202673 0.202673 29.5 0.202673 0.202673
29.5 0.202673 0.202673 29.5 0.202673 29.5 0.202673 29.5 0.202673
1 1 1 1 1 1 1 1.5 0.287429 34.2536 38.4539 0.0342536 0.0384539 0.342277
0.494119 1 0.91 0.311472 38.5 0.494119 0.494119 38.5 0.494119 0.494119 38.5
0.494119 0.494119 38.5 0.494119 0.494119 38.5 0.494119 0.494119 38.5 0.494119
0.494119 38.5 0.494119 0.494119 38.5 0.494119 0.494119 38.5 0.494119 0.494119
1 1 1 1 1 2 2 2.5 0.287429 42.2533 45.6899 0.0422533 0.0456899 0.687876
0.86428 1 0.98 0.674118 45.5 0.86428 0.86428 45.5 0.86428 0.86428 45.5
0.86428 0.86428 45.5 0.86428 0.86428 45.5 0.86428 0.86428 45.5 0.86428
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1 1 1 1 1 3 3 3.5 0.287429 48.7984 51.6102 0.0487984 0.0516102 1.0702 1.3083
1 1 1.0702 51.5 1.3083 1.3083 51.5 1.3083 1.3083 51.5 1.3083 1.3083 51.5
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1 1 1 1 1 4 4 4.5 0.287429 54.1536 56.4542 0.0541536 0.0564542 1.58105
1.78398 1 1 1.58105 56.5 1.78398 1.78398 56.5 1.78398 1.78398 56.5 1.78398
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1 1 1 1 1 5 5 5.5 0.287429 58.5351 60.4174 0.0585351 0.0604174 2.00426
2.24294 1 1 2.00426 60.5 2.24294 2.24294 60.5 2.24294 2.24294 60.5 2.24294
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1 1 1 1 1 6 6 6.5 0.287429 62.12 63.6601 0.06212 0.0636601 2.49737 2.63734 1
1 2.49737 63.5 2.63734 2.63734 63.5 2.63734 2.63734 63.5 2.63734 2.63734 63.5
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1 1 1 1 1 7 7 7.5 0.287429 65.0531 66.3132 0.0650531 0.0663132 2.89535
3.07797 1 1 2.89535 66.5 3.07797 3.07797 66.5 3.07797 3.07797 66.5 3.07797

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1 1 1 1 1 8 8 8.5 0.287429 67.4529 68.4839 0.0674529 0.0684839 3.23564
3.39888 1 1 3.23564 68.5 3.39888 3.39888 68.5 3.39888 3.39888 68.5 3.39888
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1 1 1 1 1 9 9 9.5 0.287429 69.4164 70.2599 0.0694164 0.0702599 3.56782
3.74253 1 1 3.56782 70.4999 3.74253 3.74253 70.4998 3.74252 3.74252 70.4999
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3.74253 3.74253 70.4999 3.74253 3.74253 70.4999 3.74253 3.74253 70.4999
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1 1 1 1 1 10 10 10.5 0.287429 71.0229 71.7131 0.0710229 0.0717131 3.85572
3.92321 1 1 3.85572 71.5 3.92321 3.92321 71.5 3.92321 3.92321 71.5 3.92321
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1 1 1 1 1 11 11 11.5 0.287429 72.3373 72.902 0.0723373 0.072902 4.10988
4.12712 1 1 4.10988 72.5787 4.12505 4.12505 72.5523 4.11996 4.11996 72.5888
4.127 4.127 72.5893 4.1271 4.1271 72.5595 4.12136 4.12136 72.5894 4.12712
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1 1 1 1 1 12 12 12.5 0.287429 73.4127 73.8747 0.0734127 0.0738747 4.30271
4.31166 1 1 4.30271 73.5391 4.31049 4.31049 73.5253 4.30773 4.30773 73.5449
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1 1 1 1 1 13 13 13.5 0.287429 74.2926 74.6707 0.0742926 0.0746707 4.50177
4.50178 1 1 4.50177 74.5 4.50178 4.50178 74.5 4.50178 4.50178 74.5 4.50178
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1 1 1 1 1 14 14 14.5 0.287429 75.0126 75.3218 0.0750126 0.0753218 4.61818
4.70723 1 1 4.61818 75.5 4.70723 4.70723 75.5 4.70723 4.70723 75.5 4.70723
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1 1 1 1 1 15 15 15.5 0.287429 75.6016 75.8546 0.0756016 0.0758546 4.70723
4.7131 1 1 4.70723 75.5237 4.71225 4.71225 75.5148 4.71036 4.71036 75.5277
4.71309 4.71309 75.5276 4.71309 4.71309 75.5172 4.71088 4.71088 75.5277
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1 2 1 2 1 0 0 0.5 0.540621 25 28.8967 0.025 0.0288967 0.12445 0.180583 1 -1 0
28.5002 0.180583 0.180583 28.5003 0.180586 0.180586 28.5004 0.180588 0.180588
28.5002 0.180583 0.180583 28.5003 0.180585 0.180585 28.5002 0.180584 0.180584
28.5002 0.180583 0.180583 28.5002 0.180583 0.180583 28.5002 0.180583 0.180583
1 2 1 2 1 1 1 1.5 0.540621 32.4573 35.6573 0.0324573 0.0356573 0.280267
0.376627 1 -1 0 35.5 0.376627 0.376627 35.5 0.376627 0.376627 35.5 0.376627
0.376627 35.5 0.376627 0.376627 35.5 0.376627 0.376627 35.5 0.376627 0.376627
35.5 0.376627 0.376627 35.5 0.376627 0.376627 35.5 0.376627 0.376627
1 2 1 2 1 2 2 2.5 0.540621 38.5334 41.1183 0.0385334 0.0411183 0.494119
0.635084 1 -1 0 41.4989 0.635132 0.635132 41.4982 0.635095 0.635095 41.4975
0.635058 0.635058 41.4981 0.635088 0.635088 41.4981 0.635091 0.635091 41.4936
0.634866 0.634866 41.498 0.635084 0.635084 41.498 0.635084 0.635084 41.498
0.635084 0.635084
1 2 1 2 1 3 3 3.5 0.540621 43.4414 45.5294 0.0434414 0.0455294 0.743558
0.86428 1 -1 0 45.5 0.86428 0.86428 45.5 0.86428 0.86428 45.5 0.86428 0.86428
45.5 0.86428 0.86428 45.5 0.86428 0.86428 45.5 0.86428 0.86428 45.5 0.86428
0.86428 45.5 0.86428 0.86428 45.5 0.86428 0.86428
1 2 1 2 1 4 4 4.5 0.540621 47.4059 49.0925 0.0474059 0.0490925 0.99812
1.14361 1 -1 0 49.474 1.14389 1.14389 49.4681 1.14345 1.14345 49.4559 1.14253

1.14253 49.4702 1.14361 1.14361 49.4678 1.14342 1.14342 49.4687 1.14349
1.14349 49.4702 1.14361 1.14361 49.4702 1.14361 1.14361 49.4702 1.14361
1.14361
1 2 1 2 1 5 5 5.5 0.540621 50.6083 51.9706 0.0506083 0.0519706 1.22519
1.33315 1 -1 0 51.7853 1.33312 1.33312 51.7594 1.33086 1.33086 51.6996
1.32565 1.32565 51.7858 1.33315 1.33315 51.7608 1.33098 1.33098 51.7856
1.33314 1.33314 51.7858 1.33315 1.33315 51.7858 1.33315 1.33315 51.7858
1.33315 1.33315
1 2 1 2 1 6 6 6.5 0.540621 53.195 54.2954 0.053195 0.0542954 1.48622 1.58127
1 -1 0 54.5 1.58127 1.58127 54.5 1.58127 1.58127 54.5 1.58127 1.58127 54.5
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1 2 1 2 1 7 7 7.5 0.540621 55.2844 56.1733 0.0552844 0.0561733 1.68048
1.78388 1 -1 0 56.499 1.78388 1.78388 56.4987 1.78385 1.78385 56.4982 1.7838
1.7838 56.4894 1.78289 1.78289 56.4988 1.78386 1.78386 56.499 1.78388 1.78388
56.499 1.78388 1.78388 56.499 1.78388 1.78388 56.499 1.78388 1.78388
1 2 1 2 1 8 8 8.5 0.540621 56.9722 57.6901 0.0569722 0.0576901 1.8177 1.89188
1 -1 0 57.5 1.89188 1.89188 57.5 1.89188 1.89188 57.5 1.89188 1.89188 57.5
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1 2 1 2 1 9 9 9.5 0.540621 58.3354 58.9154 0.0583354 0.0589154 2.00426
2.01309 1 -1 0 58.5722 2.01271 2.01271 58.5581 2.01106 2.01106 58.5418
2.00915 2.00915 58.5292 2.00768 2.00768 58.5609 2.01139 2.01139 58.5755
2.01309 2.01309 58.5755 2.01309 2.01309 58.5755 2.01309 2.01309 58.5755
2.01309 2.01309
1 2 1 2 1 10 10 10.5 0.540621 59.4366 59.9051 0.0594366 0.0599051 2.12125
2.12813 1 -1 0 59.5537 2.12779 2.12779 59.5425 2.12642 2.12642 59.5304
2.12495 2.12495 59.5413 2.12627 2.12627 59.5448 2.1267 2.1267 59.5566 2.12813
2.12813 59.5566 2.12813 2.12813 59.5566 2.12813 2.12813 59.5566 2.12813
2.12813
1 2 1 2 1 11 11 11.5 0.540621 60.3261 60.7045 0.0603261 0.0607045 2.24294
2.24294 1 -1 0 60.5 2.24294 2.24294 60.5 2.24294 2.24294 60.5 2.24294 2.24294
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2.24294 60.5 2.24294 2.24294 60.5 2.24294 2.24294
1 2 1 2 1 12 12 12.5 0.540621 61.0446 61.3503 0.0610446 0.0613503 2.34005
2.36945 1 -1 0 61.5 2.36945 2.36945 61.5 2.36945 2.36945 61.5 2.36945 2.36945
61.5 2.36945 2.36945 61.5 2.36945 2.36945 61.5 2.36945 2.36945 61.5 2.36945
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1 2 1 2 1 13 13 13.5 0.540621 61.625 61.8719 0.061625 0.0618719 2.36945
2.37197 1 -1 0 61.518 2.37181 2.37181 61.5137 2.37125 2.37125 61.5098 2.37074
2.37074 61.5182 2.37184 2.37184 61.5147 2.37138 2.37138 61.5192 2.37197
2.37197 61.5192 2.37197 2.37197 61.5192 2.37197 2.37197 61.5192 2.37197
2.37197
1 2 1 2 1 14 14 14.5 0.540621 62.0938 62.2932 0.0620938 0.0622932 2.49228
2.50088 1 -1 0 62.5 2.50088 2.50088 62.5 2.50088 2.50088 62.5 2.50088 2.50088
62.5 2.50088 2.50088 62.5 2.50088 2.50088 62.5 2.50088 2.50088 62.5 2.50088
2.50088 62.5 2.50088 2.50088 62.5 2.50088 2.50088
1 2 1 2 1 15 15 15.5 0.540621 62.4725 62.6336 0.0624725 0.0626336 2.50088
2.50088 1 -1 0 62.5 2.50088 2.50088 62.5 2.50088 2.50088 62.5 2.50088 2.50088
62.5 2.50088 2.50088 62.5 2.50088 2.50088 62.5 2.50088 2.50088 62.5 2.50088
2.50088 62.5 2.50088 2.50088 62.5 2.50088 2.50088

MEAN_BODY_WT(begin)

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

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

MEAN_SIZE_TIMESERIES

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

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

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

mean_size_Jan_1_for_gender: 1

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

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

mean_size_Jan_1_for_gender: 2

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

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

AGE_LENGTH_KEY
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sdwithin 1
sdbetween 1e-006

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

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2.78116e-132
72 0 0 0 0 0 0 0 0 0 0 3.15074e-005 0.910605 1.23412e-032 3.8891e-111
6.73625e-209 3.5943e-310
71 0 0 0 0 0 0 0 0 0 0 0.999968 1.90069e-035 2.4841e-142 2.17405e-280 0 0
70 0 0 0 0 0 0 0 0 0 0.999892 1.37735e-023 2.66169e-150 0 0 0 0
69 0 0 0 0 0 0 0 0 2.43139e-014 0.0001081 2.27033e-126 0 0 0 0 0
68 0 0 0 0 0 0 0 1 3.52652e-072 1.96337e-313 0 0 0 0 0
67 0 0 0 0 0 0 0 0 8.05867e-013 3.09817e-227 0 0 0 0 0 0
66 0 0 0 0 0 0 0 0 0.999999 2.26793e-104 0 0 0 0 0 0
65 0 0 0 0 0 0 0 1.1673e-006 2.84184e-288 0 0 0 0 0 0
64 0 0 0 0 0 4.65912e-008 1.53469e-087 0 0 0 0 0 0 0
63 0 0 0 0 0 1 7.95851e-267 0 0 0 0 0 0 0
62 0 0 0 0 0 1.76185e-025 0 0 0 0 0 0 0
61 0 0 0 0 0 3.70519e-150 0 0 0 0 0 0 0
60 0 0 0 0 1 0 0 0 0 0 0 0 0 0
59 0 0 0 0 2.46157e-012 0 0 0 0 0 0 0 0
58 0 0 0 0 5.72053e-122 0 0 0 0 0 0 0 0
57 0 0 0 0 0 0 0 0 0 0 0 0 0
56 0 0 0 1 0 0 0 0 0 0 0 0 0
55 0 0 0 4.3608e-016 0 0 0 0 0 0 0 0 0
54 0 0 0 1.44262e-146 0 0 0 0 0 0 0 0 0
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37 0 1.90961e-032 0 0 0 0 0 0 0 0 0 0
36 0 4.61743e-313 0 0 0 0 0 0 0 0 0 0
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29 1 0 0 0 0 0 0 0 0 0 0 0
28 1.45166e-094 0 0 0 0 0 0 0 0 0 0 0
27 0 0 0 0 0 0 0 0 0 0 0 0
26 0 0 0 0 0 0 0 0 0 0 0 0
25 0 0 0 0 0 0 0 0 0 0 0 0
mean 29.61 38.4539 45.6899 51.6102 56.4542 60.4174 63.6601 66.3132 68.4839
70.2599 71.7131 72.902 73.8747 74.6707 75.3218 75.8546
sdszize 0.02961 0.0384539 0.0456899 0.0516102 0.0564542 0.0604174 0.0636601
0.0663132 0.0684839 0.0702599 0.0717131 0.072902 0.0738747 0.0746707
0.0753218 0.0758546

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SEASON: 1 MORPH: 2
Age: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
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77 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
76 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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62 0 0 0 0 0 0 0 0 0 0 0 0 0 0.0192031 0.999999 1
61 0 0 0 0 0 0 0 0 0 0 0 5.66625e-007 1 0.980797 1.25723e-006 2.41036e-024
60 0 0 0 0 0 0 0 0 0 0 0.0565738 0.999999 5.6779e-009 2.22172e-045 5.36366e-
096 3.31475e-150
59 0 0 0 0 0 0 0 0 0 0.075493 0.943426 1.9761e-031 1.27542e-107 2.58835e-201
6.52616e-297 0
58 0 0 0 0 0 0 0 0 3.92182e-008 0.924507 7.43177e-052 9.86104e-174 2.49503e-
321 0 0 0
57 0 0 0 0 0 0 0 0 1 1.0189e-054 3.46612e-222 0 0 0 0 0
56 0 0 0 0 0 0 0 0.998981 2.86503e-033 4.26688e-232 0 0 0 0 0
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54 0 0 0 0 0 0 1 3.83098e-097 0 0 0 0 0 0 0
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51 0 0 0 0 0.714217 0 0 0 0 0 0 0 0 0
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48 0 0 0 0.0297847 0 0 0 0 0 0 0 0 0 0
47 0 0 0 5.67649e-110 0 0 0 0 0 0 0 0 0 0
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45 0 0 0 1 0 0 0 0 0 0 0 0 0 0
44 0 0 0 1.53722e-031 0 0 0 0 0 0 0 0 0 0
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42 0 0 0 0 0 0 0 0 0 0 0 0 0 0
41 0 0 0.99799 0 0 0 0 0 0 0 0 0 0 0
40 0 0 0.00201011 0 0 0 0 0 0 0 0 0 0 0
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38 0 0 0 0 0 0 0 0 0 0 0 0 0 0
37 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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35 0 1 0 0 0 0 0 0 0 0 0 0 0 0
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25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
mean 28.8967 35.6573 41.1183 45.5294 49.0925 51.9706 54.2954 56.1733 57.6901
58.9154 59.9051 60.7045 61.3503 61.8719 62.2932 62.6336
sds size 0.0288967 0.0356573 0.0411183 0.0455294 0.0490925 0.0519706 0.0542954
0.0561733 0.0576901 0.0589154 0.0599051 0.0607045 0.0613503 0.0618719
0.0622932 0.0626336

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AGE_AGE_KEY

KEY: 1

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0.001 0.001 0.001 0.001
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10 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0
9 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
8 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
7 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
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Composition_Database

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year season fleet rep pick_gender kind mkt ageerr gender Lbin_lo Lbin_hi bin
obs exp Pearson N effN Like Used
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47.7287 -8.65474e-005 1
1976 1 8 1 3 AGE 0 1 1 1 55 1 0.0279566 0.0967632 -3.29146 200 47.7287 -
6.94226 1
1976 1 8 1 3 AGE 0 1 1 1 55 2 0.225453 0.261708 -1.16643 200 47.7287 -6.72377
1
1976 1 8 1 3 AGE 0 1 1 1 55 3 0.147989 0.0967934 2.44869 200 47.7287 12.5661
1
1976 1 8 1 3 AGE 0 1 1 1 55 4 0.0505773 0.0363929 1.0712 200 47.7287 3.3293 1
1976 1 8 1 3 AGE 0 1 1 1 55 5 0.0212131 0.0118256 1.2281 200 47.7287 2.47918
1
1976 1 8 1 3 AGE 0 1 1 1 55 6 0.00608188 0.00340305 0.650527 200 47.7287
0.706277 1

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0.0509399 1
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-0.0370478 1
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-0.0250501 1
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4.81153 1
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1.27777 1
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9 2008 L 1 49 1
9 2008 L 1 50 1
9 2008 L 1 51 1
9 2008 L 1 52 1
9 2008 L 1 53 1
9 2008 L 1 54 1
9 2008 L 1 55 1
9 2008 L 1 56 1
9 2008 L 1 57 1
9 2008 L 1 58 1
9 2008 L 1 59 1
9 2008 L 1 60 1
9 2008 L 1 61 1

9 2008 L 1 62 1
9 2008 L 1 63 1
9 2008 L 1 64 1
9 2008 L 1 65 1
9 2008 L 1 66 1
9 2008 L 1 67 1
9 2008 L 1 68 1
9 2008 L 1 69 1
9 2008 L 1 70 1
9 2008 L 1 71 1
9 2008 L 1 72 1
9 2008 L 1 73 1
9 2008 L 1 74 1
9 2008 L 1 75 1
9 2008 L 1 76 1
9 2008 L 1 77 1
9 2008 L 1 78 1
9 2008 L 1 79 1
9 2008 L 2 25 1
9 2008 L 2 26 1
9 2008 L 2 27 1
9 2008 L 2 28 1
9 2008 L 2 29 1
9 2008 L 2 30 1
9 2008 L 2 31 1
9 2008 L 2 32 1
9 2008 L 2 33 1
9 2008 L 2 34 1
9 2008 L 2 35 1
9 2008 L 2 36 1
9 2008 L 2 37 1
9 2008 L 2 38 1
9 2008 L 2 39 1
9 2008 L 2 40 1
9 2008 L 2 41 1
9 2008 L 2 42 1
9 2008 L 2 43 1
9 2008 L 2 44 1
9 2008 L 2 45 1
9 2008 L 2 46 1
9 2008 L 2 47 1
9 2008 L 2 48 1
9 2008 L 2 49 1
9 2008 L 2 50 1
9 2008 L 2 51 1
9 2008 L 2 52 1
9 2008 L 2 53 1
9 2008 L 2 54 1
9 2008 L 2 55 1
9 2008 L 2 56 1
9 2008 L 2 57 1
9 2008 L 2 58 1
9 2008 L 2 59 1
9 2008 L 2 60 1
9 2008 L 2 61 1
9 2008 L 2 62 1
9 2008 L 2 63 1

9 2008 L 2 64 1
9 2008 L 2 65 1
9 2008 L 2 66 1
9 2008 L 2 67 1
9 2008 L 2 68 1
9 2008 L 2 69 1
9 2008 L 2 70 1
9 2008 L 2 71 1
9 2008 L 2 72 1
9 2008 L 2 73 1
9 2008 L 2 74 1
9 2008 L 2 75 1
9 2008 L 2 76 1
9 2008 L 2 77 1
9 2008 L 2 78 1
9 2008 L 2 79 1

ASAP FINAL TERMINAL YEAR 2006 RUN (F08 FINAL T2006.REP)

Age Structured Assessment Program (ASAP) Version 2.0
Start time for run: Tue Apr 22 14:04:08 2008

obj_fun = 4129.13

Component	Lambda	obj_fun
__Catch_Fleet_1	10	2021.06
__Catch_Fleet_2	10	1350
Catch_Fleet_Total	20	3371.06
Discard_Fleet_Total	0	0
__Index_Fit_1	1	62.4538
__Index_Fit_2	1	41.8752
__Index_Fit_3	1	29.8409
__Index_Fit_4	1	28.0347
__Index_Fit_5	1	4.29183
__Index_Fit_6	1	17.9629
__Index_Fit_7	1	4.6618
__Index_Fit_8	1	-6.56081
__Index_Fit_9	1	-50.6321
__Index_Fit_10	1	-35.3013
__Index_Fit_11	1	11.0003
__Index_Fit_12	1	-6.62937
__Index_Fit_13	1	-36.7012
__Index_Fit_14	1	28.4984
__Index_Fit_15	1	-14.2225
__Index_Fit_16	1	11.9055
__Index_Fit_17	1	-21.0681
__Index_Fit_18	1	-5.35967
__Index_Fit_19	1	-33.838
__Index_Fit_20	1	-46.6582
__Index_Fit_21	1	15.7057
__Index_Fit_22	1	-0.124791
__Index_Fit_23	1	-36.9599
__Index_Fit_24	1	-52.4357
__Index_Fit_25	1	9.62513
__Index_Fit_26	1	-12.6381
__Index_Fit_27	1	1.78529
__Index_Fit_28	1	10.0115
__Index_Fit_29	1	42.0813
__Index_Fit_30	1	29.3935
__Index_Fit_31	1	-4.67064
__Index_Fit_32	1	-10.4854
__Index_Fit_33	1	-21.3929
__Index_Fit_34	1	21.0149
__Index_Fit_35	1	74.6825
__Index_Fit_36	1	19.6284
__Index_Fit_37	1	-1.9789
__Index_Fit_38	1	-4.88607
__Index_Fit_39	1	-32.1625
Index_Fit_Total	39	29.7474
Catch_Age_Comps	see_below	643.015
Discard_Age_Comps	see_below	0
Survey_Age_Comps	see_below	0
__Sel_Param_1	1	0.867088

__Sel_Param_2	1	3.65536
__Sel_Param_3	1	1.13592
__Sel_Param_4	1	2.72343
__Sel_Param_5	1	0.934309
__Sel_Param_6	1	4.19713
__Sel_Param_7	1	1.65259
__Sel_Param_8	1	3.72219
__Sel_Param_9	1	1.22391
__Sel_Param_10	1	3.43685
__Sel_Param_11	1	1.35292
__Sel_Param_12	1	0.207853
Sel_Params_Total	12	25.1096
Index_Sel_Params_Total	0	0
q_year1_Total	0	0
q_devs_Total	390000	0
__Fmult_year1_fleet_1	1	0.609516
__Fmult_year1_fleet_2	1	0.783656
Fmult_year1_fleet_Total	2	1.39317
Fmult_devs_fleet_Total	0	0
N_year_1	1	58.6486
Recruit_devs	0	0
SRR_steepness	0.01	0.0040846
SRR_unexpl_stock	0.01	0.149231
Fmult_Max_penalty	1000	0
F_penalty	0	0

Input and Estimated effective sample sizes for fleet 1

1982	200	27.7271
1983	200	30.8431
1984	200	90.0871
1985	200	331.302
1986	200	114.463
1987	200	164.466
1988	200	397.268
1989	200	163.779
1990	200	134.133
1991	200	21.4239
1992	200	196.706
1993	200	107.51
1994	200	115.255
1995	200	172.335
1996	200	34.3169
1997	200	119.736
1998	200	220.678
1999	200	54.8965
2000	200	190.279
2001	200	177.764
2002	200	92.9021
2003	200	504.807
2004	200	230.483
2005	200	349.825
2006	200	180.447

Total 5000 4223.43

Input and Estimated effective sample sizes for fleet 2

1982	90	498.805
1983	90	57.8055
1984	90	57.5958

1985	90	37.0952
1986	90	14.8764
1987	90	22.4456
1988	90	163.255
1989	90	90.3434
1990	90	26.1162
1991	90	456.218
1992	90	13.0192
1993	90	68.463
1994	90	16.8605
1995	90	17.3074
1996	90	4.79142
1997	90	46.4164
1998	90	35.6569
1999	90	38.242
2000	90	15.9088
2001	90	118.048
2002	90	56.1465
2003	90	653.953
2004	90	122.253
2005	90	61.1901
2006	90	493.346
Total	2250	3186.16

Input and Estimated effective Discard sample sizes for fleet 1

1982	0	1e+15
1983	0	1e+15
1984	0	1e+15
1985	0	1e+15
1986	0	1e+15
1987	0	1e+15
1988	0	1e+15
1989	0	1e+15
1990	0	1e+15
1991	0	1e+15
1992	0	1e+15
1993	0	1e+15
1994	0	1e+15
1995	0	1e+15
1996	0	1e+15
1997	0	1e+15
1998	0	1e+15
1999	0	1e+15
2000	0	1e+15
2001	0	1e+15
2002	0	1e+15
2003	0	1e+15
2004	0	1e+15
2005	0	1e+15
2006	0	1e+15

Total 0 2.5e+16

Input and Estimated effective Discard sample sizes for fleet 2

1982	0	1e+15
1983	0	1e+15
1984	0	1e+15
1985	0	1e+15
1986	0	1e+15

1987	0	1e+15
1988	0	1e+15
1989	0	1e+15
1990	0	1e+15
1991	0	1e+15
1992	0	1e+15
1993	0	1e+15
1994	0	1e+15
1995	0	1e+15
1996	0	1e+15
1997	0	1e+15
1998	0	1e+15
1999	0	1e+15
2000	0	1e+15
2001	0	1e+15
2002	0	1e+15
2003	0	1e+15
2004	0	1e+15
2005	0	1e+15
2006	0	1e+15
Total	0	2.5e+16

Observed and predicted total fleet catch by year and standardized residual
 fleet 1 total catches

1982	18667	18799.4	-0.0708363
1983	26089	25452.3	0.247711
1984	25641	25416.1	0.0883032
1985	20339	20672	-0.162801
1986	20289	20698.2	-0.200192
1987	17790	17773.7	0.00919516
1988	21320	20895.1	0.201815
1989	9561	9387.99	0.183072
1990	6528	6264.06	0.413753
1991	9835	9648.9	0.191509
1992	10771	10808.8	-0.0351513
1993	9720	10029.8	-0.31453
1994	10819	10981.9	-0.14982
1995	9436	8755.08	0.750847
1996	10314	10064.2	0.245801
1997	9376	9628.44	-0.266338
1998	10735	10930.2	-0.180642
1999	8616	8648.19	-0.0373878
2000	12555	12736.9	-0.144187
2001	10249	10372	-0.119601
2002	10205	10377.6	-0.168168
2003	11729	12000.3	-0.229279
2004	13060	13315.4	-0.194118
2005	12549	12573.5	-0.0195378
2006	11254	11254.8	-0.000685572

fleet 2 total catches

1982	296	296.893	-0.0302043
1983	376	376.201	-0.00536497
1984	415	414.996	0.000106675
1985	92	92.0124	-0.00135211
1986	578	578.089	-0.00153822
1987	522	521.864	0.00261906
1988	341	340.894	0.00310713

1989	754	751.933	0.0275133
1990	1448	1446.44	0.010797
1991	1481	1481.45	-0.00303367
1992	1034	1035.8	-0.0174387
1993	1756	1757.17	-0.0066898
1994	1593	1586.2	0.0429103
1995	1060	1058.23	0.0167191
1996	1144	1147.45	-0.030229
1997	881	882.872	-0.021276
1998	1123	1122.52	0.00426382
1999	2259	2250.9	0.0360075
2000	1678	1674.85	0.0188583
2001	1742	1738.98	0.0173966
2002	1226	1226.33	-0.00267698
2003	1410	1411.96	-0.0139309
2004	1278	1279.35	-0.0105886
2005	1229	1228.35	0.0052756
2006	1083	1082.98	0.000198962

Observed and predicted total fleet Discards by year and standardized residual
 fleet 1 total Discards

1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0
1993	0	0	0
1994	0	0	0
1995	0	0	0
1996	0	0	0
1997	0	0	0
1998	0	0	0
1999	0	0	0
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0

fleet 2 total Discards

1982	0	0	0
1983	0	0	0
1984	0	0	0
1985	0	0	0
1986	0	0	0
1987	0	0	0
1988	0	0	0
1989	0	0	0
1990	0	0	0
1991	0	0	0
1992	0	0	0

1993 0 0 0
 1994 0 0 0
 1995 0 0 0
 1996 0 0 0
 1997 0 0 0
 1998 0 0 0
 1999 0 0 0
 2000 0 0 0
 2001 0 0 0
 2002 0 0 0
 2003 0 0 0
 2004 0 0 0
 2005 0 0 0
 2006 0 0 0

Index data

index number 1

units = 2

month = 1

starting and ending ages for selectivity = 2 2

selectivity choice = -1

year, obs index, pred index, standardized residual

1992 7.15 2.90895 3.0635
 1993 6.5 3.33213 2.27616
 1994 3.76 3.51397 0.230519
 1995 6.07 4.04061 1.3863
 1996 22.17 4.84885 5.1778
 1997 3.86 3.6201 0.218579
 1998 1.68 3.65433 -2.64722
 1999 2.11 4.00743 -2.18511
 2000 0.7 3.19827 -5.17537
 2001 3.07 3.94221 -0.851832
 2002 2.77 3.7132 -0.998249
 2003 8.17 4.18494 2.27884
 2004 1.45 2.87026 -2.32606
 2005 2.96 4.15399 -1.15438
 2006 2.64 2.14549 0.706529

index number 2

units = 2

month = 1

starting and ending ages for selectivity = 3 3

selectivity choice = -1

year, obs index, pred index, standardized residual

1992 4.74 3.42474 1.10714
 1993 6.7 3.07508 2.65287
 1994 7.2 3.67237 2.29337
 1995 4.59 4.21159 0.293087
 1996 8.33 7.64783 0.291053
 1997 4.8 9.47655 -2.31708
 1998 3.25 7.47334 -2.83651
 1999 4.8 7.5415 -1.53906
 2000 6.52 8.08791 -0.734076
 2001 5.33 6.56992 -0.712459
 2002 10.74 8.24646 0.899954
 2003 14.36 7.9233 2.02561
 2004 8.68 8.9371 -0.0994342
 2005 4.03 6.11793 -1.42205


```

2006  9.06  8.80414  0.0975854
index number 3
units = 2
month = 1
starting and ending ages for selectivity = 4  4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1992  0.33  0.470967  -1.21166
1993  0.31  0.500816  -1.63396
1994  0.82  0.560742  1.2946
1995  0.25  0.727502  -3.63863
1996  0.6  0.87877  -1.29988
1997  1.04  1.9528  -2.14621
1998  2.29  3.41843  -1.36472
1999  2.9  2.80203  0.117068
2000  4.96  3.08944  1.61267
2001  6.42  3.20424  2.36729
2002  5.58  2.92339  2.20208
2003  8.48  3.8897  2.65491
2004  4.56  3.78015  0.638913
2005  3.07  4.17359  -1.04612
2006  4.29  2.79982  1.45364
index number 4
units = 2
month = 1
starting and ending ages for selectivity = 5  5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1992  0.04  0.0460303  -0.478334
1993  0.05  0.0840443  -1.76904
1994  0.26  0.112987  2.83897
1995  0.02  0.137356  -6.5637
1996  0.12  0.110345  0.285741
1997  0.43  0.181169  2.94438
1998  0.42  0.680801  -1.64537
1999  0.84  1.27824  -1.43015
2000  2.51  1.27744  2.3008
2001  2.44  1.28587  2.18206
2002  2.26  1.59193  1.19368
2003  2.67  1.55779  1.83543
2004  1.64  2.11267  -0.862713
2005  1.34  1.98228  -1.3339
2006  2.47  2.13146  0.502149
index number 5
units = 2
month = 1
starting and ending ages for selectivity = 6  8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1992  0.04  0.0495524  -0.729499
1993  0.04  0.0197719  2.40024
1994  0.01  0.0305303  -3.80206
1996  0.03  0.03455  -0.481025
1997  0.15  0.037565  4.71645
1998  0.12  0.0990428  0.653833
1999  0.41  0.386608  0.200116
2000  1.08  1.00236  0.254144

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2001  1.34  1.14543  0.534429
2002  1.33  1.44753  -0.288465
2003  1.96  1.92354  0.0639604
2004  1.44  2.18629  -1.4224
2005  1.49  2.64488  -1.9548
2006  2.6   2.713   -0.14492
index number 6
units = 2
month = 1
starting and ending ages for selectivity = 2  2
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.7  0.591094  0.438947
1983  0.32  0.713157  -2.08014
1984  0.17  0.783466  -3.96604
1985  0.55  0.445233  0.548524
1986  1.48  0.536548  2.6337
1987  0.47  0.586939  -0.576732
1988  0.6   0.449166  0.751549
1989  0.06  0.120622  -1.81261
1990  0.63  0.269849  2.20078
1991  0.79  0.341251  2.17887
1992  0.77  0.290155  2.53334
1993  0.73  0.332365  2.04232
1994  0.35  0.350504  -0.00373204
1995  0.79  0.403033  1.74694
1996  1.08  0.483652  2.08525
1997  0.29  0.361089  -0.569089
1998  0.27  0.364504  -0.779006
1999  0.22  0.399723  -1.55001
2000  0.19  0.319013  -1.34511
2001  0.48  0.393218  0.517636
2002  0.34  0.370375  -0.222117
2003  0.54  0.41743  0.668271
2004  0.3   0.286296  0.121368
2005  0.26  0.414343  -1.20963
2006  0.04  0.214004  -4.35328
index number 7
units = 2
month = 1
starting and ending ages for selectivity = 3  3
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  1.43  0.728323  1.75128
1983  0.39  0.762549  -1.74047
1984  0.33  0.804476  -2.31302
1985  1.56  0.834799  1.62296
1986  0.43  0.501237  -0.397902
1987  0.43  0.536724  -0.575463
1988  0.81  0.661191  0.526904
1989  0.23  0.397224  -1.41834
1990  0.03  0.110109  -3.37511
1991  0.27  0.292389  -0.20678
1992  0.41  0.320567  0.638714
1993  0.5   0.287837  1.43338
1994  0.53  0.343746  1.12387
1995  0.27  0.394219  -0.982431

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1996 0.56 0.715862 -0.637374
1997 0.67 0.887036 -0.728372
1998 0.52 0.699529 -0.769829
1999 0.74 0.705909 0.122421
2000 1.03 0.757055 0.79916
2001 0.89 0.614966 0.959512
2002 0.89 0.771896 0.369554
2003 1.29 0.741647 1.43678
2004 1.45 0.836542 1.42774
2005 0.65 0.572659 0.32883
2006 1.04 0.824096 0.603989
index number 8
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
year, obs index, pred index, standardized residual
1982 0.12 0.094435 0.621876
1983 0.19 0.156945 0.49611
1984 0.09 0.121319 -0.775115
1985 0.21 0.113027 1.60798
1986 0.2 0.128393 1.15047
1987 0.02 0.063304 -2.9908
1988 0.07 0.0877675 -0.587137
1989 0.02 0.061687 -2.92364
1990 0.06 0.0588926 0.0483577
1992 0.01 0.0455997 -3.93849
1993 0.04 0.0484897 -0.499601
1994 0.04 0.0542919 -0.792975
1995 0.02 0.0704379 -3.26798
1996 0.12 0.0850838 0.892543
1997 0.09 0.189073 -1.92684
1998 0.32 0.330977 -0.0875491
1999 0.48 0.271297 1.48103
2000 0.63 0.299124 1.93343
2001 1.02 0.31024 3.08943
2002 0.74 0.283047 2.49456
2003 0.59 0.376607 1.16526
2004 0.85 0.366 2.18714
2005 0.58 0.404093 0.938039
2006 0.24 0.271083 -0.316116
index number 9
units = 2
month = 1
starting and ending ages for selectivity = 5 5
selectivity choice = -1
year, obs index, pred index, standardized residual
1982 0.02 0.0256118 -0.64197
1983 0.03 0.0278189 0.195926
1984 0.05 0.0337121 1.02313
1985 0.04 0.0228999 1.44774
1986 0.02 0.0234121 -0.408878
1987 0.01 0.0217195 -2.01328
1988 0.02 0.0140079 0.924357
1989 0.01 0.0108226 -0.20519
1991 0.02 0.0178671 0.29272
1994 0.01 0.0126056 -0.601053

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1997 0.01 0.0202125 -1.82663
1998 0.06 0.075955 -0.612056
1999 0.13 0.142609 -0.240295
2000 0.12 0.14252 -0.44644
2001 0.2 0.14346 0.862444
2002 0.31 0.177607 1.4458
2003 0.29 0.173798 1.32896
2004 0.27 0.235705 0.352604
2005 0.15 0.221157 -1.00775
2006 0.25 0.237801 0.129858
index number 10
units = 2
month = 1
starting and ending ages for selectivity = 6 8
selectivity choice = -1
year, obs index, pred index, standardized residual
1983 0.02 0.0157397 0.621786
1984 0.02 0.0113545 1.46947
1985 0.02 0.0108902 1.57784
1986 0.01 0.00865949 0.373596
1992 0.01 0.00659288 1.08136
1995 0.01 0.00605114 1.30392
1998 0.02 0.0131775 1.08298
1999 0.03 0.0514376 -1.39953
2000 0.17 0.133362 0.630055
2001 0.1 0.152398 -1.09363
2002 0.19 0.192592 -0.0351721
2003 0.2 0.255924 -0.640006
2004 0.16 0.290882 -1.55156
2005 0.17 0.351898 -1.88848
2006 0.2 0.36096 -1.53263
index number 11
units = 2
month = 1
starting and ending ages for selectivity = 3 3
selectivity choice = -1
year, obs index, pred index, standardized residual
1983 1.52 1.38509 0.16761
1984 1.46 1.46125 -0.00154469
1985 1.39 1.51633 -0.156874
1986 0.8 0.910447 -0.23322
1987 0.83 0.974906 -0.290192
1988 0.58 1.20099 -1.31263
1989 0.62 0.721517 -0.273459
1990 0.21 0.200002 0.0879699
1991 0.38 0.531095 -0.603719
1992 0.84 0.582278 0.660858
1993 1.04 0.522828 1.24023
1994 0.8 0.62438 0.446973
1995 0.67 0.71606 -0.1199
1996 1.16 1.30029 -0.20589
1997 1.24 1.61121 -0.472263
1998 1.29 1.27063 0.0272904
1999 2.13 1.28221 0.915278
2000 1.73 1.37511 0.414029
2001 1.2 1.11702 0.129219
2002 1.36 1.40207 -0.0549427

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2003  1.17  1.34713  -0.254225
2004  1.31  1.5195   -0.267534
2005  1.49  1.04018   0.648109
2006  1.14  1.49689   -0.491171
index number 12
units = 2
month = 1
starting and ending ages for selectivity = 4  4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1983  0.4  0.39768  0.0104919
1984  0.34  0.307408  0.181727
1985  0.43  0.286396  0.732911
1986  0.46  0.325331  0.62466
1987  0.11  0.160405  -0.680271
1988  0.2  0.222392  -0.191383
1989  0.18  0.156307  0.254519
1990  0.05  0.149226  -1.9719
1991  0.03  0.0609517  -1.27839
1992  0.09  0.115544  -0.450561
1993  0.25  0.122867  1.28105
1994  0.03  0.137569  -2.74642
1995  0.09  0.178481  -1.23473
1996  0.28  0.215592  0.471409
1997  0.57  0.479087  0.313345
1998  1.14  0.838655  0.553609
1999  1.63  0.687433  1.55699
2000  1.49  0.757944  1.21895
2001  1.22  0.786109  0.792606
2002  0.93  0.717207  0.468556
2003  0.86  0.954275  -0.187588
2004  1.03  0.927398  0.189232
2005  1.37  1.02392  0.525092
2006  0.54  0.68689  -0.433903
index number 13
units = 2
month = 1
starting and ending ages for selectivity = 5  5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1983  0.03  0.058497  -1.20426
1984  0.12  0.0708891  0.949256
1985  0.07  0.0481534  0.674653
1986  0.05  0.0492305  0.02797
1987  0.11  0.0456712  1.5852
1988  0.03  0.0294555  0.033033
1989  0.03  0.0227575  0.49828
1991  0.04  0.0375705  0.112998
1993  0.03  0.0197169  0.756923
1994  0.01  0.0265068  -1.75797
1995  0.01  0.0322238  -2.11017
1996  0.02  0.025887  -0.465286
1997  0.04  0.0425024  -0.109432
1998  0.29  0.159716  1.07568
1999  0.33  0.299876  0.172628
2000  0.31  0.299688  0.0610064
2001  0.4  0.301665  0.50882

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2002  0.37  0.373468  -0.0168259
2003  0.35  0.365459  -0.0779425
2004  0.25  0.495635  -1.2342
2005  0.66  0.465045  0.631376
2006  0.47  0.500042  -0.111737
index number 14
units = 2
month = 1
starting and ending ages for selectivity = 3  3
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  1.584  0.789948  1.25469
1983  0.599  0.82707  -0.581821
1984  0.078  0.872545  -4.35464
1985  1.26  0.905433  0.595935
1986  0.522  0.543647  -0.0732771
1987  0.64  0.582137  0.170892
1988  1.005  0.717136  0.608602
1989  0.363  0.430834  -0.308954
1990  0.021  0.119425  -3.13459
1991  0.05  0.317128  -3.33136
1992  0.342  0.347691  -0.02976
1993  0.492  0.312192  0.82029
1994  1.217  0.372831  2.13344
1995  1.302  0.427575  2.00812
1996  0.686  0.776432  -0.223317
1997  1.279  0.96209  0.51347
1998  1.212  0.758718  0.8447
1999  0.878  0.765638  0.24695
2000  1.659  0.821111  1.26834
2001  1.026  0.666999  0.776599
2002  1.511  0.837207  1.06482
2003  1.44  0.804399  1.05012
2004  0.283  0.907324  -2.10104
2005  0.351  0.621112  -1.02924
2006  2.44  0.893825  1.81104
index number 15
units = 2
month = 1
starting and ending ages for selectivity = 4  4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.142  0.125276  0.225984
1983  0.45  0.2082  1.38995
1984  0.067  0.16094  -1.58037
1985  0.036  0.149939  -2.57291
1986  0.185  0.170323  0.149063
1987  0.013  0.0839778  -3.3644
1988  0.123  0.116431  0.0989854
1989  0.102  0.0818327  0.397279
1990  0.081  0.0781257  0.0651571
1991  0.012  0.0319105  -1.76376
1992  0.09  0.0604916  0.716493
1993  0.065  0.0643255  0.018811
1994  0.048  0.0720226  -0.731774
1995  0.053  0.0934414  -1.0226
1996  0.114  0.11287  0.0179577

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1997 0.181 0.25082 -0.588334
1998 0.659 0.439068 0.7323
1999 1.112 0.359897 2.03439
2000 1.205 0.396812 2.00315
2001 0.73 0.411558 1.03351
2002 0.397 0.375485 0.100482
2003 0.624 0.499599 0.400972
2004 0.323 0.485528 -0.73503
2005 1.029 0.536062 1.17597
2006 0.975 0.359613 1.79871
index number 16
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
year, obs index, pred index, standardized residual
1982 0.405 0.474024 -0.283799
1983 1.662 0.787798 1.34629
1984 0.625 0.608971 0.0468543
1985 0.267 0.567347 -1.35925
1986 1.895 0.644477 1.94501
1987 0.679 0.317759 1.36936
1988 0.663 0.440556 0.737112
1989 0.429 0.309642 0.587974
1990 0.317 0.295616 0.125952
1992 0.288 0.228891 0.414263
1993 0.186 0.243398 -0.485021
1994 0.478 0.272522 1.0133
1995 0.076 0.353568 -2.77242
1996 0.506 0.427084 0.305773
1997 1.282 0.949065 0.542277
1998 1.508 1.66136 -0.174667
1999 0.59 1.36179 -1.50842
2000 0.94 1.50148 -0.844568
2001 2.303 1.55727 0.705624
2002 1.083 1.42078 -0.489562
2003 1.302 1.89041 -0.672464
2004 1.254 1.83716 -0.688683
2005 1.455 2.02838 -0.599137
2006 2.049 1.36072 0.738194
index number 17
units = 2
month = 1
starting and ending ages for selectivity = 5 5
selectivity choice = -1
year, obs index, pred index, standardized residual
1982 0.012 0.0460514 -2.42528
1983 0.02 0.0500199 -1.65314
1984 0.154 0.0606162 1.68146
1985 0.127 0.0411752 2.03124
1986 0.04 0.0420962 -0.0921146
1987 0.214 0.0390527 3.06767
1988 0.011 0.0251869 -1.49398
1989 0.006 0.0194596 -2.12183
1990 0.016 0.0224764 -0.612926
1991 0.011 0.032126 -1.93281
1992 0.006 0.00923383 -0.777465

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1994 0.03 0.0226656 0.50558
1997 0.114 0.0363432 2.06162
1998 0.351 0.136571 1.70229
1999 0.262 0.256419 0.0388295
2000 0.379 0.256259 0.70575
2001 0.494 0.257949 1.17179
2002 0.307 0.319347 -0.0711082
2003 0.178 0.312498 -1.01497
2004 0.256 0.42381 -0.909099
2005 0.136 0.397653 -1.93489
2006 1.35 0.427578 2.07339
index number 18
units = 2
month = 1
starting and ending ages for selectivity = 3 3
selectivity choice = -1
year, obs index, pred index, standardized residual
1984 0.271 0.378296 -0.601533
1985 0.325 0.392555 -0.340571
1986 0.1 0.235701 -1.54621
1987 0.086 0.252388 -1.94156
1988 0.223 0.310918 -0.599366
1989 0.049 0.18679 -2.41322
1990 0.022 0.0517775 -1.54354
1991 0.189 0.137493 0.573796
1992 0.188 0.150743 0.398307
1993 0.151 0.135352 0.19729
1994 0.314 0.161643 1.19746
1995 0.051 0.185377 -2.32739
1996 0.266 0.336626 -0.424654
1997 0.507 0.417119 0.351913
1998 0.594 0.328946 1.06578
1999 0.593 0.331946 1.04636
2000 0.726 0.355996 1.28514
2001 0.34 0.289181 0.291957
2002 1.264 0.362975 2.25009
2003 1.016 0.348751 1.9283
2004 0.818 0.393374 1.32026
2005 0.264 0.269286 -0.0357535
2006 0.36 0.387522 -0.132852
index number 19
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
year, obs index, pred index, standardized residual
1984 0.044 0.0701673 -0.841625
1985 0.04 0.0653713 -0.885828
1986 0.082 0.0742584 0.178839
1987 0.014 0.0366131 -1.73368
1988 0.035 0.050762 -0.670498
1989 0.024 0.0356778 -0.714997
1990 0.013 0.0340616 -1.73706
1991 0.029 0.0139125 1.3246
1992 0.021 0.0263734 -0.410874
1993 0.015 0.028045 -1.12848
1994 0.025 0.0314008 -0.411093

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1995  0.02  0.0407391  -1.28303
1996  0.086  0.0492098  1.00675
1997  0.057  0.109354  -1.17497
1998  0.503  0.191427  1.74222
1999  0.385  0.15691  1.61867
2000  0.524  0.173004  1.99847
2001  0.365  0.179433  1.28058
2002  0.465  0.163706  1.88267
2003  0.395  0.217818  1.07342
2004  0.41  0.211683  1.19216
2005  0.15  0.233715  -0.799741
2006  0.068  0.156786  -1.5065
index number 20
units = 2
month = 1
starting and ending ages for selectivity = 5 5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1985  0.058  0.0185776  2.05313
1986  0.008  0.0189931  -1.55927
1987  0.004  0.01762  -2.67395
1988  0.009  0.0113639  -0.420585
1989  0.016  0.00877985  1.08226
1990  0.006  0.010141  -0.94646
1991  0.028  0.0144947  1.18738
1992  0.004  0.00416616  -0.0733963
1993  0.018  0.00760677  1.55332
1994  0.018  0.0102263  1.01964
1995  0.005  0.0124319  -1.64258
1996  0.023  0.00998719  1.50437
1997  0.036  0.0163974  1.41817
1998  0.116  0.0616187  1.14087
1999  0.139  0.115692  0.330996
2000  0.074  0.11562  -0.804747
2001  0.12  0.116382  0.0552014
2002  0.233  0.144084  0.86678
2003  0.232  0.140994  0.898121
2004  0.194  0.191216  0.0260666
2005  0.033  0.179414  -3.05347
2006  0.065  0.192916  -1.96185
index number 21
units = 2
month = 1
starting and ending ages for selectivity = 3 3
selectivity choice = -1
  year, obs index, pred index, standardized residual
1985  0.571  0.999988  -1.01053
1986  0.339  0.600421  -1.03087
1987  1.17  0.64293  1.07973
1988  1.067  0.792026  0.537429
1989  0.884  0.475826  1.11703
1990  0.029  0.131897  -2.73163
1991  0.674  0.350246  1.18048
1992  0.826  0.384  1.38131
1993  0.57  0.344794  0.906542
1994  0.827  0.411766  1.25759
1995  0.3  0.472226  -0.818153

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1996  0.384  0.857515  -1.44883
1997  0.887  1.06256  -0.325678
1998  0.681  0.837951  -0.374017
1999  0.269  0.845594  -2.06547
2000  0.679  0.906859  -0.521838
2001  0.395  0.736654  -1.12393
2002  2.689  0.924637  1.92515
2003  3.087  0.888403  2.24617
2004  1.459  1.00208  0.677491
2005  0.385  0.685975  -1.04163
2006  1.093  0.987167  0.183661
index number 22
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
  year, obs index, pred index, standardized residual
1985  0.331  0.399583  -0.339581
1986  0.528  0.453905  0.272686
1987  0.298  0.223798  0.516399
1988  0.223  0.310283  -0.595683
1989  0.481  0.218081  1.42648
1990  0.095  0.208202  -1.41499
1991  0.11  0.0850404  0.464108
1992  0.34  0.161208  1.34578
1993  0.366  0.171425  1.36784
1994  0.152  0.191937  -0.42071
1995  0.085  0.249018  -1.93841
1996  0.117  0.300796  -1.70286
1997  1.188  0.668426  1.03713
1998  1.373  1.1701  0.288378
1999  1.054  0.959112  0.170131
2000  1.484  1.05749  0.611065
2001  0.871  1.09679  -0.415675
2002  1.137  1.00065  0.230365
2003  1.93  1.33141  0.669559
2004  1.319  1.29391  0.0346299
2005  0.755  1.42859  -1.15006
2006  0.744  0.958355  -0.456575
index number 23
units = 2
month = 1
starting and ending ages for selectivity = 5 5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1985  0.072  0.0572415  0.413673
1986  0.075  0.0585219  0.447396
1987  0.072  0.0542908  0.509115
1988  0.033  0.0350147  -0.106869
1989  0.037  0.0270526  0.564704
1990  0.015  0.0312465  -1.32343
1991  0.042  0.0446613  -0.110797
1992  0.036  0.0128368  1.85965
1993  0.046  0.0234381  1.21599
1994  0.039  0.0315095  0.384611
1995  0.024  0.0383055  -0.843151
1996  0.012  0.0307727  -1.69828

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1997 0.042 0.050524 -0.333227
1998 0.373 0.18986 1.21781
1999 0.321 0.356472 -0.189021
2000 0.346 0.356249 -0.0526451
2001 0.341 0.358599 -0.090751
2002 0.436 0.443954 -0.0326028
2003 0.479 0.434433 0.176118
2004 0.407 0.589177 -0.667097
2005 0.44 0.552814 -0.411616
2006 0.355 0.594416 -0.929576
index number 24
units = 2
month = 1
starting and ending ages for selectivity = 6 8
selectivity choice = -1
year, obs index, pred index, standardized residual
1985 0.025 0.012063 1.31418
1986 0.009 0.00959207 -0.114897
1987 0.007 0.00762591 -0.154444
1988 0.003 0.00902544 -1.98631
1989 0.003 0.00365762 -0.357432
1990 0.001 0.00409602 -2.5428
1991 0.012 0.0070545 0.958032
1992 0.022 0.00730289 1.98872
1993 0.025 0.00291393 3.87615
1994 0.007 0.00449946 0.79701
1995 0.009 0.00670281 0.531454
1996 0.005 0.00509187 -0.0328352
1997 0.005 0.00553622 -0.183718
1998 0.04 0.0145966 1.81797
1999 0.075 0.0569771 0.49564
2000 0.127 0.147724 -0.272601
2001 0.191 0.16881 0.222713
2002 0.134 0.213333 -0.8386
2003 0.183 0.283486 -0.789297
2004 0.203 0.322208 -0.833149
2005 0.119 0.389795 -2.13971
2006 0.151 0.399833 -1.75608
index number 25
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1
year, obs index, pred index, standardized residual
1982 1.74 0.329949 2.99849
1983 0.52 0.548355 -0.0957497
1984 0.42 0.423881 -0.0165866
1985 0.49 0.394908 0.389084
1986 0.28 0.448595 -0.849992
1987 0.51 0.22118 1.50661
1988 0.37 0.306654 0.338647
1989 0.24 0.21553 0.193935
1990 0.07 0.205766 -1.94449
1991 0.12 0.0840456 0.642244
1992 0.08 0.159322 -1.24235
1993 0.41 0.16942 1.59379
1994 0.22 0.189692 0.267307

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1995  0.03  0.246105  -3.79533
1996  0.2   0.297277  -0.714765
1997  1.03   0.660607   0.800982
1998  0.96   1.15641   -0.335688
1999  0.36   0.947892  -1.74592
2000  1.91   1.04512   1.08739
2001  1.24   1.08396   0.242545
2002  0.63   0.988947  -0.813183
2003  1.38   1.31584   0.0858589
2004  2.08   1.27878   0.877282
2005  1.3    1.41187   -0.148875
2006  1.38   0.947144  0.678772
index number 26
units = 2
month = 1
starting and ending ages for selectivity = 5 5
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  0.2   0.0594143  2.18892
1983  0.07   0.0645343  0.146612
1984  0.11   0.0782054  0.61521
1985  0.1    0.0531232  1.14074
1986  0.02   0.0543114  -1.80159
1987  0.13   0.0503848  1.70933
1988  0.02   0.0324955  -0.875307
1992  0.01   0.0119132  -0.31571
1993  0.11   0.0217518  2.9229
1994  0.07   0.0292425  1.57412
1997  0.01   0.046889   -2.78658
1998  0.03   0.1762    -3.19276
1999  0.09   0.330825  -2.34761
2000  0.35   0.330618  0.102736
2001  0.45   0.332799  0.544097
2002  0.3    0.412013  -0.572164
2003  0.4    0.403177  -0.0142652
2004  0.49   0.546788  -0.197751
2005  0.78   0.513041  0.755508
2006  0.69   0.55165   0.403558
index number 27
units = 2
month = 1
starting and ending ages for selectivity = 2 2
selectivity choice = -1
  year, obs index, pred index, standardized residual
1990  0.17   0.196469  -0.260964
1991  0.07   0.248455  -2.28447
1992  0.15   0.211253  -0.61752
1993  0.11   0.241986  -1.42178
1994  0.08   0.255192  -2.0919
1995  0.2    0.293437  -0.691318
1996  0.41   0.352133  0.274381
1997  0.17   0.262898  -0.78622
1998  0.07   0.265385  -2.40334
1999  0.26   0.291027  -0.203304
2000  0.63   0.232264  1.79949
2001  0.42   0.286291  0.69114
2002  0.81   0.26966   1.98349

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2003  1.48  0.303918  2.85483
2004  0.54  0.208444  1.71664
2005  0.55  0.301671  1.08308
2006  0.19  0.15581  0.357768
index number 28
units = 2
month = 1
starting and ending ages for selectivity = 3  8
selectivity choice = -1
  year, obs index, pred index, standardized residual
1990  0.1  0.0950919  0.0907569
1991  0.08  0.252512  -2.07287
1992  0.18  0.276847  -0.776371
1993  0.14  0.248581  -1.03537
1994  0.05  0.296865  -3.21228
1995  0.22  0.340454  -0.787453
1996  0.53  0.61823  -0.277693
1997  0.52  0.766059  -0.698687
1998  0.36  0.604125  -0.933572
1999  0.61  0.609635  0.00107831
2000  1.89  0.653805  1.91433
2001  0.55  0.531095  0.0630783
2002  1.11  0.666622  0.919531
2003  2.25  0.640499  2.26584
2004  1.53  0.722452  1.35321
2005  1.89  0.494558  2.41774
2006  1.09  0.711703  0.768732
index number 29
units = 2
month = 1
starting and ending ages for selectivity = 2  2
selectivity choice = -1
  year, obs index, pred index, standardized residual
1988  3.06  5.01494  -0.890885
1989  0.51  1.34674  -1.75114
1990  1.44  3.01287  -1.33135
1991  2.69  3.81007  -0.627769
1992  3  3.23958  -0.138556
1993  5.69  3.71086  0.77085
1994  1.07  3.91337  -2.33852
1995  2.93  4.49987  -0.773734
1996  5.1  5.39998  -0.103071
1997  8.25  4.03156  1.29133
1998  5.8  4.06968  0.638925
1999  6.12  4.46291  0.569437
2000  3.91  3.56179  0.168211
2001  3.32  4.39028  -0.503918
2002  9.11  4.13524  1.42436
2003  5.61  4.6606  0.334358
2004  6.27  3.19649  1.21498
2005  5.99  4.62614  0.465938
2006  5.74  2.38935  1.58055
index number 30
units = 2
month = 1
starting and ending ages for selectivity = 3  3
selectivity choice = -1

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year, obs index, pred index, standardized residual
1988 1.03 1.22293 -0.30963
1989 0.18 0.734702 -2.53647
1990 0.11 0.203657 -1.1108
1991 0.27 0.5408 -1.25268
1992 0.57 0.592918 -0.0710883
1993 0.2 0.532381 -1.76559
1994 0.08 0.63579 -3.73813
1995 0.28 0.729144 -1.72599
1996 2.7 1.32405 1.28501
1997 5.25 1.64065 2.09758
1998 2.67 1.29384 1.30648
1999 3.46 1.30564 1.75753
2000 1.82 1.40024 0.472832
2001 1.18 1.13744 0.066253
2002 4.13 1.42769 1.91559
2003 2.55 1.37174 1.11812
2004 2.49 1.54726 0.858043
2005 1.24 1.05918 0.284235
2006 3.22 1.52424 1.34872
index number 31
units = 2
month = 1
starting and ending ages for selectivity = 4 4
selectivity choice = -1

```

```

year, obs index, pred index, standardized residual
1990 0.03 0.0783445 -1.7311
1991 0.02 0.0319999 -0.847593
1992 0.06 0.0606611 -0.0197615
1993 0.01 0.0645057 -3.36181
1995 0.05 0.0937032 -1.13272
1996 0.18 0.113187 0.836624
1997 1.02 0.251523 2.52478
1998 0.29 0.440298 -0.753039
1999 0.65 0.360905 1.06103
2000 0.45 0.397924 0.221794
2001 0.41 0.412711 -0.0118832
2002 1.28 0.376537 2.20662
2003 0.57 0.500999 0.232696
2004 0.57 0.486888 0.284218
2005 0.53 0.537564 -0.0255538
2006 0.48 0.36062 0.515697
index number 32
units = 2
month = 1
starting and ending ages for selectivity = 5 8
selectivity choice = -1

```

```

year, obs index, pred index, standardized residual
1992 0.02 0.0114097 1.01218
1993 0.01 0.0208324 -1.32355
1994 0.02 0.0280065 -0.607208
1995 0.16 0.0340469 2.79062
1996 0.05 0.0273516 1.08789
1997 0.18 0.0449071 2.50375
1998 0.04 0.168753 -2.59607
1999 0.18 0.316842 -1.01972
2000 0.22 0.316644 -0.656704

```

```

2001  0.15  0.318733  -1.35924
2002  0.81  0.394598  1.29693
2003  0.51  0.386136  0.501742
2004  0.43  0.523677  -0.355428
2005  0.32  0.491356  -0.773377
2006  0.4   0.528333  -0.501815
index number 33
units = 2
month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
  year, obs index, pred index, standardized residual
1985  0.24  0.0875388  1.81882
1986  0.172  0.0966126  1.04017
1987  0.075  0.0734421  0.0378544
1988  0.015  0.0199672  -0.515841
1990  0.032  0.0566985  -1.03156
1991  0.036  0.0485499  -0.539344
1992  0.013  0.0551377  -2.60568
1993  0.084  0.0582901  0.658928
1994  0.132  0.0664654  1.23734
1995  0.023  0.0771955  -2.18362
1996  0.069  0.0575173  0.328255
1997  0.033  0.0578618  -1.01269
1999  0.044  0.0507513  -0.257428
2000  0.012  0.0624614  -2.97494
2001  0.021  0.0587661  -1.85576
2002  0.442  0.0661368  3.42568
2004  0.255  0.0656517  2.44701
2005  0.067  0.033922  1.22744
2006  0.098  0.0644636  0.755378
index number 34
units = 2
month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  2.27  1.80339  0.414979
1983  5.01  1.99535  1.66023
1984  1.58  1.13756  0.592481
1985  1.26  1.36516  -0.144557
1986  1.26  1.50666  -0.32242
1987  0.39  1.14532  -1.94278
1988  0.54  0.311386  0.992825
1989  1.24  0.705588  1.01681
1990  2.54  0.884208  1.90298
1991  2.64  0.757131  2.25242
1992  0.89  0.859867  0.0621154
1993  0.5   0.909029  -1.07801
1994  2.41  1.03652  1.52162
1995  0.63  1.20386  -1.16781
1996  0.81  0.896976  -0.183936
1997  0.89  0.902348  -0.0248493
1998  0.73  0.989671  -0.548821
1999  0.53  0.791461  -0.723164
2000  0.57  0.97408  -0.966356
2001  0.47  0.916452  -1.20426

```

```

2002  0.77  1.0314  -0.527092
2003  0.44  0.707365  -0.856197
2004  1.3   1.02383  0.430669
2005  0.35  0.52901  -0.744932
2006  0.8   1.0053   -0.411952
index number 35
units = 2
month = 1
starting and ending ages for selectivity = 1  1
selectivity choice = -1
  year, obs index, pred index, standardized residual
1982  3.408  15.2728  -2.70498
1983  17.699  16.8985  0.0834698
1984  13.31   9.63392  0.582899
1985  12.843  11.5614  0.18958
1986  59.526  12.7598  2.77741
1987  7.584   9.69965  -0.443722
1988  1.763   2.63711  -0.726163
1989  2.855   5.97557  -1.33199
1990  4.733   7.48829  -0.827359
1991  7.337   6.41209  0.242997
1992  8.487   7.28215  0.276115
1993  4.145   7.6985   -1.11652
1994  22.311  8.77823  1.68221
1995  13.067  10.1954  0.447521
1996  6.493   7.59643  -0.283047
1997  7.997   7.64192  0.0819045
1998  14.983  8.38146  1.04758
1999  8.565   6.70283  0.442108
2000  9.874   8.24941  0.324182
2001  13.543  7.76136  1.00397
2002  5.406   8.73483  -0.865281
2003  8.18    5.99062  0.561748
2004  6.993   8.67076  -0.387812
2005  2.198   4.48015  -1.28421
2006  9.658   8.51384  0.227395
index number 36
units = 2
month = 1
starting and ending ages for selectivity = 1  1
selectivity choice = -1
  year, obs index, pred index, standardized residual
1988  0.17   0.42419  -1.64899
1989  1   0.961196  0.0713718
1990  1.28   1.20452  0.109601
1991  1   1.03141  -0.0557768
1992  1.1   1.17137  -0.113361
1993  2.55   1.23834  1.30263
1994  1.66   1.41202  0.291786
1995  4.95   1.63997  1.99222
1996  1.66   1.22192  0.55255
1997  1.65   1.22924  0.530884
1998  0.67   1.34819  -1.261
1999  1.03   1.07818  -0.0824413
2000  0.95   1.32695  -0.602653
2001  0.62   1.24845  -1.26226
2002  1.51   1.40504  0.129928

```



```

2003 0.6 0.963618 -0.85438
2004 0.9 1.39473 -0.789992
2005 3.11 0.720652 2.63695
2006 0.81 1.36949 -0.947062
index number 37
units = 2
month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
year, obs index, pred index, standardized residual
1982 0.55 0.523346 0.0895843
1983 0.96 0.579053 0.911683
1984 0.18 0.330121 -1.09376
1985 0.59 0.39617 0.718248
1986 0.39 0.437235 -0.206172
1987 0.07 0.332374 -2.80925
1988 0.06 0.0903647 -0.738502
1989 0.31 0.204762 0.747904
1990 0.44 0.256598 0.9725
1991 0.76 0.21972 2.23793
1992 0.99 0.249534 2.48526
1993 0.23 0.263801 -0.247273
1994 0.75 0.3008 1.64762
1995 0.93 0.34936 1.76566
1996 0.11 0.260303 -1.55338
1997 0.17 0.261862 -0.7791
1998 0.38 0.287204 0.504911
1999 0.21 0.229683 -0.161569
2000 0.22 0.282679 -0.452081
2001 0.12 0.265955 -1.4352
2002 0.06 0.299313 -2.8983
2003 0.18 0.205278 -0.236981
2004 0.36 0.297117 0.346209
2005 0.16 0.153519 0.0745648
2006 0.31 0.29174 0.109481
index number 38
units = 2
month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
year, obs index, pred index, standardized residual
1986 0.32 0.287844 0.190984
1987 0.26 0.218811 0.311039
1988 0.01 0.0594895 -3.21582
1989 0.14 0.1348 0.068252
1990 0.36 0.168925 1.36453
1991 0.38 0.144648 1.74183
1992 0.37 0.164275 1.46428
1993 0.05 0.173667 -2.24543
1994 0.57 0.198024 1.90662
1995 0.3 0.229993 0.479218
1996 0.08 0.171365 -1.37376
1997 0.22 0.172391 0.439777
1998 0.39 0.189074 1.30567
1999 0.35 0.151206 1.51356
2000 0.21 0.186095 0.217938
2001 0.14 0.175085 -0.403294

```

```

2002  0.13  0.197046  -0.750029
2003  0.21  0.13514  0.794924
2004  0.27  0.1956  0.581319
2005  0.01  0.101066  -4.17157
2006  0.17  0.19206  -0.220033
index number 39
units = 2
month = 1
starting and ending ages for selectivity = 1 1
selectivity choice = -1
year, obs index, pred index, standardized residual
1990  0.02  0.0319418  -0.844316
1992  0.01  0.0310625  -2.04399
1993  0.01  0.0328385  -2.14425
1994  0.04  0.0374441  0.119076
1995  0.03  0.0434891  -0.669618
1996  0.02  0.0324031  -0.870171
1997  0.04  0.0325972  0.36907
1999  0.03  0.0285914  0.0867281
2000  0.09  0.0351884  1.69354
2001  0.01  0.0331066  -2.15892
2002  0.11  0.037259  1.95232
2003  0.05  0.0255534  1.21052
2004  0.1  0.0369857  1.79371
2005  0.04  0.0191104  1.33206
2006  0.04  0.0363164  0.174226

```

Input and Estimated effective sample sizes for index 1

```

1992  0  0
1993  0  0
1994  0  0
1995  0  0
1996  0  0
1997  0  0
1998  0  0
1999  0  0
2000  0  0
2001  0  0
2002  0  0
2003  0  0
2004  0  0
2005  0  0
2006  0  0
Total  0  0

```

Input and Estimated effective sample sizes for index 2

```

1992  0  0
1993  0  0
1994  0  0
1995  0  0
1996  0  0
1997  0  0
1998  0  0
1999  0  0
2000  0  0
2001  0  0
2002  0  0
2003  0  0

```

2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 3

1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0

Input and Estimated effective sample sizes for index 4

1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0

Input and Estimated effective sample sizes for index 5

1992 0 0
1993 0 0
1994 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0

Input and Estimated effective sample sizes for index 6

1982 0 0
1983 0 0

1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 7

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 8

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0

1987 0 0
1988 0 0
1989 0 0
1990 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 9

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1991 0 0
1994 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 10

1983 0 0
1984 0 0
1985 0 0
1986 0 0
1992 0 0
1995 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0

2006 0 0
Total 0 0
Input and Estimated effective sample sizes for index 11
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 12
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 13
1983 0 0
1984 0 0

1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1991 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 14

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 15

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0

1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 16

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0

Input and Estimated effective sample sizes for index 17

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1994 0 0

1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 18

1984	0	0
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 19

1984	0	0
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0

2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 20

1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 21

1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 22

1985 0 0
1986 0 0
1987 0 0
1988 0 0

1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 23

1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 24

1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0

1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 25

1982	0	0
1983	0	0
1984	0	0
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 26

1982	0	0
1983	0	0
1984	0	0
1985	0	0
1986	0	0
1987	0	0
1988	0	0
1992	0	0
1993	0	0
1994	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0

2006 0 0
Total 0 0
Input and Estimated effective sample sizes for index 27
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0
Input and Estimated effective sample sizes for index 28
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0
Input and Estimated effective sample sizes for index 29
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0

2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 30

1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0

Input and Estimated effective sample sizes for index 31

1990 0 0
1991 0 0
1992 0 0
1993 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0

Input and Estimated effective sample sizes for index 32

1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0

2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 33

1985 0 0
1986 0 0
1987 0 0
1988 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0

Input and Estimated effective sample sizes for index 34

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0

Total 0 0

Input and Estimated effective sample sizes for index 35

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0

1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 36

1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0
1996 0 0
1997 0 0
1998 0 0
1999 0 0
2000 0 0
2001 0 0
2002 0 0
2003 0 0
2004 0 0
2005 0 0
2006 0 0
Total 0 0

Input and Estimated effective sample sizes for index 37

1982 0 0
1983 0 0
1984 0 0
1985 0 0
1986 0 0
1987 0 0
1988 0 0
1989 0 0
1990 0 0
1991 0 0
1992 0 0
1993 0 0
1994 0 0
1995 0 0

1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 38

1986	0	0
1987	0	0
1988	0	0
1989	0	0
1990	0	0
1991	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1998	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Input and Estimated effective sample sizes for index 39

1990	0	0
1992	0	0
1993	0	0
1994	0	0
1995	0	0
1996	0	0
1997	0	0
1999	0	0
2000	0	0
2001	0	0
2002	0	0
2003	0	0
2004	0	0
2005	0	0
2006	0	0
Total	0	0

Survey proportions at age by index

Index number 1

N/A

Index number 2

N/A
Index number 3
N/A
Index number 4
N/A
Index number 5
N/A
Index number 6
N/A
Index number 7
N/A
Index number 8
N/A
Index number 9
N/A
Index number 10
N/A
Index number 11
N/A
Index number 12
N/A
Index number 13
N/A
Index number 14
N/A
Index number 15
N/A
Index number 16
N/A
Index number 17
N/A
Index number 18
N/A
Index number 19
N/A
Index number 20
N/A
Index number 21
N/A
Index number 22
N/A
Index number 23
N/A
Index number 24
N/A
Index number 25
N/A
Index number 26
N/A
Index number 27
N/A
Index number 28
N/A
Index number 29
N/A
Index number 30
N/A

Index number 31
 N/A
 Index number 32
 N/A
 Index number 33
 N/A
 Index number 34
 N/A
 Index number 35
 N/A
 Index number 36
 N/A
 Index number 37
 N/A
 Index number 38
 N/A
 Index number 39
 N/A

Index Selectivity at Age

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

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

Deviations section: only applicable if associated lambda > 0

Nyear1 observed, expected, standardized residual

2	46097.5	29432.6	0.582463
3	20491.6	13698.4	0.522845
4	3100.5	3444.62	-0.136638
5	692.968	836.223	-0.243953
6	234.633	202.709	0.189872
7	62.2202	49.1364	0.306488
8	17.4489	15.7722	0.131159

Fleet Obs, Initial, and Standardized Residual for Fmult

1	1.16717	0.9	0.337468
2	0.0183138	0.1	-2.20377

Standardized Residuals for Fmult_devs by fleet and year

N/A

Index Obs, Initial, and Standardized Residual for q_year1

N/A

Standardized Residuals for catchability deviations by index and year

index 1 q_devs standardized residuals

2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0

index 2 q_devs standardized residuals

2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0

index 3 q_devs standardized residuals

2	0
3	0

```
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
  index 4 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
  index 5 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
  index 6 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
```

17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0

index 7 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0

index 8 q_devs standardized residuals

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

24 0
index 9 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
index 10 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
index 11 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0

```
22 0
23 0
24 0
  index 12 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
  index 13 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
  index 14 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
```


9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0

index 15 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0

index 16 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0

16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
index 17 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
index 18 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
index 19 q_devs standardized residuals
2 0
3 0

```
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
  index 20 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
  index 21 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
```

16 0
17 0
18 0
19 0
20 0
21 0
22 0
index 22 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
index 23 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
index 24 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0

```
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
  index 25 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
  index 26 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
```

17 0
18 0
19 0
20 0
index 27 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
index 28 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
index 29 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0

```
index 30 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
index 31 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
index 32 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
index 33 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
```

8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
index 34 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
index 35 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0

21 0
22 0
23 0
24 0
25 0
index 36 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
index 37 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0
22 0
23 0
24 0
25 0
index 38 q_devs standardized residuals
2 0
3 0
4 0
5 0
6 0
7 0
8 0

9 0
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0
19 0
20 0
21 0

index 39 q_devs standardized residuals

2 0
3 0
4 0
5 0
6 0
7 0
8 0
9 0
10 0
11 0
12 0
13 0
14 0
15 0

Obs, Initial, and Standardized Residual for SRR steepness
0.999992 0.7 0.463037

Obs, Initial, and Standardized Residual for SRR unexpl S
208922 22026.5 2.92066

End of Deviations Section

Selectivity by age and year for each fleet

fleet 1 selectivity at age

0.0215206	0.416827	0.958726	0.998677	0.999959	0.999999	1	1
0.0215206	0.416827	0.958726	0.998677	0.999959	0.999999	1	1
0.0215206	0.416827	0.958726	0.998677	0.999959	0.999999	1	1
0.0215206	0.416827	0.958726	0.998677	0.999959	0.999999	1	1
0.0215206	0.416827	0.958726	0.998677	0.999959	0.999999	1	1
0.0215206	0.416827	0.958726	0.998677	0.999959	0.999999	1	1
0.0215206	0.416827	0.958726	0.998677	0.999959	0.999999	1	1
0.0215206	0.416827	0.958726	0.998677	0.999959	0.999999	1	1
0.0215206	0.416827	0.958726	0.998677	0.999959	0.999999	1	1
0.0215206	0.416827	0.958726	0.998677	0.999959	0.999999	1	1
0.0215206	0.416827	0.958726	0.998677	0.999959	0.999999	1	1
0.0215206	0.416827	0.958726	0.998677	0.999959	0.999999	1	1
0.00475839	0.0805912	0.616423	0.967173	0.998152	0.999899	0.999995	1
0.00475839	0.0805912	0.616423	0.967173	0.998152	0.999899	0.999995	1
0.00475839	0.0805912	0.616423	0.967173	0.998152	0.999899	0.999995	1
0.00475839	0.0805912	0.616423	0.967173	0.998152	0.999899	0.999995	1
0.00475839	0.0805912	0.616423	0.967173	0.998152	0.999899	0.999995	1

```

0.00475839 0.0805912 0.616423 0.967173 0.998152 0.999899 0.999995 1
0.00475839 0.0805912 0.616423 0.967173 0.998152 0.999899 0.999995 1
0.00475839 0.0805912 0.616423 0.967173 0.998152 0.999899 0.999995 1
0.00475839 0.0805912 0.616423 0.967173 0.998152 0.999899 0.999995 1
0.00475839 0.0805912 0.616423 0.967173 0.998152 0.999899 0.999995 1
0.00475839 0.0805912 0.616423 0.967173 0.998152 0.999899 0.999995 1
0.00475839 0.0805912 0.616423 0.967173 0.998152 0.999899 0.999995 1
fleet 2 selectivity at age
0.133702 1 0.0802054 0.00245455 7.25202e-05 2.14053e-06 6.31787e-08
1.86475e-09
0.133702 1 0.0802054 0.00245455 7.25202e-05 2.14053e-06 6.31787e-08
1.86475e-09
0.133702 1 0.0802054 0.00245455 7.25202e-05 2.14053e-06 6.31787e-08
1.86475e-09
0.133702 1 0.0802054 0.00245455 7.25202e-05 2.14053e-06 6.31787e-08
1.86475e-09
0.133702 1 0.0802054 0.00245455 7.25202e-05 2.14053e-06 6.31787e-08
1.86475e-09
0.133702 1 0.0802054 0.00245455 7.25202e-05 2.14053e-06 6.31787e-08
1.86475e-09
0.133702 1 0.0802054 0.00245455 7.25202e-05 2.14053e-06 6.31787e-08
1.86475e-09
0.133702 1 0.0802054 0.00245455 7.25202e-05 2.14053e-06 6.31787e-08
1.86475e-09
0.133702 1 0.0802054 0.00245455 7.25202e-05 2.14053e-06 6.31787e-08
1.86475e-09
0.133702 1 0.0802054 0.00245455 7.25202e-05 2.14053e-06 6.31787e-08
1.86475e-09
0.133702 1 0.0802054 0.00245455 7.25202e-05 2.14053e-06 6.31787e-08
1.86475e-09
0.133702 1 0.0802054 0.00245455 7.25202e-05 2.14053e-06 6.31787e-08
1.86475e-09
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
0.0518731 0.678162 1 0.611287 0.268835 0.0975971 0.0326055 0.010573
Fmult by year for each fleet
1982 1.16717 0.0183138
1983 1.48343 0.020692
1984 1.61285 0.0237742
1985 1.51984 0.00752327
1986 1.72254 0.0411853
1987 1.45364 0.0344747
1988 2.03915 0.0324351
1989 1.54132 0.20824
1990 1.13723 0.205264

```

1991 1.48912 0.201339
 1992 1.52686 0.131097
 1993 1.29194 0.187333
 1994 1.20967 0.137756
 1995 1.70026 0.0708106
 1996 1.38945 0.0604837
 1997 0.857348 0.0429645
 1998 0.778703 0.0528017
 1999 0.534662 0.114668
 2000 0.654278 0.0743959
 2001 0.474666 0.0689756
 2002 0.416379 0.0465999
 2003 0.39584 0.0478539
 2004 0.433208 0.0462099
 2005 0.457068 0.0517367
 2006 0.383415 0.047729

Directed F by age and year for each fleet

fleet 1 directed F at age
 0.0251183 0.486509 1.119 1.16563 1.16712 1.16717 1.16717 1.16717
 0.0319243 0.618333 1.4222 1.48146 1.48337 1.48343 1.48343 1.48343
 0.0347094 0.672278 1.54628 1.61071 1.61278 1.61284 1.61285 1.61285
 0.0327079 0.633511 1.45711 1.51783 1.51978 1.51984 1.51984 1.51984
 0.0370702 0.718002 1.65144 1.72026 1.72247 1.72254 1.72254 1.72254
 0.0312833 0.605918 1.39365 1.45172 1.45358 1.45364 1.45364 1.45364
 0.0438838 0.849974 1.95499 2.03645 2.03907 2.03915 2.03915 2.03915
 0.0331701 0.642463 1.4777 1.53928 1.54125 1.54132 1.54132 1.54132
 0.0244739 0.474029 1.09029 1.13573 1.13718 1.13723 1.13723 1.13723
 0.0320467 0.620704 1.42765 1.48715 1.48905 1.48911 1.48912 1.48912
 0.032859 0.636437 1.46384 1.52484 1.5268 1.52686 1.52686 1.52686
 0.0278033 0.538514 1.23861 1.29023 1.29188 1.29193 1.29194 1.29194
 0.0260328 0.504223 1.15974 1.20807 1.20962 1.20967 1.20967 1.20967
 0.00809047 0.137026 1.04808 1.64444 1.69711 1.70008 1.70025 1.70026
 0.00661154 0.111977 0.85649 1.34384 1.38688 1.38931 1.38944 1.38945
 0.00407959 0.0690947 0.52849 0.829205 0.855764 0.857262 0.857344 0.857348
 0.00370537 0.0627566 0.480011 0.753141 0.777264 0.778625 0.778699 0.778703
 0.00254413 0.0430891 0.329578 0.517111 0.533674 0.534609 0.53466 0.534662
 0.00311331 0.0527291 0.403312 0.6328 0.653069 0.654212 0.654275 0.654278
 0.00225864 0.0382539 0.292595 0.459084 0.473789 0.474618 0.474664 0.474666
 0.00198129 0.0335565 0.256666 0.402711 0.41561 0.416337 0.416377 0.416379
 0.00188356 0.0319012 0.244005 0.382846 0.395109 0.395801 0.395838 0.39584
 0.00206137 0.0349128 0.26704 0.418987 0.432408 0.433164 0.433206 0.433208
 0.0021749 0.0368356 0.281747 0.442064 0.456223 0.457022 0.457065 0.457068
 0.00182444 0.0308999 0.236346 0.370829 0.382707 0.383377 0.383413 0.383415
 fleet 2 directed F at age
 0.0024486 0.0183138 0.00146887 4.49522e-05 1.32812e-06 3.92012e-08 1.15704e-09 3.41506e-11
 0.00276657 0.020692 0.00165961 5.07896e-05 1.50059e-06 4.42918e-08 1.30729e-09 3.85854e-11
 0.00317867 0.0237742 0.00190682 5.83551e-05 1.72411e-06 5.08894e-08 1.50202e-09 4.43329e-11
 0.00100588 0.00752327 0.000603407 1.84663e-05 5.45589e-07 1.61038e-08 4.7531e-10 1.4029e-11
 0.00550657 0.0411853 0.00330328 0.000101091 2.98676e-06 8.81582e-08 2.60203e-09 7.68001e-11
 0.00460934 0.0344747 0.00276505 8.46199e-05 2.50011e-06 7.37939e-08 2.17806e-09 6.42865e-11

0.00445842 0.0662505 0.313249 0.447235 0.44483 0.437674 0.434712 0.433697
 0.00485865 0.0719215 0.333484 0.47369 0.470132 0.462071 0.458752 0.457615
 0.00430029 0.0632679 0.284075 0.400005 0.395538 0.388035 0.38497 0.38392

Average F for ages 4 to 8

Freport unweighted in .std and MCMC files

year	unweighted	Nweighted	Bweighted
1982	1.16686	1.16603	1.16616
1983	1.48303	1.48182	1.48201
1984	1.61242	1.6112	1.61138
1985	1.51943	1.51819	1.51838
1986	1.72209	1.72069	1.72089
1987	1.45326	1.45225	1.45249
1988	2.03861	2.03691	2.03718
1989	1.541	1.54001	1.54013
1990	1.13702	1.1364	1.13646
1991	1.48881	1.48825	1.48842
1992	1.52651	1.5254	1.52555
1993	1.29168	1.29088	1.29094
1994	1.20941	1.20863	1.20877
1995	1.70289	1.69252	1.69571
1996	1.39213	1.38344	1.38466
1997	0.860157	0.856479	0.857079
1998	0.784067	0.786331	0.786586
1999	0.554356	0.57827	0.574694
2000	0.664917	0.674681	0.672329
2001	0.485448	0.49604	0.493032
2002	0.422997	0.428309	0.426433
2003	0.402858	0.408729	0.40649
2004	0.43963	0.444377	0.442453
2005	0.464452	0.469907	0.467607
2006	0.390494	0.39498	0.392482

Population Numbers at the Start of the Year

74147.3 46097.5 20491.6 3100.5 692.968 234.633 62.2202 17.4489
 82039.7 55616.9 21454.6 5152.84 752.685 167.982 56.8748 19.3542
 46771.4 61100.1 22634.2 3983.17 912.135 132.991 29.6788 13.5023
 56129.1 34722.3 23487.3 3710.91 619.593 141.6 20.6442 6.72408
 61947.2 41843.7 14102.4 4215.41 633.452 105.56 24.123 4.67397
 47090.5 45773.5 15100.9 2078.41 587.654 88.121 14.6838 4.01228
 12802.8 35029.1 18602.8 2881.59 379.006 106.97 16.0397 3.41038
 29010.6 9406.9 11176 2025.31 292.822 38.4163 10.8417 1.97479
 36354.6 21044.7 3097.95 1933.57 338.218 48.8276 6.40555 2.14034
 31129.8 26613.1 8226.45 789.768 483.423 84.4779 12.1955 2.13984
 35353.8 22628.3 9019.25 1497.13 138.948 84.9296 14.8407 2.52215
 37375.2 25920.1 8098.39 1592.02 253.698 23.5068 14.3674 2.94154
 42617.1 27334.7 9671.4 1782.52 341.065 54.285 5.02968 3.70986
 49497.1 31431.3 11091.5 2312.62 414.625 79.237 12.6111 2.03897
 36879.6 37718.5 20141 2793.48 333.089 58.0453 11.1948 2.08237
 37100.5 28160.2 24957 6207.66 546.881 63.769 11.2011 2.57645
 40690.8 28426.5 19681.5 10866.7 2055.08 178.916 20.9851 4.55557
 32541.3 31173.2 19861 8907.25 3858.52 725.319 63.6335 9.1326
 40049.8 24878.9 21300 9820.88 3856.11 1708.79 327.279 33.1297
 37680.4 30665.9 17302.3 10185.8 3881.54 1532.02 686.815 145.709
 42406.4 28884.4 21717.5 9293.04 4805.44 1847.63 737.3 403.257
 29083.7 32554 20866.5 12364.8 4702.38 2439.06 944.609 587.154
 42095.4 22327.3 23536.4 12016.5 6377.37 2435.36 1272.7 805.149

21750.5 32313.3 16111.9 13267.2 5983.76 3183.32 1224.36 1052.22
41333.5 16689.5 23186.2 8900.22 6434.07 2912.23 1561.82 1126.47

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index 1 q over time

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index 2 q over time

1992 0.000379715
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index 3 q over time

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index 4 q over time

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index 5 q over time

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index 6 q over time

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index 7 q over time

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index 8 q over time	
1982	3.0458e-05
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index 9 q over time	
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index 11 q over time
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index 12 q over time
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index 13 q over time

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index 14 q over time

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index 15 q over time

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index 16 q over time

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index 18 q over time
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index 22 q over time

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index 23 q over time

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index 24 q over time

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index 25 q over time

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index 26 q over time

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index 27 q over time
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index 28 q over time
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index 29 q over time
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index 30 q over time

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1998 6.57392e-05
1999 6.57392e-05
2000 6.57392e-05
2001 6.57392e-05
2002 6.57392e-05
2003 6.57392e-05
2004 6.57392e-05
2005 6.57392e-05
2006 6.57392e-05

index 31 q over time

1990 4.05181e-05
1991 4.05181e-05
1992 4.05181e-05
1993 4.05181e-05
1995 4.05181e-05
1996 4.05181e-05
1997 4.05181e-05
1998 4.05181e-05
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2000 4.05181e-05
2001 4.05181e-05
2002 4.05181e-05
2003 4.05181e-05
2004 4.05181e-05
2005 4.05181e-05
2006 4.05181e-05

index 32 q over time

1992 8.21149e-05
1993 8.21149e-05
1994 8.21149e-05
1995 8.21149e-05
1996 8.21149e-05
1997 8.21149e-05
1998 8.21149e-05
1999 8.21149e-05
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2001 8.21149e-05

2002 8.21149e-05
2003 8.21149e-05
2004 8.21149e-05
2005 8.21149e-05
2006 8.21149e-05
index 33 q over time
1985 1.5596e-06
1986 1.5596e-06
1987 1.5596e-06
1988 1.5596e-06
1990 1.5596e-06
1991 1.5596e-06
1992 1.5596e-06
1993 1.5596e-06
1994 1.5596e-06
1995 1.5596e-06
1996 1.5596e-06
1997 1.5596e-06
1999 1.5596e-06
2000 1.5596e-06
2001 1.5596e-06
2002 1.5596e-06
2004 1.5596e-06
2005 1.5596e-06
2006 1.5596e-06
index 34 q over time
1982 2.43217e-05
1983 2.43217e-05
1984 2.43217e-05
1985 2.43217e-05
1986 2.43217e-05
1987 2.43217e-05
1988 2.43217e-05
1989 2.43217e-05
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2001 2.43217e-05
2002 2.43217e-05
2003 2.43217e-05
2004 2.43217e-05
2005 2.43217e-05
2006 2.43217e-05
index 35 q over time
1982 0.000205979
1983 0.000205979
1984 0.000205979
1985 0.000205979
1986 0.000205979

1987 0.000205979
1988 0.000205979
1989 0.000205979
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2000 0.000205979
2001 0.000205979
2002 0.000205979
2003 0.000205979
2004 0.000205979
2005 0.000205979
2006 0.000205979

index 36 q over time

1988 3.31326e-05
1989 3.31326e-05
1990 3.31326e-05
1991 3.31326e-05
1992 3.31326e-05
1993 3.31326e-05
1994 3.31326e-05
1995 3.31326e-05
1996 3.31326e-05
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2000 3.31326e-05
2001 3.31326e-05
2002 3.31326e-05
2003 3.31326e-05
2004 3.31326e-05
2005 3.31326e-05
2006 3.31326e-05

index 37 q over time

1982 7.0582e-06
1983 7.0582e-06
1984 7.0582e-06
1985 7.0582e-06
1986 7.0582e-06
1987 7.0582e-06
1988 7.0582e-06
1989 7.0582e-06
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2000 7.0582e-06
2001 7.0582e-06
2002 7.0582e-06
2003 7.0582e-06
2004 7.0582e-06
2005 7.0582e-06
2006 7.0582e-06

index 38 q over time

1986 4.6466e-06
1987 4.6466e-06
1988 4.6466e-06
1989 4.6466e-06
1990 4.6466e-06
1991 4.6466e-06
1992 4.6466e-06
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2001 4.6466e-06
2002 4.6466e-06
2003 4.6466e-06
2004 4.6466e-06
2005 4.6466e-06
2006 4.6466e-06

index 39 q over time

1990 8.78618e-07
1992 8.78618e-07
1993 8.78618e-07
1994 8.78618e-07
1995 8.78618e-07
1996 8.78618e-07
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1999 8.78618e-07
2000 8.78618e-07
2001 8.78618e-07
2002 8.78618e-07
2003 8.78618e-07
2004 8.78618e-07
2005 8.78618e-07
2006 8.78618e-07

Proportions of catch at age by fleet

fleet 1

Year 1 Obs = 0.145346 0.527962 0.285212 0.0262759 0.00921763 0.00325989
0.00188287 0.000843076
Year 1 Pred = 0.0501276 0.485472 0.385065 0.0598691 0.0133905 0.00453402
0.00120234 0.000338484
Year 2 Obs = 0.102313 0.592534 0.235019 0.046978 0.014927 0.00695731
0.000344634 0.000926205

Year 2 Pred = 0.0515077 0.515091 0.335066 0.0823855 0.0120416 0.00268746
0.00090991 0.000310762
Year 3 Obs = 0.0923461 0.514057 0.310783 0.0639504 0.0166714 0.00191047
8.04408e-05 0.000201102
Year 3 Pred = 0.0294064 0.553985 0.338951 0.0609848 0.0139734 0.00203737
0.00045467 0.000207584
Year 4 Obs = 0.0551004 0.389786 0.48609 0.0477735 0.0134101 0.0068132
0.000811096 0.000216292
Year 4 Pred = 0.0446351 0.406774 0.458692 0.0741354 0.0123853 0.00283055
0.000412673 0.000134898
Year 5 Obs = 0.0541701 0.481455 0.33418 0.114325 0.00955231 0.00423204
0.00175327 0.000332517
Year 5 Pred = 0.0567177 0.539261 0.296841 0.0906581 0.0136308 0.00227152
0.000519095 0.000100926
Year 6 Obs = 0.0342164 0.530752 0.359106 0.0546401 0.0180365 0.000828885
0.000961507 0.00145884
Year 6 Pred = 0.0401321 0.575437 0.323553 0.045623 0.0129078 0.0019356
0.000322534 8.84532e-05
Year 7 Obs = 0.019327 0.520696 0.382537 0.0562958 0.0169045 0.00318606
0.00050029 0.000552952
Year 7 Pred = 0.0135986 0.499142 0.411034 0.0648465 0.00853295 0.00240837
0.000361125 7.70321e-05
Year 8 Obs = 0.0135973 0.244752 0.573632 0.134542 0.0280693 0.00437341
0.000715649 0.000318066
Year 8 Pred = 0.0589844 0.261508 0.557855 0.103976 0.0150443 0.00197375
0.000557027 0.000101825
Year 9 Obs = 0.0381106 0.599356 0.22759 0.106817 0.0237252 0.00322061
0.00085883 0.000322061
Year 9 Pred = 0.0727537 0.615739 0.175262 0.113088 0.0197991 0.00285842
0.000374988 0.000125786
Year 10 Obs = 0.0053826 0.484685 0.447632 0.0464406 0.0135817 0.00200283
0.000187765 8.76238e-05
Year 10 Pred = 0.0486606 0.574966 0.32123 0.0317319 0.0194382 0.0033969
0.000490386 8.63564e-05
Year 11 Obs = 0.01193 0.544721 0.361714 0.068128 0.00908374 0.00423908
0.000121116 6.2375e-05
Year 11 Pred = 0.0570444 0.514044 0.358065 0.0610084 0.00566607 0.00346336
0.000605194 0.000103222
Year 12 Obs = 0.0148636 0.565594 0.372496 0.0378054 0.00484684 0.00297273
0.00122787 0.000193874
Year 12 Pred = 0.0551557 0.548635 0.319465 0.0647546 0.0103276 0.000956943
0.000584885 0.0001202
Year 13 Obs = 0.0546856 0.475376 0.397561 0.0573153 0.0123715 0.00161367
0.000776954 0.000299127
Year 13 Pred = 0.0549959 0.522105 0.342966 0.0651516 0.0124762 0.0019858
0.000183991 0.000136231
Year 14 Obs = 0.0207846 0.319422 0.53252 0.091242 0.0297887 0.00577766
0.000375173 9.00414e-05
Year 14 Pred = 0.0287613 0.285124 0.517332 0.137791 0.0252455 0.00484831
0.000772906 0.000125466
Year 15 Obs = 0.00721218 0.305647 0.549804 0.106069 0.0255535 0.00447653
0.000994784 0.000242479
Year 15 Pred = 0.0134081 0.217083 0.636136 0.116147 0.0141755 0.00248183
0.000479369 8.95431e-05
Year 16 Obs = 0.000317763 0.122736 0.576343 0.24285 0.0439307 0.0127105
0.000794407 0.000317763

Year 16 Pred = 0.00938324 0.115482 0.632443 0.219956 0.0199016 0.00233026
0.000409806 9.46869e-05
Year 17 Obs = 0.00138878 0.116581 0.411079 0.383149 0.0756114 0.0106473
0.00146594 7.71545e-05
Year 17 Pred = 0.00922745 0.104514 0.454772 0.355379 0.0691876 0.0060533
0.000711051 0.000155079
Year 18 Obs = 0.000105218 0.0414558 0.426763 0.380993 0.111741 0.0324071
0.00536611 0.00116792
Year 18 Pred = 0.00677865 0.104288 0.438672 0.291278 0.131503 0.0249647
0.00219746 0.000317104
Year 19 Obs = 0 0.0624861 0.480027 0.317861 0.106896 0.0255895 0.00520717
0.00193409
Year 19 Pred = 0.00789122 0.0793243 0.438166 0.291966 0.118572 0.0528955
0.0101525 0.00103283
Year 20 Obs = 0 0.155561 0.362784 0.319844 0.115401 0.0324924 0.0108308
0.0030863
Year 20 Pred = 0.0073125 0.0970759 0.368907 0.321716 0.12702 0.0504645
0.0226699 0.00483395
Year 21 Obs = 9.43556e-05 0.0640675 0.434696 0.340718 0.119266 0.0278349
0.0117945 0.00152856
Year 21 Pred = 0.00721366 0.0808479 0.416407 0.265168 0.141703 0.0547542
0.0218809 0.0120265
Year 22 Obs = 0 0.0676562 0.371839 0.344235 0.139101 0.0496146 0.0200262
0.00752842
Year 22 Pred = 0.0044455 0.0819061 0.361364 0.319725 0.125718 0.0655412
0.0254204 0.0158792
Year 23 Obs = 0.00188235 0.041098 0.374195 0.341019 0.147294 0.0595293
0.0232941 0.0116878
Year 23 Pred = 0.00607367 0.0529814 0.381056 0.288777 0.158336 0.0607626
0.0317988 0.0202156
Year 24 Obs = 0.000249326 0.0587578 0.252733 0.332435 0.185748 0.0877627
0.0421361 0.0401781
Year 24 Pred = 0.00335535 0.0817784 0.276415 0.336998 0.157107 0.084024
0.0323676 0.0279542
Year 25 Obs = 0.000371652 0.0432045 0.378063 0.286822 0.162969 0.0790689
0.0336345 0.0158658
Year 25 Pred = 0.00627273 0.0417106 0.400065 0.229721 0.171729 0.0781265
0.0419607 0.0304145
fleet 2
Year 1 Obs = 0.212871 0.787129 0 0 0 0 0 0
Year 1 Pred = 0.206453 0.772093 0.0213553 9.75463e-05 6.43776e-07 6.43377e-
09 5.03567e-11 4.18427e-13
Year 2 Obs = 0.158085 0.841915 0 0 0 0 0 0
Year 2 Pred = 0.202025 0.78015 0.0176966 0.000127834 5.51327e-07 3.63172e-09
3.62926e-11 3.65846e-13
Year 3 Obs = 0.170732 0.829268 0 0 0 0 0 0
Year 3 Pred = 0.118613 0.862879 0.01841 9.73144e-05 6.57939e-07 2.83139e-09
1.86498e-11 2.51317e-13
Year 4 Obs = 0.162602 0.837398 0 0 0 0 0 0
Year 4 Pred = 0.214676 0.755476 0.0297066 0.000141057 6.95354e-07 4.69046e-
09 2.01836e-11 1.94737e-13
Year 5 Obs = 0.109729 0.890271 0 0 0 0 0 0
Year 5 Pred = 0.210855 0.774151 0.0148599 0.000133333 5.91535e-07 2.90951e-
09 1.96246e-11 1.12617e-13
Year 6 Obs = 0.0805471 0.919453 0 0 0 0 0 0
Year 6 Pred = 0.150469 0.833128 0.0163352 6.76708e-05 5.64933e-07 2.50039e-
09 1.22975e-11 9.95412e-14

Year 7 Obs = 0.0763889 0.923611 0 0 0 0 0 0
Year 7 Pred = 0.0641732 0.909586 0.0261194 0.000121063 4.70059e-07 3.9158e-09 1.73302e-11 1.09111e-13
Year 8 Obs = 0.303895 0.659853 0.0362514 0 0 0 0 0
Year 8 Pred = 0.352104 0.602808 0.0448416 0.000245544 1.04833e-06 4.05941e-09 3.3814e-11 1.82442e-13
Year 9 Obs = 0.313165 0.672856 0.0139787 0 0 0 0 0
Year 9 Pred = 0.232493 0.759821 0.00754166 0.000142966 7.38573e-07 3.14716e-09 1.21859e-11 1.20648e-13
Year 10 Obs = 0.172122 0.827878 0 0 0 0 0 0
Year 10 Pred = 0.176932 0.807293 0.0157279 4.56445e-05 8.25045e-07 4.25548e-09 1.81323e-11 9.42453e-14
Year 11 Obs = 0.341791 0.646836 0.0104987 0.000874891 0 0 0 0
Year 11 Pred = 0.219073 0.762318 0.0185167 9.2689e-05 2.54009e-07 4.58258e-09 2.3635e-11 1.18982e-13
Year 12 Obs = 0.237464 0.722774 0.0395405 0.000220897 0 0 0 0
Year 12 Pred = 0.203271 0.78078 0.0158538 9.44102e-05 4.443e-07 1.21509e-09 2.19201e-11 1.32961e-13
Year 13 Obs = 0.196259 0.67182 0.122943 0.00897756 0 0 0 0
Year 13 Pred = 0.210509 0.771715 0.0176773 9.8657e-05 5.5746e-07 2.61886e-09 7.1618e-12 1.56513e-13
Year 14 Obs = 0.154639 0.738519 0.0965323 0.0103093 0 0 0 0
Year 14 Pred = 0.0859848 0.657975 0.230155 0.0238832 0.00186467 0.000129778 6.91113e-06 3.63794e-07
Year 15 Obs = 0.0323009 0.834956 0.105752 0.0269912 0 0 0 0
Year 15 Pred = 0.0474209 0.592638 0.334802 0.0238159 0.00123864 7.85907e-05 5.07085e-06 3.07148e-07
Year 16 Obs = 0.0158494 0.52947 0.407628 0.047053 0 0 0 0
Year 16 Pred = 0.0455706 0.432921 0.45708 0.0619334 0.00238795 0.000101329 5.95278e-06 4.46002e-07
Year 17 Obs = 0.0119311 0.379585 0.483429 0.125055 0 0 0 0
Year 17 Pred = 0.0512786 0.448323 0.376086 0.1145 0.00949923 0.000301193 1.18186e-05 8.35836e-07
Year 18 Obs = 0.0376254 0.378344 0.467809 0.116221 0 0 0 0
Year 18 Pred = 0.0391998 0.465521 0.377501 0.0976577 0.0187881 0.0012926 3.80077e-05 1.77851e-06
Year 19 Obs = 0.00768693 0.262404 0.544025 0.185884 0 0 0 0
Year 19 Pred = 0.0510138 0.395833 0.421521 0.109429 0.0189379 0.00306168 0.000196302 6.47567e-06
Year 20 Obs = 0.00380491 0.470425 0.343826 0.176064 0.00588032 0 0 0
Year 20 Pred = 0.0458584 0.469924 0.344277 0.116973 0.0196802 0.00283359 0.000425218 2.94015e-05
Year 21 Obs = 0.0455251 0.356441 0.408174 0.18986 0 0 0 0
Year 21 Pred = 0.0477635 0.413211 0.410295 0.101793 0.0231805 0.00324605 0.000433327 7.72312e-05
Year 22 Obs = 0.0224967 0.462726 0.37715 0.110278 0.0172034 0.00441112 0.00441112 0.00132333
Year 22 Pred = 0.0309219 0.439769 0.374049 0.128938 0.0216047 0.00408185 0.000528855 0.000107125
Year 23 Obs = 0.0436105 0.277383 0.470588 0.182556 0.0147059 0.00456389 0.0035497 0.0030426
Year 23 Pred = 0.0485937 0.327201 0.453685 0.133952 0.0312977 0.00435274 0.000760936 0.000156866
Year 24 Obs = 0.100781 0.466406 0.326172 0.0828125 0.0117188 0.00507813 0.00390625 0.003125
Year 24 Pred = 0.0254366 0.478545 0.311832 0.148118 0.0294253 0.00570324 0.000733907 0.000205534

Year 25 Obs = 0.0755703 0.285646 0.507605 0.0936312 0.019962 0.00855513
0.00522814 0.00380228
Year 25 Pred = 0.0538803 0.276556 0.511379 0.114402 0.0364437 0.00600855
0.00107802 0.000253378

Proportions of Discards at age by fleet
fleet 1

Year 1 Obs = 0 0 0 0 0 0 0
Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 2 Obs = 0 0 0 0 0 0 0
Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 3 Obs = 0 0 0 0 0 0 0
Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 4 Obs = 0 0 0 0 0 0 0
Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 5 Obs = 0 0 0 0 0 0 0
Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 6 Obs = 0 0 0 0 0 0 0
Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 7 Obs = 0 0 0 0 0 0 0
Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 8 Obs = 0 0 0 0 0 0 0
Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 9 Obs = 0 0 0 0 0 0 0
Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 10 Obs = 0 0 0 0 0 0 0
Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 11 Obs = 0 0 0 0 0 0 0
Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 12 Obs = 0 0 0 0 0 0 0
Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 13 Obs = 0 0 0 0 0 0 0
Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 14 Obs = 0 0 0 0 0 0 0
Year 14 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 15 Obs = 0 0 0 0 0 0 0
Year 15 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 16 Obs = 0 0 0 0 0 0 0
Year 16 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 17 Obs = 0 0 0 0 0 0 0
Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 18 Obs = 0 0 0 0 0 0 0
Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 19 Obs = 0 0 0 0 0 0 0
Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 20 Obs = 0 0 0 0 0 0 0
Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 21 Obs = 0 0 0 0 0 0 0
Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 22 Obs = 0 0 0 0 0 0 0
Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 23 Obs = 0 0 0 0 0 0 0
Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 24 Obs = 0 0 0 0 0 0 0
Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 25 Obs = 0 0 0 0 0 0 0
Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15

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fleet 2
Year 1 Obs = 0 0 0 0 0 0 0 0
Year 1 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 2 Obs = 0 0 0 0 0 0 0 0
Year 2 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 3 Obs = 0 0 0 0 0 0 0 0
Year 3 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 4 Obs = 0 0 0 0 0 0 0 0
Year 4 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 5 Obs = 0 0 0 0 0 0 0 0
Year 5 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 6 Obs = 0 0 0 0 0 0 0 0
Year 6 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 7 Obs = 0 0 0 0 0 0 0 0
Year 7 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 8 Obs = 0 0 0 0 0 0 0 0
Year 8 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 9 Obs = 0 0 0 0 0 0 0 0
Year 9 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 10 Obs = 0 0 0 0 0 0 0 0
Year 10 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 11 Obs = 0 0 0 0 0 0 0 0
Year 11 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 12 Obs = 0 0 0 0 0 0 0 0
Year 12 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 13 Obs = 0 0 0 0 0 0 0 0
Year 13 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 14 Obs = 0 0 0 0 0 0 0 0
Year 14 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 15 Obs = 0 0 0 0 0 0 0 0
Year 15 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 16 Obs = 0 0 0 0 0 0 0 0
Year 16 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 17 Obs = 0 0 0 0 0 0 0 0
Year 17 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 18 Obs = 0 0 0 0 0 0 0 0
Year 18 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 19 Obs = 0 0 0 0 0 0 0 0
Year 19 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 20 Obs = 0 0 0 0 0 0 0 0
Year 20 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 21 Obs = 0 0 0 0 0 0 0 0
Year 21 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 22 Obs = 0 0 0 0 0 0 0 0
Year 22 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 23 Obs = 0 0 0 0 0 0 0 0
Year 23 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 24 Obs = 0 0 0 0 0 0 0 0
Year 24 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15
Year 25 Obs = 0 0 0 0 0 0 0 0
Year 25 Pred = 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15 1e-15

```

F Reference Points Using Final Year Selectivity and Freport options

refpt	F	slope to plot on SRR
F0.1	0.201379	0.481665
Fmax	0.434226	0.851622
F30%SPR	0.318992	0.668277

F40%SPR	0.213929	0.501212				
Fmsy	0.434207	0.851591	SSBmsy	46077.8	MSY	15064.7
Fcurrent	0.390494	0.78256				

Stock-Recruitment Relationship Parameters

alpha = 39239.8
 beta = 0.416052
 unexpl = 208922
 steepness = 0.999992

Spawning Stock, Obs Recruits(year+1), Pred Recruits(year+1), standardized residual

init	xxxx	74147.3	39238.9	1.34719
1982	24658	82039.7	39239.2	1.5613
1983	24675.5	46771.4	39239.2	0.371725
1984	21059.6	56129.1	39239	0.757827
1985	18833.3	61947.2	39239	0.96662
1986	17757.8	47090.5	39238.9	0.386134
1987	18269.3	12802.8	39238.9	-2.37098
1988	10878.2	29010.6	39238.3	-0.639301
1989	7056.54	36354.6	39237.5	-0.161547
1990	9642.29	31129.8	39238.1	-0.490035
1991	9199.32	35353.8	39238	-0.220669
1992	10534.5	37375.2	39238.3	-0.102981
1993	12114.1	42617.1	39238.5	0.174854
1994	15155.3	49497.1	39238.7	0.491658
1995	20765.1	36879.6	39239	-0.131279
1996	23449.2	37100.5	39239.1	-0.118642
1997	24551.8	40690.8	39239.2	0.0769026
1998	27186	32541.3	39239.2	-0.396219
1999	28089.3	40049.8	39239.2	0.0432819
2000	30541.4	37680.4	39239.3	-0.0858197
2001	36127.8	42406.4	39239.4	0.164315
2002	40610.9	29083.7	39239.4	-0.634034
2003	44582.7	42095.4	39239.5	0.148725
2004	42488.8	21750.5	39239.4	-1.24909
2005	39688.9	41333.5	39239.4	0.110065
2006	40198.1	xxxx	39239.4	

Root Mean Square Error computed from Standardized Residuals

Component	#resids	RMSE
_Catch_Fleet_1	25	0.239059
_Catch_Fleet_2	25	0.0178829
Catch_Fleet_Total	50	0.169512
_Discard_Fleet_1	0	0
_Discard_Fleet_2	0	0
Discard_Fleet_Total	0	0
_Index_1	15	2.53144
_Index_2	15	1.58068
_Index_3	15	1.84289
_Index_4	15	2.38926
_Index_5	14	1.88974
_Index_6	25	1.85024
_Index_7	25	1.2775
_Index_8	24	1.86402
_Index_9	20	0.971662
_Index_10	15	1.19729
_Index_11	24	0.526106

_Index_12	24	0.997466
_Index_13	22	0.887212
_Index_14	25	1.6273
_Index_15	25	1.31531
_Index_16	24	1.02876
_Index_17	22	1.59
_Index_18	23	1.27512
_Index_19	23	1.2551
_Index_20	22	1.425
_Index_21	22	1.29857
_Index_22	22	0.93778
_Index_23	22	0.813408
_Index_24	22	1.45399
_Index_25	25	1.30423
_Index_26	20	1.57201
_Index_27	17	1.51662
_Index_28	17	1.46069
_Index_29	19	1.06949
_Index_30	19	1.59007
_Index_31	16	1.37813
_Index_32	15	1.44575
_Index_33	19	1.66748
_Index_34	25	1.05645
_Index_35	25	1.06615
_Index_36	19	1.07275
_Index_37	25	1.32323
_Index_38	21	1.56898
_Index_39	15	1.38275
Index_Total	802	1.41176
Nyear1	7	0.345998
Fmult_Year1	2	1.57647
_Fmult_devs_Fleet_1	0	0
_Fmult_devs_Fleet_2	0	0
Fmult_devs_Total	0	0
Recruit_devs	0	0
Fleet_Sel_params	12	1.8027
Index_Sel_params	0	0
q_year1	0	0
q_devs	0	0
SRR_steepness	1	-0.463037
SRR_unexpl_S	1	-2.92066

Projections not requested

that's all