

SEDAR

Southeast Data, Assessment, and Review

SEDAR 28

Gulf of Mexico Spanish mackerel

SECTION III: Assessment Workshop Report

December 2012

SEDAR
4055 Faber Place Drive, Suite 201
North Charleston, SC 29405

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1. Workshop Proceedings

1.1. Introduction

1.1.1 Workshop Time and Place

The SEDAR 28 Assessment Workshop for Gulf of Mexico and South Atlantic Spanish Mackerel (*Scomberomorus maculatus*) and Cobia (*Rachycentron canadum*) was conducted as a workshop held May 7-11 2012 at the Courtyard by Marriott in Miami, FL and eleven webinars. Webinars were held on May 22, June 19, July 10, July 24, August 9, August 17, August 30, September 12th, October 23rd, November 8th, and December 10th, 2012.

1.1.2 Terms of Reference

1. Review and provide justifications for any changes in data following the data workshop and any analyses suggested by the data workshop. Summarize data as used in each assessment model.
2. Recommend a model configuration which is deemed most reliable for providing management advice using available compatible data. Document all input data, assumptions, and equations.
3. Incorporate known applicable environmental covariates into the selected model, and provide justification for why any of those covariates cannot be included at the time of the assessment.
4. Provide estimates of stock population parameters
 - Include fishing mortality, abundance, biomass, selectivity, stock-recruitment relationship, and other parameters as appropriate given data availability and modeling approaches
 - Include appropriate and representative measures of precision for parameter estimates.
5. Characterize uncertainty in the assessment and estimated values
 - Consider components such as input data, modeling approach, and model configuration.
 - Provide appropriate measures of model performance, reliability, and ‘goodness of fit’.
6. Provide yield-per-recruit, spawner - recruit, and stock-recruitment evaluations.
7. Provide estimates of stock status relative to management criteria consistent with applicable FMPs, proposed FMPs and Amendments, other ongoing or proposed management programs, and National Standards for each model run presented for review.
8. Project future stock conditions and develop rebuilding schedules if warranted; include estimated generation time. Develop stock projections in accordance with the following:
 - A) If stock is overfished:
 - F=0, F=current, F=Fmsy, Ftarget (OY),
 - F=Frebuild (max that rebuild in allowed time)
 - B) If stock is undergoing overfishing
 - F=Fcurrent, F=Fmsy, F= Ftarget (OY)

- C) If stock is neither overfished nor overfishing
 $F = F_{\text{current}}$, $F = F_{\text{msy}}$, $F = F_{\text{target}}$ (OY)
- D) If data limitations preclude classic projections (i.e. A, B, C above), explore alternate models to provide management advice
9. Provide a probability distribution function for the base model, or a combination of models that represent alternate states of nature, presented for review.
- Determine the yield associated with a probability of exceeding OFL at P* values of 30% to 50% in single percentage increments for use with the Tier 1 ABC control rule
 - Provide justification for the weightings used in producing combinations of models
10. Provide recommendations for future research and data collection. Be as specific as possible in describing sampling design and intensity, and emphasize items which will improve assessment capabilities and reliability. Recommend the interval and type for the next assessment.
11. Prepare a spreadsheet containing all model parameter estimates and all relevant population information resulting from model estimates and projection and simulation exercises. Include all data included in assessment report tables and all data that support assessment workshop figures.
12. Complete the Assessment Workshop Report (Section III: SEDAR Stock Assessment Report).

1.1.3 List of Participants

Panelists

| | | | |
|---------------|-----------------|------------------|-------------|
| Katie Andrews | Kevin Craig | Nancie Cummings | Jeff Isely |
| Rob Cheshire | Meaghan Bryan | Eric Fitzpatrick | Mike Denson |
| Read Hendon | Marcel Reichert | Scott Crosson | Bob Muller |
| Clay Porch | Sean Powers | Joe Powers | Greg Stunz |
| John Walter | John Ward | Erik Williams | |

Appointed Observers

| | | |
|--------------|----------|-------------|
| Rusty Hudson | Tom Ogle | Bill Parker |
|--------------|----------|-------------|

Council Members

Ben Hartig

Observers

| | | | |
|------------------|--------------------|------------------|-----------------|
| Erik Hiltz | Peter Barile | Tanya Darden | Joe Cimino |
| Chris Kalinowsky | Jim Franks | Julia Byrd | Karl Brenkert |
| Donna Bellais | Stephanie McInerny | Tim Sartwell | Jeanne Boylan |
| Jason Adriance | Danielle Chesky | Pearce Webster | Julie Defilippi |
| Justin Yost | Matt Perkinson | Liz Scott-Denton | Matt Cieri |
| Roberto Koenecke | Jake Tetzlaff | | |

Staff and Agency

| | | | |
|--------------------|-----------------|----------------|-----------------|
| Kari Fenske | Ryan Rindone | Mike Errigo | Sue Gerhart |
| John Carmichael | Rick Leard | Jack McGovern | Andy Strelcheck |
| Gregg Waugh | Mike Larkin | Lew Coggins | Ken Brennan |
| Kelley Fitzpatrick | Kyle Shertzer | Amy Schueller | Jennifer Potts |
| Vivian Matter | David Gloeckner | Doug DeVries | Chris Palmer |
| Steve Saul | Adam Pollack | Kevin McCarthy | Neil Baertlein |
| Michael Schirripa | Todd Gedamke | Walt Ingram | Shannon Calay |
| Andrea Grabman | | | |

1.1.4 List of Assessment Workshop Working Papers

| Documents Prepared for the Assessment Workshop | | |
|--|--|---------------|
| SEDAR28-AW01 | Florida Trip Tickets | S. Brown |
| SEDAR28-AW02 | SEDAR 28 Spanish mackerel bycatch estimates from US Atlantic coast shrimp trawls | NMFS Beaufort |

1.2. Panel Recommendations and Comment on Terms of Reference**1.2.1 Term of Reference 1**

Review and provide justifications for any changes in data following the data workshop and any analyses suggested by the data workshop. Summarize data as used in each assessment model.

All revisions to the data following the SEDAR 28 Data Workshop (DW) are reviewed in Section 2. The primary changes include 1) aggregating landings, discard, and length composition data into four fishing fleets; commercial gillnet, commercial line gears, recreational, and shrimping bycatch and 2) making the age – length observation data conditional on length.

1.2.2 Term of Reference 2

Recommend a model configuration which is deemed most reliable for providing management advice using available compatible data. Document all input data, assumptions, and equations.

A fully integrated length based statistical-catch-at-age model configured using Stock Synthesis (Methot 2011) was used for the assessment. The model description and configuration are described in Sections 3.1.1 and 3.1.3. Section 2 and Section 3.1.2 provides a complete description of all data inputs. Appendices C-F includes all input files necessary that were used to run the Stock Synthesis (SS) model.

A secondary model was explored, ASPIC a stock production model however results were deemed not useful for providing management advice for the Gulf of Mexico Spanish Mackerel resource therefore the ASPIC model was not pursued further.

1.2.3 Term of Reference 3

Incorporate known applicable environmental covariates into the selected model, and provide justification for why any of those covariates cannot be included at the time of the assessment.

At the time of the SEDAR 29 stock assessment, no applicable environmental covariates were recommended by the data or assessment workshop panels.

1.2.4 Term of Reference 4

Provide estimates of stock population parameters

- *Include fishing mortality, abundance, biomass, selectivity, stock-recruitment relationship, and other parameters as appropriate given data availability and modeling approaches*
- *Include appropriate and representative measures of precision for parameter estimates.*

Estimates of assessment model parameters and their associated standard errors are reported in Section 3.2.2 and Tables 3.1 and 3.2 for SS. Estimates of stock biomass, spawning stock biomass, recruitment, fishing mortality, and stock- recruitment relationship are presented in Tables 3.4 and Table 3.5 and Figures 3.36 – 3.42.

1.2.5 Term of Reference 5

Characterize uncertainty in the assessment and estimated values

- *Consider components such as input data, modeling approach, and model configuration.*
- *Provide appropriate measures of model performance, reliability, and ‘goodness of fit’.*

Model performance and reliability are characterized in Section 3.2.7 and Section 3.2. Uncertainty in the assessment and estimated values was characterized using a sensitivity analysis and a parametric bootstrap approach. Results of the sensitivity analysis and retrospective analysis are characterized in Section 3.2.7 and Table 3.6 and Figures 3.43 - 3.46. Uncertainty in the assessment parameters and estimated values is characterized in Section 3.2 and Table 3.7.

1.2.6 Term of Reference 6

Provide yield-per-recruit, spawner-per-recruit, and stock-recruitment evaluations.

Yield-per-recruit, spawner-per-recruit, and stock-recruitment evaluations are provided in Section 3.2.8 and Figure 3.40

1.2.7 Term of Reference 7

Provide estimates of stock status relative to management criteria consistent with applicable FMPs, proposed FMPs and Amendments, other ongoing or proposed management programs, and National Standards for each model run presented for review.

Stock status relative to a management criteria of $F_{SPR30\%}$, F_{OY} and $F_{current}$ are presented in Table 3.9 and Figures 3.47 – 3.53.

1.2.8 Term of Reference 8

Project future stock conditions and develop rebuilding schedules if warranted, including estimated generation time. Develop stock yield projections in both biomass and numbers of fish in accordance with the following:

A) If stock is overfished:

F=0, F_{Current}, F_{MSY}, F_{OY}

F=F_{Rebuild} (max that permits rebuild in allowed time)

B) If stock is undergoing overfishing:

F= F_{Current}, F_{MSY}, F_{OY}

C) If stock is neither overfished nor undergoing overfishing:

F= F_{Current}, F_{MSY}, F_{OY}

D) If data limitations preclude classic projections (i.e. A, B, C above), explore alternate models to provide management advice

Stock biomass and yield projections for 2013-2022 are presented in Section 3.2.9 and Table 3.9. Projections were carried out for three levels of fishing mortality: 1) F_{SPR30%} (F_{MSY} proxy), 2) F_{OY}, and F_{CURRENT} (geometric mean of F 2009-2011).

1.2.9 Term of Reference 9

Provide a probability distribution function for the base model, or a combination of models that represent alternate states of nature, presented for review.

Ten sensitivity runs were presented to characterize uncertainty in model specification. Of the ten runs presented, one primary run (Run 3) was used for stochastic projections. Probability distribution functions will be developed for the subset of model recommended by the SEDAR AP for projections (Run 3, steepness = 0.8, M=0.38y⁻¹) and made available to the Scientific and Statistical Committee (SSC) for the development of management advice, including OFL and ABC.

1.2.10 Term of Reference 10

Provide recommendations for future research and data collection. Be as specific as possible in describing sampling design and intensity, and emphasize items which will improve assessment capabilities and reliability. Recommend the interval and type for the next assessment.

Recommendations for future research and data collection were made in the SEDAR 82 Data Workshop (DW) report. Additional recommendations are made in Section 3.3.

1.2.11 Term of Reference 11

Prepare a spreadsheet containing all model parameter estimates and all relevant population information resulting from model estimates and projection and simulation exercises. Include all data included in assessment report tables and all data that support assessment workshop figures.

All assessment model inputs are presented in Appendix C-F. All model parameter estimates and their associated standard errors are reported in Table 3.1 and Table 3.2. Model uncertainty is presented in Figures 3.34 and 3.35 and Figures 3.43 – 3.46.

2 Data Review and Update

The primary data components utilized in this stock assessment are described in the SEDAR 28 Gulf of Mexico Spanish mackerel Data Workshop (DW) Report (SEDAR 2012). A number of the data inputs used in the SEDAR 28 Gulf of Mexico Spanish Mackerel stock evaluations were updated and finalized after the DW. Final data for 2011 were not available at the time of the DW for these components: recreational and commercial landings, recreational size frequencies, and bycatch from the Gulf of Mexico shrimp fishery. In addition, all of the indices of abundance were updated to include 2011 data after the DW (i.e., MRFSS recreational index, commercial FWC Vertical Line fishery abundance index, and the SEAMAP abundance index). These updates and any other necessary modifications to the data provided at the DW are detailed in the following sections.

2.1 Life history

The weight length relation estimated as: $\text{Weight (Kg)} = 1.50\text{E-}05 * \text{Fork-Length(cm)}^{2.8617}$ was provided by the DW (Table 2.1a, Figure 3.1a). Per the DW, age specific natural mortality was modeled according to the Lorenzen model and for the stock assessment model runs, scaled to the Hoenig point estimate ($M = 0.38 \text{ y}^{-1}$) for fully recruited ages, 2-11 (Table 2.1b). Age was modeled according to a single sex von Bertalanffy function internally in the stock assessment model (Stock Synthesis) using the age length observations from the SEDAR DW. Sex ratio at the start time of the population analysis (1886) was assumed to be 1:1 as recommended by the SEDAR 28 DW. Fish were assumed to be fully mature at age 1 (SEDAR 28 DW). The fecundity schedule was assumed directly proportional to the weight of females in the assessment model. The discard mortality rate was assumed to be 20% for the recreational and 10% for the commercial fisheries as recommended by the DW. Natural mortality was input into the model as an age specific vector developed from inputs provided by the SEDAR 29 DW. The M at-age vector was developed according to a declining Lorenzen function and scaled to fully recruited fish ages 4-11 by the point estimate of the Hoenig maximum age natural mortality estimator recommended by the SEDAR 28 DW of 0.38 y^{-1} . Table 2.1 provides life history input metrics.

The primary model used in the Gulf of Mexico Spanish mackerel evaluation was the Stock Synthesis (SS, Methot 2011) model. In the stock assessment, several of the life history parameters were estimated by the model and not fixed. Therefore, further discussions of pertinent life history metrics (i.e., growth, natural mortality) are also addressed in both the Model Configuration and in the Parameters Estimated section (3.1.3 and 3.1.4) of the SEDAR 28 Assessment Report.”

2.2 Landings

2.2.1 Commercial landings

Commercial landings data were provided through the SEDAR 28 DW; these data were assimilated into three main categories: commercial gillnet (COM_GN), commercial line fisheries (i.e., hook and line, vertical line, rod and reel = COM_RR). There were some minor landings reported for “miscellaneous” commercial gears (traps, trawls, seines); these “miscellaneous” commercial landings were apportioned into commercial gillnet and commercial line gears according to the annual representation of each. Commercial landings data were input into SS as metric tons, whole weight. Table 2.2 and Figure 2.1 present commercial landings data.

2.2.2 Recreational landings

Recreational landings data (REC) were provided through the SEDAR 28 DW and were aggregated across all fishery categories: a) MRFSS/MRIP estimates of landings from charter, private angler, b) Texas Parks and Wildlife (charter, private and headboat), and the c) for hire headboat fishery. Table 2.2 and Figure 2.1 present recreational landings data.

2.3 Discards

2.3.1 Commercial discards

Estimates of discards were available from commercial gears (handline and trolling) in numbers of fish. Commercial discards in numbers were converted to pounds using the average weight of fish at the minimum size limit (12 inches). Commercial line gear (COM_RR) discards were input into the SS model as the fraction of the total catch (native units-commercial as pounds of discards of total pounds). It was thought that the estimated commercial discards are highly uncertain owing to low reporting rates for commercial line gear fleet. For use in the stock assessment model (Stock Synthesis), the commercial line gear discard fractions were averaged across all years and input into the SS model as a single super period. Tables 2.3 and 2.4 and provide the time series of commercial discard fractions available for the Gulf Spanish mackerel stock evaluation.

2.3.2 Recreational discards

Discards from the recreational fishery (REC) were available as numbers of fish and for use in SS were input in the same units. Recreational discards were input into the SS model as the fraction of the total catch (native units-commercial as pounds of discards of total pounds, recreational as numbers of total catch). It was thought that the estimated discards are highly uncertain owing to low intercept rates (recreational), and also changes in quality control and assurance that occurred in the recreational catch survey (MRFSS/MRIP) time series (1981-2011). For use in SS, the recreational discard fractions were partitioned into three periods and input into SS as three super periods. It was believed that the recreational discards showed a general increasing trend over the time series and that three separate periods were evident thus three super periods were used to characterize the recreational discards. Partitioning the recreational discards as three super periods also corresponded to points in time associated with improvements in field procedures in the recreational data collection survey, and particularly so for the first period (1981-1990). Tables 2.3 and 2.4 provide the time series of discards available for the Gulf Spanish mackerel stock evaluation.

2.3.3 Shrimp discards

Estimates of Spanish mackerel caught by Gulf of Mexico shrimp trawlers were available for 1972-2010 at the time of the DW. After the completion of the DW, the time series was updated to include 2011. Because of the large uncertainty in the estimates of annual shrimp bycatch (SEDAR 28 DW-06, Table 6 and DW-06 Figure 6 and SEDAR 28 RD-05 Table 2 and Figure 2), it was thought that an average discard value across the time series best reflected the magnitude of removals of Spanish mackerel in the Gulf of Mexico shrimp fishery, so the bycatch discards were also input as a single super period with the mean value from 1972-2011 in 1,000s of fish used to describe the annual discards. Table 2.5 provides shrimp discards.

2.4 Length composition

Length composition data were provided by the SEDAR 28 DW. Length composition data used in the assessment are presented in Figures 2a-2d and Appendix A. Lengths are in units of fork length in centimeters. Following the DW, length compositions were computed as numbers at length using the length data from the combined commercial, recreational and fishery independent databases. Length data were aggregated into 2-cm length bins. Length bins ranged from 4 cm to 99 cm, where the bin size represents the minimum size of the bin (e.g., the 4-cm length bin contains fish greater than or equal to 4 cm and less than 5 cm). Length data were stratified by calendar year, fishery/survey (commercial gillnet fleet (COM_GN), commercial line gears (COM_RR), and recreational all fisheries combined (headboat, private angler, charter, shore = REC). Length composition sample sizes were capped at a maximum effective sample size of 100 fish to prevent the length composition data from driving the model fitting process due to large sample sizes (reference). For strata with fewer than 100 length observations the sample size was set equal to the number of observations measured. Figures 2.2a – 2.2d provide length composition data used in the SS evaluation.

2.4.1 Commercial length composition

As summarized above, commercial length composition data were stratified by calendar year, fishery/survey (i.e., commercial gillnet fleet (COM_GN) and commercial vertical line gears (COM_RR) corresponding to the primary fisheries considered for the stock assessment. Each separate length composition sample was then aggregated into 2-cm length bins for use in SS. Length bins ranged from 4 cm to 99 cm, where the bin size represents the minimum size of the bin (e.g., the 4-cm length bin contains fish greater than or equal to 4 cm and less than 5 cm). Figures 2.2a – 2.2d provide length composition data used in the SS evaluation.

2.4.2 Recreational length composition

As summarized above, recreational length composition data of Gulf of Mexico Spanish mackerel were stratified by calendar year, fishery/survey (i.e., commercial gillnet fleet (COM_GN) and commercial vertical line gears (COM_RR) corresponding to the primary fisheries considered for the stock assessment. Each separate length composition sample was then aggregated into 2-cm length bins for use in SS. Length bins ranged from 4 cm to 99 cm, where the bin size represents the minimum size of the bin (e.g., the 4-cm length bin contains fish greater than or equal to 4 cm and less than 5 cm). Figures 2.2a – 2.2d provide length composition data used in the SS evaluation.

2.4.3 Survey length composition

Length composition data sample of Gulf of Spanish mackerel from the SEAMAP trawl survey were provided by the SEDAR 28 DW. Length composition samples were handled identically to the recreational and commercial length composition samples. Observations of length were partitioned by year and aggregated by 2-cm length bins similarly as described above. Figures 2.2a – 2.2d provide length composition data used in the SS evaluation.

2.5 Conditional age-length composition

Observations of Spanish mackerel annular age at length were provided by the SEDAR 28 DW for the stock assessment and presented in Figures 2.3a – 2.3i and Appendix B. Age data were available for the commercial and recreational fisheries. Following the SEDAR 29 DW, age-

length compositions were computed as the numbers at age within length intervals using age data from the DW. Thus, the age observations used in the stock assessment were assumed to be conditional on length. A separate age-length composition was specified for each 2-cm length bin containing fish whose ages had been estimated thus providing a link between the length composition data and the age-length data. This linkage provides allows more detailed information on the size-age relationship to be incorporated into the growth model fitting process. This approach provides more detailed information to inform the variance of size-at-age; (Methot 2011). The age-length data were stratified by calendar year, fishery/survey (commercial gillnet, commercial line gear, and recreational all modes combined). Figures 2.3a – 2.3i provides the conditional age-length composition data used in the SS evaluation for Gulf of Mexico Spanish mackerel. Methot notes that “where age data are collected in a length-stratified program, the conditional age’-at-length approach can directly match the protocols of the sampling program”. Historically, age samples for Spanish mackerel have followed a two stage sampling protocol (Nancie Cummings, personal communication).

An age estimation error matrix was developed following the DW to account for errors in the estimation of ages for Gulf Spanish mackerel (Table 2.6). The matrix includes mean coded ages and their associated standard deviations. The standard deviations were obtained from an analysis of Spanish mackerel ages estimated by two independent readers for a limited sample of n=73 fish.

In the stock assessment model used in this assessment (SS) fish are age 1 when they first reach the month of January regardless of time of birth. Internally, SS assumes that all the recorded age observation data accurately reflects the adjustment to age 1 so that all the age of fish increments to the next age on January 1. SEDAR 28 DW-23 described the procedures used for age determinations of Spanish mackerel data used in this assessment. Spawning in Gulf of Mexico Spanish mackerel occurs during spring coinciding with the time of annulus deposition. The procedures for Spanish mackerel age determinations incorporated: the advancing of increment count (i.e., annulus age) based on annuli number, otolith edge-type and capture-date, typically advancing increment counts for spring collected samples.

2.6 Indices

Three indices of abundance and one index of fishing effort were recommended by the SEDAR 28 DW for use in the stock assessment (Table 2.7 and Figure 2.4). These were: 1) the shrimp effort index (1946-2011), 2) the MRFSS/MRIP catch per angler hour abundance index, 3) the FWC Trip Ticket Vertical line pounds per trip abundance index, and 4) the SEAMAP trawl survey abundance index. The standardized indices (point estimates) and the coefficient of variation (CV) of each, updated through 2011 for each series was incorporated into the population modeling using SS. The CVs were converted to log-scale standard errors for input into SS, adjusted as:

$$\log(SE) = \sqrt{\log_e(1 + CV^2)}$$

The shrimp effort index was used to derive an estimate of annual fishing mortality for the shrimp fishery bycatch of Spanish mackerel discards. Figures 2.4a -2.4d provides the indices of abundance and associated CV's and the shrimp effort index as used in the SS model evaluation.

Estimates of shrimp effort used in the SS model are provided in Table 2.7. The shrimp effort series was used in SS to develop estimates of annual fishing mortality for the shrimp bycatch fleet.

2.7 Tables

Table 2.1a. Weight at length meristic for Gulf Spanish mackerel used in the SEDAR 28 stock evaluations. Source = SEDAR 28 DW Report Table 2.7

| SEX-SPECIFIC WEIGHT AT LENGTH ¹ | Region | RECOMMENDED | | | | | | | | | | |
|--|----------|-------------|-----------|-----------|--------|----------------|--------|--------|--------|--------------|-------|----------|
| Data Source | Area | Dep. Var. | Ind. Var. | a | b | r ² | n | LEN SE | WT SE | Length Range | Units | Function |
| Female | S. Atl. | Weight | FL | 7.4558e-9 | 3.0244 | 0.9514 | 2,896 | 1.2412 | 0.0068 | 218-753 | kg mm | Power |
| Male | S. Atl. | Weight | FL | 1.6486e-8 | 2.8934 | 0.9091 | 2,141 | 0.9747 | 0.0039 | 252-605 | kg mm | Power |
| Female | Gulf | Weight | FL | 2.5969e-8 | 2.8310 | 0.9123 | 320 | 4.9400 | 0.0300 | 294-687 | kg mm | Power |
| Male | Gulf | Weight | FL | 5.1469e-9 | 3.0884 | 0.9657 | 124 | 7.1702 | 0.0395 | 298-640 | kg mm | Power |
| Female | Combined | Weight | FL | 7.9232e-9 | 3.0155 | 0.9464 | 3,216 | 1.2514 | 0.0070 | 218-753 | kg mm | Power |
| Male | Combined | Weight | FL | 1.0511e-8 | 2.9694 | 0.9280 | 2,265 | 1.0274 | 0.0044 | 252-640 | kg mm | Power |
| Sexes Combined | Combined | Weight | FL | 2.154E-08 | 2.8534 | 0.9161 | 88,067 | 0.2688 | 0.0015 | 110-900 | kg mm | Power |

Table 2.1b. Point estimates of natural mortality (M) for the Gulf stock of Spanish mackerel based on maximum age = 11 years and von Bertalanffy parameter estimates:

$t_0 = -0.5$, $k = 0.61$, and $L_\infty = 560$. Source = SEDAR 28 DW Table 2.1.

| | | |
|----------------------------|---------------------------|------|
| Alverson & Carney | tmax | 0.16 |
| Beverton | k, am | 3.44 |
| Hoening ^{fish} | tmax | 0.38 |
| Hoening ^{alltaxa} | tmax | 0.4 |
| Pauly | | 1.03 |
| Ralston | k | 1.28 |
| Ralston (geometric mean) | k | 2.20 |
| Ralston (method II) | k | 2.11 |
| Hewitt & Hoening | tmax | 0.36 |
| Jensen | k | 0.92 |
| Rule of thumb | tmax | 0.27 |
| Alagaraja | survivorship to tmax: 0.1 | 0.42 |
| Alagaraja | survivorship to tmax: 0.2 | 0.36 |
| Alagaraja | survivorship to tmax: 0.5 | 0.27 |

Table 2.2. Commercial and recreational landings data used in the SEDAR 28 Gulf of Mexico Spanish mackerel stock assessment. COM_GN = commercial gillnet, COM_RR = commercial line gears, and REC = recreational all modes (charter, private, shore, headboat). Units are whole weight (mtons) commercial, numbers of fish (recreational, 1,000's of fish).

| YEAR | COM_GN | COM_RR | REC |
|------|--------|--------|-----|
| 1886 | 34 | 2 | |
| 1887 | 68 | 4 | |
| 1888 | 133 | 8 | |
| 1889 | 256 | 15 | |
| 1890 | 296 | 18 | |
| 1891 | 310 | 2 | |
| 1892 | 310 | 2 | |
| 1893 | 310 | 2 | |
| 1894 | 310 | 2 | |
| 1895 | 310 | 2 | |
| 1896 | 310 | 2 | |
| 1897 | 321 | 19 | |
| 1898 | 417 | 25 | |
| 1899 | 417 | 25 | |
| 1900 | 417 | 25 | |
| 1901 | 417 | 25 | |
| 1902 | 677 | 41 | |
| 1903 | 656 | 39 | |
| 1904 | 656 | 39 | |
| 1905 | 656 | 39 | |
| 1906 | 656 | 39 | |
| 1907 | 656 | 39 | |
| 1908 | 636 | 38 | |
| 1909 | 668 | 45 | |
| 1910 | 776 | 50 | |
| 1911 | 884 | 55 | |
| 1912 | 992 | 61 | |
| 1913 | 1,100 | 66 | |
| 1914 | 1,208 | 71 | |
| 1915 | 1,316 | 77 | |
| 1916 | 1,424 | 82 | |
| 1917 | 1,486 | 88 | |
| 1918 | 1,506 | 91 | |
| 1919 | 1,535 | 93 | |
| 1920 | 1,585 | 93 | |
| 1921 | 1,639 | 98 | |

| | | | |
|------|-------|-----|-------|
| 1922 | 1,643 | 99 | |
| 1923 | 1,653 | 100 | |
| 1924 | 1,751 | 104 | |
| 1925 | 1,863 | 110 | |
| 1926 | 1,976 | 115 | |
| 1927 | 2,041 | 124 | |
| 1928 | 1,413 | 86 | |
| 1929 | 1,529 | 93 | |
| 1930 | 1,794 | 109 | |
| 1931 | 1,018 | 62 | |
| 1932 | 1,255 | 76 | |
| 1933 | 1,374 | 82 | |
| 1934 | 1,512 | 92 | |
| 1935 | 1,868 | 110 | |
| 1936 | 2,252 | 136 | |
| 1937 | 1,704 | 103 | |
| 1938 | 1,760 | 107 | |
| 1939 | 1,835 | 111 | |
| 1940 | 1,580 | 96 | |
| 1941 | 36 | 22 | |
| 1942 | 36 | 22 | |
| 1943 | 36 | 22 | |
| 1944 | 36 | 22 | |
| 1945 | 40 | 2 | |
| 1946 | 36 | 22 | |
| 1947 | 36 | 22 | |
| 1948 | 384 | 23 | |
| 1949 | 1,658 | 100 | |
| 1950 | 1,109 | 67 | |
| 1951 | 2,785 | 169 | |
| 1952 | 1,932 | 117 | |
| 1953 | 1,276 | 77 | |
| 1954 | 1,235 | 75 | |
| 1955 | 696 | 42 | 774 |
| 1956 | 1,248 | 76 | 859 |
| 1957 | 1,561 | 94 | 944 |
| 1958 | 1,655 | 100 | 1,028 |
| 1959 | 2,006 | 121 | 1,113 |
| 1960 | 2,339 | 142 | 1,198 |
| 1961 | 1,717 | 104 | 1,219 |
| 1962 | 3,072 | 63 | 1,241 |

| | | | |
|------|-------|-----|-------|
| 1963 | 2,434 | 37 | 1,262 |
| 1964 | 1,715 | 79 | 1,284 |
| 1965 | 2,095 | 130 | 1,305 |
| 1966 | 3,053 | 152 | 1,357 |
| 1967 | 2,582 | 128 | 1,408 |
| 1968 | 3,164 | 116 | 1,460 |
| 1969 | 3,685 | 99 | 1,511 |
| 1970 | 3,631 | 120 | 1,563 |
| 1971 | 3,349 | 124 | 1,705 |
| 1972 | 2,758 | 204 | 1,847 |
| 1973 | 2,748 | 61 | 1,989 |
| 1974 | 3,432 | 318 | 2,131 |
| 1975 | 2,192 | 358 | 2,273 |
| 1976 | 3,153 | 377 | 2,277 |
| 1977 | 905 | 291 | 2,281 |
| 1978 | 505 | 268 | 2,285 |
| 1979 | 931 | 31 | 2,289 |
| 1980 | 832 | 45 | 2,293 |
| 1981 | 1,592 | 90 | 2,102 |
| 1982 | 1,486 | 82 | 3,443 |
| 1983 | 960 | 68 | 2,430 |
| 1984 | 1,567 | 23 | 947 |
| 1985 | 904 | 29 | 1,177 |
| 1986 | 1,225 | 14 | 6,398 |
| 1987 | 1,191 | 102 | 1,795 |
| 1988 | 1,039 | 12 | 1,460 |
| 1989 | 1,388 | 26 | 1,136 |
| 1990 | 1,161 | 8 | 1,597 |
| 1991 | 1,488 | 73 | 1,739 |
| 1992 | 1,682 | 17 | 2,393 |
| 1993 | 1,168 | 13 | 1,488 |
| 1994 | 1,250 | 10 | 1,428 |
| 1995 | 675 | 10 | 1,073 |
| 1996 | 172 | 13 | 1,260 |
| 1997 | 226 | 18 | 1,262 |
| 1998 | 186 | 24 | 1,181 |
| 1999 | 368 | 27 | 1,590 |
| 2000 | 394 | 19 | 1,731 |
| 2001 | 500 | 36 | 2,482 |
| 2002 | 413 | 17 | 1,976 |
| 2003 | 628 | 20 | 1,518 |

| | | | |
|------|-----|----|-------|
| 2004 | 469 | 19 | 2,150 |
| 2005 | 662 | 16 | 1,216 |
| 2006 | 614 | 28 | 1,790 |
| 2007 | 414 | 13 | 1,353 |
| 2008 | 521 | 39 | 1,905 |
| 2009 | 789 | 35 | 1,519 |
| 2010 | 501 | 66 | 1,601 |
| 2011 | 546 | 54 | 1,547 |

Table 2.3. Time series of discards for commercial (COM_RR) and recreational (REC) fisheries available for the SEDAR 28 Gulf of Mexico Spanish mackerel stock evaluations. COM_RR average for 1998-2011 super period = 0.1767 Recreational super period averages are: 1) 1981-1990=0.24473, 2) 1991-2002=0.4062, 3) 2003-2011=0.5635. COM_RR discards calculated in weight units, REC discards calculated in numbers of fish units.

| Year | COM_RR | REC |
|------|--------|------|
| 1981 | | 0.04 |
| 1982 | | 0.14 |
| 1983 | | 0.33 |
| 1984 | | 0.06 |
| 1985 | | 0.11 |
| 1986 | | 0.39 |
| 1987 | | 0.19 |
| 1988 | | 0.33 |
| 1989 | | 0.30 |
| 1990 | | 0.58 |
| 1991 | | 0.42 |
| 1992 | | 0.41 |
| 1993 | | 0.41 |
| 1994 | | 0.32 |
| 1995 | | 0.35 |
| 1996 | | 0.36 |
| 1997 | | 0.40 |
| 1998 | 0.20 | 0.39 |
| 1999 | 0.18 | 0.44 |
| 2000 | 0.24 | 0.46 |
| 2001 | 0.12 | 0.43 |
| 2002 | 0.26 | 0.49 |
| 2003 | 0.24 | 0.59 |
| 2004 | 0.22 | 0.52 |
| 2005 | 0.25 | 0.53 |
| 2006 | 0.16 | 0.62 |
| 2007 | 0.28 | 0.61 |
| 2008 | 0.08 | 0.52 |
| 2009 | 0.12 | 0.52 |
| 2010 | 0.06 | 0.61 |
| 2011 | 0.07 | 0.56 |

Table 2.4. Calculated discard fraction according to super period designations for the directed fisheries as input into the SS model for Gulf of Mexico Spanish mackerel. Commercial discard fraction calculated as discard weight divided by total reported landings weight. Recreational discard fraction calculated as discard numbers divided by total estimated recreational catch number.

| Fleet | Super period | Fraction |
|--------|--------------|----------|
| COM_RR | 1998-2011 | 0.17665 |
| REC | 1981-1990 | 0.24473 |
| REC | 1991-2002 | 0.4062 |
| REC | 2003-2011 | 0.5635 |

Table 2.5. Time series of discards shrimp bycatch for Gulf of Mexico Spanish mackerel for the SEDAR 28 stock assessment. The calculated value for the 1972-2011 super period value used in the SS model was 9,096 million fish.

| Year | Discard Numbers (1,000s) |
|-------------|-------------------------------------|
| 1972 | 7,700 |
| 1973 | 916 |
| 1974 | 2,230 |
| 1975 | 2,774 |
| 1976 | 5,264 |
| 1977 | 13,750 |
| 1978 | 13,400 |
| 1979 | 16,510 |
| 1980 | 13,870 |
| 1981 | 4,028 |
| 1982 | 5,582 |
| 1983 | 4,506 |
| 1984 | 8,033 |
| 1985 | 2,654 |
| 1986 | 6,586 |
| 1987 | 5,911 |
| 1988 | 9,566 |
| 1989 | 14,530 |
| 1990 | 20,020 |
| 1991 | 14,960 |
| 1992 | 19,070 |
| 1993 | 48,680 |
| 1994 | 4,856 |
| 1995 | 4,555 |
| 1996 | 4,026 |
| 1997 | 4,586 |
| 1998 | 5,672 |
| 1999 | 4,289 |
| 2000 | 9,968 |
| 2001 | 5,797 |
| 2002 | 5,258 |
| 2003 | 10,850 |
| 2004 | 18,680 |
| 2005 | 21,590 |
| 2006 | 3,903 |
| 2007 | 8,264 |
| 2008 | 2,797 |
| 2009 | 2,621 |
| 2010 | 2,945 |
| 2011 | 2,632 |

Table 2.6. Age error matrix for Gulf of Mexico Spanish mackerel used in the SEDAR 28 stock assessment. Data Source: Chris Palmer (NOAA, NMFS, SEFSC Panama City Laboratory, personal communication).

| | | | | AGE (Years) | | | | | | | | |
|-------------|------|------|------|----------------|------|------|------|------|------|------|------|------|
| Mean age | 0.5 | 1.5 | 2.5 | 3.5 | 4.5 | 5.5 | 6.5 | 7.5 | 8.5 | 9.5 | 10.5 | 11.5 |
| SD (Age) | 0.01 | 0.01 | 0.06 | 0.08 | 0.11 | 0.11 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 |

Table 2.7. Time series of indices of abundance data for Gulf Spanish mackerel used in the SEDAR 28 stock evaluations. Series included are: shrimp effort, MRFSS/MRIP, commercial FWC vertical line index, and SEAMAP survey. Source: SEDAR 28 DW. Units are: MRFSS- number fish caught per hour fished, FWC Vertical line- pounds per trip, and SEAMAP- number per trawl hour.

| <i>Year</i> | MRFSS | | COM_FWC_VERT_LINE | | SEAMAP Trawl Survey | |
|-------------|-----------------|---------------|--------------------------|---------------|--------------------------------|---------------|
| | <i>Std CPUE</i> | <i>log SE</i> | <i>Std CPUE</i> | <i>log SE</i> | <i>Std CPUE</i> | <i>log SE</i> |
| 1981 | 0.8981 | 0.4377 | | | | |
| 1982 | 1.2552 | 0.7935 | | | | |
| 1983 | 0.8820 | 0.6986 | | | | |
| 1984 | 0.6564 | 0.6170 | | | | |
| 1985 | 0.7353 | 0.5893 | | | | |
| 1986 | 2.6980 | 0.8561 | 0.6870 | 0.1901 | | |
| 1987 | 1.1851 | 0.7114 | 0.5370 | 0.1854 | 0.2963 | 0.6224 |
| 1988 | 0.8780 | 0.6646 | 0.7290 | 0.1943 | 1.1645 | 0.4463 |
| 1989 | 1.0244 | 0.6841 | 1.5290 | 0.2029 | 1.4515 | 0.4503 |
| 1990 | 1.9452 | 0.8619 | 0.9790 | 0.2027 | 1.6314 | 0.4452 |
| 1991 | 1.3235 | 0.7116 | 1.0890 | 0.2005 | 0.8900 | 0.4792 |
| 1992 | 1.4129 | 0.7470 | 1.0830 | 0.2158 | 0.6126 | 0.4670 |
| 1993 | 0.7096 | 0.6855 | 0.5950 | 0.2220 | 1.7174 | 0.4257 |
| 1994 | 0.6942 | 0.5974 | 1.0320 | 0.2187 | 0.6990 | 0.5265 |
| 1995 | 0.4094 | 0.5214 | 0.9330 | 0.2325 | 1.1066 | 0.4422 |
| 1996 | 0.6716 | 0.5985 | 0.7210 | 0.2284 | 0.9789 | 0.4968 |
| 1997 | 0.6881 | 0.6000 | 0.7820 | 0.2340 | 0.3372 | 0.5634 |
| 1998 | 0.7264 | 0.6124 | 1.1450 | 0.2360 | 0.5403 | 0.4832 |
| 1999 | 1.1596 | 0.6931 | 0.9550 | 0.2350 | 0.8557 | 0.4801 |
| 2000 | 0.7170 | 0.6426 | 0.7520 | 0.2411 | 1.1816 | 0.4850 |
| 2001 | 0.8873 | 0.6959 | 1.4160 | 0.2290 | 0.8205 | 0.5069 |
| 2002 | 0.8451 | 0.6840 | 1.0870 | 0.2317 | 0.3274 | 0.5947 |
| 2003 | 0.8580 | 0.6690 | 1.2810 | 0.2227 | 1.4923 | 0.4371 |
| 2004 | 0.9920 | 0.6841 | 1.5680 | 0.2428 | 0.4669 | 0.4575 |
| 2005 | 0.5725 | 0.6475 | 1.0970 | 0.2556 | 2.5180 | 0.4260 |
| 2006 | 0.9179 | 0.6852 | 1.4750 | 0.2365 | 0.9222 | 0.4536 |
| 2007 | 0.9469 | 0.6546 | 1.1610 | 0.2384 | 1.6153 | 0.4463 |
| 2008 | 0.9681 | 0.6606 | 1.0560 | 0.2425 | 0.7950 | 0.5053 |
| 2009 | 0.9646 | 0.6375 | 1.4080 | 0.2213 | 1.1412 | 0.3707 |
| 2010 | 1.0875 | 0.7155 | 1.5670 | 0.2192 | 1.2501 | 0.4371 |
| 2011 | 1.2902 | 0.7083 | 1.4010 | 0.2311 | 0.1880 | 0.5505 |

Table 2.8. Shrimp bycatch fishery effort time series used in the SEDAR 28 Gulf of Mexico Spanish mackerel stock assessment. Source of data: Brian Linton, NMFS, SEFSC Miami Laboratory, personal communication and SEDAR 28 RD 05). Effort series scaled to the average Days Fished across the series.

| Year | Days Fished | Scaled Effort |
|-------------|--------------------|----------------------|
| 1945 | 0 | 0.0000 |
| 1946 | 284 | 0.0047 |
| 1947 | 1,448 | 0.0238 |
| 1948 | 3,804 | 0.0626 |
| 1949 | 6,147 | 0.1011 |
| 1950 | 10,959 | 0.1802 |
| 1951 | 13,897 | 0.2285 |
| 1952 | 16,410 | 0.2699 |
| 1953 | 16,935 | 0.2785 |
| 1954 | 22,046 | 0.3625 |
| 1955 | 21,819 | 0.3588 |
| 1956 | 28,008 | 0.4606 |
| 1957 | 32,692 | 0.5376 |
| 1958 | 42,331 | 0.6962 |
| 1959 | 45,525 | 0.7487 |
| 1960 | 45,499 | 0.7482 |
| 1961 | 28,091 | 0.4620 |
| 1962 | 48,445 | 0.7967 |
| 1963 | 54,816 | 0.9015 |
| 1964 | 64,601 | 1.0624 |
| 1965 | 41,836 | 0.6880 |
| 1966 | 35,305 | 0.5806 |
| 1967 | 42,367 | 0.6967 |
| 1968 | 49,673 | 0.8169 |
| 1969 | 54,379 | 0.8943 |
| 1970 | 38,200 | 0.6282 |
| 1971 | 43,275 | 0.7117 |
| 1972 | 60,507 | 0.9951 |
| 1973 | 61,572 | 1.0126 |
| 1974 | 63,546 | 1.0450 |
| 1975 | 48,783 | 0.8022 |
| 1976 | 67,809 | 1.1151 |
| 1977 | 84,191 | 1.3846 |
| 1978 | 117,210 | 1.9276 |
| 1979 | 123,387 | 2.0291 |
| 1980 | 90,717 | 1.4919 |

| | | |
|------|---------|--------|
| 1981 | 93,669 | 1.5404 |
| 1982 | 89,604 | 1.4736 |
| 1983 | 97,007 | 1.5953 |
| 1984 | 99,486 | 1.6361 |
| 1985 | 107,160 | 1.7623 |
| 1986 | 112,829 | 1.8555 |
| 1987 | 131,122 | 2.1563 |
| 1988 | 99,077 | 1.6294 |
| 1989 | 118,390 | 1.9470 |
| 1990 | 115,261 | 1.8955 |
| 1991 | 110,218 | 1.8126 |
| 1992 | 95,737 | 1.5744 |
| 1993 | 89,589 | 1.4733 |
| 1994 | 98,076 | 1.6129 |
| 1995 | 84,232 | 1.3852 |
| 1996 | 90,320 | 1.4853 |
| 1997 | 92,288 | 1.5177 |
| 1998 | 100,228 | 1.6483 |
| 1999 | 104,433 | 1.7174 |
| 2000 | 93,384 | 1.5357 |
| 2001 | 90,675 | 1.4912 |
| 2002 | 80,352 | 1.3214 |
| 2003 | 65,451 | 1.0764 |
| 2004 | 50,458 | 0.8298 |
| 2005 | 30,345 | 0.4990 |
| 2006 | 40,321 | 0.6631 |
| 2007 | 39,499 | 0.6496 |
| 2008 | 34,113 | 0.5610 |
| 2009 | 39,735 | 0.6535 |
| 2010 | 28,164 | 0.4632 |
| 2011 | 26,366 | 0.4336 |

2.8 Figures

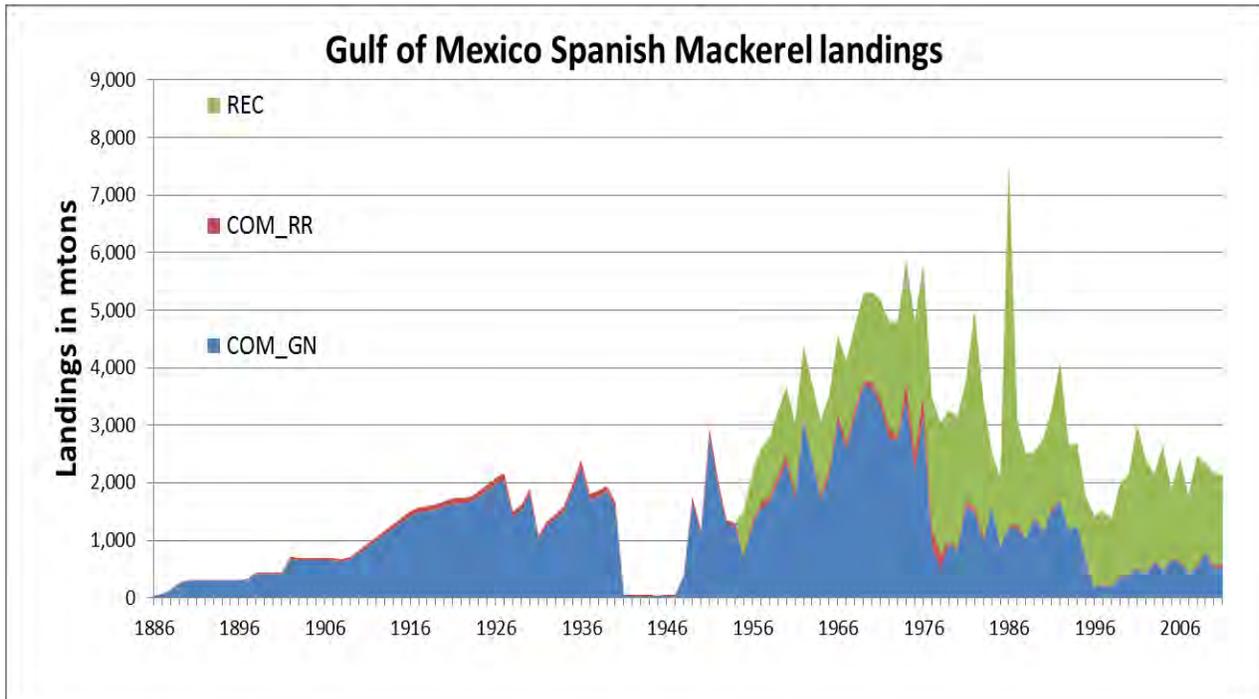
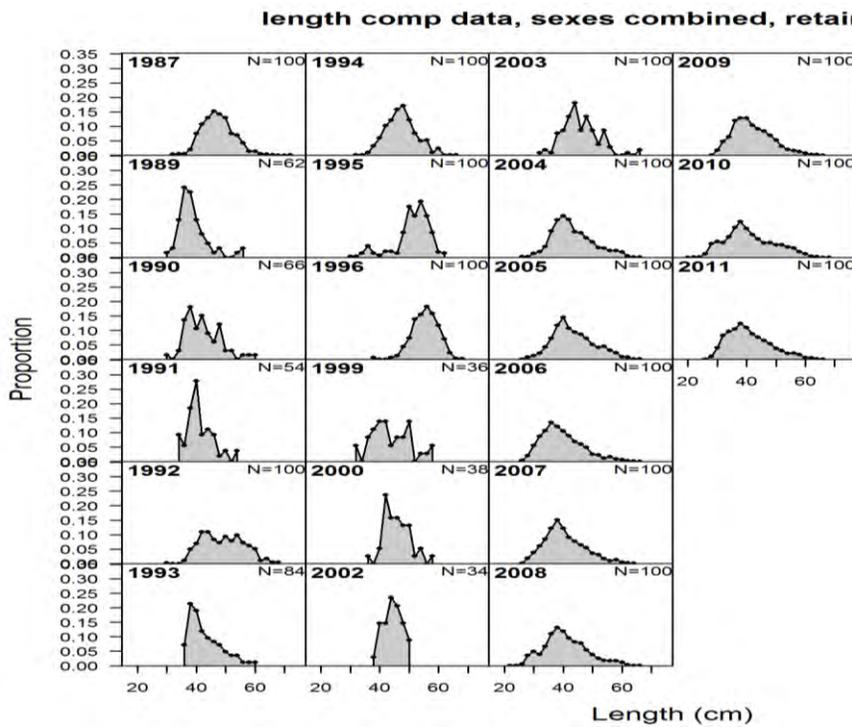


Figure 2.1. Commercial landings (mtons, whole weight) for Gulf of Mexico Spanish mackerel. Landings are partitioned into three fisheries: commercial gillnet (COM_GN), commercial line gears (COM_RR), and recreational modes combined (REC=charter, private angler, shore and headboat).

A.



B.

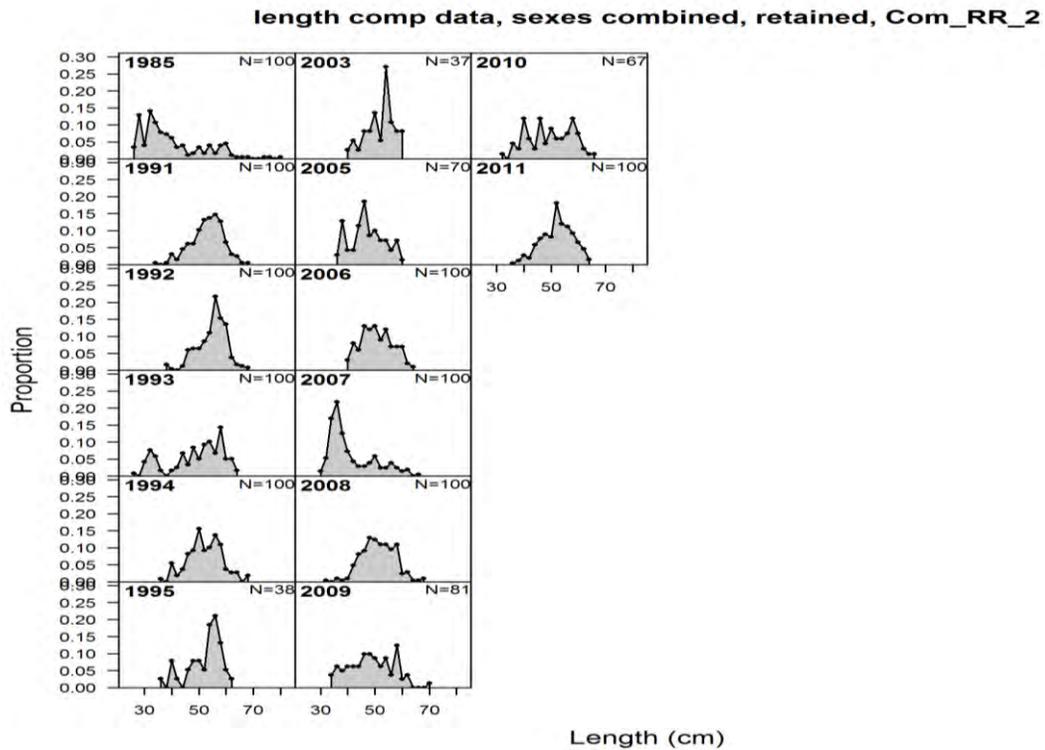
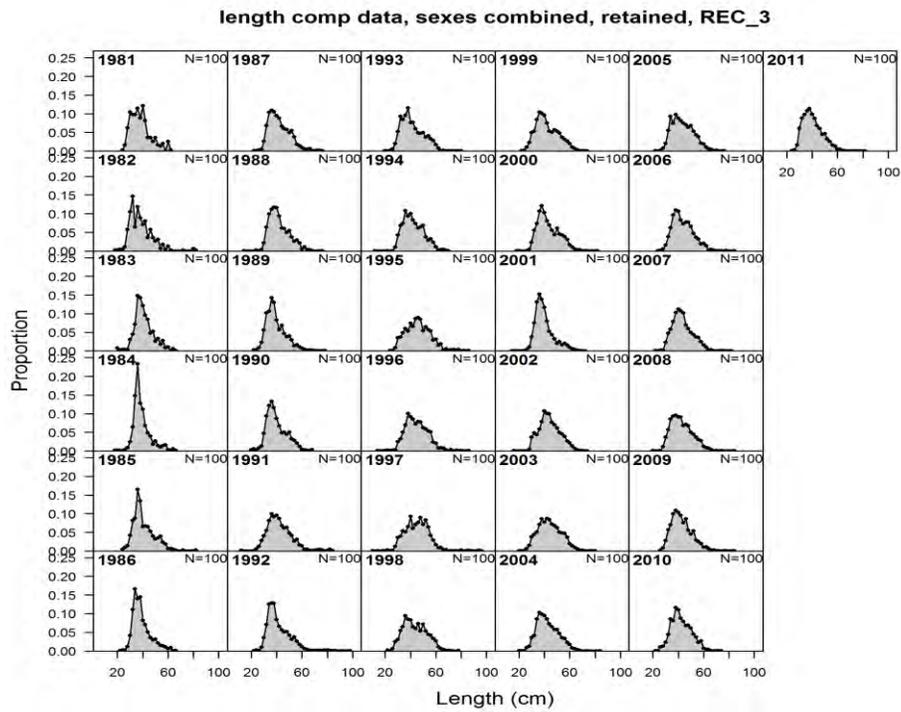


Figure 2.2a,b. Proportion of numbers at length for Gulf of Mexico Spanish mackerel in the a) commercial gillnet (COM_GN) and b) Commercial line gear fishery (COM_RR) of the Gulf of Mexico.

C.



D.

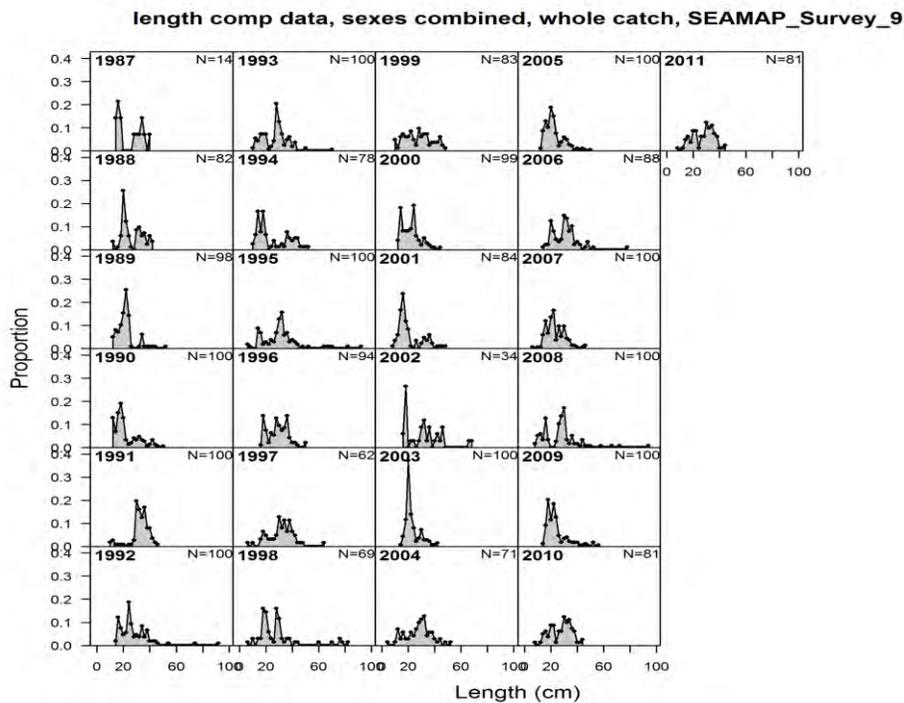


Figure 2.2c, d. Proportion of numbers at length for Gulf of Mexico Spanish mackerel in the recreational combined modes (REC=charter, private angler, shore, and headboat) fisher and c) the SEAMAP trawl survey.

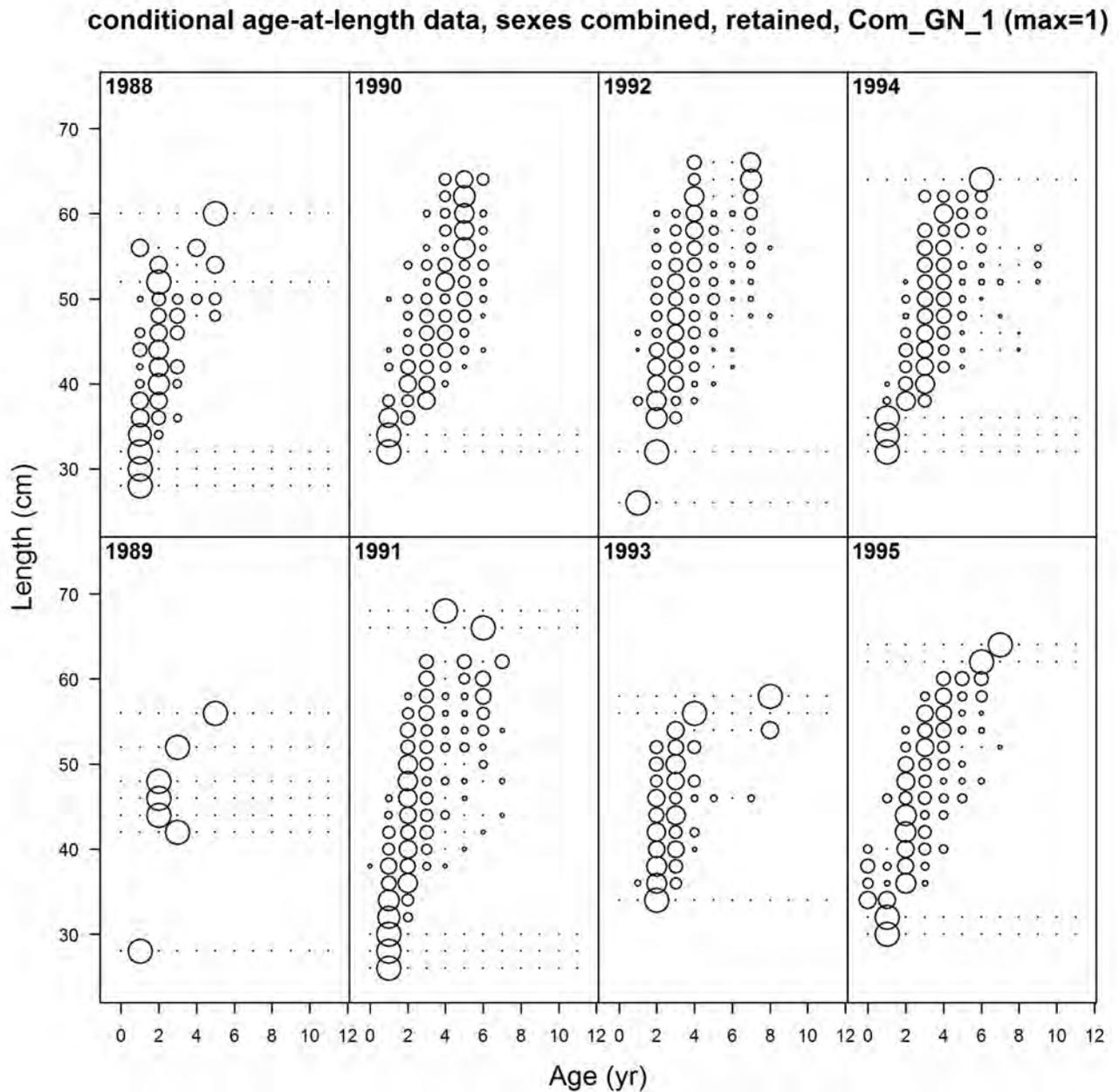


Figure 2.3a. Conditional age at length data, sexes combined, commercial gillnet fishery (COM_GN) for Gulf of Mexico Spanish mackerel.

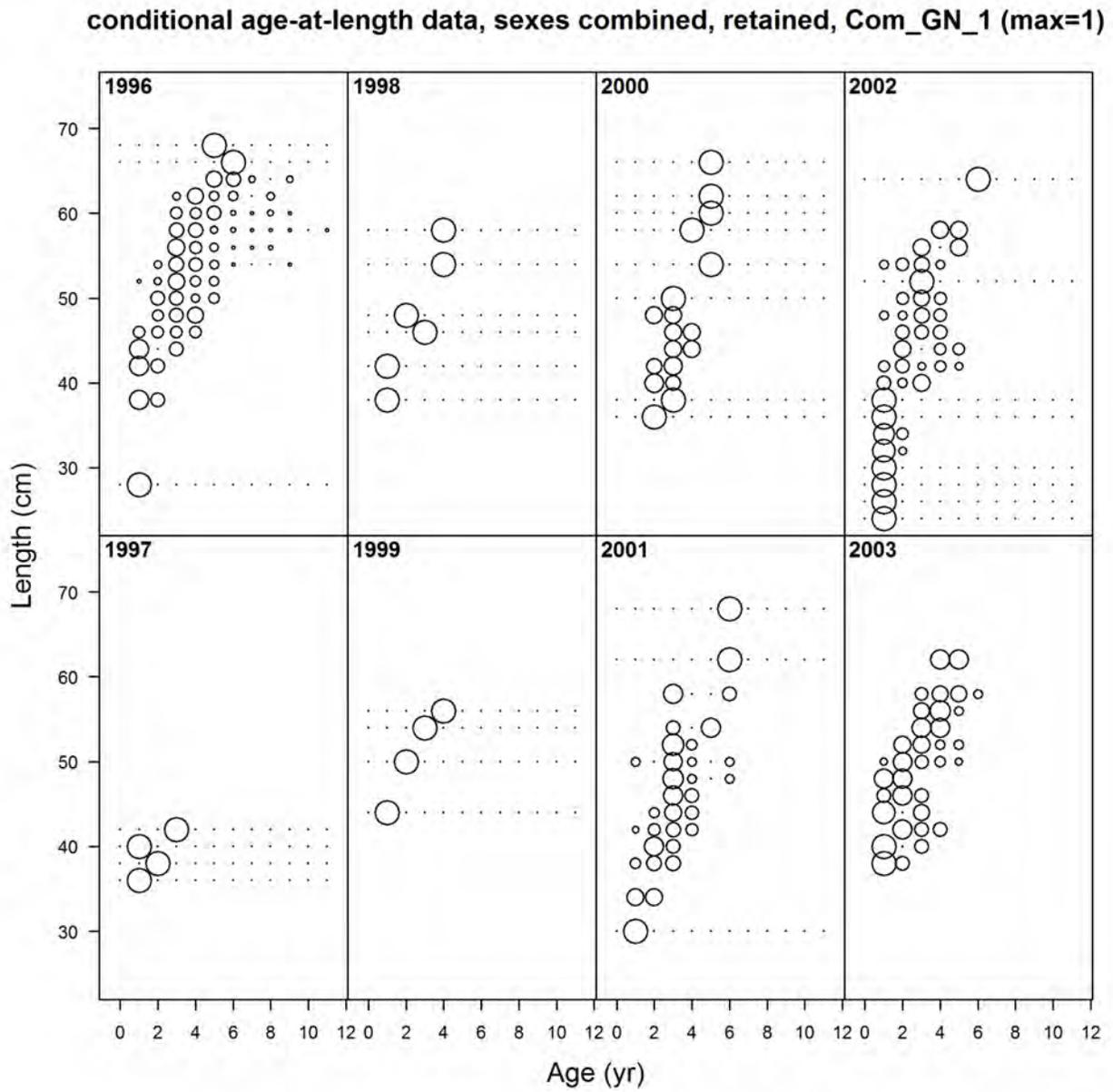


Figure 2.3b. Conditional age at length data, sexes combined, commercial gillnet fishery (COM_GN)) for Gulf of Mexico Spanish mackerel.

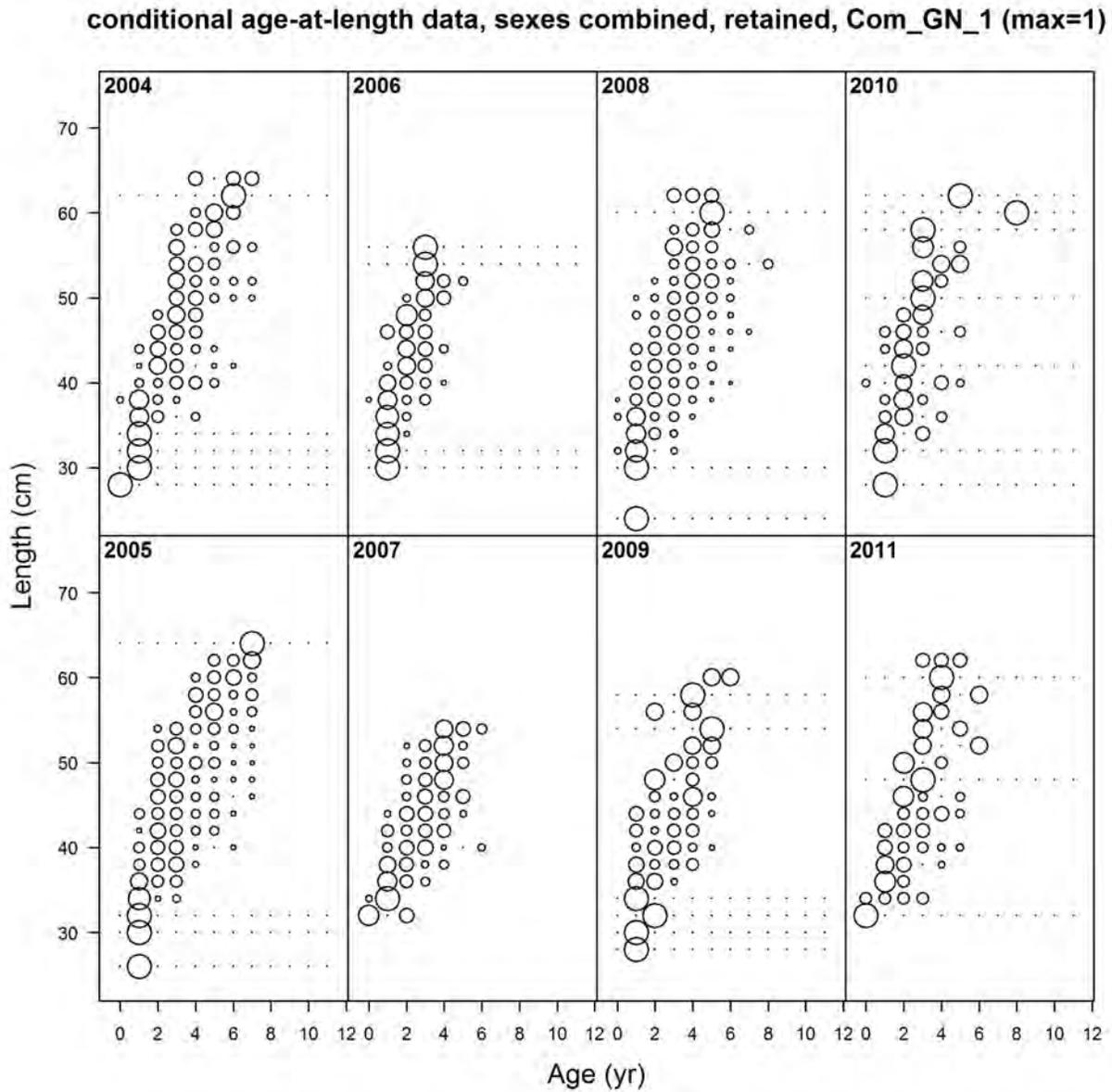


Figure 2.3c. Conditional age at length data, sexes combined, commercial gillnet fishery (COM_GN)) for Gulf of Mexico Spanish mackerel.

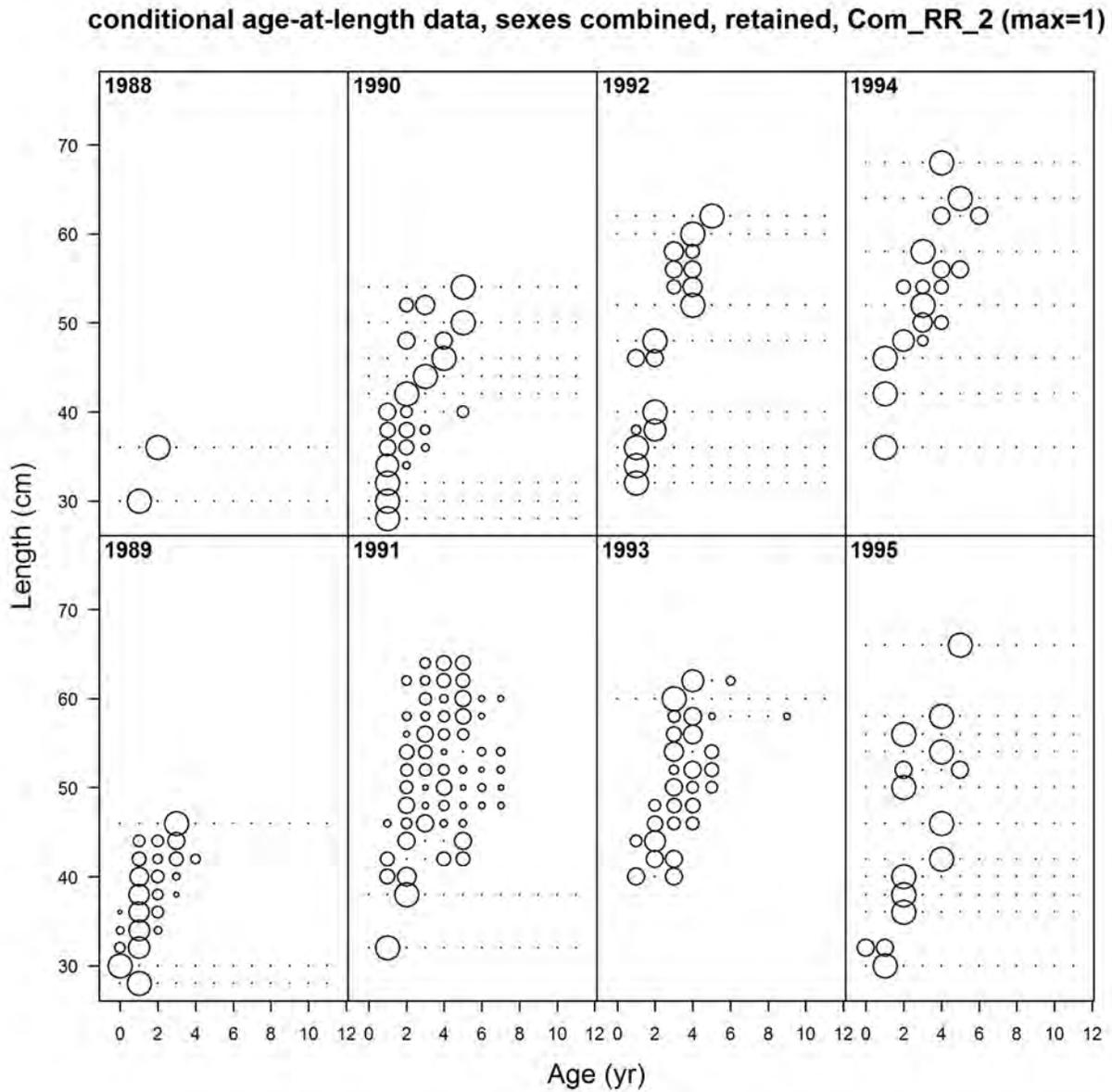


Figure 2.3d. Conditional age at length data, sexes combined, commercial line gear fishery (COM_RR)) for Gulf of Mexico Spanish mackerel.

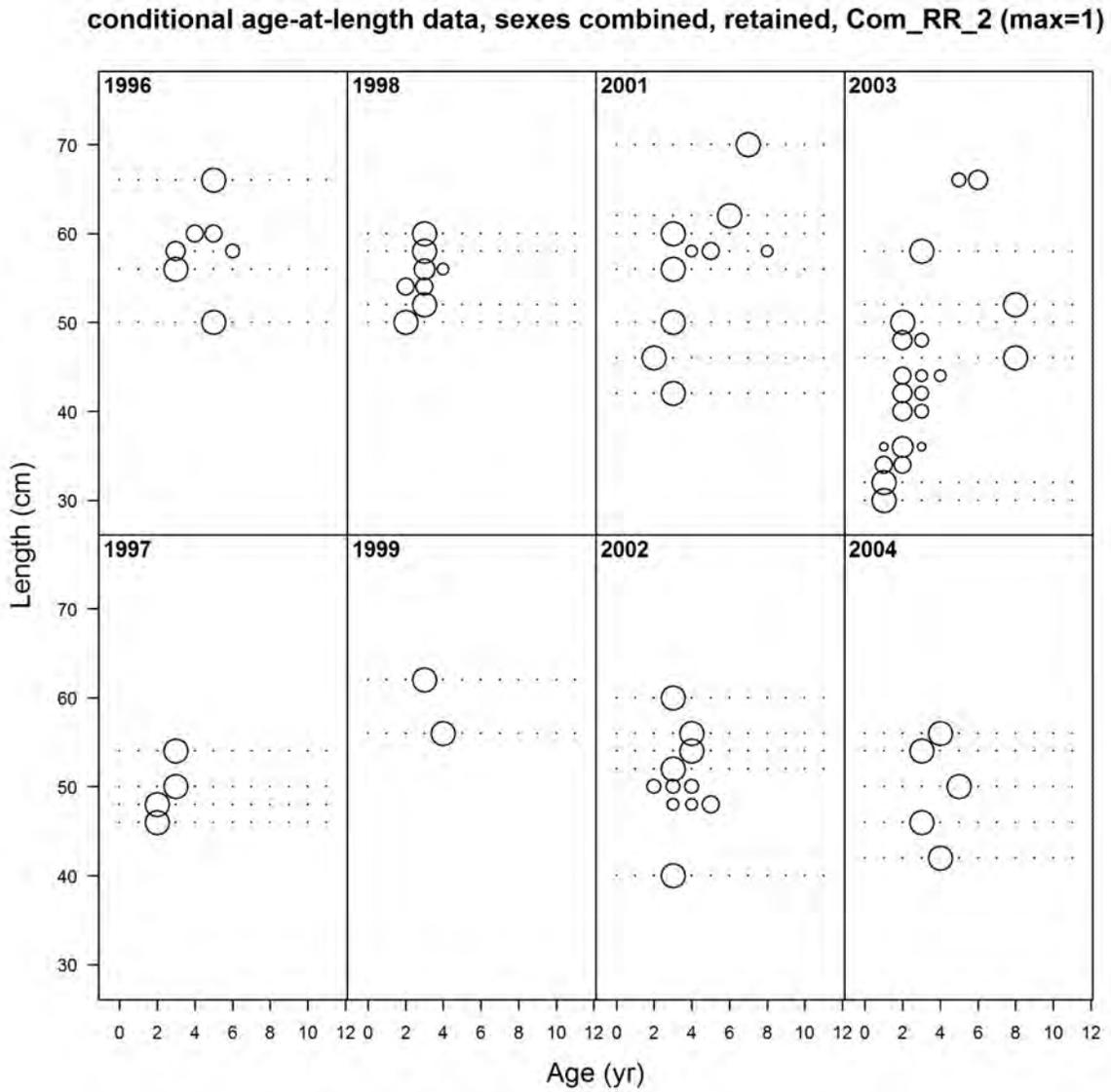


Figure 2.3e. Conditional age at length data, sexes combined, commercial line gear fishery (COM_RR)) for Gulf of Mexico Spanish mackerel.

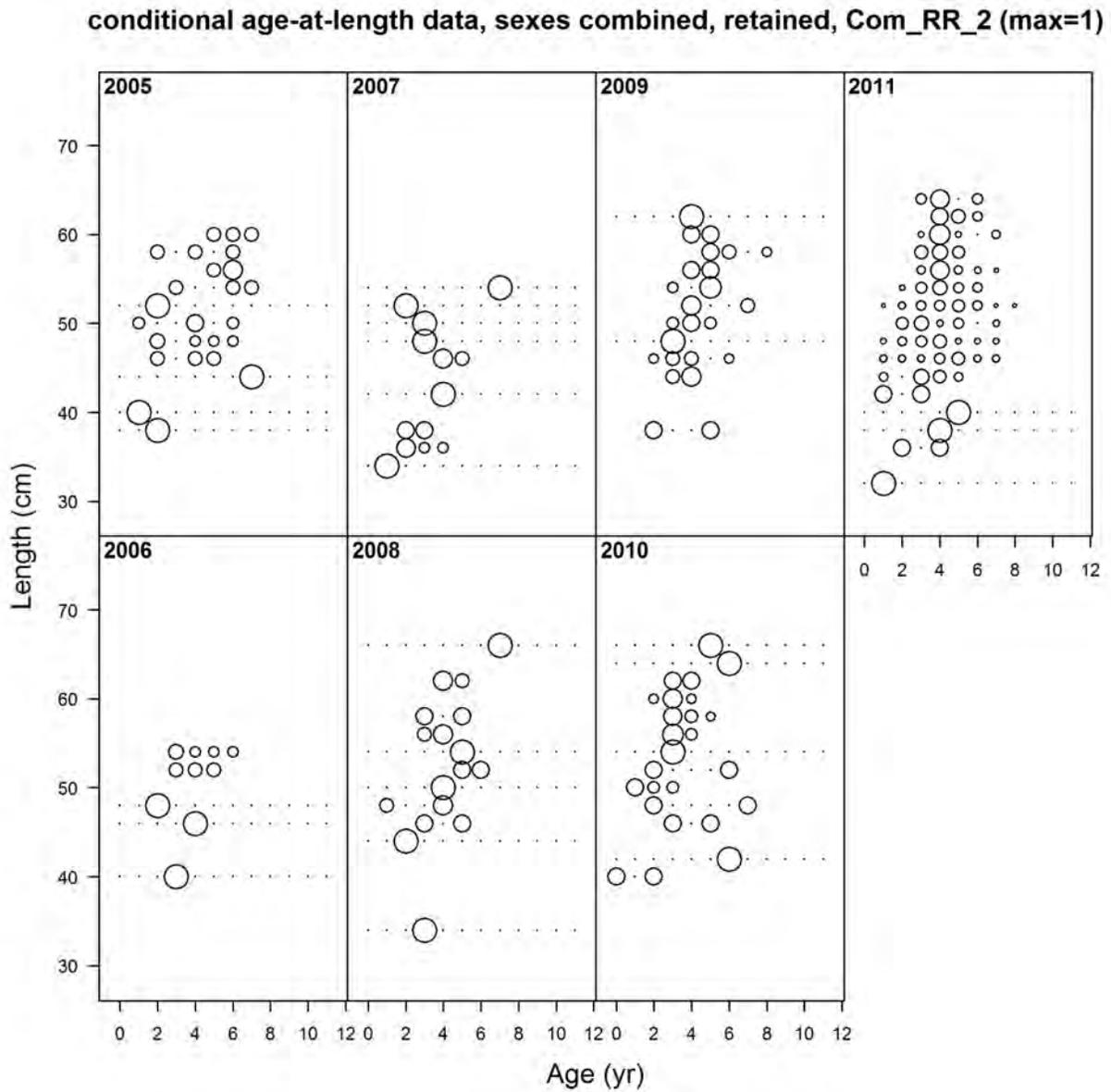


Figure 2.3f. Conditional age at length data, sexes combined, commercial line gear fishery (COM_RR)) for Gulf of Mexico Spanish mackerel.

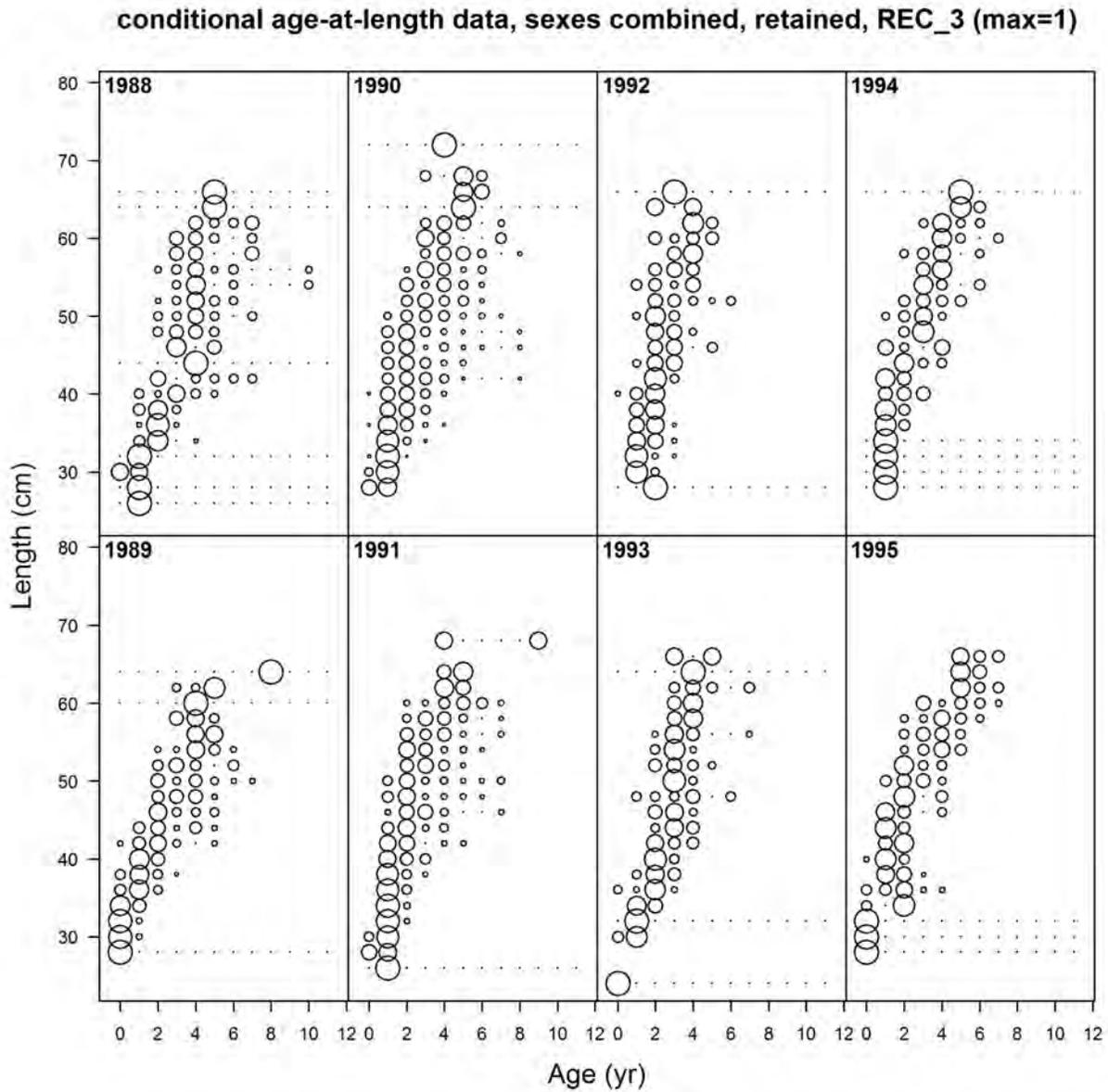


Figure 2.3g. Conditional age at length data, sexes combined, recreational fisheries all modes (REC=shore, charter, private angler, headboat) for Gulf of Mexico Spanish mackerel.

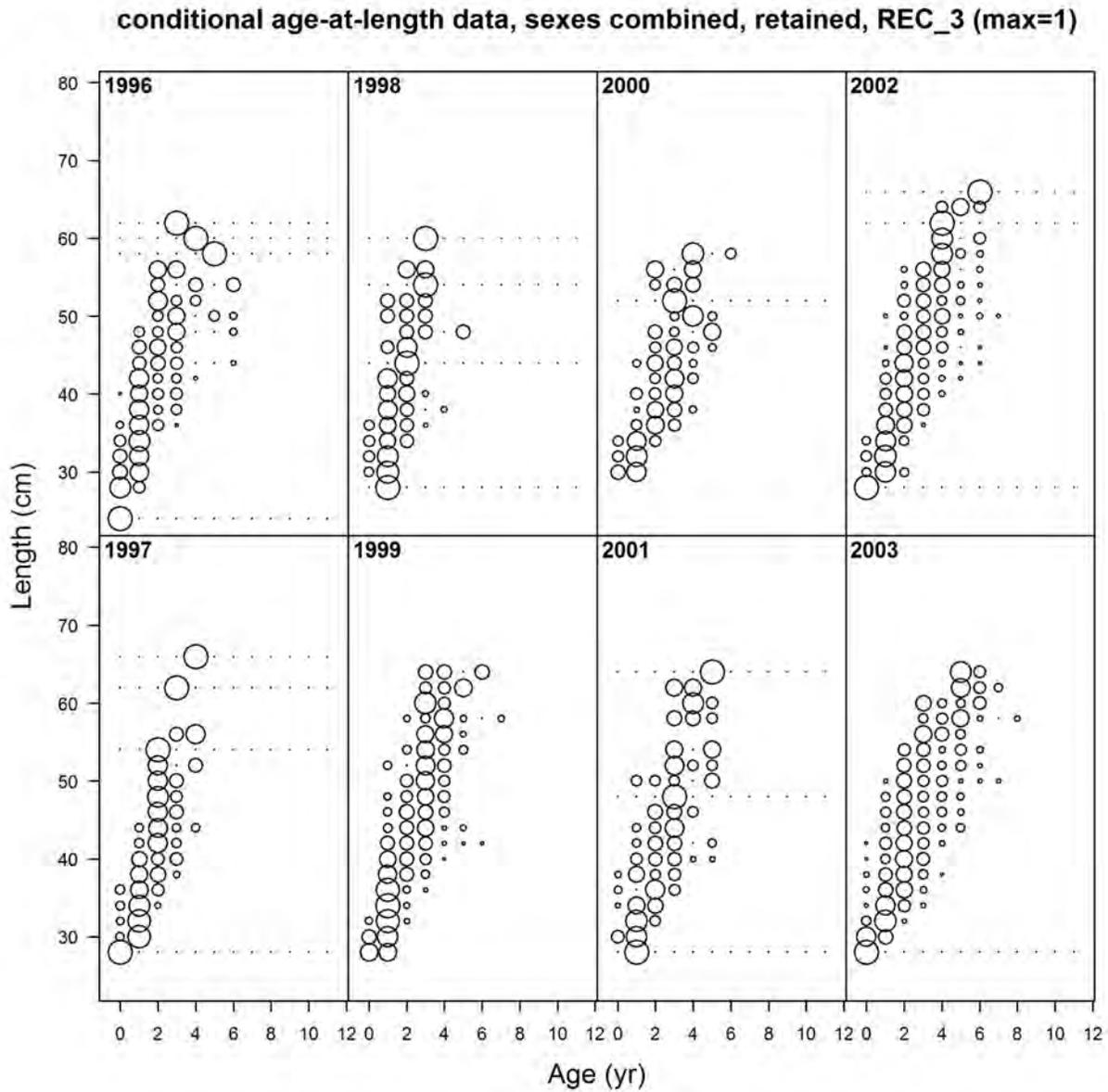


Figure 2.h. Conditional age at length data, sexes combined, recreational fisheries all modes (REC=shore, charter, private angler, headboat)) for Gulf of Mexico Spanish mackerel.

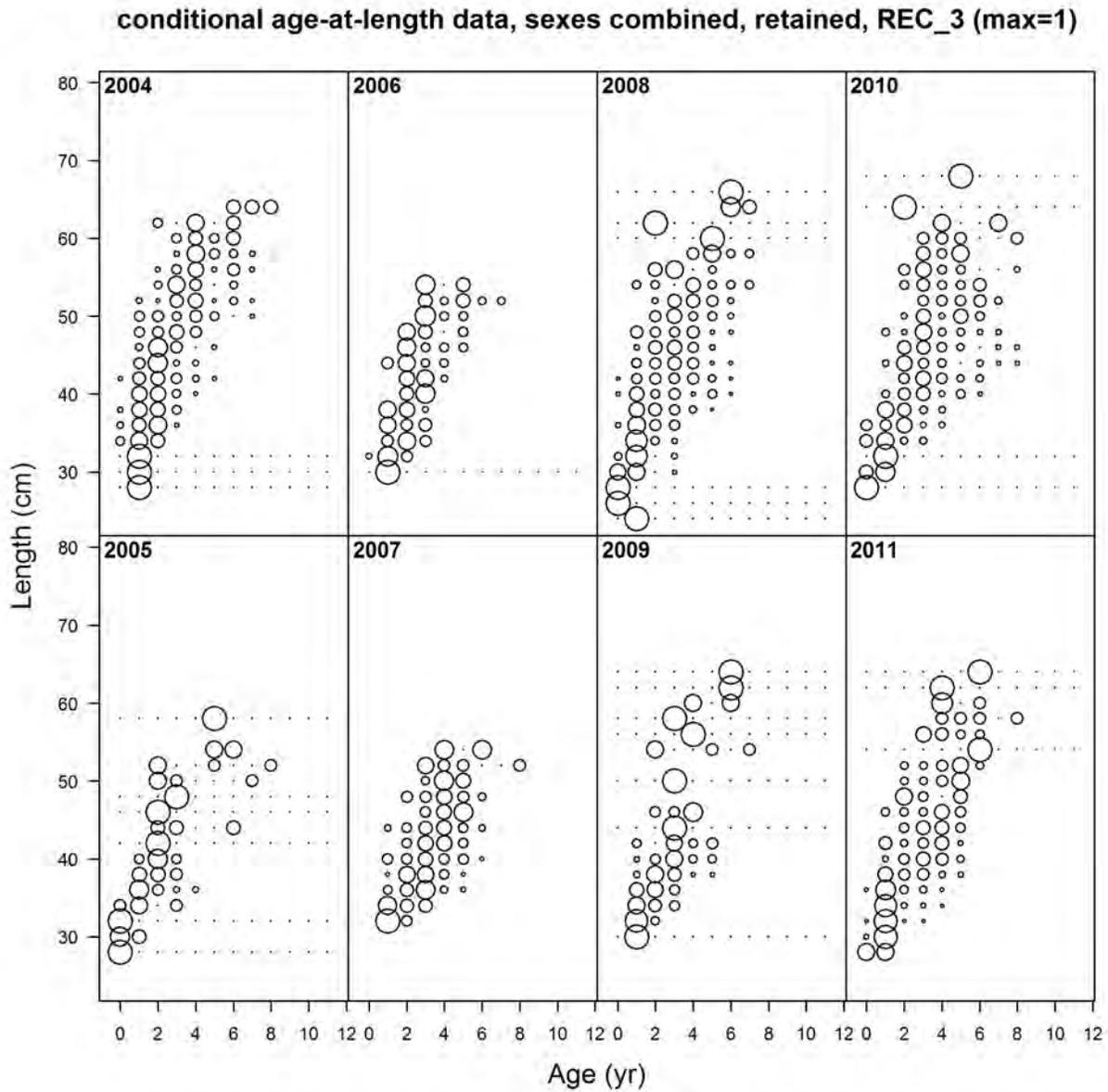


Figure 2.3i. Conditional age at length data, sexes combined, recreational fisheries all modes (REC=shore, charter, private angler, headboat)) for Gulf of Mexico Spanish mackerel.

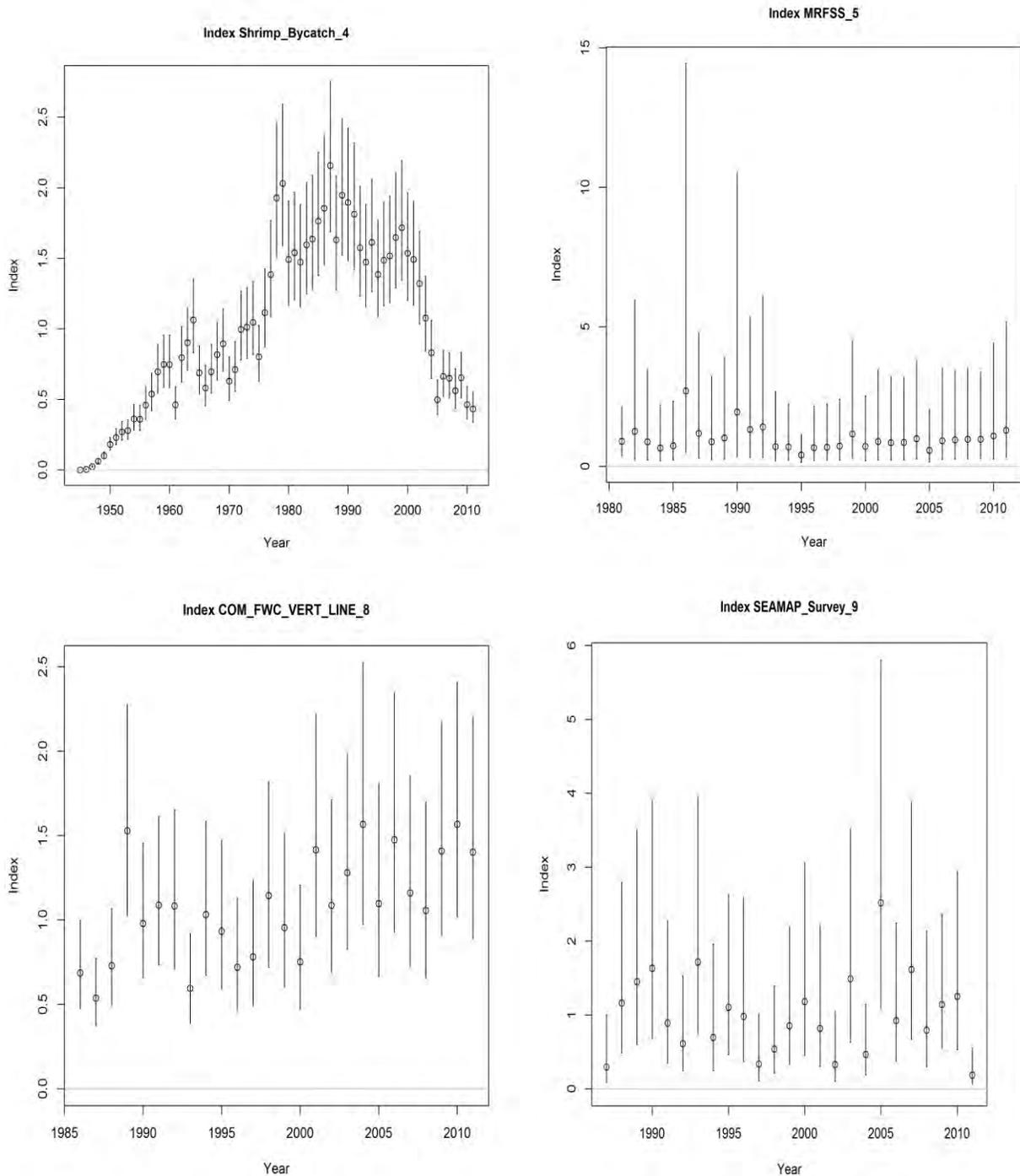


Figure 2.4. Standardized indices of relative abundance and associated coefficients of variation and the index of shrimp effort for Gulf of Mexico. The indices are from the shrimp effort series, b) MRFSS recreational survey (MRFSS), c) commercial line gear fishery (FWC Vertical line index), and d) the SEAMAP trawl survey (SEAMAP). Source: SEDAR 28 DW. Units are: MRFSS- number fish caught per hour fished, FWC Vertical line- pounds per trip, SEAMAP- number per trawl hour.

3 Stock Assessment Models and Results

3.1 Stock Synthesis

3.1.1 Overview

Stock Synthesis (SS) is an integrated statistical catch-at-age model which is widely used for stock assessments in the United States and throughout the world. SS takes relatively unprocessed input data and incorporates many of the important processes (mortality, selectivity, growth, etc.) that operate in conjunction to produce observed catch, size and age composition and CPUE indices. In addition, SS can incorporate time series of environmental data. Because many of these inputs are correlated, the concept behind SS is that they should be modeled together, which helps to ensure that uncertainties in the input data are properly accounted for in the assessment. SS has the ability to incorporate an early, data poor time period for which only catch data are available and a more recent, data-rich time-period for which indices of abundance and length and age-length or age composition observations are available.

The primary assessment model selected for the Gulf of Mexico Spanish mackerel stock evaluation assessment was stock Synthesis (Methot 2010) version 3.24h (beta). Stock Synthesis has been widely used and tested for assessment evaluations, particularly in the US west coast NMFS centers (Methot 2010). Descriptions of SS algorithms and options are available in the SS user's manual (Methot 2010) and at the NOAA Fisheries Toolbox website (<http://nft.nefsc.noaa.gov/>). During the course of the SEDAR 28 assessment the lead analysts collaborated frequently with the model developer (Rick Methot, personal communication) on a variety of model issues but particularly as relates the handling of discards into the model. Traditionally, discards have been input into SS applications by adding the discard magnitude to the total landings of each fishery component. In this assessment, discards were input as discards corresponding to super periods (one super period (1) for the commercial line gear fleet, three (3) super periods for the recreational fleets) along with a small CV, thus allowing the model to incorporate variance about the discard level. Section 2.3 presented estimates of discards.

The r4ss software (www.cran.r-project.org/web/packages/r4ss/index.html) was utilized extensively to develop various graphics for the SS outputs and also was used to summarize various SS output files and to initially conduct the parametric bootstrap.

The “Fishery Simulation” Graphics User Interface (GUI) tool developed by Lee et al. (2012), see <https://fisherysimulation.codeplex.com/>) was the approach used to characterize the uncertainty in final model estimates and projections of future catches for a variety of alternative scenarios recommended by the Assessment Panel (AP). This tool is based on parametric bootstrap analyses used with the integrated fishery stock assessment model, Stock Synthesis (SS, Methot R.D. 2011). Applications of the method to fisheries evaluations using SS are described in Lee *et al.* 2011, Piner et al. 2011, and Lee *et al.* 2012).

3.1.2 Data Sources

The SS model was fitted to landings, discards, length composition, conditional age-length observations, and indices of abundance. These categories of data included: annual landings (mtons), directed fishery discards (recreational and commercial fractions entered as super

periods), shrimp fishery bycatch (dead discards as numbers in 1,000s), and standardized indices of relative abundance (recreational (MRFSS), commercial line gear fishery (FWC Vertical line fishery), SEAMAP Independent fishery trawl survey, and a time series of estimated shrimping effort (shrimp fishery). Although annual estimates of release mortality were not available, some information was available to characterize relative amounts of dead discards from the directed commercial line gear and recreational all modes fisheries as described in the SEDAR 29 DW report. The detailed data used in the SS model fitting are as described in Section 2.

3.1.3 Model Configuration and Equations

The stock was assumed to be in equilibrium at the beginning of the data series, 1886. The terminal year of data was 2011. SEDAR 28 DW provides details and a characterization of the fisheries for Spanish mackerel in the Gulf of Mexico since the late 1800s. The history of commercial landings exists since 1886. Recreational fishery removals were available since 1981 and were hindcast from 1955 to 1980 by the SEDAR 28 DW. It was generally thought that recreational removals of Spanish mackerel prior to 1955 were not large. Shrimp discards were available since 1972 and an index of shrimping effort in the Gulf of Mexico inside 15 fathoms was available since 1945. The stock assessment model, SS, was configured to include removals from three directed fisheries representing removals from the commercial gillnet (COM_GN), commercial vertical line gears (Com_RR) and recreational charter, private, headboat and shore anglers (REC). As described above in the Data Section (2), there were some minor landings reported for “miscellaneous” commercial gears (traps, trawls, seines); these “miscellaneous” commercial landings were apportioned into commercial gillnet and commercial line gears according to the annual representation of each. Three abundance surveys were incorporated representing the commercial line gears (Com_RR) and recreational charter, private, headboat and shore anglers (REC), and the SEAMAP trawl survey (SEAMAP). Initial exploitation rate was assumed to be zero for each fleet. Data inputs also included a time series of fishing effort for the shrimp fishery.

Parameter values for the weight-length relationship, maturity schedule, and fecundity were fixed at the values given in the DW Workshop report (SEDAR 28 DW Report- Section 2.10, Table 2.7) and are presented in Figure 3.1a (this report, weight-length relation). Maturity was input as a fixed logistic function of age with full maturity set for ages 1 plus.

For the initial model configuration natural mortality was modeled as a declining ‘Lorenzen’ function of size constant over time, as recommended by the DW (DW Report-Section 2.4, Table 2.1). Operationally, the age specific Lorenzen M vector was obtained via a two-step process, by first running SS specifying the input M value and the reference age for scaling the Lorenzen M to the Hoenig maximum age estimator point estimate. For the Lorenzen M curve in SS, a parameter describing the natural mortality at a specified reference age (i.e., “REF age”) is defined. Natural mortality values for the remaining ages are scaled according to the estimated growth curve. The REF age for the initial Model run was set equal to age 4 (DW Report- Section 2.4). This was done in SS (internally) by specifying the M type switch in the SS control file to ‘2’ Lorenzen and then specifying in the SS control file the age at which the M intersected the Hoenig point estimate, this occurred at ‘REF-age = 4. The resulting vector of M at-age was then input into the SS model (via specifying this vector of M at-age in the SS control file) for the Base (or Sensitivity) model run. This two-step procedure was reported for the sensitivity runs vs.

different values of M or a different REF age. One additional adjustment of the input M at-age vector was necessary to account for the approach that SS advances ages to age 1 when they first reach January 1, irrespective of time of birth. Spanish mackerel undergo spring spawning thus in SS are advanced to age 1 at ~ 0.5 years of life. Thus, the input value of M for 'age 0' fish from the Lorenzen function was reduced by 0.5. The remaining values of M at-age did not require adjusting. Throughout the stock assessment the impact on model results from assumptions on M (at age) were explored by varying the input M value corresponding to a range of point estimates, re-running the SS model to estimate M at-age and subsequently inputting the new sensitivity M at-age vector into SS. Figure 3.1c (this report) presents the SS Model M at-age and the alternative M at-age characterizations used in the stock assessment. Three sensitivity runs around M were considered, two assuming the DW recommended CV around M of 0.54 corresponding to an M value estimate of M of 0.27 y^{-1} and 0.49 y^{-1} (DW Report- Section 2.4) and another using the DW point estimate of M (0.38 y^{-1}) and set the input REF age = 3. Figure 3.1c provides the characterizations of natural mortality explored in the stock assessment.

Growth was modeled internally in SS as both sexes combined with a three parameter von Bertalanffy equation (L_{min} , L_{max} , and K) (Figure 3.1a). In SS, when fish recruit at the real age of 0.0 the body size at length is set equal to the lower edge of the first population bin (L_{bin} ; fixed at 2-cm FL for the Spanish mackerel stock assessment). Then, individuals grow linearly until they reach a real age equal to the input value of A_{min} (growth age for L_{min}) and have a size equal to the L_{min} . Then, as fish advance in age, the size at age is then characterized according to a von Bertalanffy growth equation. The value of A_{min} was fixed at 0.5 which is representative of a fractional age of ~ 0.5 representing the midpoint of the spawning period (May-August). The L_{min} value was selected for A_{min} based on empirical size at age observations by month, from the age 0 fish provided in the age-length data. L_{max} was specified as equivalent to L_{∞} . Variation in the size-at-age was estimated by SS for the growth model for ages 0.5 and 11. For intermediate ages a linear interpolation of the CV on mean size-at-age is used.

The SS model can also incorporate information on age at length (i.e., similar to age length key) in the model estimation process thus estimating the distribution of age within a length interval (Methot 2011). Methot points out that "this approach avoids redundancy of using fish for both age and size information in the model estimation since the age observation is conditional on length". As described in Section 2.5 the age at length data from the SEDAR 29 DW was stratified into age (from age 0 to age 11) by 2-cm length bins ranging from 4 to 99 cm, with age 11 representing a plus group.

Size based selectivity patterns were specified for each fishery and survey in SS. Double normal functions were used to model selectivity, because of the flexibility this functional form provides. The double normal can model dome-shaped selectivity, but it also can model asymptotic selectivity by holding several of the function's parameters at fixed values. Four selectivity patterns were defined in SS corresponding to each fishery and survey: 1) commercial gillnet (COM_GN), 1) commercial line gear (COM_RR), 3) recreational combined modes (private, charter, headboat-REC), and the 4) SEAMAP trawl survey (SEAMAP). The SEDAR 28 AP decided to constrain the commercial line gear fishery and the recreational fishery selectivity patterns to be asymptotic, because there was no strong evidence of dome-shaped selectivity and the fit of the model was not substantially improved when specifying a dome selectivity function.

The MRFSS abundance survey mirrored the recreational combined fisheries (REC) selectivity. The commercial line gear abundance index (from the FWC Vertical line gear fishery) mirrored the commercial line gear fleet (COM_RR).

Retention curves were used to account for discards in the size composition and to adjust for impacts of fishery minimum size regulations implanted in 1993 (12 inch fork length). The retention function was specified as a two parameter logistic function. SS can incorporate time varying parameter estimation thus two time blocks were assumed in modeling the retention function for the COM_RR and Rec fleets corresponding to the size limit, 1992 and earlier and 1993 – 2011.

For the assessment, the SS model configuration assumed a single Beverton-Holt stock-recruitment function and two of the three stock recruitment (“S/R”) parameters were estimated: log of unfished equilibrium recruitment (R0) and steepness (h). A third parameter representing the standard deviation in recruitment (*sigmaR*) was input as a fixed value of 0.7.

Stock synthesis is hard-coded to model recruits as age 0 fish. Annual deviations from the stock-recruit function were estimated in SS as a vector of deviations forced to sum to zero. Stock synthesis assumes a lognormal error structure for recruitment. Therefore, expected recruitments were bias adjusted. Methot (2010) recommends that the full bias adjustment only be applied to data-rich years in the assessment therefore the estimates are very precise ($\sigma^2=0$). Therefore, no bias adjustment was applied prior to 1985, when only catch data are available. Prior to 1984, recruitment is estimated as a function of spawning stock biomass based on the stock-recruit parameters. This is done so SS will apply the full bias-correction only to those recruitment deviations that have enough data to inform the model about the full range of recruitment variability (Method 2011). Full bias adjustment was used from 1985 to 2010 when length and age composition data are available. Bias adjustment was phased in from no bias adjustment prior to 1972 to full bias adjustment in 1984 linearly. Bias adjustment was phased out over the last two years (2010-2011), decreasing from full bias adjustment to no bias adjustment, because the age composition data contains little information on recruitments for those years. The years selected for full bias adjustment were estimated following the methods of Methot and Taylor (2011).

During the stock assessment, an update to the SS model was provided that allowed the shrimp fishery discards to be modeled as a bycatch fishery. As mentioned above in the Section 2.3.2 and 2.6, previously, discards were incorporated into the Spanish mackerel stock assessments as a component of the landings and assumed to be precisely estimated. For this stock assessment as recommended by the SEDAR 28 AP, the magnitude of discards was assumed proportional to shrimp fishing effort within 10 fathoms. SS assumes the level of annual fishing mortality and thus Spanish mackerel bycatch is directly proportional to the annual shrimp effort index. The annual median estimates of Spanish mackerel shrimp bycatch for 1972 -2011 were input as a super year and the scaled effort for 1945-2011 time series was input into SS to obtain estimates of total annual fishing mortality by the shrimp fleet and predicted total Spanish mackerel bycatch. In the estimation, a catchability parameter (Q) is used to scale the effort series to the estimate of bycatch. In SS, since the shrimp bycatch was input as the median estimate across the entire time series (i.e., as a super year), the median estimate of bycatch is assumed as the

observed value over the time period, 1945-2011. Estimated Spanish mackerel bycatch is then derived from the annual levels of shrimp effort.

For the initial model runs all data inputs (abundance indices, length compositions, and age compositions) were equally weighted and no prior density was assumed for estimated parameters

The SS input files are presented in Appendices C-F.

3.1.4 Parameters Estimated

Table 3.1 provides a listing of all parameters estimated in SS. Results included are predicted parameter values and their associated standard errors from SS, initial parameter values, minimum and maximum values a parameter could take, and prior densities assigned to parameters. Table 3.1 presents the model estimates for Final Model recommended by the SEDAR 28 AP for Gulf Spanish mackerel.

As mentioned in Section 3.1.1.3, growth was estimated internally in SS (using conditional age length data provided by the SEDAR 28 DW). Initial parameter estimates for the growth relationship (i.e., for the Lmin, Lmax, Amin parameters) were guided by external growth model fits using the empirical age length data developed by the DW. Figure 3.1b presents the estimated growth curve from the SS model used in the stock assessment.

Initial starting guesses for the size selectivity patterns were first specified by fitting the observed length compositions and visually inspecting the resulting fits characterizations of either the asymptotic (COM_RR or REC) or dome shaped (COM_GN, SEAMAP). For the asymptotic function, two of the retention parameters were fixed at the input values to force an asymptotic function. SS allows use of time varying selectivity to incorporate effects of size limits (implemented in 1993) on selectivity. Time blocks were specified for the two fisheries for which discards were reported from: commercial line gears (COM_RR) and the recreational all modes (REC) as: 1) a pre- 1993 period and 2) a 1993-2011 period corresponding to the time of implementation of a 12 inch fork length size limit. This provided for the possibility of estimation of both retention and selectivity functions for the two different time blocks for these fisheries. Attempts to estimate both retention and selectivity functions for these two fisheries (COM_RR and REC) were not satisfactory and produced unreasonable functions. Length composition data were only available for the retained catch therefore efforts were focused on estimating the retention function as recommended by the SS model developer (R. Methot, personal communication). For the REC fishery it was possible to estimate both the inflection and shape (slope) retention- function parameters for both time blocks. For the COM_RR fishery it was necessary to fix the slope parameter (P2) for period 1, prior to 1993. Selectivity for the remaining fleets, COM_GN and the SEAMAP survey were characterized estimated using the double normal. Efforts were initially made to model the COM_GN selectivity as a single time period however, lack of fit was particularly high in later years, after 2006. Follow up research by the lead analyst to federal and state port samplers confirmed that around 2006, sampling intensity increased significantly in Alabama and in particular observations of fish less than 30 cm fork length, occurred in the time series after that time. Fish less than 30 cm fork length were not previously recorded observed in the gillnet samples. Addition of a selectivity time block for the COM_GN fleet resulted in much improved fits to the COM_GN length composition data.

As mentioned in the model configuration section (Virgin recruitment (R0) and steepness parameters were estimated in SS. Results from attempting to estimate steepness produced a low value (0.52) which suggested very low productivity for the stock. The AP panel had considerable questions on the ability of the model to estimate steepness so the analyst conducted profiling of the steepness and virgin recruitment parameters. The standard deviation parameter (sigmaR) for recruitment was fixed at the initial input value (0.7) and set based on review from other SS examinations. A profile of sigmaR was also carried out and did not indicate disparity in the initial input value choice of 0.7 so this parameter remained fixed throughout the stock assessment at 0.7.

Additional fishing mortality rates used for recommending future harvest levels are estimated conditionally on other outputs from the model. For example, the values corresponding to the *F30%SPR*, and *FMSY* harvest rates are found by satisfying the constraint that given age specific population parameters (e.g., selectivity, maturity, mortality, weight-at-age), unique values exist that correspond to these fishing mortality rates.

In all, 376 parameters were included in the SS model: five (5) to model growth, 26 to characterize the selectivity and/or retention functions, one (1) parameter to estimate the shrimp bycatch fishery catchability coefficient, 28 annual recruitment deviations, and 376 annual fleet specific fishing mortality parameters.

3.1.5 Model Convergence

Uncertainty in the Gulf of Mexico Spanish mackerel stock assessment was examined using multiple approaches.

Uncertainty in model parameter estimation performance was also addressed through an internal SS parameter “jitter” option which randomly changes the input parameter by a specified value. A jitter value of 10% was input for this assessment and 100 runs were made. SS carries out the jitter exercise by randomly changing the initial starting values of the parameters by 10% thus altering the starting estimates across many runs. The purpose in changing the parameter starting estimates across numerous models is to explore the model’s ability to reach a global solution (i.e., minima) from starting at different places along the likelihood space.

3.1.6 Uncertainty and Measures of Precision

Uncertainty in parameter estimates was quantified by computing asymptotic standard errors for each parameter (Table 3.1). Asymptotic standard errors are calculated by inverting the Hessian matrix (i.e., the matrix of second derivatives) after the model fitting process. Asymptotic standard errors provide a minimum estimate of uncertainty in parameter values.

The “Fishery Simulation” Graphics User Interface (GUI) tool developed by Lee et al. (2012, <https://fisherysimulation.codeplex.com/>) was the approach used to characterize the uncertainty in final model estimates and projections of future catches for a variety of alternative scenarios recommended by the Assessment Panel (AP). This tool is based on the bootstrap analyses used the integrated fishery stock assessment model, Stock Synthesis (SS, Methot R.D. 2011). General application to other assessment model or other field has not been explored. Applications to the

fishery using SS can be referred (Lee *et al.* 2011; Piner *et al.* 2011; Lee *et al.* 2012). Lee *et al.* (2012) present detailed steps in the GUI tool. Briefly, within the GUI tool, SS is fit to the model of choice and N new data sets (bootstrap sets) are created based on the original model (all parameters either fixed or estimated the same as the original model) and parametric sampling of the errors (Lee *et al.* 2012). Using the GUI tool then, the resulting N bootstrap files can be summarized to provide information on uncertainty in the model estimates and other additional output (derived estimates). Lee *et al.* (2012) discuss the utility of using the Fishery Simulation tool to provide another way to construct a distribution of likely parameter values for a complex fisheries population model.

In the Spanish mackerel assessment, the GUI tool was used to evaluate the uncertainty in model parameters (e.g., growth parameters, selectivity parameters, recruitment deviations) and other key quantities of interest (e.g., total virgin biomass, spawning biomass (SSB), current SSB, etc.).

3.1.7 Sensitivity Analysis

Uncertainty in data inputs and model configuration assumptions was examined through various sensitivity analyses. In all, results of 12 separate SS3 model runs are included in this report describing the initial SS model configuration, sensitivity analyses, data exclusions, and reweighting runs conducted to evaluate a) assumptions on steepness, b) assumptions of input M at-age, c) impact of the elimination of abundance indices on model estimates, and d) consideration of the assumption on release mortality of discards from the directed fisheries (COM_RR and REC). Over the course of the stock assessment, many additional sensitivity analyses were explored. It is the main intent to present here those runs that best explored the sensitivity of key model parameters and/or demonstrated discord (or agreement) in model estimates between runs. Table 3.2 describes the SS Model runs made in the stock assessment and all the alternative (sensitivity, reweighting, retrospective) analyses made for the stock assessment.

Two sensitivity analyses on M were made by varying the level of M from that of the initial model trial (Run 1) configuration. As described earlier, the initial model run M at-age vector was calculated assuming the Hoenig point estimate of $M = 0.38y^{-1}$ for the Lorenzen function. Two additional M sensitivities ($M = 0.27 y^{-1}$ and $0.49 y^{-1}$) were considered corresponding to a CV of 54% on the input base M value ($0.38y^{-1}$). In addition, an additional sensitivity analysis on M was specified by varying the reference age (REF age) for the Lorenzen function from ‘REF age = 4’ to ‘REF age = 3’.

The assumption of the stock recruitment relationship used in the SS model was considered. First the Beverton – Holt steepness parameter was profiled by varying the input value from 0.4 to 1.0 and incrementing by 0.01. Second, three sensitivity runs were made by fixing the steepness parameter: varying the value fixed from 0.7 to 0.9 (by 0.1).

In addition to evaluating impacts on the SS Model from assumptions on steepness and M, the assumptions of data inputs were considered through 1) varying the discard level release mortality and 2) through removing complete suites of data (e.g., abundance indices). The impacts on model estimates from the inclusion of individual data components were addressed through

sequentially dropping individual indices (i.e., MRFSS, FWC Fish Ticket, and SEAMAP Survey) from the initial base model run.

A sensitivity analysis was also carried out to determine the influence of 1) the length-frequency and age sample size and b) the impact of variance reweighting of the abundance indices on model results. McAllister and Ianelli (1997) used an analytical method to determine the effective sample size for catch at-age data based on the observed and predicted proportional catch at age. They used a method of iteratively modifying the sample size based on this calculation until the change in sample size was small. In this assessment, the internal procedure within SS was used to determine new sample sizes for each set (fishery and time period) of length-frequency data. The original sample size for the surface gears used in the base case was based on number of observations (lengths or ages) and was capped at 100. SS estimates the effective sample size (N), the model is rerun with variance adjustment factor equal to effective sample size /input N. This is repeated until the effective sample size and input N are equal. Index reweighting was also examined using the internal reweighting option in SS. Survey (index) reweighting is performed by adding the variance adjustment to the survey standard deviation and the model re-run until the model variance and the input standard deviation + the variance adjustment factor are equal. For this sensitivity run, the model assumed the configuration of the initial model run (Run 1) and also estimated steepness.

A complete characterization of all the sensitivity and alternative models explored for the stock assessment were as below and further detailed in Table 3.2:

Run 1: Initial Model

Estimated growth, $M=0.38y^{-1}$ input into Lorenzen and scaled to Reference Age 4, estimate steepness, estimate virgin stock (R0), estimate recruitment deviations (1985-2010), input discards as discards (thousands of fish 1 super period (shrimp bycatch fishery), fractions directed fishery (1 super period commercial line gears (COM_RR), 3 super periods (recreational (REC)), 2 time varying selectivity/retention blocks commercial line gear (COM_RR) and recreational all modes (REC): pre-1993, 1993-2011, 2 time varying selectivity blocks commercial gillnet fleet (COM_GN) pre-2006, 2006-2011.

Run 2: Run 1 Configuration, $M = 0.38 y^{-1}$, except the Beverton and Holt steepness parameter fixed at 0.9.

Run 3: Run 1 Configuration, $M = 0.38 y^{-1}$, except the Beverton and Holt steepness parameter fixed at 0.8.

Run 4: Run 1 Configuration, $M = 0.38 y^{-1}$, except the Beverton and Holt steepness parameter fixed at 0.7.

Run 5: Run 3 Model Configuration (Beverton and Holt steepness parameter steepness = 0.8) and M SENS HI ($M = 0.49 y^{-1}$) sensitivity with M value input into Lorenzen function.

Run 6: Run 3 Model Configuration (Beverton and Holt steepness parameter = 0.8) and M SENS LO ($M = 0.27 \text{ y}^{-1}$) sensitivity with M value input into Lorenzen function.

Run 7: Run 3 Model Configuration (Beverton and Holt steepness parameter = 0.8) and $M = 0.38 \text{ y}^{-1}$, Lorenzen scaling “REF Age = 3”.

Run 8: Run 3 Model Configuration (Beverton and Holt steepness parameter = 0.8) and $M = 0.38 \text{ y}^{-1}$, discard release mortality varied from 10% to 20% for COM_RR fleet discards and from 20% to 40% for REC fleet discards)

Run 9: Run 3 Model Configuration (Beverton and Holt steepness parameter = 0.8), and $M = 0.38 \text{ y}^{-1}$, exclusion of MRFSS index.

Run 10: Run 3 Model Configuration (Beverton and Holt steepness parameter steepness = 0.8) and $M = 0.38 \text{ y}^{-1}$, exclusion of FWC Trip Ticket index.

Run 11: Run 3 Model Configuration (Beverton and Holt steepness parameter = 0.8) and $M = 0.38 \text{ y}^{-1}$, exclusion of SEAMAP Survey Index.

Run 12: Run 1 configuration (Initial Model run), and $M (0.38 \text{ y}^{-1})$, with SS reweighting of abundance indices, age composition, and length composition components. The Beverton and Holt steepness parameter estimated in this run as in Run 1.

Other alternative models were also explored in this stock assessment. These considered the impacts on model estimates from removing complete data years on estimates of terminal year metrics:

Run 13: Run 3 Model Configuration (Steepness = 0.8, $M = 0.38 \text{ y}^{-1}$), “RETROSPECTIVE 2010”, assumes 2011 data excluded.

Run 14: Run 3 Model Configuration (Steepness = 0.8, $M = 0.38 \text{ y}^{-1}$), “RETROSPECTIVE 2009”, assumes 2010-2011 data excluded.

Run 15: Run 3 Model Configuration (Steepness = 0.8, $M = 0.38 \text{ y}^{-1}$), “RETROSPECTIVE 2008”, assumes 2009-2011 data excluded.

Run 16: Run 3 Model Configuration (Steepness = 0.8, $M = 0.38 \text{ y}^{-1}$), “RETROSPECTIVE 2008”, assumes 2009-2011 data excluded.

Run 17: Run 3 Model Configuration (Steepness = 0.8, $M = 0.38 \text{ y}^{-1}$), “RETROSPECTIVE 2006”, 2007-2011 data excluded.

3.1.8 *Retrospective Analysis*

Model performance was also addressed using retrospective analysis of the model configuration recommended by the SEDAR 8 AP for the Run 3 configuration. As described above, Run 3 was the same as the Run 1 model except that the Beverton and Holt steepness parameter was fixed at 0.8. The AP felt that this value of steepness was more reasonable for this species than that estimated by model (0.52). In all five retrospective analyses of the base model were made. For these runs, the model was refit while sequentially dropping the last five years of data (i.e., 2011, 2010-2011, 2009-2011, 2008-2011, 2007-2011, and 2006-2010). Retrospective analysis is used to look for systematic bias in estimates of key model output quantities over time.

3.1.9 *Benchmark/Reference points methods*

Various stock status benchmarks and reference points are calculated in SS. The user can select reference points based on maximum sustainable yield (MSY), spawning potential ratio (SPR), and spawning stock biomass (SSB). Stock Synthesis calculates SPR as the equilibrium spawning biomass per recruit that would result from a given year's pattern and the levels of F 's and selectivity's. For SPR-based reference points, SS searches for an F that will produce the specified level of spawning biomass per recruit relative to the un-fished value. For spawning biomass-based reference points, SS searches for an F that produces the specified level of spawning biomass relative to the un-fished value. Both MSY and spawning biomass-based reference points are dependent on the stock-recruit relationship.

For the Gulf of Mexico Spanish mackerel benchmarks and reference point calculations, SPR30% was the reference. MSST is defined as $(1-M) * SSB_{MSY}$ (F30% SPR) where the M values used was the point estimate of M for fully recruited ages, resulting from the Hoenig maximum age natural mortality estimator recommended by the SEDAR 28 Data Workshop (i.e., $M = 0.38y^{-1}$). MFMT is defined as $F30\%SPR$. Overfished is defined as $SSB_{Current} / SSB@MSST$ and Overfishing is defined as $F_{Current} > MFMT$ (or $FMSY$, where the proxy for $FMSY$ for this assessment is $F30\%SPR$). For purposes of calculating $F_{Current}$, "current time period" is defined as the geometric mean of F s for 2009-2011. $SSB_{Current}$ is the model estimated SSB for calendar year 2011. Recruitment deviations are not calculated for the forecast years; recruitment is derived from the model estimated stock-recruitment relationship.

Because of the problems associated with estimating the steepness parameter for the Gulf of Mexico Spanish mackerel stock assessment (see 3.1.1.5), benchmarks based on two levels of steepness (0.8 and 0.9) were developed assuming the M at-age from the Lorenzen function for the Hoenig point estimate ($M = 0.38y^{-1}$). In addition, benchmarks were also computed for the alternative level of M_{Hi} at-age ($M = 0.49y^{-1}$). One alternative set of projections was made for the M_{Hi} scenario, $M = 0.49 y^{-1}$.

3.1.10 *Projection Methods*

A standard set of projections is required for each stock managed under Tiers 1, 2, or 3, of Gulf of Mexico Fishery Management Council Coastal Migratory Fishery Management Plan Amendment 18

(<http://www.gulfcouncil.org/docs/amendments/Mackerel%20Amendment%2018%20Amendment%20Guide%20Booklet%2011-2-11.pdf>). This set of projections encompasses four harvest scenarios designed to satisfy the requirements of Amendment 18, the National Environmental

Policy Act, and the Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA). These guidelines were used to set ABC for Spanish mackerel for Amendment 18. The standard projection model requires knowledge of future uncertainty in FMSY or the proxy for FMSY.

For this stock assessment, deterministic projections were carried out to evaluate stock status for a period of 20 years beginning in 2013 using the “forecast” option in SS. The terminal year of data for the stock assessment was 2011 therefore in order to initialize the projection at 2013; the 2012 landings were characterized as the landings from the most recent three years (2009-2011). SS estimates the fishing mortality rate to achieve the input 2012 catch value and estimates age 0 recruits from the estimated-spawner recruit model and the 2012 estimate of SSB.

Since the SEDAR 28 AP had concerns regarding what was the logical value to assume for the stock-recruit relationship parameter and also the level of M, this stock assessment conducted projections at two levels of these parameters. Deterministic projections were made for two levels of steepness (0.8 and 0.9) assuming the point estimate of M recommended by the DW for to natural mortality assumption (Base Lorenzen Input ($M = 0.38y^{-1}$). A second set of projections were made for each level of steepness (0.8, 0.9) for each level of M ($0.38y^{-1}$, $0.49y^{-1}$). The evaluations were made according to these MSRA criteria:

- A) If stock is overfished:
 $F=0$, $F_{Current}$, F_{MSY} , FOY
 $F=F_{Rebuild}$ (max that permits rebuild in allowed time)
- B) If stock is undergoing overfishing:
 $F= F_{Current}$, F_{MSY} , FOY
- C) If stock is neither overfished nor undergoing overfishing:
 $F= F_{Current}$, F_{MSY} , FOY

Uncertainty in the projections was also evaluated using the “Fishery Simulation” Graphics User Interface (GUI)” tool discussed in Section 3.1.1.5 (Uncertainty and Model Precision). Through the GUI tool, multiple sets of the data bootstrapped from the Base Model (Run 1) were developed and the SS model fitted to each simulated data set independently. The procedure was to identical to that used to characterize the base model uncertainty with the only difference being that the run was extended to include the period of projections. The stochastic projections were made for each of two steepness levels (0.8, 0.9) assuming the input point estimate of natural mortality ($M=0.38y^{-1}$).

3.2 Model Results

3.2.1 Measures of overall model fit

3.2.1.1 Landings

Stock Synthesis effectively treats the landings data as being known without error. Therefore, the landings are fit precisely.

3.2.1.2 Indices

In general SS fit the three indices of abundance only fairly well (Figure 3.2). Observed CPUE from the standardized abundance indices varied without trend over the time series for each abundance survey. The only exception was a slight increase in observed abundance in recent years (2003 - 2011) for the FWC Vertical Line Index. There was some apparent trending in the predicted index fits for all three surveys (MRFSS, COM_FWC_VERT_LINE, and SEAMAP_Survey). All of the abundance indices exhibited large variability and in general the predicted fits indicated relatively flat unchanging trends over each of their respective abundance time series. The large variances associated with the directed fishery indices could have contributed to the overall poor fits. The COM_FWC_VERT_Line was the only abundance index that showed any departure from the average trend, tending to predict a slight increase in abundance after 2003. The observed shrimp effort index showed a linear increase in effort from the beginning of the time series (1946) through around the mid 1980's, a moderate decline through 2000, followed by a sharp decline in shrimp effort between 2000 and the current period. SS fit the shrimp effort index reasonably well (Figure 3.2).

3.2.1.3 Discards

SS fit the super period discards (fractions for the directed fishery and numbers for the bycatch fishery) reasonably well (Figure 3.3 a - c). As noted above (Section 2.3) for this assessment discards were incorporated into the assessment as super periods discards. This is a departure from previous stock evaluations (VPA, SS, or stock production models (e.g., ASPIC)) for this stock as to the approach in which discards have been analytically incorporated into the population model, for the shrimp bycatch fishery and also the directed fishery. In this evaluation, discards were treated as discards and input with a small CV, thus allowing some variability around the estimate to be incorporated into the model estimation. In addition, it was thought that the actual trend of the discards was more representative of the level of discards than the actual annual estimates thus "super periods" were used to quantify (characterize) the discard removal levels over the time series, or as with the REC discards across each of the three super periods. Section 2.3 reviewed discard data inputs and the specific time periods for each fishery (bycatch, commercial line gear (COM_RR) and recreational all modes combined (REC). Figure 3.3 a, b presents SS predicted discard fraction for the directed fisheries. Figure 3.3c provides the SS predicted discards (thousands of fish) for the shrimp bycatch fishery.

The observed annual discards showed large variability for both the directed fisheries (fractions) and the shrimp bycatch fishery (numbers of fish). Estimates of recreational discards and their associated CV values are presented in the SEDAR 28 DW (Table 4.11.7). The SEDAR 28 DW noted that "Commercial discards and shrimp bycatch are based on estimated encounter rates and effort. In years when multi-year averages are used to compute encounter rates, these estimates do not account for year-specific age structure in the Spanish mackerel stock". In addition, the SEDAR 28 DW noted that other factors contributing to uncertainty in commercial discards were from low coverage of the logbook survey (SEDAR 28 DW Table 3.11). Shrimp fishery discards in particular had low encounter rates of Spanish mackerel thus estimation is hampered by dealing with large number of zero observations. The SEDAR 28 DW noted that although the annual catch of Spanish mackerel by the shrimp fishery was very variable the mean bycatch could reflect the overall scale of bycatch across the time series. These concerns add additional support to the use of super periods in the SS model to characterize the magnitude of removals.

3.2.1.4 Length composition

SS fit the individual yearly fishery length compositions reasonably well (Figures 3.4 - 3.11). In general length composition sample sizes were lowest for the commercial line gears (COM_RR) and largest for recreational all modes fleet (REC) (Appendix A and Figures 3.4-3.12). There were no striking issues with patterns in residuals.

Initially, for the COM_GN fleet, when only a single time block was specified, a discernible lack of fit was present in the later years (2006+) length compositions. Adding a time block for 2006-2011 cleared up this issue. As noted earlier, 2006 corresponded to a change in the intensity of sampling of the gillnet fishery off Alabama and when a noticeable quantity of smaller size Spanish mackerel were observed in the samples. The poorest fits for the COM_GM length composition correspond to years when the sampling intensity was very low ($n < 75$ fish per year sampled). Overall, the fits to the fleet year/fishery strata represented by larger sample sizes, such as characterized by the recreational all modes (REC) compositions in most years, were noticeably superior to other fleet-year strata.

Fits for the commercial line gear (COM_RR) were in general represented by very low sample sizes and poorer length composition fits than for the other fleets and the survey length composition fits. This was not surprising given the low sample sizes in general with some years not represented at all in the length composition. Length composition samples from the COM_RR fleet do not appear before 1985. SS underestimated fish greater than 50cm in several years, since 2008. SS underestimated fish between 30-40 cm in 2008. Spanish mackerel in general are not actively targeted by the Gulf of Mexico commercial line gear fishery so the absence of samples over several sequential years (1986-1990 and 1996-2002) and very low sample sizes for many years is not particularly surprising.

SS fits to the REC length composition was overall quite good with little to no indication of fitting problems. There was a slight pattern in residuals for small fish, about the time of the implementation of the size limit (1993) and for a few subsequent years, indicating that some fish below the minimum size were still being retained through about 1997. The 1993 – 1998 length composition contained a number of fish above 80cm; these samples are in question as they appear much larger than previously reported for Spanish mackerel harvested by the recreational sector. Overall though, SS fit the recreational fleet length composition reasonably well.

SS fit the SEAMAP length composition reasonably well; however there was some tendency of the model to always underestimate the proportion of fish larger than 40 cm.

3.2.1.5 Conditional age-length composition

The model fits to the conditional age-length age composition samples are presented in Figures 3.12 - 3.23. The conditional age composition fits represent the estimates of age composition within length interval (bin) and in many cases the number of age observations within a bin interval was very low adding difficulty to the fitting process. Low sample sizes and high variability in observed size at age added to the fitting complexity.

Figure 3.1b and c presents the SS estimated von Bertalanffy growth equation, the growth curve estimated by the DW and mean size at age for the observed otolith age observations used in developing the conditional age-length compositions.

3.2.2 *Parameter estimates & associated measures of uncertainty*

Table 3.1 provides a listing of all parameters estimated in SS for the model recommended by the panel for final projections and status determinations; this was the model Run 3 configuration which was identical to Run 1 except steepness parameter was set at 0.8. This recommendation was based on extensive discussion and review of all of the sensitivity runs, the retrospective analyses, the results of profiling the steepness parameter, and inspection of the uncertainty results from the bootstrap analyses. These results will be detailed in the text below. Table 3.1 includes predicted parameter values and their associated standard errors from SS, initial parameter values, minimum and maximum values a parameter could take, and prior densities assigned to parameters. Parameters designated as fixed were held at their initial values.

Asymptotic standard errors are obtained in SS by inverting the Hessian matrix that is the matrix of second derivatives, after the final model fitting process. The standard errors of most of the parameters are low. The main exception is for the standard errors for some of the selectivity parameters (COM_GN, Shrimp Bycatch P2) (Table 3.1).

Table 3.3 presents summary means and asymptotic standard errors for the parameters estimated for N = 1,000 bootstrap runs on the Run 3 model which assumed steepness = 0.8 and the base M value ($0.38y^{-1}$). As mentioned in Section 3.1.6, the Fishery Simulation” Graphics User Interface (GUI) tool developed by Lee et al. (2012,) was used to carry out bootstrapping to examine model uncertainty. This procedure applies the SS bootstrap option to generate N=1,000 replicate data sets from the ‘original input model (Run 3). The bootstrap files are produced by using the parameter error inputs and sample sizes from the original run (Run 3); after generating the 1,000 bootstrap files, the GUI tool then runs the SS model separately on each bootstrap file. In general the results were very similar to that of the

Model convergence was examined by the SS jitter option. Summary results are presented in Table 3.4 and Figures 3.24 - 3.26 for the 100 jitter runs that were run against the SS model configuration for Run 3. Of the 100 runs, ninety-six model runs resulted in likelihood values that were almost identical to that of the Run 3 model value (4,226.76) (Figure 3.24). Results of the model runs that converged on nearly identical solutions predict very similar levels of SSB_REF and SPR in 2011 and F_{current} and F_REF (Figure 3.27).

3.2.3 *Fishery Selectivity*

Predicted size selectivity and retention patterns are presented in Figures 3.27 – Figures 3.30 for the Run 3 model configuration (steepness = 0.8 and M = $0.38y^{-1}$). The FWC Fish Ticket abundance index was assumed to have the same pattern as the COM_RR fleet and the SEAMAP survey pattern was mirrored to the shrimp bycatch fishery.

Two retention functions (logistic in form) were modeled for the COM_RR and the REC fisheries to account for the minimum size limit that was implemented in 1993. The selectivity function was very steep for both COM_RR and the REC fishery. There were no length composition samples to characterize the discards length composition selectivity so more focus was placed on modeling the retention function. It was difficult to model the COM_RR fleet selectivity and retention function at the same time. Other contributing factors included very low sample sizes, truncated distributions, and the appearance of many large fish in some years. When the

selectivity function was modeled, SS attempted to push the peak of the curve to very large sizes, and hitting the upper bound of this parameter (99 cm FL). When only the retention function was modeled and the peak for the selectivity function was fixed (at 55cm), improved fits resulted. Insufficient samples lead to overall lack of fit for this fleet selectivity/retention pattern. Several attempts were made using a range of peak (50, 55, 60, and 65 cm FL) values for the COM_RR peak selectivity parameter before the AP decided on 55cm.

The standard errors for some of the COM_GN selectivity parameters were very high and indicate that this selectivity pattern was not well estimated. Initial work to model the gillnet fishery selectivity show lack of fit particularly with estimating selectivity of some small fish that appeared after 2006. An addition of a separate time block (for 2006 -2011) resulted in much improved fits.

The selectivity/retention patterns for the REC fleet were reasonably well behaved and overall produced superior length composition fits.. The REC fleet in general caught smaller fish than the COM_RR fleet but small fish also appeared in the COM_GN fleet during many years. The selectivity pattern was steeper for the REC fleet than the COM_RR. SS predicted that some fish above the size limit would be released however the proportion was fairly low. This is reasonable given the bag limit regulation for the Spanish mackerel. The fishery abundance indices for the MRFSS were assumed to have the same selectivity pattern as the REC fleet pattern

Size selectivity for the shrimp fishery was modeled using a 6 parameter double-normal function and two of the parameters were fixed (Table 3.1). The length composition from the SEAMAP survey shows that fish from about 4 cm to 54 cm were captured by the survey.

3.2.4 Recruitment

The SS model had difficulty estimating the steepness parameter for the Beverton – Holt stock recruitment (S/R) relationship that was assumed for the Spanish mackerel stock assessment. Profiling of the steepness parameter is presented in Figure 3.31 for the Run 1 model configuration ($M = 0.38y^{-1}$). Steepness was estimated to be 0.52 for the initial model (Run 1) and this value was considered quite low for this species. SS was able to estimate the S/R parameter, R_0 (log of virgin recruitment level) without difficulty for the Run 1 model which assumed $M = 0.38y^{-1}$ and also estimated steepness (Figure 3.32). SS estimated $\ln(R_0)$ to be 11.33 from the Run 1 model. Also SS estimated σ_R , the standard error of log recruitment without difficult (Figure 3.33). After many different runs examining the model's ability to estimate steepness over varying assumptions of natural mortality and also examining the bootstrap results, the AP recommended to use steepness = 0.8 (Run 3) for subsequent summaries of key parameters and in projections and status determinations.

Figure 3.34 presents summary results for 496 bootstrap runs for the Spanish mackerel SS Run 1 model in which steepness parameter was estimated (assuming $M = 0.38y^{-1}$). These results show the difficulty the model had with estimation of this parameter. The bootstrap summary plot shows that there are some runs which produced very low estimates of steepness as low as 0.36 and also the estimate of steepness approached the top bound (1.0) in 37% of the bootstrap runs. Steepness was estimated across the 500 bootstraps at 0.70 and the model estimate was 0.52. The

distribution of virgin recruitment level (R_VIRGIN in the Figure 3.34 plot) was quite broad indicating large uncertainty in the estimate of virgin recruitment for the Run 1 model that estimated steepness. Also, the distribution of virgin Biomass across the 500 bootstraps was broad and showed a bimodal distribution. The SEDAR 29 AP felt that the low values of steepness were not logical for this species and recommended using a steepness value of 0.8 for status determinations and projections.

Figure 3.35 presents summary results for 1,000 bootstrap runs for steepness = 0.8 (assuming $M = 0.38y^{-1}$). Fourteen runs reached solutions which resulted in large convergence values and illogical estimates of virgin biomass (Figure 3.35). The summarized bootstrap runs for steepness = 0.8 produce much more reasonable distributions of virgin biomass and virgin recruitment and the bimodality in virgin biomass is not present for the steepness = 0.8 run (Run 3 model).

The spawner-recruit relationship as estimated from SS for the Run 3 model configuration (assuming steepness = 0.8 and $M = 0.38y^{-1}$) is shown in Figure 3.36. Estimated recruit deviations varied without trend over the time series except during recent years, since 2008 (Figure 3.37). The recent years, since 2008 contain less information from which to estimate the level of recruitment as not all cohorts have fully contributed to the fishery

Predicted abundance at age is presented in Figure 3.38 for the Run 3 model configuration ($M = 0.38y^{-1}$, steepness=0.8). Predicted age-0 recruits are also presented in Table 3.5 and Figure 3.39 for the Run 3 model configuration. Recent years (2005-2010) annual recruitments have been lower than the mean recruitment over the period 1985-2010 and estimated deviations of annual recruitment are much larger in the most recent years (2009-2010) which is not surprising since the more recent years are not as data rich as not all cohorts have contributed fully at this point in time. In general however, the predicted trend for recruitment of Spanish mackerel is fairly flat over the time series. Figure 3.37 presented annual recruitment deviations.

Figure 3.40 presents SS estimated YPR and SPR for Gulf of Mexico Spanish mackerel as estimated for the Run 1 model configuration (with steepness = 0.8 and $M = 0.38y^{-1}$).

3.2.5 Stock Biomass

Predicted total biomass and spawning biomass are presented in Table 3.5 and Figure 3.41 for the Run 3 model ($M = 0.38y^{-1}$, steepness=0.8). Total biomass and spawning biomass show steady trends from the late 1880's through the early 1940's. Significant declines in biomass are evident beginning in the late 1940's and continuing through the late 1980's. Increases in total and spawning stock biomass are predicted by SS beginning in the late 1990s.

Predicted abundance at age was presented in Figure 3.38 for the Run 3 model ($M = 0.38y^{-1}$, steepness=0.8). SS predicted the mean age of Gulf of Mexico Spanish mackerel to be ~ 1.9 in the unfished state in 1886. The population mean age remained fairly stable until the early 1950's varying from ~ 1.7-1.9. After the early 1950's, predicted mean age shows a significant decline through about 1998 with several periods of oscillation beginning around mid-1970. The decline in mean age beginning in the 1950's corresponds to periods of increasing landings by the commercial gill net fleet. Also, from the mid 1970's through about 1998, predicted mean age shows large up and down swings; this period corresponds to increasing shrimp effort and

increasing landings from the gillnet and recreational fisheries. SS predicted an increase in mean age between the late 1980's through 1994 followed by a sharp decline through 1998. The increase in mean age in the late 1980's corresponds to implementation of fishery regulations for Gulf Spanish mackerel (e.g., implementation of Fishery Management Plan in 1987 and quotas, and implementation of size limits. The increase in mean age in the late 1990's corresponds to the enactment of a gill net gear ban in Florida territorial waters (1995). SS predicted mean age from 1886 to 2011 to be 1.6 and mean age in 2011 to be 1.34.

3.2.6 *Fishing Mortality*

Exploitation rate (catch in weight including discards / total biomass) was used as the proxy for annual fishing mortality rate in this assessment. Predicted annual fishing mortality rates are presented in Table 3.6 and Figure 3.42 (top panel) for the SS Run 3 model configuration (steepness = 0.8 and $M = 0.38y^{-1}$). Predicted annual fishing mortality estimates (all fleets combined) shows flat and low levels of F through the late 1940s. Between the early 1950's and continuing through the mid 1980's, steady increasing trend in F are predicted. Since the mid 1980's estimated total annual F's have continued to decline.

The trend in annual instantaneous fishing mortality (F) by fleet is variable particularly since the years of implementation of fishery regulations (1987) (Table 3.6, Figure 3.42, lower panel). In particular, annual F's for the COM_GN fleet declined significantly since the early 1990s and have been stable since about 1997. Estimated annual Fs from the shrimp fleet increased steadily through 1990 however show significant declines since around 1999; the trend in estimated F for shrimp bycatch has been stable since 2005. Annual estimated Fs for the recreational all modes fleet (combined private, charter, headboat, shore= REC) show continued increases until 1986 and predicted trends in REC F since have been variable. Estimated REC F decline sharply in 1986 through 1989, increased through 2001, and declined again between 2001 and 2004, and REC Fs have been stable since 2004. In general annual Fs for the commercial line gear fishery (COM_RR fleet) have remained stable and low throughout the time series, with one exception of an increasing trend from 1971-1978.

The more recent years of declines in estimated F since the mid to late 1980's correspond to various management actions associated with the Gulf of Mexico Spanish mackerel fisheries including: a) implementation of the Fishery Management Plan for coastal Migratory Pelagic Resources of the Gulf of Mexico (1983) under which Spanish mackerel were managed, b) implementation of quotas in 1987, c) implementation of size limits (1983) and bag limits (year 1987) for the recreational fisheries and d) enactment of a gill net gear ban in Florida territorial waters (1995). Since the implementation of TACs in 1987 there have been a number of varying annual TACS (2.5 million pounds (MP) in 1987, 5.0 MP in 1988, 5.25 MP in 1989, 8.6 MP 1991, 7.0 1996). In addition to these management actions, varying bag limits have been in place since the initial time of implementation in 1987.

3.2.7 *Evaluation of Uncertainty*

Tables 3.1 presents estimates of asymptotic standard errors for all SS estimated parameters for the Gulf of Mexico Spanish mackerel stock assessment for the Run 3 model configuration (steepness = 0.8, $M = 0.38 y^{-1}$). Table 3.2 provides a listing of all the sensitivity runs carried out for the stock assessment. Table 3.3 and Figures 3.43 - 3.45 provides results of all the sensitivity

analyses considered for the stock assessment. Table 3.3 provides a complete listing of the mean and standard deviation from the summaries of the 1,000 bootstrap runs that were made for the Run 3 model (input $M = 0.38y^{-1}$, steepness = 0.8). Detailed results are summarized in the following sections for the various sensitivity and retrospective and alternative run configurations that were conducted to further examine impacts on model results from varying assumptions on steepness, natural mortality, data exclusion, data weighting and discard release mortality.

The estimated standard errors estimated from the bootstrap analysis are generally low for most parameters estimated in the stock assessment indicating that for most of the estimated parameters model precision of parameters estimated is reasonable (Table 3.3). Figure 3.37 presents estimates of the asymptotic standard errors for annual recruitment deviations. Annual Estimated asymptotic errors for the annual recruitment deviations ranged from 0.05 to 0.11 over the time series estimated. In general, many of the standard errors associated with the selectivity parameters had standard errors larger than 0.25 (Tables 3.1, 3.3).

Because of the concerns around estimating the steepness parameter profiling of steepness and the virgin stock level (R_0), and the recruitment standard deviation (σ_R SS parameter), profiling of these parameters was carried out. Figures 3.31 – 3.32 present profiles for R_0 and steepness for the initial model configuration (Run 1, steepness estimated and $M = 0.37y^{-1}$). Figure 3.33 presents profiling of the recruitment standard deviation parameter (σ_R). The results did not indicate any major deviance from the input value specified for this parameter (0.7) thus this model parameter value was not further adjusted.

Figures 3.34 and 3.35 present the results of the bootstrap runs that were made for two models (Run 1 model estimated steepness and assumed $M = 0.38y^{-1}$, Run 3 model assumed a fixed value of steepness = 0.8 and $M = 0.38y^{-1}$). The two models were identical in all other aspects of their configuration. The results show that SS had difficulties in estimating steepness for the Gulf of Mexico Spanish mackerel stock. The model estimated steepness was 0.5; the bootstrap summary estimated a range of steepness from about 0.4 to 1.0 hitting the upper bound on about 37% of the bootstrap runs. The SEDAR 28 AP felt that a steepness of around 0.5 was not reasonable for this species. The bootstrap summary results also show bimodality in the estimation of virgin biomass. The bootstrap summary results for the Run 3 model, assuming steepness = 0.8 and the same level of M as for Run 1 ($0.38y^{-1}$) are shown in Figure 3.35.

Figure 3.43 and Table 3.7 presents results of sensitivity analyses for the value of natural mortality input into the Lorenzen function. All comparisons were against the SS Run 3 model configuration which assumed steepness = 0.8. Key model output quantities were examined including: 1) total biomass (virgin, current biomass) 2) spawning biomass (virgin, current), and recruitment (virgin, current). The trend results suggested that the model was insensitive to input assumptions regarding the level of natural mortality at age. The exception however, is for the M_{LO} scenario ($M = 0.27$) which results in higher levels of virgin biomass. Estimated virgin total and virgin recruitment for the scenarios assuming the low value of the range suggested a very different level of virgin biomass than either for the Run 3 model input value (0.38 into the Lorenzen function) or for the model assuming the high end of the range (0.49) input into the Lorenzen function. Neither varying the input level of M from the initial base level (0.38) nor

changing the scaling reference age (REF Age) from age 4 to age 3 altered the SS estimated current stock status from that of the Run 3 model relative to SPR30% (Table 3).

Figure 3.44 presents results of impacts on key quantities output from SS from varying steepness in response to concern over the model's ability to estimate this parameter. As shown earlier, SS had difficulties estimating steepness for this stock assessment. For the sensitivity examination, steepness was fixed at 3 levels (0.7, 0.8, and 0.9 assuming M from the Run 3 model = $0.38y^{-1}$). Results of the sensitivity analyses to the steepness parameter are summarized in Table 3.7 and Figure 3.43. For sensitivity runs that considered the alternative steepness scenarios (0.7, 0.8, 0.9) the level of M assumed was that of the initial model run (Run 1, Table 3.2, $M = 0.38y^{-1}$) as input into the Lorenzen M at-age function. Changes in steepness from 0.8 to 0.7 or 0.9 did not impact the SS estimated current stock status from that of the Run 3 model relative to SPR30% (Table 3.7).

Table 3.7 and Figure 3.45 present results from evaluating the impact of data component through excluding indices of abundance and from alternative assumptions on the level of discard mortality assumed for the recreational line gear fishery and the recreational all modes (REC) fleet. In general when either reweighting of indices or the length or age composition data was incorporated into the model little change in resulting estimates of biomass or recruitment of SPR was predicted. Exclusion of individual indices of abundance (MRFS, FWC Trip Ticket, SEAMAP Survey) from the model also did not have alter the perception of the current stock status from the Run 3 model relative to SPR30%, as neither did increasing the level of discard mortality from 10% to 20% for the commercial line gear and from 20% to 40% for the REC fleet (Table 3.7).

Figure 3.46 presents results of retrospective analyses for 2006-2011. Three model output quantities shown in the plots are: 1) spawning biomass, 2) recruitment, and 3) spawning potential ratio (SPR). There was some variability in model estimate of the terminal year of data for these key parameters as years of data were dropped from the assessment but no strong systematic bias was either discernible nor did SS predict any large divergence in the estimates for any of the three parameters observed. Eliminating sequential years of data did not alter the SS estimated current stock status from the Run 3 model relative to SPR30%.

As described earlier, the Fishery Simulator GUI Tool previously described in Section 3.1.6 (Methods) and 3.2.7 (Results, Uncertainty) was used to further explore uncertainty in the SS model assumptions. For the initial model run (Run 1, $M = 0.38y^{-1}$) and for the Run 3 model (steepness = 0.8) the parametric bootstrap procedure was carried out. Due to time constraints 500 bootstraps were made for Run 1 while 1,000 bootstraps were made for Run 3. Figures 3.34 and 3.35 present the results for various key quantities estimated by SS.

3.2.8 Benchmarks/Reference points

Benchmarks for the SPR30% reference point are presented in Table 3.8. The SPR30% reference point was used as a proxy for FMSY as recommended in the SEDAR 28 Gulf Spanish Mackerel TORs. The maximum fishing mortality threshold (MFMT) was the fishing mortality rate that produced a SPR of 30%, $F_{SPR30\%}$. The minimum stock size threshold (MSST) was calculated as $(1-M) * SSB_{SPR30\%}$. Figure 3.47 presents a phase plot of the SPR30% reference point for the

stock assessment for the Run 3 model and each alternative model examined corresponding to varying assumptions of natural mortality at age and steepness. Table 3.2 presented details of each of the varying model configurations examined in the Spanish mackerel stock assessment. Figures 3.48 and 3.49 present estimates of reference points for status determinations of the overfished and overfishing states (SSB_REF, F_REF) from the bootstrap runs for the Run 3 model (steepness = 0.8, $M = 0.38y^{-1}$). These results in total suggest that the Gulf of Mexico Spanish mackerel stock is not overfished under any of the model scenarios examined and the stock is not undergoing overfishing under any of the scenarios examined.

3.2.9 Projections

According to the SEDAR 28 Terms of Reference evaluations were made according to these MSRA criteria:

A) If stock is overfished:

F=0, F_{Current}, F_{MSY}, F_{OY}

F=F_{Rebuild} (max that permits rebuild in allowed time)

B) If stock is undergoing overfishing:

F= F_{Current}, F_{MSY}, F_{OY}

C) If stock is neither overfished nor undergoing overfishing:

F= F_{Current}, F_{MSY}, F_{OY}

3.2.9.1 Deterministic

Projection results for forecasted retained catches (mtons) for 2013-2022 are presented in Table 3.9 corresponding to varying to the recommended level of steepness (0.8) and one alternative level (0.8) is provided. Deterministic projections are also presented in Figures 3.50 - 3.52 for the Run 3 model configuration requested by the SEDAR 28 AP. Metrics included are spawning stock biomass (SSB), SSB and F relative to SSB_{SPR30%} and F_{SPR30%}. Projections are presented for the requested model (Run 3, steepness =0.8) and also one alternative scenario of steepness (0.8). Both runs assumed $M = 0.38y^{-1}$ input into the Lorenzen function.

3.2.9.2 Stochastic

Stochastic projections were made using the “Fishery Simulator GUI tool” previously described in Section 3.1.5.

3.3 Discussion and Recommendations

Gulf of Mexico Spanish mackerel has a lengthy history of exploitation dating to the early late 1800s. Directed commercial gillnet fisheries have operated on this resource for well over a hundred years and recreational fisheries more than 65 years. However detailed catch statistics on size and individual weight of removals only exists for the recent time period, since the mid to late 1980’s. In addition, management measures including size limits (30.5 cm FL beginning 1983) and quotas (beginning in 1987) have resulted in discards for both fisheries.

Gulf of Mexico Spanish mackerel are not a directed target of the commercial line gear fisheries (COM_RR fleet) therefore extensive samples for length and/or age-length key characterizations are not available. Efforts should be made to obtain samples from this fleet in order to better inform future stock assessment evaluations as relates length composition and discard levels. In particular, a review of the sampling protocols for length and age – length collections is needed to better characterize the catch length and age at length compositions. In addition, attention is needed to evaluate optimal spatial sampling factors in relation to overall removals throughout the year and region.

The magnitude of discards from the recreational fleet is high and very variable over the time series for which estimates exist from the MRFSS/MRIP survey (1981 forward). Hind casting was used to develop estimates of recreational removals and discards prior to 1981 however information on uncertainty in the hind casting was not incorporated into the stock assessment. Future assessments should consider uncertainty around hind casted data.

The indices of abundance are generally flat but variable yielding little information with which to characterize abundance. In addition the additional observations of length and conditional age at length are more recent thus providing only limited history of data with which to estimate the spawner- recruit relationship during the early part of the time period. The quantity and quality of length and age composition information directly impacts the ability to estimate recruitment.

There was difficulties with estimating steepness thus the AW felt that providing benchmarks at several levels and making projections using several levels of steepness was needed.

3.4 Acknowledgements

Contributions by numerous researchers lead to the completion of this stock assessment. Significant assistance to learning the SS model was provided by Richard Methot, Ian Taylor Michael Schirripa, Brian Linton. Jeff Isely and Jakob Tetzlaff were part of the SEDAR 28 analyst team and provided significant input along the way. Additional assistance with carrying out the bootstrap analyses was provided by Hua-hui Lee and Ian Taylor. The contents of the Assessment report were improved by input from Clay Porch, Shannon Cass-Calay, and Robert Muller

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3.6 Tables

Table 3.1. Listing of parameters from the SS model used for the Gulf of Mexico Spanish mackerel stock assessment. The list includes predicted parameter values and their associated standard errors from SS Base Model Run, initial parameter values, minimum and maximum values a parameter could take, and prior densities assigned to parameters. Parameters designated as fixed were held at their initial values. Table represents model selected by the SEDAR 28 Assessment Panel as the final base model (Base natural Mortality level = of 0.38 y^{-1} input into Lorenzen function and Beverton and Holt steepness parameter value = 0.8.

| Label | Parameter | | | | | | | | | | |
|----------------------|------------|---------|----------|-------|---------|----------|------|----|-----------|--------|----------------------------------|
| | Predicted | | | | | Prior | | | | Status | Active / Not Active Parameter |
| Value | Parm_StDev | Initial | Min | Max | PR_type | Prior | PrSD | | | | |
| L_at_Amin_Fem_GP_1 | 18.7935 | 0.4711 | 10 | 2 | 30 | No_prior | -- | -- | Estimated | A | Size at age 0.5 |
| L_at_Amax_Fem_GP_1 | 60.8046 | 0.8493 | 56 | 40 | 90 | No_prior | -- | -- | Estimated | A | von Bertalanffy Linfintiy |
| VonBert_K_Fem_GP_1 | 0.3008 | 0.0136 | 0.61 | 0.1 | 1.2 | No_prior | -- | -- | Estimated | A | von Bertalanffy K |
| CV_young_Fem_GP_1 | 7.1038 | 0.2140 | 10 | 0.001 | 20 | No_prior | -- | -- | Estimated | A | Young growth CV |
| CV_old_Fem_GP_1 | 9.1385 | 0.2794 | 10 | 0.001 | 45 | No_prior | -- | -- | Estimated | A | Old growth CV |
| Wtlen_1_Fem | 0.0000 | -- | 1.50E-05 | 0.1 | 1 | No_prior | -- | -- | Fixed | NA | Weight length a parameter |
| Wtlen_2_Fem | 2.8617 | -- | 2.8617 | 2 | 4 | No_prior | -- | -- | Fixed | NA | weight length b parameter |
| Mat50%_Fem | 31.0000 | -- | 31 | 25 | 100 | No_prior | -- | -- | Fixed | NA | Maturity inflection point |
| Mat_slope_Fem | -0.0650 | -- | -0.065 | -1 | 0 | No_prior | -- | -- | Fixed | NA | Maturity slope |
| Eggs/kg_inter_Fem | 1.0000 | -- | 1 | -3 | 3 | No_prior | -- | -- | Fixed | NA | Fecundity scalar |
| Eggs/kg_slope_wt_Fem | 0.0000 | -- | 0 | -3 | 3 | No_prior | -- | -- | Fixed | NA | Fecundity slope |
| SR_LN(R0) | 10.7684 | 0.0200 | 10 | 1 | 20 | No_prior | -- | -- | Estimated | A | Virgin recruit |
| SR_BH_steep | 0.8000 | -- | 0.8 | 0.2 | 1 | No_prior | -- | -- | Estimated | A | Steepness |
| SR_sigmaR | 0.7000 | -- | 0.7 | 0 | 2 | No_prior | -- | -- | Fixed | NA | Stock recruit standard deviation |
| SR_envlink | 0.1000 | -- | 0.1 | -5 | 5 | No_prior | -- | -- | Fixed | NA | Stock recruit environmental link |

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|-------------------|---------|--------|---|----|---|----------|---|---|-----------|----|-------------------------------|
| SR_R1_offset | 0.0000 | _ | 0 | -5 | 5 | No_prior | _ | _ | Fixed | NA | Stock recruit offset |
| SR_autocorr | 0.0000 | _ | 0 | 0 | 0 | No_prior | _ | _ | Fixed | NA | Stock recruit autocorrelation |
| Main_RecrDev_1985 | 0.3958 | 0.0866 | _ | _ | _ | dev | _ | _ | Estimated | A | 1985 recruit deviation |
| Main_RecrDev_1986 | -0.0918 | 0.0774 | _ | _ | _ | dev | _ | _ | Estimated | A | 1986 recruit deviation |
| Main_RecrDev_1987 | -0.2902 | 0.0705 | _ | _ | _ | dev | _ | _ | Estimated | A | 1987 recruit deviation |
| Main_RecrDev_1988 | -0.1137 | 0.0622 | _ | _ | _ | dev | _ | _ | Estimated | A | 1988 recruit deviation |
| Main_RecrDev_1989 | 0.3761 | 0.0573 | _ | _ | _ | dev | _ | _ | Estimated | A | 1989 recruit deviation |
| Main_RecrDev_1990 | 0.3481 | 0.0629 | _ | _ | _ | dev | _ | _ | Estimated | A | 1990 recruit deviation |
| Main_RecrDev_1991 | 0.4491 | 0.0576 | _ | _ | _ | dev | _ | _ | Estimated | A | 1991 recruit deviation |
| Main_RecrDev_1992 | -0.4735 | 0.0808 | _ | _ | _ | dev | _ | _ | Estimated | A | 1992 recruit deviation |
| Main_RecrDev_1993 | -0.1720 | 0.0738 | _ | _ | _ | dev | _ | _ | Estimated | A | 1993 recruit deviation |
| Main_RecrDev_1994 | -0.8238 | 0.0953 | _ | _ | _ | dev | _ | _ | Estimated | A | 1994 recruit deviation |
| Main_RecrDev_1995 | -0.0042 | 0.0764 | _ | _ | _ | dev | _ | _ | Estimated | A | 1995 recruit deviation |
| Main_RecrDev_1996 | 0.0506 | 0.0783 | _ | _ | _ | dev | _ | _ | Estimated | A | 1996 recruit deviation |
| Main_RecrDev_1997 | -0.1920 | 0.0792 | _ | _ | _ | dev | _ | _ | Estimated | A | 1997 recruit deviation |
| Main_RecrDev_1998 | 0.4302 | 0.0640 | _ | _ | _ | dev | _ | _ | Estimated | A | 1998 recruit deviation |
| Main_RecrDev_1999 | -0.0312 | 0.0734 | _ | _ | _ | dev | _ | _ | Estimated | A | 1999 recruit deviation |
| Main_RecrDev_2000 | 0.1050 | 0.0637 | _ | _ | _ | dev | _ | _ | Estimated | A | 2000 recruit deviation |
| Main_RecrDev_2001 | 0.0482 | 0.0614 | _ | _ | _ | dev | _ | _ | Estimated | A | 2001 recruit deviation |
| Main_RecrDev_2002 | -0.0556 | 0.0625 | _ | _ | _ | dev | _ | _ | Estimated | A | 2002 recruit deviation |
| Main_RecrDev_2003 | 0.1911 | 0.0594 | _ | _ | _ | dev | _ | _ | Estimated | A | 2003 recruit deviation |
| Main_RecrDev_2004 | 0.1043 | 0.0623 | _ | _ | _ | dev | _ | _ | Estimated | A | 2004 recruit deviation |
| Main_RecrDev_2005 | 0.0194 | 0.0623 | _ | _ | _ | dev | _ | _ | Estimated | A | 2005 recruit deviation |
| Main_RecrDev_2006 | -0.3295 | 0.0708 | _ | _ | _ | dev | _ | _ | Estimated | A | 2006 recruit deviation |
| Main_RecrDev_2007 | 0.2449 | 0.0652 | _ | _ | _ | dev | _ | _ | Estimated | A | 2007 recruit deviation |
| Main_RecrDev_2008 | -0.0129 | 0.0813 | _ | _ | _ | dev | _ | _ | Estimated | A | 2008 recruit deviation |
| Main_RecrDev_2009 | -0.2906 | 0.1062 | _ | _ | _ | dev | _ | _ | Estimated | A | 2009 recruit deviation |
| Main_RecrDev_2010 | 0.4441 | 0.1121 | _ | _ | _ | dev | _ | _ | Estimated | A | 2010 recruit deviation |

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|-------------------------|---------|--------|---|---|---|----------|---|---|-----------|----|--------------------------|
| Main_RecrDev_2011 | -0.3260 | 0.2249 | - | - | - | dev | - | - | Estimated | A | 2011 recruit deviation |
| InitF_1Com_GN_1 | 0.0000 | - | 0 | 0 | 1 | No_prior | - | - | Fixed | NA | COM_GN initial F |
| InitF_2Com_RR_2 | 0.0000 | - | 0 | 0 | 1 | No_prior | - | - | Fixed | NA | COM_RR initial F |
| InitF_3REC_3 | 0.0000 | - | 0 | 0 | 1 | No_prior | - | - | Fixed | NA | REC initial F |
| InitF_4Shrimp_Bycatch_4 | 0.0000 | - | 0 | 0 | 1 | No_prior | - | - | Fixed | NA | Shrimp Bycatch initial F |
| F_fleet_1_YR_1886_s_1 | 0.0008 | 0.0001 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1886 |
| F_fleet_1_YR_1887_s_1 | 0.0016 | 0.0001 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1887 |
| F_fleet_1_YR_1888_s_1 | 0.0032 | 0.0001 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1888 |
| F_fleet_1_YR_1889_s_1 | 0.0062 | 0.0002 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1889 |
| F_fleet_1_YR_1890_s_1 | 0.0072 | 0.0002 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1890 |
| F_fleet_1_YR_1891_s_1 | 0.0076 | 0.0003 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1891 |
| F_fleet_1_YR_1892_s_1 | 0.0076 | 0.0003 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1892 |
| F_fleet_1_YR_1893_s_1 | 0.0076 | 0.0003 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1893 |
| F_fleet_1_YR_1894_s_1 | 0.0076 | 0.0003 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1894 |
| F_fleet_1_YR_1895_s_1 | 0.0076 | 0.0003 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1895 |
| F_fleet_1_YR_1896_s_1 | 0.0076 | 0.0003 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1896 |
| F_fleet_1_YR_1897_s_1 | 0.0079 | 0.0003 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1897 |
| F_fleet_1_YR_1898_s_1 | 0.0103 | 0.0004 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1898 |
| F_fleet_1_YR_1899_s_1 | 0.0103 | 0.0004 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1899 |
| F_fleet_1_YR_1900_s_1 | 0.0103 | 0.0004 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1900 |
| F_fleet_1_YR_1901_s_1 | 0.0104 | 0.0004 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1901 |
| F_fleet_1_YR_1902_s_1 | 0.0169 | 0.0006 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1902 |
| F_fleet_1_YR_1903_s_1 | 0.0164 | 0.0006 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1903 |
| F_fleet_1_YR_1904_s_1 | 0.0165 | 0.0006 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1904 |
| F_fleet_1_YR_1905_s_1 | 0.0166 | 0.0006 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1905 |
| F_fleet_1_YR_1906_s_1 | 0.0166 | 0.0006 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1906 |
| F_fleet_1_YR_1907_s_1 | 0.0166 | 0.0006 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1907 |
| F_fleet_1_YR_1908_s_1 | 0.0161 | 0.0006 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1908 |

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|-----------------------|--------|--------|---|---|---|---|---|---|-----------|---|---------------|
| F_fleet_1_YR_1909_s_1 | 0.0170 | 0.0006 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1909 |
| F_fleet_1_YR_1910_s_1 | 0.0198 | 0.0007 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1910 |
| F_fleet_1_YR_1911_s_1 | 0.0226 | 0.0008 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1911 |
| F_fleet_1_YR_1912_s_1 | 0.0255 | 0.0009 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1912 |
| F_fleet_1_YR_1913_s_1 | 0.0285 | 0.0010 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1913 |
| F_fleet_1_YR_1914_s_1 | 0.0315 | 0.0011 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1914 |
| F_fleet_1_YR_1915_s_1 | 0.0346 | 0.0012 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1915 |
| F_fleet_1_YR_1916_s_1 | 0.0377 | 0.0014 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1916 |
| F_fleet_1_YR_1917_s_1 | 0.0397 | 0.0014 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1917 |
| F_fleet_1_YR_1918_s_1 | 0.0406 | 0.0015 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1918 |
| F_fleet_1_YR_1919_s_1 | 0.0416 | 0.0015 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1919 |
| F_fleet_1_YR_1920_s_1 | 0.0433 | 0.0016 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1920 |
| F_fleet_1_YR_1921_s_1 | 0.0450 | 0.0016 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1921 |
| F_fleet_1_YR_1922_s_1 | 0.0453 | 0.0017 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1922 |
| F_fleet_1_YR_1923_s_1 | 0.0458 | 0.0017 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1923 |
| F_fleet_1_YR_1924_s_1 | 0.0488 | 0.0018 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1924 |
| F_fleet_1_YR_1925_s_1 | 0.0522 | 0.0019 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1925 |
| F_fleet_1_YR_1926_s_1 | 0.0557 | 0.0021 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1926 |
| F_fleet_1_YR_1927_s_1 | 0.0580 | 0.0022 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1927 |
| F_fleet_1_YR_1928_s_1 | 0.0402 | 0.0015 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1928 |
| F_fleet_1_YR_1929_s_1 | 0.0432 | 0.0016 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1929 |
| F_fleet_1_YR_1930_s_1 | 0.0507 | 0.0019 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1930 |
| F_fleet_1_YR_1931_s_1 | 0.0286 | 0.0011 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1931 |
| F_fleet_1_YR_1932_s_1 | 0.0349 | 0.0013 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1932 |
| F_fleet_1_YR_1933_s_1 | 0.0380 | 0.0014 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1933 |
| F_fleet_1_YR_1934_s_1 | 0.0418 | 0.0015 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1934 |
| F_fleet_1_YR_1935_s_1 | 0.0518 | 0.0019 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1935 |
| F_fleet_1_YR_1936_s_1 | 0.0632 | 0.0023 | - | 0 | 8 | F | - | - | Estimated | A | F_COM_GN 1936 |

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|-----------------------|--------|--------|---|---|---|---|---|---|-----------|---|---------------|
| F_fleet_1_YR_1937_s_1 | 0.0482 | 0.0018 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1937 |
| F_fleet_1_YR_1938_s_1 | 0.0498 | 0.0019 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1938 |
| F_fleet_1_YR_1939_s_1 | 0.0521 | 0.0019 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1939 |
| F_fleet_1_YR_1940_s_1 | 0.0448 | 0.0017 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1940 |
| F_fleet_1_YR_1941_s_1 | 0.0010 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1941 |
| F_fleet_1_YR_1942_s_1 | 0.0010 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1942 |
| F_fleet_1_YR_1943_s_1 | 0.0010 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1943 |
| F_fleet_1_YR_1944_s_1 | 0.0009 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1944 |
| F_fleet_1_YR_1945_s_1 | 0.0010 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1945 |
| F_fleet_1_YR_1946_s_1 | 0.0009 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1946 |
| F_fleet_1_YR_1947_s_1 | 0.0009 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1947 |
| F_fleet_1_YR_1948_s_1 | 0.0096 | 0.0003 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1948 |
| F_fleet_1_YR_1949_s_1 | 0.0421 | 0.0015 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1949 |
| F_fleet_1_YR_1950_s_1 | 0.0290 | 0.0010 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1950 |
| F_fleet_1_YR_1951_s_1 | 0.0762 | 0.0027 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1951 |
| F_fleet_1_YR_1952_s_1 | 0.0556 | 0.0021 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1952 |
| F_fleet_1_YR_1953_s_1 | 0.0379 | 0.0014 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1953 |
| F_fleet_1_YR_1954_s_1 | 0.0375 | 0.0014 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1954 |
| F_fleet_1_YR_1955_s_1 | 0.0217 | 0.0008 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1955 |
| F_fleet_1_YR_1956_s_1 | 0.0402 | 0.0016 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1956 |
| F_fleet_1_YR_1957_s_1 | 0.0530 | 0.0021 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1957 |
| F_fleet_1_YR_1958_s_1 | 0.0598 | 0.0025 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1958 |
| F_fleet_1_YR_1959_s_1 | 0.0783 | 0.0035 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1959 |
| F_fleet_1_YR_1960_s_1 | 0.0991 | 0.0047 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1960 |
| F_fleet_1_YR_1961_s_1 | 0.0771 | 0.0038 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1961 |
| F_fleet_1_YR_1962_s_1 | 0.1454 | 0.0074 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1962 |
| F_fleet_1_YR_1963_s_1 | 0.1239 | 0.0066 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1963 |
| F_fleet_1_YR_1964_s_1 | 0.0925 | 0.0051 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1964 |

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|-----------------------|--------|--------|---|---|---|---|---|---|-----------|---|---------------|
| F_fleet_1_YR_1965_s_1 | 0.1180 | 0.0068 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1965 |
| F_fleet_1_YR_1966_s_1 | 0.1787 | 0.0105 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1966 |
| F_fleet_1_YR_1967_s_1 | 0.1556 | 0.0093 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1967 |
| F_fleet_1_YR_1968_s_1 | 0.1970 | 0.0119 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1968 |
| F_fleet_1_YR_1969_s_1 | 0.2441 | 0.0153 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1969 |
| F_fleet_1_YR_1970_s_1 | 0.2558 | 0.0167 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1970 |
| F_fleet_1_YR_1971_s_1 | 0.2442 | 0.0163 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1971 |
| F_fleet_1_YR_1972_s_1 | 0.2063 | 0.0139 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1972 |
| F_fleet_1_YR_1973_s_1 | 0.2120 | 0.0145 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1973 |
| F_fleet_1_YR_1974_s_1 | 0.2812 | 0.0201 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1974 |
| F_fleet_1_YR_1975_s_1 | 0.1875 | 0.0138 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1975 |
| F_fleet_1_YR_1976_s_1 | 0.2777 | 0.0207 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1976 |
| F_fleet_1_YR_1977_s_1 | 0.0803 | 0.0059 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1977 |
| F_fleet_1_YR_1978_s_1 | 0.0435 | 0.0031 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1978 |
| F_fleet_1_YR_1979_s_1 | 0.0798 | 0.0055 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1979 |
| F_fleet_1_YR_1980_s_1 | 0.0713 | 0.0049 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1980 |
| F_fleet_1_YR_1981_s_1 | 0.1406 | 0.0096 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1981 |
| F_fleet_1_YR_1982_s_1 | 0.1455 | 0.0107 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1982 |
| F_fleet_1_YR_1983_s_1 | 0.1023 | 0.0078 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1983 |
| F_fleet_1_YR_1984_s_1 | 0.1713 | 0.0130 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1984 |
| F_fleet_1_YR_1985_s_1 | 0.0971 | 0.0070 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1985 |
| F_fleet_1_YR_1986_s_1 | 0.1389 | 0.0095 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1986 |
| F_fleet_1_YR_1987_s_1 | 0.1502 | 0.0102 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1987 |
| F_fleet_1_YR_1988_s_1 | 0.1389 | 0.0091 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1988 |
| F_fleet_1_YR_1989_s_1 | 0.1968 | 0.0130 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1989 |
| F_fleet_1_YR_1990_s_1 | 0.1636 | 0.0111 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1990 |
| F_fleet_1_YR_1991_s_1 | 0.1944 | 0.0134 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1991 |
| F_fleet_1_YR_1992_s_1 | 0.2054 | 0.0147 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN 1992 |

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|-----------------------|--------|--------|---|---|---|---|---|---|-----------|---|---------------|
| F_fleet_1_YR_1993_s_1 | 0.1441 | 0.0106 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_1993 |
| F_fleet_1_YR_1994_s_1 | 0.1692 | 0.0131 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_1994 |
| F_fleet_1_YR_1995_s_1 | 0.1031 | 0.0085 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_1995 |
| F_fleet_1_YR_1996_s_1 | 0.0272 | 0.0023 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_1996 |
| F_fleet_1_YR_1997_s_1 | 0.0336 | 0.0027 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_1997 |
| F_fleet_1_YR_1998_s_1 | 0.0255 | 0.0020 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_1998 |
| F_fleet_1_YR_1999_s_1 | 0.0462 | 0.0035 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_1999 |
| F_fleet_1_YR_2000_s_1 | 0.0455 | 0.0034 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_2000 |
| F_fleet_1_YR_2001_s_1 | 0.0564 | 0.0042 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_2001 |
| F_fleet_1_YR_2002_s_1 | 0.0459 | 0.0035 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_2002 |
| F_fleet_1_YR_2003_s_1 | 0.0667 | 0.0051 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_2003 |
| F_fleet_1_YR_2004_s_1 | 0.0460 | 0.0037 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_2004 |
| F_fleet_1_YR_2005_s_1 | 0.0565 | 0.0046 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_2005 |
| F_fleet_1_YR_2006_s_1 | 0.0432 | 0.0032 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_2006 |
| F_fleet_1_YR_2007_s_1 | 0.0290 | 0.0023 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_2007 |
| F_fleet_1_YR_2008_s_1 | 0.0345 | 0.0029 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_2008 |
| F_fleet_1_YR_2009_s_1 | 0.0499 | 0.0044 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_2009 |
| F_fleet_1_YR_2010_s_1 | 0.0316 | 0.0030 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_2010 |
| F_fleet_1_YR_2011_s_1 | 0.0309 | 0.0031 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_GN_2011 |
| F_fleet_2_YR_1886_s_1 | 0.0001 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1886 |
| F_fleet_2_YR_1887_s_1 | 0.0001 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1887 |
| F_fleet_2_YR_1888_s_1 | 0.0002 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1888 |
| F_fleet_2_YR_1889_s_1 | 0.0004 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1889 |
| F_fleet_2_YR_1890_s_1 | 0.0005 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1890 |
| F_fleet_2_YR_1891_s_1 | 0.0001 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1891 |
| F_fleet_2_YR_1892_s_1 | 0.0001 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1892 |
| F_fleet_2_YR_1893_s_1 | 0.0001 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1893 |
| F_fleet_2_YR_1894_s_1 | 0.0001 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1894 |

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|-----------------------|--------|--------|---|---|---|---|---|---|-----------|---|---------------|
| F_fleet_2_YR_1895_s_1 | 0.0001 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1895 |
| F_fleet_2_YR_1896_s_1 | 0.0001 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1896 |
| F_fleet_2_YR_1897_s_1 | 0.0005 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1897 |
| F_fleet_2_YR_1898_s_1 | 0.0007 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1898 |
| F_fleet_2_YR_1899_s_1 | 0.0007 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1899 |
| F_fleet_2_YR_1900_s_1 | 0.0007 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1900 |
| F_fleet_2_YR_1901_s_1 | 0.0007 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1901 |
| F_fleet_2_YR_1902_s_1 | 0.0012 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1902 |
| F_fleet_2_YR_1903_s_1 | 0.0011 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1903 |
| F_fleet_2_YR_1904_s_1 | 0.0011 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1904 |
| F_fleet_2_YR_1905_s_1 | 0.0011 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1905 |
| F_fleet_2_YR_1906_s_1 | 0.0011 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1906 |
| F_fleet_2_YR_1907_s_1 | 0.0011 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1907 |
| F_fleet_2_YR_1908_s_1 | 0.0011 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1908 |
| F_fleet_2_YR_1909_s_1 | 0.0013 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1909 |
| F_fleet_2_YR_1910_s_1 | 0.0015 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1910 |
| F_fleet_2_YR_1911_s_1 | 0.0016 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1911 |
| F_fleet_2_YR_1912_s_1 | 0.0018 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1912 |
| F_fleet_2_YR_1913_s_1 | 0.0020 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1913 |
| F_fleet_2_YR_1914_s_1 | 0.0021 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1914 |
| F_fleet_2_YR_1915_s_1 | 0.0023 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1915 |
| F_fleet_2_YR_1916_s_1 | 0.0025 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1916 |
| F_fleet_2_YR_1917_s_1 | 0.0027 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1917 |
| F_fleet_2_YR_1918_s_1 | 0.0028 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1918 |
| F_fleet_2_YR_1919_s_1 | 0.0029 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1919 |
| F_fleet_2_YR_1920_s_1 | 0.0029 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1920 |
| F_fleet_2_YR_1921_s_1 | 0.0031 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1921 |
| F_fleet_2_YR_1922_s_1 | 0.0031 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1922 |

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|-----------------------|--------|--------|---|---|---|---|---|---|-----------|---|---------------|
| F_fleet_2_YR_1923_s_1 | 0.0032 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1923 |
| F_fleet_2_YR_1924_s_1 | 0.0033 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1924 |
| F_fleet_2_YR_1925_s_1 | 0.0035 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1925 |
| F_fleet_2_YR_1926_s_1 | 0.0037 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1926 |
| F_fleet_2_YR_1927_s_1 | 0.0041 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1927 |
| F_fleet_2_YR_1928_s_1 | 0.0028 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1928 |
| F_fleet_2_YR_1929_s_1 | 0.0030 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1929 |
| F_fleet_2_YR_1930_s_1 | 0.0035 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1930 |
| F_fleet_2_YR_1931_s_1 | 0.0020 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1931 |
| F_fleet_2_YR_1932_s_1 | 0.0024 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1932 |
| F_fleet_2_YR_1933_s_1 | 0.0026 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1933 |
| F_fleet_2_YR_1934_s_1 | 0.0029 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1934 |
| F_fleet_2_YR_1935_s_1 | 0.0035 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1935 |
| F_fleet_2_YR_1936_s_1 | 0.0044 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1936 |
| F_fleet_2_YR_1937_s_1 | 0.0034 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1937 |
| F_fleet_2_YR_1938_s_1 | 0.0035 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1938 |
| F_fleet_2_YR_1939_s_1 | 0.0036 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1939 |
| F_fleet_2_YR_1940_s_1 | 0.0031 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1940 |
| F_fleet_2_YR_1941_s_1 | 0.0007 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1941 |
| F_fleet_2_YR_1942_s_1 | 0.0007 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1942 |
| F_fleet_2_YR_1943_s_1 | 0.0007 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1943 |
| F_fleet_2_YR_1944_s_1 | 0.0007 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1944 |
| F_fleet_2_YR_1945_s_1 | 0.0001 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1945 |
| F_fleet_2_YR_1946_s_1 | 0.0006 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1946 |
| F_fleet_2_YR_1947_s_1 | 0.0006 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1947 |
| F_fleet_2_YR_1948_s_1 | 0.0007 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1948 |
| F_fleet_2_YR_1949_s_1 | 0.0029 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1949 |
| F_fleet_2_YR_1950_s_1 | 0.0020 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1950 |

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|-----------------------|--------|--------|---|---|---|---|---|---|-----------|---|---------------|
| F_fleet_2_YR_1951_s_1 | 0.0053 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1951 |
| F_fleet_2_YR_1952_s_1 | 0.0039 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1952 |
| F_fleet_2_YR_1953_s_1 | 0.0026 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1953 |
| F_fleet_2_YR_1954_s_1 | 0.0026 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1954 |
| F_fleet_2_YR_1955_s_1 | 0.0015 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1955 |
| F_fleet_2_YR_1956_s_1 | 0.0028 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1956 |
| F_fleet_2_YR_1957_s_1 | 0.0037 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1957 |
| F_fleet_2_YR_1958_s_1 | 0.0042 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1958 |
| F_fleet_2_YR_1959_s_1 | 0.0055 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1959 |
| F_fleet_2_YR_1960_s_1 | 0.0070 | 0.0003 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1960 |
| F_fleet_2_YR_1961_s_1 | 0.0055 | 0.0003 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1961 |
| F_fleet_2_YR_1962_s_1 | 0.0035 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1962 |
| F_fleet_2_YR_1963_s_1 | 0.0022 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1963 |
| F_fleet_2_YR_1964_s_1 | 0.0050 | 0.0003 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1964 |
| F_fleet_2_YR_1965_s_1 | 0.0087 | 0.0005 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1965 |
| F_fleet_2_YR_1966_s_1 | 0.0106 | 0.0006 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1966 |
| F_fleet_2_YR_1967_s_1 | 0.0093 | 0.0005 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1967 |
| F_fleet_2_YR_1968_s_1 | 0.0087 | 0.0005 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1968 |
| F_fleet_2_YR_1969_s_1 | 0.0079 | 0.0005 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1969 |
| F_fleet_2_YR_1970_s_1 | 0.0103 | 0.0007 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1970 |
| F_fleet_2_YR_1971_s_1 | 0.0111 | 0.0007 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1971 |
| F_fleet_2_YR_1972_s_1 | 0.0187 | 0.0012 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1972 |
| F_fleet_2_YR_1973_s_1 | 0.0058 | 0.0004 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1973 |
| F_fleet_2_YR_1974_s_1 | 0.0320 | 0.0022 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1974 |
| F_fleet_2_YR_1975_s_1 | 0.0377 | 0.0027 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1975 |
| F_fleet_2_YR_1976_s_1 | 0.0409 | 0.0030 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1976 |
| F_fleet_2_YR_1977_s_1 | 0.0319 | 0.0023 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1977 |
| F_fleet_2_YR_1978_s_1 | 0.0283 | 0.0020 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1978 |

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|-----------------------|--------|--------|---|---|---|---|---|---|-----------|---|---------------|
| F_fleet_2_YR_1979_s_1 | 0.0033 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1979 |
| F_fleet_2_YR_1980_s_1 | 0.0047 | 0.0003 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1980 |
| F_fleet_2_YR_1981_s_1 | 0.0097 | 0.0006 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1981 |
| F_fleet_2_YR_1982_s_1 | 0.0098 | 0.0007 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1982 |
| F_fleet_2_YR_1983_s_1 | 0.0089 | 0.0007 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1983 |
| F_fleet_2_YR_1984_s_1 | 0.0032 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1984 |
| F_fleet_2_YR_1985_s_1 | 0.0038 | 0.0003 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1985 |
| F_fleet_2_YR_1986_s_1 | 0.0020 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1986 |
| F_fleet_2_YR_1987_s_1 | 0.0161 | 0.0010 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1987 |
| F_fleet_2_YR_1988_s_1 | 0.0019 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1988 |
| F_fleet_2_YR_1989_s_1 | 0.0045 | 0.0003 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1989 |
| F_fleet_2_YR_1990_s_1 | 0.0014 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1990 |
| F_fleet_2_YR_1991_s_1 | 0.0121 | 0.0008 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1991 |
| F_fleet_2_YR_1992_s_1 | 0.0027 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1992 |
| F_fleet_2_YR_1993_s_1 | 0.0024 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1993 |
| F_fleet_2_YR_1994_s_1 | 0.0021 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1994 |
| F_fleet_2_YR_1995_s_1 | 0.0022 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1995 |
| F_fleet_2_YR_1996_s_1 | 0.0030 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1996 |
| F_fleet_2_YR_1997_s_1 | 0.0041 | 0.0003 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1997 |
| F_fleet_2_YR_1998_s_1 | 0.0049 | 0.0004 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1998 |
| F_fleet_2_YR_1999_s_1 | 0.0052 | 0.0004 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_1999 |
| F_fleet_2_YR_2000_s_1 | 0.0033 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_2000 |
| F_fleet_2_YR_2001_s_1 | 0.0061 | 0.0004 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_2001 |
| F_fleet_2_YR_2002_s_1 | 0.0029 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_2002 |
| F_fleet_2_YR_2003_s_1 | 0.0031 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_2003 |
| F_fleet_2_YR_2004_s_1 | 0.0028 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_2004 |
| F_fleet_2_YR_2005_s_1 | 0.0020 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_2005 |
| F_fleet_2_YR_2006_s_1 | 0.0031 | 0.0002 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_2006 |

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|-----------------------|--------|--------|---|---|---|---|---|---|-----------|---|---------------|
| F_fleet_2_YR_2007_s_1 | 0.0013 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_2007 |
| F_fleet_2_YR_2008_s_1 | 0.0037 | 0.0003 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_2008 |
| F_fleet_2_YR_2009_s_1 | 0.0031 | 0.0003 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_2009 |
| F_fleet_2_YR_2010_s_1 | 0.0056 | 0.0005 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_2010 |
| F_fleet_2_YR_2011_s_1 | 0.0044 | 0.0004 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_COM_RR_2011 |
| F_fleet_3_YR_1955_s_1 | 0.0184 | 0.0012 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1955 |
| F_fleet_3_YR_1956_s_1 | 0.0210 | 0.0007 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1956 |
| F_fleet_3_YR_1957_s_1 | 0.0240 | 0.0008 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1957 |
| F_fleet_3_YR_1958_s_1 | 0.0274 | 0.0009 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1958 |
| F_fleet_3_YR_1959_s_1 | 0.0314 | 0.0011 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1959 |
| F_fleet_3_YR_1960_s_1 | 0.0357 | 0.0014 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1960 |
| F_fleet_3_YR_1961_s_1 | 0.0373 | 0.0015 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1961 |
| F_fleet_3_YR_1962_s_1 | 0.0389 | 0.0015 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1962 |
| F_fleet_3_YR_1963_s_1 | 0.0417 | 0.0017 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1963 |
| F_fleet_3_YR_1964_s_1 | 0.0443 | 0.0019 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1964 |
| F_fleet_3_YR_1965_s_1 | 0.0463 | 0.0021 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1965 |
| F_fleet_3_YR_1966_s_1 | 0.0485 | 0.0022 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1966 |
| F_fleet_3_YR_1967_s_1 | 0.0506 | 0.0022 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1967 |
| F_fleet_3_YR_1968_s_1 | 0.0536 | 0.0024 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1968 |
| F_fleet_3_YR_1969_s_1 | 0.0580 | 0.0027 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1969 |
| F_fleet_3_YR_1970_s_1 | 0.0621 | 0.0030 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1970 |
| F_fleet_3_YR_1971_s_1 | 0.0684 | 0.0033 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1971 |
| F_fleet_3_YR_1972_s_1 | 0.0754 | 0.0037 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1972 |
| F_fleet_3_YR_1973_s_1 | 0.0837 | 0.0042 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1973 |
| F_fleet_3_YR_1974_s_1 | 0.0938 | 0.0049 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1974 |
| F_fleet_3_YR_1975_s_1 | 0.1020 | 0.0055 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1975 |
| F_fleet_3_YR_1976_s_1 | 0.1037 | 0.0056 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1976 |
| F_fleet_3_YR_1977_s_1 | 0.1048 | 0.0056 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1977 |

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|-----------------------|--------|--------|---|---|---|---|---|---|-----------|---|------------|
| F_fleet_3_YR_1978_s_1 | 0.1049 | 0.0055 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1978 |
| F_fleet_3_YR_1979_s_1 | 0.1068 | 0.0056 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1979 |
| F_fleet_3_YR_1980_s_1 | 0.1072 | 0.0055 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1980 |
| F_fleet_3_YR_1981_s_1 | 0.1010 | 0.0053 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1981 |
| F_fleet_3_YR_1982_s_1 | 0.1801 | 0.0105 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1982 |
| F_fleet_3_YR_1983_s_1 | 0.1342 | 0.0079 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1983 |
| F_fleet_3_YR_1984_s_1 | 0.0529 | 0.0031 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1984 |
| F_fleet_3_YR_1985_s_1 | 0.0632 | 0.0033 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1985 |
| F_fleet_3_YR_1986_s_1 | 0.3433 | 0.0179 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1986 |
| F_fleet_3_YR_1987_s_1 | 0.1127 | 0.0060 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1987 |
| F_fleet_3_YR_1988_s_1 | 0.1038 | 0.0055 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1988 |
| F_fleet_3_YR_1989_s_1 | 0.0799 | 0.0044 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1989 |
| F_fleet_3_YR_1990_s_1 | 0.0974 | 0.0053 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1990 |
| F_fleet_3_YR_1991_s_1 | 0.0957 | 0.0052 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1991 |
| F_fleet_3_YR_1992_s_1 | 0.1287 | 0.0073 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1992 |
| F_fleet_3_YR_1993_s_1 | 0.1478 | 0.0093 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1993 |
| F_fleet_3_YR_1994_s_1 | 0.1631 | 0.0111 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1994 |
| F_fleet_3_YR_1995_s_1 | 0.1422 | 0.0102 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1995 |
| F_fleet_3_YR_1996_s_1 | 0.1604 | 0.0113 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1996 |
| F_fleet_3_YR_1997_s_1 | 0.1447 | 0.0098 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1997 |
| F_fleet_3_YR_1998_s_1 | 0.1257 | 0.0080 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1998 |
| F_fleet_3_YR_1999_s_1 | 0.1488 | 0.0090 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_1999 |
| F_fleet_3_YR_2000_s_1 | 0.1552 | 0.0090 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_2000 |
| F_fleet_3_YR_2001_s_1 | 0.2214 | 0.0130 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_2001 |
| F_fleet_3_YR_2002_s_1 | 0.1755 | 0.0108 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_2002 |
| F_fleet_3_YR_2003_s_1 | 0.1302 | 0.0085 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_2003 |
| F_fleet_3_YR_2004_s_1 | 0.1673 | 0.0119 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_2004 |
| F_fleet_3_YR_2005_s_1 | 0.0835 | 0.0061 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_2005 |

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|-----------------------|--------|--------|---|---|---|---|---|---|-----------|---|-----------------------|
| F_fleet_3_YR_2006_s_1 | 0.1127 | 0.0084 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_2006 |
| F_fleet_3_YR_2007_s_1 | 0.0843 | 0.0064 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_2007 |
| F_fleet_3_YR_2008_s_1 | 0.1115 | 0.0089 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_2008 |
| F_fleet_3_YR_2009_s_1 | 0.0853 | 0.0072 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_2009 |
| F_fleet_3_YR_2010_s_1 | 0.0890 | 0.0080 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_2010 |
| F_fleet_3_YR_2011_s_1 | 0.0773 | 0.0075 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_REC_2011 |
| F_fleet_4_YR_1945_s_1 | 0.0001 | 0.0000 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1945 |
| F_fleet_4_YR_1946_s_1 | 0.0007 | 0.0001 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1946 |
| F_fleet_4_YR_1947_s_1 | 0.0034 | 0.0005 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1947 |
| F_fleet_4_YR_1948_s_1 | 0.0089 | 0.0012 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1948 |
| F_fleet_4_YR_1949_s_1 | 0.0144 | 0.0019 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1949 |
| F_fleet_4_YR_1950_s_1 | 0.0257 | 0.0034 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1950 |
| F_fleet_4_YR_1951_s_1 | 0.0326 | 0.0043 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1951 |
| F_fleet_4_YR_1952_s_1 | 0.0385 | 0.0051 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1952 |
| F_fleet_4_YR_1953_s_1 | 0.0398 | 0.0053 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1953 |
| F_fleet_4_YR_1954_s_1 | 0.0518 | 0.0069 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1954 |
| F_fleet_4_YR_1955_s_1 | 0.0512 | 0.0068 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1955 |
| F_fleet_4_YR_1956_s_1 | 0.0657 | 0.0088 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1956 |
| F_fleet_4_YR_1957_s_1 | 0.0767 | 0.0102 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1957 |
| F_fleet_4_YR_1958_s_1 | 0.0993 | 0.0132 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1958 |
| F_fleet_4_YR_1959_s_1 | 0.1067 | 0.0142 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1959 |
| F_fleet_4_YR_1960_s_1 | 0.1066 | 0.0142 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1960 |
| F_fleet_4_YR_1961_s_1 | 0.0658 | 0.0088 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1961 |
| F_fleet_4_YR_1962_s_1 | 0.1132 | 0.0150 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1962 |
| F_fleet_4_YR_1963_s_1 | 0.1279 | 0.0170 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1963 |
| F_fleet_4_YR_1964_s_1 | 0.1502 | 0.0199 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1964 |
| F_fleet_4_YR_1965_s_1 | 0.0974 | 0.0129 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1965 |
| F_fleet_4_YR_1966_s_1 | 0.0822 | 0.0109 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1966 |

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|-----------------------|--------|--------|---|---|---|---|---|---|-----------|---|-----------------------|
| F_fleet_4_YR_1967_s_1 | 0.0982 | 0.0130 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1967 |
| F_fleet_4_YR_1968_s_1 | 0.1144 | 0.0151 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1968 |
| F_fleet_4_YR_1969_s_1 | 0.1244 | 0.0163 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1969 |
| F_fleet_4_YR_1970_s_1 | 0.0877 | 0.0115 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1970 |
| F_fleet_4_YR_1971_s_1 | 0.0986 | 0.0129 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1971 |
| F_fleet_4_YR_1972_s_1 | 0.1329 | 0.0169 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1972 |
| F_fleet_4_YR_1973_s_1 | 0.1342 | 0.0170 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1973 |
| F_fleet_4_YR_1974_s_1 | 0.1363 | 0.0172 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1974 |
| F_fleet_4_YR_1975_s_1 | 0.1052 | 0.0133 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1975 |
| F_fleet_4_YR_1976_s_1 | 0.1388 | 0.0171 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1976 |
| F_fleet_4_YR_1977_s_1 | 0.1610 | 0.0193 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1977 |
| F_fleet_4_YR_1978_s_1 | 0.1954 | 0.0221 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1978 |
| F_fleet_4_YR_1979_s_1 | 0.1884 | 0.0204 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1979 |
| F_fleet_4_YR_1980_s_1 | 0.1643 | 0.0191 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1980 |
| F_fleet_4_YR_1981_s_1 | 0.2493 | 0.0341 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1981 |
| F_fleet_4_YR_1982_s_1 | 0.2276 | 0.0301 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1982 |
| F_fleet_4_YR_1983_s_1 | 0.2489 | 0.0325 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1983 |
| F_fleet_4_YR_1984_s_1 | 0.2374 | 0.0296 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1984 |
| F_fleet_4_YR_1985_s_1 | 0.2509 | 0.0308 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1985 |
| F_fleet_4_YR_1986_s_1 | 0.2680 | 0.0341 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1986 |
| F_fleet_4_YR_1987_s_1 | 0.3030 | 0.0384 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1987 |
| F_fleet_4_YR_1988_s_1 | 0.2255 | 0.0288 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1988 |
| F_fleet_4_YR_1989_s_1 | 0.2793 | 0.0356 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1989 |
| F_fleet_4_YR_1990_s_1 | 0.3040 | 0.0410 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1990 |
| F_fleet_4_YR_1991_s_1 | 0.2954 | 0.0396 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1991 |
| F_fleet_4_YR_1992_s_1 | 0.2917 | 0.0429 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1992 |
| F_fleet_4_YR_1993_s_1 | 0.2445 | 0.0337 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1993 |
| F_fleet_4_YR_1994_s_1 | 0.2616 | 0.0356 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1994 |

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|---------------------------|-----------|----------|------|-------|----|----------|---|---|-----------|----|-------------------------------------|
| F_fleet_4_YR_1995_s_1 | 0.2167 | 0.0292 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1995 |
| F_fleet_4_YR_1996_s_1 | 0.2358 | 0.0319 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1996 |
| F_fleet_4_YR_1997_s_1 | 0.2361 | 0.0315 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1997 |
| F_fleet_4_YR_1998_s_1 | 0.2509 | 0.0328 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1998 |
| F_fleet_4_YR_1999_s_1 | 0.2662 | 0.0351 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_1999 |
| F_fleet_4_YR_2000_s_1 | 0.2339 | 0.0307 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_2000 |
| F_fleet_4_YR_2001_s_1 | 0.2259 | 0.0297 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_2001 |
| F_fleet_4_YR_2002_s_1 | 0.2013 | 0.0269 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_2002 |
| F_fleet_4_YR_2003_s_1 | 0.1615 | 0.0215 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_2003 |
| F_fleet_4_YR_2004_s_1 | 0.1239 | 0.0166 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_2004 |
| F_fleet_4_YR_2005_s_1 | 0.0728 | 0.0097 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_2005 |
| F_fleet_4_YR_2006_s_1 | 0.0979 | 0.0131 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_2006 |
| F_fleet_4_YR_2007_s_1 | 0.0948 | 0.0126 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_2007 |
| F_fleet_4_YR_2008_s_1 | 0.0810 | 0.0107 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_2008 |
| F_fleet_4_YR_2009_s_1 | 0.0939 | 0.0124 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_2009 |
| F_fleet_4_YR_2010_s_1 | 0.0664 | 0.0088 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_2010 |
| F_fleet_4_YR_2011_s_1 | 0.0620 | 0.0082 | _ | 0 | 8 | F | _ | _ | Estimated | A | F_SHRIMP BYCATCH_2011 |
| Q_base_4_Shrimp_Bycatch_4 | 1.9460 | 0.0460 | 1 | -10 | 20 | No_prior | _ | _ | Estimated | A | Q Shrimp Bycatch fishery |
| SizeSel_1P_1_Com_GN_1 | 45.0000 | 559.0140 | 45 | 20 | 70 | No_prior | _ | _ | Estimated | A | COM_GN size select peak |
| SizeSel_1P_2_Com_GN_1 | -0.0002 | 447.2100 | -1.5 | -20 | 20 | No_prior | _ | _ | Estimated | A | COM_GN size select top |
| SizeSel_1P_3_Com_GN_1 | -2.5000 | 391.3090 | 5 | -20 | 15 | No_prior | _ | _ | Estimated | A | COM_GN size select ascending width |
| SizeSel_1P_4_Com_GN_1 | 6.5000 | 190.0620 | 4 | -2 | 15 | No_prior | _ | _ | Estimated | A | COM_GN size select descending width |
| SizeSel_1P_5_Com_GN_1 | -999.0000 | _ | -999 | -1000 | 15 | No_prior | _ | _ | Fixed | NA | COM_GN select initial |
| SizeSel_1P_6_Com_GN_1 | -999.0000 | _ | -999 | -1000 | 15 | No_prior | _ | _ | Fixed | NA | COM_GN select final |
| SizeSel_2P_1_Com_RR_2 | 55.0000 | _ | 55 | 10 | 70 | No_prior | _ | _ | Fixed | NA | COM_RR size select peak |
| SizeSel_2P_2_Com_RR_2 | 10.0000 | _ | 10 | -20 | 15 | No_prior | _ | _ | Fixed | NA | COM_RR size select top |
| SizeSel_2P_3_Com_RR_2 | 5.0616 | 0.0509 | 6.1 | -20 | 12 | No_prior | _ | _ | Estimated | A | COM_RR size select ascending width |

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|-------------------------------|-----------|--------|------|------|----|----------|---|---|-----------|----|--|
| SizeSel_2P_4_Com_RR_2 | -4.0000 | _ | -4 | -5 | 15 | No_prior | _ | _ | Fixed | NA | COM_RR size select descending width |
| SizeSel_2P_5_Com_RR_2 | -999.0000 | _ | -999 | -100 | 15 | No_prior | _ | _ | Fixed | NA | COM_RR select initial |
| SizeSel_2P_6_Com_RR_2 | 15.0000 | _ | 15 | -15 | 15 | No_prior | _ | _ | Fixed | NA | COM_RR select final |
| Retain_2P_1_Com_RR_2 | 30.0000 | _ | 30 | 7 | 99 | No_prior | _ | _ | Fixed | NA | COM_RR retention inflection Period 1 |
| Retain_2P_2_Com_RR_2 | 4.5000 | _ | 4.5 | -1 | 20 | No_prior | _ | _ | Fixed | NA | COM_RR retention inflection Period 2 |
| Retain_2P_3_Com_RR_2 | 0.9900 | _ | 0.99 | 0.1 | 1 | No_prior | _ | _ | Fixed | NA | COM_RR retention slope Period 1 |
| Retain_2P_4_Com_RR_2 | 0.0000 | _ | 0 | -1 | 2 | No_prior | _ | _ | Fixed | NA | COM_RR retention slope Period 2 |
| DiscMort_2P_1_Com_RR_2 | -4.0000 | _ | -4 | -10 | 30 | No_prior | _ | _ | Fixed | NA | COM_RR discard mortality Period 1 inflection |
| DiscMort_2P_2_Com_RR_2 | 1.0000 | _ | 1 | -1 | 2 | No_prior | _ | _ | Fixed | NA | COM_RR discard mortality Period 2 inflection |
| DiscMort_2P_3_Com_RR_2 | 0.1000 | _ | 0.1 | -1 | 2 | No_prior | _ | _ | Fixed | NA | COM_RR discard mortality Period 1 slope |
| DiscMort_2P_4_Com_RR_2 | 0.0000 | _ | 0 | -1 | 2 | No_prior | _ | _ | Fixed | NA | COM_RR discard mortality Period 2 slope |
| SizeSel_3P_1_REC_3 | 38.4093 | 1.0406 | 40 | 7 | 99 | No_prior | _ | _ | Estimated | A | REC size select peak |
| SizeSel_3P_2_REC_3 | 10.0000 | _ | 10 | -20 | 15 | No_prior | _ | _ | Fixed | NA | REC size select top |
| SizeSel_3P_3_REC_3 | 5.0377 | 0.1724 | 6.6 | -10 | 12 | No_prior | _ | _ | Estimated | A | REC size select ascending width |
| SizeSel_3P_4_REC_3 | -4.0000 | _ | -4 | -5 | 15 | No_prior | _ | _ | Fixed | NA | REC size select descending width |
| SizeSel_3P_5_REC_3 | -999.0000 | _ | -999 | -100 | 15 | No_prior | _ | _ | Fixed | NA | REC select initial |
| SizeSel_3P_6_REC_3 | 15.0000 | _ | 15 | -15 | 15 | No_prior | _ | _ | Fixed | NA | REC select final |
| Retain_3P_1_REC_3 | 30.0000 | _ | 30 | 7 | 99 | No_prior | _ | _ | Fixed | NA | REC retention inflection Period 1 |
| Retain_3P_2_REC_3 | 4.5000 | _ | 4.5 | -1 | 15 | No_prior | _ | _ | Fixed | NA | Rec retention inflection Period 2 |
| Retain_3P_3_REC_3 | 0.9900 | _ | 0.99 | 0.1 | 1 | No_prior | _ | _ | Fixed | NA | REC retention slope Period 1 |
| Retain_3P_4_REC_3 | 0.0000 | _ | 0 | 0 | 2 | No_prior | _ | _ | Fixed | NA | REC retention slope Period 2 |
| DiscMort_3P_1_REC_3 | -4.0000 | _ | -4 | -10 | 30 | No_prior | _ | _ | Fixed | NA | REC discard mortality Period 1 inflection |
| DiscMort_3P_2_REC_3 | 1.0000 | _ | 1 | 0 | 2 | No_prior | _ | _ | Fixed | NA | REC discard mortality Period 2 inflection |
| DiscMort_3P_3_REC_3 | 0.2000 | _ | 0.2 | 0 | 2 | No_prior | _ | _ | Fixed | NA | REC discard mortality Period 1 slope |
| DiscMort_3P_4_REC_3 | 0.0000 | _ | 0 | -1 | 2 | No_prior | _ | _ | Fixed | NA | REC discard mortality Period 2 slope |
| SizeSel_4P_1_Shrimp_Bycatch_4 | 19.3447 | 0.8075 | 20 | 10 | 70 | No_prior | _ | _ | Estimated | A | SHRIMP BYCATCHJ size select peak |

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|-------------------------------------|-----------|----------|------|-------|----|----------|---|---|-----------------------|----|---|
| SizeSel_4P_2_Shrimp_Bycatch_4 | -11.3590 | 57.5102 | -12 | -15 | 3 | No_prior | - | - | Estimated | A | SHRIMP BYCATCH size select top |
| SizeSel_4P_3_Shrimp_Bycatch_4 | 4.1776 | 0.2128 | 3.9 | -20 | 12 | No_prior | - | - | Estimated | A | SHRIMP BYCATCH size select ascending width |
| SizeSel_4P_4_Shrimp_Bycatch_4 | 7.1720 | 0.1617 | 5 | -2 | 12 | No_prior | - | - | Estimated | A | SHRIMP BYCATCH size select descending width |
| SizeSel_4P_5_Shrimp_Bycatch_4 | -999.0000 | - | -999 | -999 | 15 | No_prior | - | - | Fixed | NA | SHRIMP BYCATCH select initial |
| SizeSel_4P_6_Shrimp_Bycatch_4 | -999.0000 | - | -999 | -999 | 15 | No_prior | - | - | Fixed | NA | SHRIMP BYCATCH select final |
| SizeSel_5P_1_MRFSS_5 | 1.0000 | - | 1 | 1 | 49 | No_prior | - | - | Mirror REC | NA | MRFSS SURVEY size select min length bin |
| SizeSel_5P_2_MRFSS_5 | 49.0000 | - | 49 | 1 | 49 | No_prior | - | - | Mirror REC | NA | MRFSS SURVEY size select max length bin |
| SizeSel_8P_1_COM_FWC_VERT_LINE 8 | 1.0000 | - | 1 | 1 | 49 | No_prior | - | - | Mirror COM_RR | NA | FWC SURVEY size select min length bin |
| SizeSel_8P_2_COM_FWC_VERT_LINE 8 | 49.0000 | - | 49 | 1 | 49 | No_prior | - | - | Mirror COM_RR | NA | FWC SURVEY size select max length bin |
| SizeSel_9P_1_SEAMAP_Survey_9 | 1.0000 | - | 1 | 1 | 49 | No_prior | - | - | Mirror Shrimp Bycatch | NA | SEAMAP SURVEY size select min length bin |
| SizeSel_9P_2_SEAMAP_Survey_9 | 49.0000 | - | 49 | 1 | 49 | No_prior | - | - | Mirror Shrimp Bycatch | NA | SEAMAP SURVEY size select max length bin |
| AgeSel_1P_1_Com_GN_1 | 0.0000 | - | 0 | 0 | 12 | No_prior | - | - | Fixed | NA | COM_GN age select min age |
| AgeSel_1P_2_Com_GN_1 | 12.0000 | - | 12 | 0 | 12 | No_prior | - | - | Fixed | NA | COM_GN age select max age |
| SizeSel_1P_1_Com_GN_1_BLK1repl 1886 | 47.8903 | 1.0154 | 45 | 20 | 70 | No_prior | - | - | Estimated | A | COM_GN TIME BLOCK 1 PEAK |
| SizeSel_1P_1_Com_GN_1_BLK1repl 2006 | 39.3328 | 0.7705 | 45 | 20 | 70 | No_prior | - | - | Estimated | A | COM_GN TIME BLOCK 2 peak |
| SizeSel_1P_2_Com_GN_1_BLK1repl 1886 | 3.1249 | 436.4340 | -1.5 | -20 | 20 | No_prior | - | - | Estimated | A | COM_GN TIME BLOCK 1 top |
| SizeSel_1P_2_Com_GN_1_BLK1repl 2006 | -10.6749 | 111.5510 | -1.5 | -20 | 20 | No_prior | - | - | Estimated | A | COM_GN TIME BLOCK 2 top |
| SizeSel_1P_3_Com_GN_1_BLK1repl 1886 | 4.2679 | 0.1489 | 5 | -20 | 15 | No_prior | - | - | Estimated | A | COM_GN TIME BLOCK 1 ascending width |
| SizeSel_1P_3_Com_GN_1_BLK1repl 2006 | 3.7890 | 0.1680 | 5 | -20 | 15 | No_prior | - | - | Estimated | A | COM_GN TIME BLOCK W ascending width |
| SizeSel_1P_4_Com_GN_1_BLK1repl 1886 | 12.7205 | 88.2746 | 4 | -2 | 15 | No_prior | - | - | Estimated | A | COM_GN TIME BLOCK 1 descending width |
| SizeSel_1P_4_Com_GN_1_BLK1repl 2006 | 5.9846 | 0.2407 | 4 | -2 | 15 | No_prior | - | - | Estimated | A | COM_GN TIME BLOCK 2 descending width |
| Retain_2P_1_Com_RR_2_BLK2repl 1886 | 16.6124 | 23.1932 | 26 | 7 | 99 | No_prior | - | - | Estimated | A | COM_RR TIME BLOCK 1 Retention inflection |
| Retain_2P_1_Com_RR_2_BLK2repl 1993 | 32.0127 | 3.9123 | 30.5 | 7 | 55 | No_prior | - | - | Estimated | A | COM_RR TIME BLOCK 2 Retention inflection |
| Retain_2P_2_Com_RR_2_BLK2repl 1886 | 0.0500 | - | 0.05 | 0.005 | 30 | No_prior | - | - | Fixed | NA | COM_RR TIME BLOCK 1 Retention slope |

| | | | | | | | | | | | |
|------------------------------------|---------|--------|------|-------|----|----------|---|---|-----------|---|---------------------------------------|
| Retain_2P_2_Com_RR_2_BLK2repl_1993 | 11.6318 | 2.7992 | 0.05 | 0.005 | 30 | No_prior | - | - | Estimated | A | COM_RR TIME BLOCK 2 Retention slope |
| Retain_3P_1_REC_3_BLK2repl_1886 | 31.0875 | 0.3253 | 26 | 7 | 75 | No_prior | - | - | Estimated | A | REC TIME BLOCK 1 Retention inflection |
| Retain_3P_1_REC_3_BLK2repl_1993 | 38.2588 | 0.3561 | 30.5 | 7 | 55 | No_prior | - | - | Estimated | A | REC TIME BLOCK 2 Retention inflection |
| Retain_3P_2_REC_3_BLK2repl_1886 | 1.7882 | 0.1629 | 2.05 | 0.005 | 30 | No_prior | - | - | Estimated | A | REC TIME BLOCK 1 Retention slope |
| Retain_3P_2_REC_3_BLK2repl_1993 | 4.2409 | 0.2907 | 2.05 | 0.005 | 30 | No_prior | - | - | Estimated | A | REC TIME BLOCK 2 Retention slope |

Table 3.2. Description of initial model runs and alternative runs (sensitivity, data exclusion, reweighting, and retrospective) conducted for the Gulf of Mexico Spanish mackerel SS evaluation.

| Run | Name | Key | Description |
|-----|--|---|---|
| 1 | Run 1 Configuration | Initial Model, Estimated Steepness, $M = DW$ point estimate ($0.3y^{-1}$) | Estimated growth, $M=0.38$ input into Lorenzen scaled to age 4, estimate steepness, estimate virgin stock (R_0), estimate recruitment deviations (1985-2010), input discards as discards (thousands of fish 1 super period (shrimp bycatch fishery), fractions directed fishery (1 super period commercial line gears (COM_RR), 3 super periods (recreational (REC)), 2 time varying selectivity/retention blocks commercial line gear (COM_RR) and recreational all modes (REC): pre 1993, 1993-2011, 2 time varying selectivity blocks commercial gillnet fleet (COM_GN) pre 2006, 2006-2011. |
| 2 | Run 1 Configuration, Steepness=0.9 | Sensitivity on estimation of Steepness | Run 1 Configuration, $M = 0.38y^{-1}$, except Beverton and Holt steepness parameter fixed at 0.9. |
| 3 | Run 1 Configuration, Steepness=0.8 | Sensitivity on estimation of Steepness | Run 1 Configuration, $M = 0.38y^{-1}$, except Beverton and Holt steepness parameter fixed at 0.8. |
| 4 | Run 1 Configuration, Steepness=0.7 | Sensitivity on estimation of Steepness | Run 1 Configuration, $M = 0.38y^{-1}$, except Beverton and Holt steepness parameter fixed at 0.7. |
| 5 | Run 3 Configuration, M HI | Sensitivity on M | Run 3 Model Configuration (Steepness = 0.8), M SENS HI ($M = 0.49y^{-1}$) sensitivity with M value input into Lorenzen function |
| 6 | Run 3 Configuration, M LO | Sensitivity on M | Run 3 Model Configuration (Steepness = 0.8), M SENS LO 2 ($M = 0.27y^{-1}$) sensitivity with M value input into Lorenzen function. |
| 7 | Run 3 Configuration, M REF Age 3 | Sensitivity on M | Run 3 Model Configuration (Steepness = 0.8), M ($0.38y^{-1}$), Reference (REF) Age 3 with reference scaling age in Lorenzen function. |
| 8 | Run 3 Configuration, Discard Mortality | Sensitivity on Discard Mortality | Run 3 Model Configuration (Steepness parameter = 0.8), $M = 0.38y^{-1}$, discard release mortality varied from 10% to 20% for COM_RR and from 20% 40% for REC) |
| 9 | Run 3 Configuration, NO MRFSS | Sensitivity on data exclusion | Run 3 Model Configuration (Steepness parameter = 0.8), $M = 0.38y^{-1}$, exclusion of MRFSS index. |
| 10 | Run 3 Configuration, NO FWC | Sensitivity on data exclusion | Run 3 Model Configuration (Steepness parameter = 0.8), $M = 0.38y^{-1}$, exclusion of FWC Trip Ticket index. |
| 11 | Run 3 Configuration, NO SEAMAP Survey | Sensitivity on data exclusion | Run 3 Model Configuration (Steepness parameter = 0.8), $M = 0.38y^{-1}$, exclusion of SEAMAP Survey Index. |
| 12 | Run 1 Configuration, SS Reweighting | Sensitivity on data component weighting | Initial Model M ($0.38y^{-1}$), with SS reweighting of abundance indices, age composition, and length composition components. Steepness parameter estimated in this run. |
| 13 | Run 3 Configuration, RETRO 2010 | Retrospective Analysis | Run 3 Model Configuration (Steepness = 0.8, $M = 0.38y^{-1}$), RETROSPECTIVE 2010, 2011 data excluded. |
| 14 | Run 3 Configuration, RETRO 2009 | Retrospective Analysis | Run 3 Model Configuration (Steepness = 0.8, $M = 0.38y^{-1}$), 2010-2011 data excluded. |
| 15 | Run 3 Configuration, RETRO 2008 | Retrospective Analysis | Run 3 Model Configuration (Steepness = 0.8, $M = 0.38y^{-1}$), 2009-2011 data excluded. |
| 16 | Run 3 Configuration, RETRO 2007 | Retrospective Analysis | Run 3 Model Configuration (Steepness = 0.8, $M = 0.38y^{-1}$), 2008-2011 data excluded. |
| 17 | Run 3 Configuration, RETRO 2006 | Retrospective Analysis | Run 3 Model Configuration (Steepness = 0.8, $M = 0.38y^{-1}$), 2007-2011 data excluded. |

Table 3.3. Mean and standard deviation of parameter estimates from 1,000 bootstrap samples for Gulf of Mexico Spanish mackerel for 1,000 bootstrap runs for Run 3 (Model is Run 1 configuration except steepness fixed at 0.8). Run 3 assumed $M = 0.38$ value was input into Lorenzen function.

| Parameter | Average | Standard error | Status |
|----------------------|---------|----------------|-----------|
| L_at_Amax_Fem_GP_1 | 59.9556 | 0.8473 | Estimated |
| L_at_Amin_Fem_GP_1 | 19.3014 | 0.4963 | Estimated |
| VonBert_K_Fem_GP_1 | 0.3004 | 0.0132 | Estimated |
| CV_old_Fem_GP_1 | 9.7682 | 0.3243 | Estimated |
| CV_young_Fem_GP_1 | 6.9883 | 0.2520 | Estimated |
| Wtlen_1_Fem | 0.0000 | - | Fixed |
| Wtlen_2_Fem | 2.8617 | - | Fixed |
| AgeSel_1P_2_Com_GN_1 | 12.0000 | - | Fixed |
| Eggs/kg_inter_Fem | 1.0000 | - | Fixed |
| Eggs/kg_slope_wt_Fem | 0.0000 | - | Fixed |
| SR_autocorr | 0.0000 | - | Fixed |
| SR_BH_steep | 0.8000 | - | Fixed |
| SR_envlink | 0.1000 | - | Fixed |
| SR_LN(R0) | 10.7914 | 0.0204 | Estimated |
| SR_R1_offset | 0.0000 | - | Fixed |
| SR_sigmaR | 0.7000 | - | Fixed |
| Main_RecrDev_1985 | 0.3274 | 0.0888 | Estimated |
| Main_RecrDev_1986 | -0.1076 | 0.0793 | Estimated |
| Main_RecrDev_1987 | -0.3025 | 0.0715 | Estimated |
| Main_RecrDev_1988 | -0.1257 | 0.0621 | Estimated |
| Main_RecrDev_1989 | 0.3444 | 0.0564 | Estimated |
| Main_RecrDev_1990 | 0.3130 | 0.0603 | Estimated |
| Main_RecrDev_1991 | 0.4148 | 0.0548 | Estimated |
| Main_RecrDev_1992 | -0.5065 | 0.0825 | Estimated |
| Main_RecrDev_1993 | -0.1727 | 0.0740 | Estimated |
| Main_RecrDev_1994 | -0.7947 | 0.0982 | Estimated |
| Main_RecrDev_1995 | 0.0062 | 0.0788 | Estimated |
| Main_RecrDev_1996 | 0.0680 | 0.0800 | Estimated |
| Main_RecrDev_1997 | -0.1781 | 0.0808 | Estimated |
| Main_RecrDev_1998 | 0.4302 | 0.0641 | Estimated |
| Main_RecrDev_1999 | -0.0543 | 0.0749 | Estimated |
| Main_RecrDev_2000 | 0.1123 | 0.0639 | Estimated |
| Main_RecrDev_2001 | 0.0629 | 0.0621 | Estimated |
| Main_RecrDev_2002 | -0.0579 | 0.0639 | Estimated |
| Main_RecrDev_2003 | 0.1803 | 0.0607 | Estimated |

| | | | |
|---------------------------|---------|--------|-----------|
| Main_RecrDev_2004 | 0.1062 | 0.0643 | Estimated |
| Main_RecrDev_2005 | 0.0338 | 0.0628 | Estimated |
| Main_RecrDev_2006 | -0.2962 | 0.0705 | Estimated |
| Main_RecrDev_2007 | 0.2547 | 0.0652 | Estimated |
| Main_RecrDev_2008 | 0.0009 | 0.0812 | Estimated |
| Main_RecrDev_2009 | -0.2599 | 0.1039 | Estimated |
| Main_RecrDev_2010 | 0.4654 | 0.1114 | Estimated |
| Main_RecrDev_2011 | -0.2646 | 0.2308 | Estimated |
| InitF_1Com_GN_1 | 0.0000 | - | Fixed |
| InitF_2Com_RR_2 | 0.0000 | - | Fixed |
| InitF_3REC_3 | 0.0000 | - | Fixed |
| InitF_4Shrimp_Bycatch_4 | 0.0000 | - | Fixed |
| Mat_slope_Fem | -0.0650 | - | Fixed |
| Mat50%_Fem | 31.0000 | - | Fixed |
| Q_base_4_Shrimp_Bycatch_4 | 2.0299 | 0.0493 | Estimated |
| RecrDist_Area_1 | 0.0000 | - | Fixed |
| RecrDist_GP_1 | 0.0000 | - | Fixed |
| RecrDist_Seas_1 | 0.0000 | - | Fixed |
| F_fleet_1_YR_1886_s_1 | 0.0008 | 0.0001 | Estimated |
| F_fleet_1_YR_1887_s_1 | 0.0017 | 0.0001 | Estimated |
| F_fleet_1_YR_1888_s_1 | 0.0033 | 0.0002 | Estimated |
| F_fleet_1_YR_1889_s_1 | 0.0064 | 0.0003 | Estimated |
| F_fleet_1_YR_1890_s_1 | 0.0074 | 0.0004 | Estimated |
| F_fleet_1_YR_1891_s_1 | 0.0078 | 0.0004 | Estimated |
| F_fleet_1_YR_1892_s_1 | 0.0078 | 0.0004 | Estimated |
| F_fleet_1_YR_1893_s_1 | 0.0079 | 0.0004 | Estimated |
| F_fleet_1_YR_1894_s_1 | 0.0079 | 0.0004 | Estimated |
| F_fleet_1_YR_1895_s_1 | 0.0079 | 0.0004 | Estimated |
| F_fleet_1_YR_1896_s_1 | 0.0079 | 0.0004 | Estimated |
| F_fleet_1_YR_1897_s_1 | 0.0082 | 0.0004 | Estimated |
| F_fleet_1_YR_1898_s_1 | 0.0106 | 0.0005 | Estimated |
| F_fleet_1_YR_1899_s_1 | 0.0106 | 0.0005 | Estimated |
| F_fleet_1_YR_1900_s_1 | 0.0107 | 0.0005 | Estimated |
| F_fleet_1_YR_1901_s_1 | 0.0107 | 0.0005 | Estimated |
| F_fleet_1_YR_1902_s_1 | 0.0174 | 0.0008 | Estimated |
| F_fleet_1_YR_1903_s_1 | 0.0169 | 0.0008 | Estimated |
| F_fleet_1_YR_1904_s_1 | 0.0170 | 0.0008 | Estimated |
| F_fleet_1_YR_1905_s_1 | 0.0171 | 0.0008 | Estimated |
| F_fleet_1_YR_1906_s_1 | 0.0171 | 0.0008 | Estimated |
| F_fleet_1_YR_1907_s_1 | 0.0172 | 0.0008 | Estimated |
| F_fleet_1_YR_1908_s_1 | 0.0167 | 0.0008 | Estimated |

| | | | |
|-----------------------|--------|--------|-----------|
| F_fleet_1_YR_1909_s_1 | 0.0175 | 0.0008 | Estimated |
| F_fleet_1_YR_1910_s_1 | 0.0204 | 0.0010 | Estimated |
| F_fleet_1_YR_1911_s_1 | 0.0233 | 0.0011 | Estimated |
| F_fleet_1_YR_1912_s_1 | 0.0263 | 0.0012 | Estimated |
| F_fleet_1_YR_1913_s_1 | 0.0293 | 0.0014 | Estimated |
| F_fleet_1_YR_1914_s_1 | 0.0324 | 0.0015 | Estimated |
| F_fleet_1_YR_1915_s_1 | 0.0356 | 0.0017 | Estimated |
| F_fleet_1_YR_1916_s_1 | 0.0388 | 0.0018 | Estimated |
| F_fleet_1_YR_1917_s_1 | 0.0409 | 0.0019 | Estimated |
| F_fleet_1_YR_1918_s_1 | 0.0418 | 0.0020 | Estimated |
| F_fleet_1_YR_1919_s_1 | 0.0428 | 0.0020 | Estimated |
| F_fleet_1_YR_1920_s_1 | 0.0445 | 0.0021 | Estimated |
| F_fleet_1_YR_1921_s_1 | 0.0462 | 0.0022 | Estimated |
| F_fleet_1_YR_1922_s_1 | 0.0466 | 0.0022 | Estimated |
| F_fleet_1_YR_1923_s_1 | 0.0470 | 0.0022 | Estimated |
| F_fleet_1_YR_1924_s_1 | 0.0501 | 0.0024 | Estimated |
| F_fleet_1_YR_1925_s_1 | 0.0536 | 0.0026 | Estimated |
| F_fleet_1_YR_1926_s_1 | 0.0572 | 0.0027 | Estimated |
| F_fleet_1_YR_1927_s_1 | 0.0595 | 0.0028 | Estimated |
| F_fleet_1_YR_1928_s_1 | 0.0412 | 0.0020 | Estimated |
| F_fleet_1_YR_1929_s_1 | 0.0444 | 0.0021 | Estimated |
| F_fleet_1_YR_1930_s_1 | 0.0520 | 0.0025 | Estimated |
| F_fleet_1_YR_1931_s_1 | 0.0293 | 0.0014 | Estimated |
| F_fleet_1_YR_1932_s_1 | 0.0358 | 0.0017 | Estimated |
| F_fleet_1_YR_1933_s_1 | 0.0390 | 0.0018 | Estimated |
| F_fleet_1_YR_1934_s_1 | 0.0429 | 0.0020 | Estimated |
| F_fleet_1_YR_1935_s_1 | 0.0532 | 0.0025 | Estimated |
| F_fleet_1_YR_1936_s_1 | 0.0648 | 0.0031 | Estimated |
| F_fleet_1_YR_1937_s_1 | 0.0495 | 0.0024 | Estimated |
| F_fleet_1_YR_1938_s_1 | 0.0511 | 0.0024 | Estimated |
| F_fleet_1_YR_1939_s_1 | 0.0535 | 0.0026 | Estimated |
| F_fleet_1_YR_1940_s_1 | 0.0460 | 0.0022 | Estimated |
| F_fleet_1_YR_1941_s_1 | 0.0010 | 0.0000 | Estimated |
| F_fleet_1_YR_1942_s_1 | 0.0010 | 0.0000 | Estimated |
| F_fleet_1_YR_1943_s_1 | 0.0010 | 0.0000 | Estimated |
| F_fleet_1_YR_1944_s_1 | 0.0010 | 0.0000 | Estimated |
| F_fleet_1_YR_1945_s_1 | 0.0010 | 0.0000 | Estimated |
| F_fleet_1_YR_1946_s_1 | 0.0009 | 0.0000 | Estimated |
| F_fleet_1_YR_1947_s_1 | 0.0009 | 0.0000 | Estimated |
| F_fleet_1_YR_1948_s_1 | 0.0099 | 0.0005 | Estimated |
| F_fleet_1_YR_1949_s_1 | 0.0434 | 0.0021 | Estimated |

| | | | |
|-----------------------|--------|--------|-----------|
| F_fleet_1_YR_1950_s_1 | 0.0299 | 0.0014 | Estimated |
| F_fleet_1_YR_1951_s_1 | 0.0783 | 0.0038 | Estimated |
| F_fleet_1_YR_1952_s_1 | 0.0571 | 0.0028 | Estimated |
| F_fleet_1_YR_1953_s_1 | 0.0388 | 0.0019 | Estimated |
| F_fleet_1_YR_1954_s_1 | 0.0384 | 0.0019 | Estimated |
| F_fleet_1_YR_1955_s_1 | 0.0221 | 0.0011 | Estimated |
| F_fleet_1_YR_1956_s_1 | 0.0410 | 0.0020 | Estimated |
| F_fleet_1_YR_1957_s_1 | 0.0538 | 0.0027 | Estimated |
| F_fleet_1_YR_1958_s_1 | 0.0606 | 0.0031 | Estimated |
| F_fleet_1_YR_1959_s_1 | 0.0789 | 0.0041 | Estimated |
| F_fleet_1_YR_1960_s_1 | 0.0995 | 0.0054 | Estimated |
| F_fleet_1_YR_1961_s_1 | 0.0771 | 0.0043 | Estimated |
| F_fleet_1_YR_1962_s_1 | 0.1448 | 0.0081 | Estimated |
| F_fleet_1_YR_1963_s_1 | 0.1229 | 0.0070 | Estimated |
| F_fleet_1_YR_1964_s_1 | 0.0912 | 0.0053 | Estimated |
| F_fleet_1_YR_1965_s_1 | 0.1162 | 0.0070 | Estimated |
| F_fleet_1_YR_1966_s_1 | 0.1752 | 0.0107 | Estimated |
| F_fleet_1_YR_1967_s_1 | 0.1519 | 0.0093 | Estimated |
| F_fleet_1_YR_1968_s_1 | 0.1917 | 0.0118 | Estimated |
| F_fleet_1_YR_1969_s_1 | 0.2364 | 0.0149 | Estimated |
| F_fleet_1_YR_1970_s_1 | 0.2465 | 0.0161 | Estimated |
| F_fleet_1_YR_1971_s_1 | 0.2344 | 0.0155 | Estimated |
| F_fleet_1_YR_1972_s_1 | 0.1974 | 0.0131 | Estimated |
| F_fleet_1_YR_1973_s_1 | 0.2023 | 0.0137 | Estimated |
| F_fleet_1_YR_1974_s_1 | 0.2668 | 0.0188 | Estimated |
| F_fleet_1_YR_1975_s_1 | 0.1772 | 0.0128 | Estimated |
| F_fleet_1_YR_1976_s_1 | 0.2613 | 0.0191 | Estimated |
| F_fleet_1_YR_1977_s_1 | 0.0755 | 0.0055 | Estimated |
| F_fleet_1_YR_1978_s_1 | 0.0410 | 0.0029 | Estimated |
| F_fleet_1_YR_1979_s_1 | 0.0752 | 0.0052 | Estimated |
| F_fleet_1_YR_1980_s_1 | 0.0672 | 0.0047 | Estimated |
| F_fleet_1_YR_1981_s_1 | 0.1323 | 0.0092 | Estimated |
| F_fleet_1_YR_1982_s_1 | 0.1358 | 0.0098 | Estimated |
| F_fleet_1_YR_1983_s_1 | 0.0948 | 0.0070 | Estimated |
| F_fleet_1_YR_1984_s_1 | 0.1586 | 0.0116 | Estimated |
| F_fleet_1_YR_1985_s_1 | 0.0901 | 0.0062 | Estimated |
| F_fleet_1_YR_1986_s_1 | 0.1296 | 0.0085 | Estimated |
| F_fleet_1_YR_1987_s_1 | 0.1415 | 0.0093 | Estimated |
| F_fleet_1_YR_1988_s_1 | 0.1317 | 0.0085 | Estimated |
| F_fleet_1_YR_1989_s_1 | 0.1862 | 0.0122 | Estimated |
| F_fleet_1_YR_1990_s_1 | 0.1543 | 0.0103 | Estimated |

| | | | |
|-----------------------|--------|--------|-----------|
| F_fleet_1_YR_1991_s_1 | 0.1842 | 0.0123 | Estimated |
| F_fleet_1_YR_1992_s_1 | 0.1955 | 0.0133 | Estimated |
| F_fleet_1_YR_1993_s_1 | 0.1381 | 0.0097 | Estimated |
| F_fleet_1_YR_1994_s_1 | 0.1619 | 0.0120 | Estimated |
| F_fleet_1_YR_1995_s_1 | 0.0981 | 0.0078 | Estimated |
| F_fleet_1_YR_1996_s_1 | 0.0256 | 0.0020 | Estimated |
| F_fleet_1_YR_1997_s_1 | 0.0312 | 0.0024 | Estimated |
| F_fleet_1_YR_1998_s_1 | 0.0235 | 0.0017 | Estimated |
| F_fleet_1_YR_1999_s_1 | 0.0425 | 0.0030 | Estimated |
| F_fleet_1_YR_2000_s_1 | 0.0420 | 0.0029 | Estimated |
| F_fleet_1_YR_2001_s_1 | 0.0521 | 0.0037 | Estimated |
| F_fleet_1_YR_2002_s_1 | 0.0423 | 0.0031 | Estimated |
| F_fleet_1_YR_2003_s_1 | 0.0615 | 0.0046 | Estimated |
| F_fleet_1_YR_2004_s_1 | 0.0426 | 0.0032 | Estimated |
| F_fleet_1_YR_2005_s_1 | 0.0529 | 0.0041 | Estimated |
| F_fleet_1_YR_2006_s_1 | 0.0398 | 0.0031 | Estimated |
| F_fleet_1_YR_2007_s_1 | 0.0266 | 0.0021 | Estimated |
| F_fleet_1_YR_2008_s_1 | 0.0316 | 0.0026 | Estimated |
| F_fleet_1_YR_2009_s_1 | 0.0458 | 0.0040 | Estimated |
| F_fleet_1_YR_2010_s_1 | 0.0289 | 0.0027 | Estimated |
| F_fleet_1_YR_2011_s_1 | 0.0282 | 0.0029 | Estimated |
| F_fleet_2_YR_1886_s_1 | 0.0001 | 0.0000 | Estimated |
| F_fleet_2_YR_1887_s_1 | 0.0001 | 0.0000 | Estimated |
| F_fleet_2_YR_1888_s_1 | 0.0002 | 0.0000 | Estimated |
| F_fleet_2_YR_1889_s_1 | 0.0004 | 0.0000 | Estimated |
| F_fleet_2_YR_1890_s_1 | 0.0005 | 0.0000 | Estimated |
| F_fleet_2_YR_1891_s_1 | 0.0001 | 0.0000 | Estimated |
| F_fleet_2_YR_1892_s_1 | 0.0001 | 0.0000 | Estimated |
| F_fleet_2_YR_1893_s_1 | 0.0001 | 0.0000 | Estimated |
| F_fleet_2_YR_1894_s_1 | 0.0001 | 0.0000 | Estimated |
| F_fleet_2_YR_1895_s_1 | 0.0001 | 0.0000 | Estimated |
| F_fleet_2_YR_1896_s_1 | 0.0001 | 0.0000 | Estimated |
| F_fleet_2_YR_1897_s_1 | 0.0005 | 0.0000 | Estimated |
| F_fleet_2_YR_1898_s_1 | 0.0007 | 0.0000 | Estimated |
| F_fleet_2_YR_1899_s_1 | 0.0007 | 0.0000 | Estimated |
| F_fleet_2_YR_1900_s_1 | 0.0007 | 0.0000 | Estimated |
| F_fleet_2_YR_1901_s_1 | 0.0007 | 0.0000 | Estimated |
| F_fleet_2_YR_1902_s_1 | 0.0012 | 0.0000 | Estimated |
| F_fleet_2_YR_1903_s_1 | 0.0011 | 0.0000 | Estimated |
| F_fleet_2_YR_1904_s_1 | 0.0011 | 0.0000 | Estimated |
| F_fleet_2_YR_1905_s_1 | 0.0011 | 0.0000 | Estimated |

| | | | |
|-----------------------|--------|--------|-----------|
| F_fleet_2_YR_1906_s_1 | 0.0011 | 0.0000 | Estimated |
| F_fleet_2_YR_1907_s_1 | 0.0011 | 0.0000 | Estimated |
| F_fleet_2_YR_1908_s_1 | 0.0011 | 0.0000 | Estimated |
| F_fleet_2_YR_1909_s_1 | 0.0013 | 0.0000 | Estimated |
| F_fleet_2_YR_1910_s_1 | 0.0015 | 0.0001 | Estimated |
| F_fleet_2_YR_1911_s_1 | 0.0016 | 0.0001 | Estimated |
| F_fleet_2_YR_1912_s_1 | 0.0018 | 0.0001 | Estimated |
| F_fleet_2_YR_1913_s_1 | 0.0020 | 0.0001 | Estimated |
| F_fleet_2_YR_1914_s_1 | 0.0021 | 0.0001 | Estimated |
| F_fleet_2_YR_1915_s_1 | 0.0023 | 0.0001 | Estimated |
| F_fleet_2_YR_1916_s_1 | 0.0025 | 0.0001 | Estimated |
| F_fleet_2_YR_1917_s_1 | 0.0027 | 0.0001 | Estimated |
| F_fleet_2_YR_1918_s_1 | 0.0028 | 0.0001 | Estimated |
| F_fleet_2_YR_1919_s_1 | 0.0029 | 0.0001 | Estimated |
| F_fleet_2_YR_1920_s_1 | 0.0029 | 0.0001 | Estimated |
| F_fleet_2_YR_1921_s_1 | 0.0031 | 0.0001 | Estimated |
| F_fleet_2_YR_1922_s_1 | 0.0031 | 0.0001 | Estimated |
| F_fleet_2_YR_1923_s_1 | 0.0032 | 0.0001 | Estimated |
| F_fleet_2_YR_1924_s_1 | 0.0033 | 0.0001 | Estimated |
| F_fleet_2_YR_1925_s_1 | 0.0035 | 0.0001 | Estimated |
| F_fleet_2_YR_1926_s_1 | 0.0037 | 0.0001 | Estimated |
| F_fleet_2_YR_1927_s_1 | 0.0040 | 0.0001 | Estimated |
| F_fleet_2_YR_1928_s_1 | 0.0028 | 0.0001 | Estimated |
| F_fleet_2_YR_1929_s_1 | 0.0030 | 0.0001 | Estimated |
| F_fleet_2_YR_1930_s_1 | 0.0035 | 0.0001 | Estimated |
| F_fleet_2_YR_1931_s_1 | 0.0020 | 0.0001 | Estimated |
| F_fleet_2_YR_1932_s_1 | 0.0024 | 0.0001 | Estimated |
| F_fleet_2_YR_1933_s_1 | 0.0026 | 0.0001 | Estimated |
| F_fleet_2_YR_1934_s_1 | 0.0029 | 0.0001 | Estimated |
| F_fleet_2_YR_1935_s_1 | 0.0035 | 0.0001 | Estimated |
| F_fleet_2_YR_1936_s_1 | 0.0044 | 0.0002 | Estimated |
| F_fleet_2_YR_1937_s_1 | 0.0034 | 0.0001 | Estimated |
| F_fleet_2_YR_1938_s_1 | 0.0035 | 0.0001 | Estimated |
| F_fleet_2_YR_1939_s_1 | 0.0036 | 0.0001 | Estimated |
| F_fleet_2_YR_1940_s_1 | 0.0031 | 0.0001 | Estimated |
| F_fleet_2_YR_1941_s_1 | 0.0007 | 0.0000 | Estimated |
| F_fleet_2_YR_1942_s_1 | 0.0007 | 0.0000 | Estimated |
| F_fleet_2_YR_1943_s_1 | 0.0007 | 0.0000 | Estimated |
| F_fleet_2_YR_1944_s_1 | 0.0007 | 0.0000 | Estimated |
| F_fleet_2_YR_1945_s_1 | 0.0001 | 0.0000 | Estimated |
| F_fleet_2_YR_1946_s_1 | 0.0006 | 0.0000 | Estimated |

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|-----------------------|--------|--------|-----------|
| F_fleet_2_YR_1947_s_1 | 0.0006 | 0.0000 | Estimated |
| F_fleet_2_YR_1948_s_1 | 0.0007 | 0.0000 | Estimated |
| F_fleet_2_YR_1949_s_1 | 0.0029 | 0.0001 | Estimated |
| F_fleet_2_YR_1950_s_1 | 0.0020 | 0.0001 | Estimated |
| F_fleet_2_YR_1951_s_1 | 0.0053 | 0.0002 | Estimated |
| F_fleet_2_YR_1952_s_1 | 0.0038 | 0.0001 | Estimated |
| F_fleet_2_YR_1953_s_1 | 0.0026 | 0.0001 | Estimated |
| F_fleet_2_YR_1954_s_1 | 0.0026 | 0.0001 | Estimated |
| F_fleet_2_YR_1955_s_1 | 0.0015 | 0.0001 | Estimated |
| F_fleet_2_YR_1956_s_1 | 0.0028 | 0.0001 | Estimated |
| F_fleet_2_YR_1957_s_1 | 0.0037 | 0.0001 | Estimated |
| F_fleet_2_YR_1958_s_1 | 0.0041 | 0.0002 | Estimated |
| F_fleet_2_YR_1959_s_1 | 0.0054 | 0.0002 | Estimated |
| F_fleet_2_YR_1960_s_1 | 0.0068 | 0.0003 | Estimated |
| F_fleet_2_YR_1961_s_1 | 0.0053 | 0.0003 | Estimated |
| F_fleet_2_YR_1962_s_1 | 0.0034 | 0.0002 | Estimated |
| F_fleet_2_YR_1963_s_1 | 0.0021 | 0.0001 | Estimated |
| F_fleet_2_YR_1964_s_1 | 0.0048 | 0.0003 | Estimated |
| F_fleet_2_YR_1965_s_1 | 0.0083 | 0.0005 | Estimated |
| F_fleet_2_YR_1966_s_1 | 0.0101 | 0.0006 | Estimated |
| F_fleet_2_YR_1967_s_1 | 0.0088 | 0.0005 | Estimated |
| F_fleet_2_YR_1968_s_1 | 0.0083 | 0.0005 | Estimated |
| F_fleet_2_YR_1969_s_1 | 0.0075 | 0.0005 | Estimated |
| F_fleet_2_YR_1970_s_1 | 0.0097 | 0.0006 | Estimated |
| F_fleet_2_YR_1971_s_1 | 0.0104 | 0.0007 | Estimated |
| F_fleet_2_YR_1972_s_1 | 0.0175 | 0.0012 | Estimated |
| F_fleet_2_YR_1973_s_1 | 0.0054 | 0.0004 | Estimated |
| F_fleet_2_YR_1974_s_1 | 0.0296 | 0.0021 | Estimated |
| F_fleet_2_YR_1975_s_1 | 0.0348 | 0.0026 | Estimated |
| F_fleet_2_YR_1976_s_1 | 0.0376 | 0.0028 | Estimated |
| F_fleet_2_YR_1977_s_1 | 0.0292 | 0.0022 | Estimated |
| F_fleet_2_YR_1978_s_1 | 0.0261 | 0.0019 | Estimated |
| F_fleet_2_YR_1979_s_1 | 0.0030 | 0.0002 | Estimated |
| F_fleet_2_YR_1980_s_1 | 0.0043 | 0.0003 | Estimated |
| F_fleet_2_YR_1981_s_1 | 0.0089 | 0.0006 | Estimated |
| F_fleet_2_YR_1982_s_1 | 0.0089 | 0.0007 | Estimated |
| F_fleet_2_YR_1983_s_1 | 0.0080 | 0.0006 | Estimated |
| F_fleet_2_YR_1984_s_1 | 0.0028 | 0.0002 | Estimated |
| F_fleet_2_YR_1985_s_1 | 0.0034 | 0.0002 | Estimated |
| F_fleet_2_YR_1986_s_1 | 0.0018 | 0.0001 | Estimated |
| F_fleet_2_YR_1987_s_1 | 0.0147 | 0.0010 | Estimated |

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|-----------------------|--------|--------|-----------|
| F_fleet_2_YR_1988_s_1 | 0.0018 | 0.0001 | Estimated |
| F_fleet_2_YR_1989_s_1 | 0.0042 | 0.0003 | Estimated |
| F_fleet_2_YR_1990_s_1 | 0.0013 | 0.0001 | Estimated |
| F_fleet_2_YR_1991_s_1 | 0.0112 | 0.0008 | Estimated |
| F_fleet_2_YR_1992_s_1 | 0.0025 | 0.0002 | Estimated |
| F_fleet_2_YR_1993_s_1 | 0.0023 | 0.0002 | Estimated |
| F_fleet_2_YR_1994_s_1 | 0.0019 | 0.0001 | Estimated |
| F_fleet_2_YR_1995_s_1 | 0.0020 | 0.0002 | Estimated |
| F_fleet_2_YR_1996_s_1 | 0.0027 | 0.0002 | Estimated |
| F_fleet_2_YR_1997_s_1 | 0.0037 | 0.0003 | Estimated |
| F_fleet_2_YR_1998_s_1 | 0.0044 | 0.0003 | Estimated |
| F_fleet_2_YR_1999_s_1 | 0.0046 | 0.0003 | Estimated |
| F_fleet_2_YR_2000_s_1 | 0.0030 | 0.0002 | Estimated |
| F_fleet_2_YR_2001_s_1 | 0.0055 | 0.0004 | Estimated |
| F_fleet_2_YR_2002_s_1 | 0.0026 | 0.0002 | Estimated |
| F_fleet_2_YR_2003_s_1 | 0.0028 | 0.0002 | Estimated |
| F_fleet_2_YR_2004_s_1 | 0.0025 | 0.0002 | Estimated |
| F_fleet_2_YR_2005_s_1 | 0.0018 | 0.0001 | Estimated |
| F_fleet_2_YR_2006_s_1 | 0.0029 | 0.0002 | Estimated |
| F_fleet_2_YR_2007_s_1 | 0.0012 | 0.0001 | Estimated |
| F_fleet_2_YR_2008_s_1 | 0.0034 | 0.0003 | Estimated |
| F_fleet_2_YR_2009_s_1 | 0.0029 | 0.0002 | Estimated |
| F_fleet_2_YR_2010_s_1 | 0.0052 | 0.0005 | Estimated |
| F_fleet_2_YR_2011_s_1 | 0.0040 | 0.0004 | Estimated |
| F_fleet_4_YR_1945_s_1 | 0.0001 | 0.0000 | Estimated |
| F_fleet_4_YR_1946_s_1 | 0.0006 | 0.0001 | Estimated |
| F_fleet_4_YR_1947_s_1 | 0.0032 | 0.0004 | Estimated |
| F_fleet_4_YR_1948_s_1 | 0.0082 | 0.0011 | Estimated |
| F_fleet_4_YR_1949_s_1 | 0.0133 | 0.0018 | Estimated |
| F_fleet_4_YR_1950_s_1 | 0.0238 | 0.0031 | Estimated |
| F_fleet_4_YR_1951_s_1 | 0.0301 | 0.0040 | Estimated |
| F_fleet_4_YR_1952_s_1 | 0.0357 | 0.0047 | Estimated |
| F_fleet_4_YR_1953_s_1 | 0.0369 | 0.0049 | Estimated |
| F_fleet_4_YR_1954_s_1 | 0.0482 | 0.0064 | Estimated |
| F_fleet_4_YR_1955_s_1 | 0.0476 | 0.0063 | Estimated |
| F_fleet_4_YR_1956_s_1 | 0.0607 | 0.0080 | Estimated |
| F_fleet_4_YR_1957_s_1 | 0.0710 | 0.0094 | Estimated |
| F_fleet_4_YR_1958_s_1 | 0.0912 | 0.0120 | Estimated |
| F_fleet_4_YR_1959_s_1 | 0.0995 | 0.0131 | Estimated |
| F_fleet_4_YR_1960_s_1 | 0.0992 | 0.0131 | Estimated |
| F_fleet_4_YR_1961_s_1 | 0.0614 | 0.0081 | Estimated |

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|-----------------------|--------|--------|-----------|
| F_fleet_4_YR_1962_s_1 | 0.1051 | 0.0139 | Estimated |
| F_fleet_4_YR_1963_s_1 | 0.1192 | 0.0157 | Estimated |
| F_fleet_4_YR_1964_s_1 | 0.1394 | 0.0184 | Estimated |
| F_fleet_4_YR_1965_s_1 | 0.0908 | 0.0120 | Estimated |
| F_fleet_4_YR_1966_s_1 | 0.0764 | 0.0101 | Estimated |
| F_fleet_4_YR_1967_s_1 | 0.0905 | 0.0119 | Estimated |
| F_fleet_4_YR_1968_s_1 | 0.1066 | 0.0141 | Estimated |
| F_fleet_4_YR_1969_s_1 | 0.1148 | 0.0151 | Estimated |
| F_fleet_4_YR_1970_s_1 | 0.0815 | 0.0107 | Estimated |
| F_fleet_4_YR_1971_s_1 | 0.0915 | 0.0121 | Estimated |
| F_fleet_4_YR_1972_s_1 | 0.1232 | 0.0160 | Estimated |
| F_fleet_4_YR_1973_s_1 | 0.1249 | 0.0163 | Estimated |
| F_fleet_4_YR_1974_s_1 | 0.1259 | 0.0164 | Estimated |
| F_fleet_4_YR_1975_s_1 | 0.0975 | 0.0127 | Estimated |
| F_fleet_4_YR_1976_s_1 | 0.1281 | 0.0166 | Estimated |
| F_fleet_4_YR_1977_s_1 | 0.1487 | 0.0192 | Estimated |
| F_fleet_4_YR_1978_s_1 | 0.1805 | 0.0229 | Estimated |
| F_fleet_4_YR_1979_s_1 | 0.1745 | 0.0219 | Estimated |
| F_fleet_4_YR_1980_s_1 | 0.1526 | 0.0194 | Estimated |
| F_fleet_4_YR_1981_s_1 | 0.2299 | 0.0289 | Estimated |
| F_fleet_4_YR_1982_s_1 | 0.2116 | 0.0266 | Estimated |
| F_fleet_4_YR_1983_s_1 | 0.2303 | 0.0286 | Estimated |
| F_fleet_4_YR_1984_s_1 | 0.2222 | 0.0273 | Estimated |
| F_fleet_4_YR_1985_s_1 | 0.2330 | 0.0286 | Estimated |
| F_fleet_4_YR_1986_s_1 | 0.2497 | 0.0313 | Estimated |
| F_fleet_4_YR_1987_s_1 | 0.2842 | 0.0359 | Estimated |
| F_fleet_4_YR_1988_s_1 | 0.2094 | 0.0269 | Estimated |
| F_fleet_4_YR_1989_s_1 | 0.2598 | 0.0328 | Estimated |
| F_fleet_4_YR_1990_s_1 | 0.2831 | 0.0353 | Estimated |
| F_fleet_4_YR_1991_s_1 | 0.2736 | 0.0339 | Estimated |
| F_fleet_4_YR_1992_s_1 | 0.2706 | 0.0337 | Estimated |
| F_fleet_4_YR_1993_s_1 | 0.2269 | 0.0288 | Estimated |
| F_fleet_4_YR_1994_s_1 | 0.2449 | 0.0312 | Estimated |
| F_fleet_4_YR_1995_s_1 | 0.2030 | 0.0261 | Estimated |
| F_fleet_4_YR_1996_s_1 | 0.2187 | 0.0279 | Estimated |
| F_fleet_4_YR_1997_s_1 | 0.2201 | 0.0281 | Estimated |
| F_fleet_4_YR_1998_s_1 | 0.2332 | 0.0295 | Estimated |
| F_fleet_4_YR_1999_s_1 | 0.2478 | 0.0312 | Estimated |
| F_fleet_4_YR_2000_s_1 | 0.2176 | 0.0276 | Estimated |
| F_fleet_4_YR_2001_s_1 | 0.2078 | 0.0264 | Estimated |
| F_fleet_4_YR_2002_s_1 | 0.1863 | 0.0238 | Estimated |

| | | | |
|-------------------------------------|-----------|----------|-----------|
| F_fleet_4_YR_2003_s_1 | 0.1498 | 0.0193 | Estimated |
| F_fleet_4_YR_2004_s_1 | 0.1152 | 0.0150 | Estimated |
| F_fleet_4_YR_2005_s_1 | 0.0672 | 0.0088 | Estimated |
| F_fleet_4_YR_2006_s_1 | 0.0906 | 0.0118 | Estimated |
| F_fleet_4_YR_2007_s_1 | 0.0880 | 0.0115 | Estimated |
| F_fleet_4_YR_2008_s_1 | 0.0750 | 0.0098 | Estimated |
| F_fleet_4_YR_2009_s_1 | 0.0872 | 0.0114 | Estimated |
| F_fleet_4_YR_2010_s_1 | 0.0614 | 0.0080 | Estimated |
| F_fleet_4_YR_2011_s_1 | 0.0572 | 0.0075 | Estimated |
| Retain_2P_1_Com_RR_2 | 30.0000 | - | Fixed |
| Retain_2P_1_Com_RR_2_BLK2repl_1886 | 20.1669 | 15.2547 | |
| Retain_2P_1_Com_RR_2_BLK2repl_1993 | 30.3991 | 7.0037 | |
| Retain_2P_2_Com_RR_2 | 4.5000 | - | Fixed |
| Retain_2P_2_Com_RR_2_BLK2repl_1886 | 0.0500 | | Fixed |
| Retain_2P_2_Com_RR_2_BLK2repl_1993 | 12.5286 | 5.0116 | |
| Retain_2P_3_Com_RR_2 | 0.9900 | - | Fixed |
| Retain_2P_4_Com_RR_2 | 0.0000 | - | Fixed |
| Retain_3P_1_REC_3 | 30.0000 | - | Fixed |
| Retain_3P_1_REC_3_BLK2repl_1886 | 30.9248 | 0.3293 | |
| Retain_3P_1_REC_3_BLK2repl_1993 | 38.2921 | 0.3227 | |
| Retain_3P_2_REC_3 | 4.5000 | - | Fixed |
| Retain_3P_2_REC_3_BLK2repl_1886 | 1.8394 | 0.2195 | |
| Retain_3P_2_REC_3_BLK2repl_1993 | 4.3462 | 0.2510 | |
| Retain_3P_3_REC_3 | 0.9900 | - | Fixed |
| Retain_3P_4_REC_3 | 0.0000 | - | Fixed |
| SizeSel_1P_1_Com_GN_1 | 45.0000 | 550.5697 | |
| SizeSel_1P_1_Com_GN_1_BLK1repl_1886 | 47.9997 | 0.7073 | |
| SizeSel_1P_1_Com_GN_1_BLK1repl_2006 | 39.4711 | 0.8399 | |
| SizeSel_1P_2_Com_GN_1 | -0.0069 | 440.4270 | |
| SizeSel_1P_2_Com_GN_1_BLK1repl_1886 | -1.4708 | 86.8076 | |
| SizeSel_1P_2_Com_GN_1_BLK1repl_2006 | -8.9516 | 70.9321 | |
| SizeSel_1P_3_Com_GN_1 | -2.4992 | 385.3976 | |
| SizeSel_1P_3_Com_GN_1_BLK1repl_1886 | 4.2890 | 0.1084 | |
| SizeSel_1P_3_Com_GN_1_BLK1repl_2006 | 3.8209 | 0.1793 | |
| SizeSel_1P_4_Com_GN_1 | 6.5003 | 187.0025 | |
| SizeSel_1P_4_Com_GN_1_BLK1repl_1886 | 5.5912 | 83.5751 | |
| SizeSel_1P_4_Com_GN_1_BLK1repl_2006 | 5.9615 | 0.3410 | |
| SizeSel_1P_5_Com_GN_1 | -999.0000 | - | Fixed |
| SizeSel_1P_6_Com_GN_1 | -999.0000 | - | Fixed |
| SizeSel_2P_1_Com_RR_2 | 55.0000 | - | Fixed |
| SizeSel_2P_2_Com_RR_2 | 10.0000 | - | Fixed |

| | | | |
|-------------------------------|-----------|---------|-------|
| SizeSel_2P_3_Com_RR_2 | 5.0826 | 0.0677 | |
| SizeSel_2P_4_Com_RR_2 | -4.0000 | - | Fixed |
| SizeSel_2P_5_Com_RR_2 | -999.0000 | - | Fixed |
| SizeSel_2P_6_Com_RR_2 | 15.0000 | - | Fixed |
| SizeSel_3P_1_REC_3 | 39.5705 | 1.5942 | |
| SizeSel_3P_2_REC_3 | 10.0000 | - | Fixed |
| SizeSel_3P_3_REC_3 | 5.2031 | 0.2301 | |
| SizeSel_3P_4_REC_3 | -4.0000 | - | Fixed |
| SizeSel_3P_5_REC_3 | -999.0000 | - | Fixed |
| SizeSel_3P_6_REC_3 | 15.0000 | - | Fixed |
| SizeSel_4P_1_Shrimp_Bycatch_4 | 19.2485 | 1.1964 | |
| SizeSel_4P_2_Shrimp_Bycatch_4 | -8.5231 | 45.4199 | |
| SizeSel_4P_3_Shrimp_Bycatch_4 | 4.3293 | 0.3113 | |
| SizeSel_4P_4_Shrimp_Bycatch_4 | 7.1210 | 0.2288 | |
| SizeSel_4P_5_Shrimp_Bycatch_4 | -999.0000 | - | Fixed |
| SizeSel_4P_6_Shrimp_Bycatch_4 | -999.0000 | - | Fixed |

Table 3.4. Summary results for Gulf of Mexico Spanish mackerel for model convergence level, total likelihood, , unfished spawning biomass (R0), SSB@30%SPR (SSB_SPRTtgt), predicted spawning stock biomass in 2011 (SSB_2011, whole weight, mtons), predicted spawning potential ratio 2011 (SPR_2011), F_SPRTtgt (equals F30%SPR), Fcurrent, SSB_REF and F_REF from the SS jitter analysis for Run 3 Model Configuration (estimate steepness and $M=0.38 \text{ y}^{-1}$). F_{current} = geometric mean of F in 2009 through 2011. $SSB_{\text{REF}} = SSB_{2011} / SSB_{\text{MSST}}$. $MSST = (1.0-M) * SSB@30\%SPR$. $F_{\text{REF}} = F_{\text{current}} / F_{\text{SPRTtgt}}$.

| Run_ID | Convergence | Likelihood | R0 | Virgin_Biomass | SSB_SPRTtgt | SSB_2011 | SPR_2011 | F_SPRTtgt | F_CURRENT | SSB_REF | F_REF |
|--------|-------------|------------|---------|----------------|-------------|----------|----------|-----------|-----------|---------|-------|
| 1 | 0.0193208 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 2 | 0.025521 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 8 | 0.00735732 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 12 | 0.0084232 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 16 | 0.00112108 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 20 | 0.00448941 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 22 | 0.0247162 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 23 | 0.00283252 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 27 | 0.017825 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 35 | 0.0100494 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 38 | 0.0249437 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 41 | 0.0156508 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 42 | 0.00126917 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 48 | 0.00347047 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 51 | 0.0149252 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 52 | 0.0010587 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 54 | 0.00264981 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 56 | 0.00882105 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 57 | 0.0010074 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 58 | 0.00492613 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 59 | 0.0106461 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 60 | 0.000502046 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |

| | | | | | | | | | | | |
|----|------------|------|---------|-------|-------|-------|------|------|------|------|------|
| 61 | 0.00165795 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 63 | 0.00610258 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 65 | 0.00315178 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 68 | 0.00433998 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 72 | 0.0134151 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 73 | 0.00704818 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 74 | 0.0360098 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 77 | 0.0122285 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 79 | 0.00619656 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 80 | 0.00160841 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 82 | 0.00619887 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 89 | 0.0358414 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 90 | 0.00117738 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 92 | 0.00281103 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 93 | 0.0161329 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 94 | 0.0257107 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 95 | 0.00104386 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 96 | 0.0179732 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 98 | 0.00051994 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 99 | 0.00405368 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 5 | 0.0195468 | 4252 | 10.7781 | 41801 | 10590 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 10 | 0.00707724 | 4252 | 10.7781 | 41801 | 10590 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 15 | 0.00716685 | 4252 | 10.7781 | 41801 | 10590 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 18 | 0.00188561 | 4252 | 10.7781 | 41801 | 10590 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 25 | 0.0228218 | 4252 | 10.7781 | 41801 | 10590 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 33 | 0.00405331 | 4252 | 10.7781 | 41801 | 10590 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 44 | 0.0060942 | 4252 | 10.7781 | 41801 | 10590 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 49 | 0.00953289 | 4252 | 10.7781 | 41801 | 10590 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |

| | | | | | | | | | | | |
|-----|-------------|------|---------|-------|-------|-------|------|------|------|------|------|
| 50 | 0.00408325 | 4252 | 10.7781 | 41801 | 10590 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 62 | 0.0207567 | 4252 | 10.7781 | 41801 | 10590 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 66 | 0.010683 | 4252 | 10.7781 | 41801 | 10590 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 69 | 0.00229862 | 4252 | 10.7781 | 41801 | 10590 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 91 | 0.0951241 | 4252 | 10.7781 | 41800 | 10589 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 97 | 0.000652747 | 4252 | 10.7781 | 41801 | 10590 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 100 | 0.000870326 | 4252 | 10.7781 | 41801 | 10590 | 19419 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 7 | 0.0269314 | 4252 | 10.7781 | 41802 | 10590 | 19420 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 26 | 0.00584864 | 4252 | 10.7781 | 41802 | 10590 | 19420 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 37 | 0.0557999 | 4252 | 10.7781 | 41802 | 10590 | 19420 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 40 | 0.0060555 | 4252 | 10.7781 | 41802 | 10590 | 19420 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 64 | 0.0168041 | 4252 | 10.7781 | 41802 | 10590 | 19420 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 86 | 0.0211252 | 4252 | 10.7781 | 41802 | 10590 | 19420 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 88 | 0.0114211 | 4252 | 10.7781 | 41802 | 10590 | 19420 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 11 | 0.00118265 | 4252 | 10.7781 | 41804 | 10590 | 19423 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 29 | 0.00707389 | 4252 | 10.7781 | 41804 | 10590 | 19423 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 30 | 0.00572288 | 4252 | 10.7781 | 41804 | 10590 | 19423 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 43 | 0.0178268 | 4252 | 10.7781 | 41804 | 10590 | 19423 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 53 | 0.000777517 | 4252 | 10.7781 | 41804 | 10590 | 19423 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 84 | 0.00211714 | 4252 | 10.7781 | 41804 | 10590 | 19423 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 55 | 765.026 | 4252 | 10.7783 | 41818 | 10594 | 19430 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 19 | 0.00164353 | 4252 | 10.7782 | 41811 | 10592 | 19428 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 28 | 0.00129209 | 4252 | 10.7782 | 41811 | 10592 | 19428 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 31 | 0.0248992 | 4252 | 10.7782 | 41811 | 10592 | 19428 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 32 | 0.00833836 | 4252 | 10.7782 | 41811 | 10592 | 19428 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 34 | 0.00661328 | 4252 | 10.7782 | 41811 | 10592 | 19428 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 45 | 0.0225048 | 4252 | 10.7782 | 41811 | 10592 | 19428 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 81 | 0.0162646 | 4252 | 10.7782 | 41811 | 10592 | 19428 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |

| | | | | | | | | | | | |
|----|----------------|-------|---------|----------|---------|--------------|------|------|------|-------|------|
| 9 | 0.0074052 4 | 4253 | 10.7783 | 41824 | 10596 | 19438 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 67 | 0.0125651 | 4253 | 10.7783 | 41824 | 10596 | 19438 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 70 | 0.0225829 | 4253 | 10.7783 | 41824 | 10596 | 19438 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 76 | 0.0017663 9 | 4253 | 10.7783 | 41824 | 10596 | 19438 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 46 | 0.0345288 | 4257 | 10.7751 | 41515 | 10517 | 19237 | 0.60 | 0.35 | 0.14 | 2.95 | 0.39 |
| 13 | 0.0789689 | 4258 | 10.7739 | 41368 | 10480 | 19224 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 24 | 0.044589 | 4258 | 10.774 | 41371 | 10481 | 19227 | 0.60 | 0.35 | 0.14 | 2.96 | 0.39 |
| 3 | 0.0139188 | 4262 | 10.7684 | 40812 | 10339 | 18998 | 0.60 | 0.36 | 0.14 | 2.96 | 0.39 |
| 4 | 0.029232 | 4262 | 10.7684 | 40812 | 10339 | 18998 | 0.60 | 0.36 | 0.14 | 2.96 | 0.39 |
| 6 | 0.0203405 | 4262 | 10.7684 | 40812 | 10339 | 18998 | 0.60 | 0.36 | 0.14 | 2.96 | 0.39 |
| 39 | 0.0105513 | 4262 | 10.7684 | 40812 | 10339 | 18998 | 0.60 | 0.36 | 0.14 | 2.96 | 0.39 |
| 47 | 0.0103614 | 4262 | 10.7684 | 40812 | 10339 | 18998 | 0.60 | 0.36 | 0.14 | 2.96 | 0.39 |
| 83 | 0.057487 | 4262 | 10.7684 | 40812 | 10339 | 18998 | 0.60 | 0.36 | 0.14 | 2.96 | 0.39 |
| 21 | 331.538 | 4262 | 10.7684 | 40812 | 10339 | 18997 | 0.60 | 0.36 | 0.14 | 2.96 | 0.39 |
| 14 | 0.0092814 | 4263 | 10.7684 | 40813 | 10339 | 18999 | 0.60 | 0.36 | 0.14 | 2.96 | 0.39 |
| 87 | 0.0735974 | 4263 | 10.7684 | 40814 | 10339 | 18999 | 0.60 | 0.36 | 0.14 | 2.96 | 0.39 |
| 75 | 0.0070771 1 | 4278 | 10.8439 | 44374 | 11242 | 21600 | 0.61 | 0.36 | 0.14 | 3.10 | 0.39 |
| 17 | 0.0299497 | 4713 | 10.8116 | 44214 | 11201 | 21831 | 0.64 | 0.37 | 0.11 | 3.14 | 0.30 |
| 71 | 0.0216508 | 14808 | 9.96449 | 17963 | 4551 | 3540 | 0.31 | 0.51 | 0.35 | 1.25 | 0.69 |
| 85 | 0.256915 | 16537 | 10.787 | 40793 | 10334 | 22788 | 0.67 | 0.37 | 0.10 | 3.56 | 0.28 |
| 36 | 0.103999 | 18592 | 10.8868 | 37471 | 9493 | 28724 | 0.77 | 0.43 | 0.08 | 4.88 | 0.18 |
| 78 | 2533350 | 20531 | 17.7961 | 30666000 | 7792330 | 700369 00 | 1.00 | 0.54 | 0.00 | 14.50 | 0.00 |

Table 3.5. Predicted total biomass (whole weight mtons), spawning biomass (whole weight mtons), age-0 recruits (thousand fish), and fishing mortality for Gulf of Mexico Spanish mackerel from SS Model 3 Run.

| Year | Total Biomass | Spawning Biomass | Recruits | Fishing Mortality |
|-------------|----------------------|-------------------------|-----------------|--------------------------|
| Virgin | 55,126 | 40,812 | 47,495 | 0.0000 |
| 1886 | 55,126 | 40,812 | 47,495 | 0.0007 |
| 1887 | 55,098 | 40,790 | 47,494 | 0.0013 |
| 1888 | 55,047 | 40,748 | 47,491 | 0.0026 |
| 1889 | 54,953 | 40,670 | 47,485 | 0.0050 |
| 1890 | 54,776 | 40,524 | 47,474 | 0.0058 |
| 1891 | 54,602 | 40,379 | 47,464 | 0.0058 |
| 1892 | 54,465 | 40,264 | 47,455 | 0.0058 |
| 1893 | 54,358 | 40,173 | 47,448 | 0.0058 |
| 1894 | 54,274 | 40,102 | 47,443 | 0.0058 |
| 1895 | 54,210 | 40,047 | 47,439 | 0.0058 |
| 1896 | 54,160 | 40,005 | 47,436 | 0.0058 |
| 1897 | 54,122 | 39,972 | 47,433 | 0.0063 |
| 1898 | 54,072 | 39,930 | 47,430 | 0.0082 |
| 1899 | 53,953 | 39,832 | 47,422 | 0.0083 |
| 1900 | 53,859 | 39,753 | 47,416 | 0.0083 |
| 1901 | 53,784 | 39,690 | 47,412 | 0.0083 |
| 1902 | 53,726 | 39,641 | 47,408 | 0.0135 |
| 1903 | 53,467 | 39,428 | 47,391 | 0.0131 |
| 1904 | 53,278 | 39,270 | 47,379 | 0.0131 |
| 1905 | 53,128 | 39,144 | 47,369 | 0.0132 |
| 1906 | 53,011 | 39,044 | 47,361 | 0.0132 |
| 1907 | 52,920 | 38,967 | 47,355 | 0.0132 |
| 1908 | 52,850 | 38,907 | 47,351 | 0.0129 |
| 1909 | 52,812 | 38,874 | 47,348 | 0.0136 |
| 1910 | 52,754 | 38,825 | 47,344 | 0.0158 |
| 1911 | 52,620 | 38,716 | 47,335 | 0.0180 |
| 1912 | 52,426 | 38,556 | 47,322 | 0.0202 |
| 1913 | 52,184 | 38,355 | 47,306 | 0.0225 |
| 1914 | 51,903 | 38,122 | 47,287 | 0.0248 |
| 1915 | 51,592 | 37,864 | 47,265 | 0.0272 |
| 1916 | 51,258 | 37,586 | 47,242 | 0.0296 |
| 1917 | 50,906 | 37,293 | 47,217 | 0.0312 |

| | | | | |
|------|--------|--------|--------|--------|
| 1918 | 50,575 | 37,016 | 47,193 | 0.0318 |
| 1919 | 50,296 | 36,782 | 47,172 | 0.0326 |
| 1920 | 50,053 | 36,577 | 47,154 | 0.0338 |
| 1921 | 49,824 | 36,386 | 47,137 | 0.0352 |
| 1922 | 49,599 | 36,197 | 47,120 | 0.0354 |
| 1923 | 49,418 | 36,045 | 47,106 | 0.0358 |
| 1924 | 49,267 | 35,919 | 47,094 | 0.0380 |
| 1925 | 49,071 | 35,756 | 47,079 | 0.0405 |
| 1926 | 48,825 | 35,553 | 47,060 | 0.0432 |
| 1927 | 48,538 | 35,316 | 47,038 | 0.0450 |
| 1928 | 48,253 | 35,079 | 47,015 | 0.0313 |
| 1929 | 48,537 | 35,302 | 47,037 | 0.0337 |
| 1930 | 48,681 | 35,419 | 47,048 | 0.0394 |
| 1931 | 48,582 | 35,341 | 47,040 | 0.0224 |
| 1932 | 49,130 | 35,785 | 47,082 | 0.0273 |
| 1933 | 49,386 | 35,998 | 47,102 | 0.0297 |
| 1934 | 49,491 | 36,091 | 47,110 | 0.0327 |
| 1935 | 49,458 | 36,068 | 47,108 | 0.0403 |
| 1936 | 49,139 | 35,812 | 47,085 | 0.0490 |
| 1937 | 48,563 | 35,342 | 47,040 | 0.0375 |
| 1938 | 48,541 | 35,316 | 47,038 | 0.0388 |
| 1939 | 48,488 | 35,268 | 47,033 | 0.0405 |
| 1940 | 48,387 | 35,184 | 47,025 | 0.0349 |
| 1941 | 48,514 | 35,284 | 47,035 | 0.0012 |
| 1942 | 49,863 | 36,375 | 47,136 | 0.0012 |
| 1943 | 50,966 | 37,285 | 47,216 | 0.0012 |
| 1944 | 51,849 | 38,024 | 47,279 | 0.0011 |
| 1945 | 52,547 | 38,614 | 47,327 | 0.0008 |
| 1946 | 53,106 | 39,088 | 47,365 | 0.0015 |
| 1947 | 53,506 | 39,432 | 47,392 | 0.0030 |
| 1948 | 53,719 | 39,629 | 47,407 | 0.0127 |
| 1949 | 53,408 | 39,411 | 47,390 | 0.0413 |
| 1950 | 51,890 | 38,211 | 47,294 | 0.0374 |
| 1951 | 50,709 | 37,291 | 47,217 | 0.0770 |
| 1952 | 48,136 | 35,234 | 47,030 | 0.0650 |
| 1953 | 46,551 | 33,957 | 46,904 | 0.0524 |
| 1954 | 45,758 | 33,310 | 46,836 | 0.0590 |
| 1955 | 44,810 | 32,568 | 46,756 | 0.0629 |
| 1956 | 43,867 | 31,827 | 46,672 | 0.0872 |

| | | | | |
|------|--------|--------|--------|--------|
| 1957 | 42,182 | 30,512 | 46,514 | 0.1054 |
| 1958 | 40,191 | 28,948 | 46,309 | 0.1262 |
| 1959 | 37,864 | 27,141 | 46,046 | 0.1470 |
| 1960 | 35,458 | 25,245 | 45,733 | 0.1655 |
| 1961 | 33,233 | 23,459 | 45,397 | 0.1294 |
| 1962 | 32,879 | 23,051 | 45,313 | 0.1997 |
| 1963 | 30,725 | 21,380 | 44,942 | 0.1980 |
| 1964 | 29,126 | 20,161 | 44,638 | 0.1969 |
| 1965 | 27,837 | 19,208 | 44,376 | 0.1849 |
| 1966 | 27,469 | 18,827 | 44,265 | 0.2140 |
| 1967 | 26,871 | 18,265 | 44,093 | 0.2116 |
| 1968 | 26,505 | 17,963 | 43,997 | 0.2472 |
| 1969 | 25,473 | 17,190 | 43,739 | 0.2823 |
| 1970 | 24,044 | 16,111 | 43,342 | 0.2708 |
| 1971 | 23,515 | 15,635 | 43,153 | 0.2761 |
| 1972 | 23,091 | 15,293 | 43,010 | 0.2862 |
| 1973 | 22,422 | 14,842 | 42,813 | 0.2911 |
| 1974 | 21,793 | 14,397 | 42,609 | 0.3458 |
| 1975 | 20,510 | 13,429 | 42,127 | 0.2881 |
| 1976 | 20,686 | 13,512 | 42,170 | 0.3563 |
| 1977 | 19,709 | 12,801 | 41,781 | 0.2692 |
| 1978 | 20,069 | 13,132 | 41,967 | 0.2693 |
| 1979 | 20,028 | 13,194 | 42,001 | 0.2736 |
| 1980 | 19,865 | 13,104 | 41,951 | 0.2543 |
| 1981 | 20,130 | 13,278 | 42,046 | 0.3406 |
| 1982 | 18,702 | 12,299 | 41,485 | 0.3871 |
| 1983 | 17,113 | 11,122 | 40,704 | 0.3516 |
| 1984 | 16,498 | 10,680 | 40,376 | 0.3203 |
| 1985 | 16,708 | 10,706 | 56,448 | 0.3162 |
| 1986 | 18,325 | 11,660 | 35,246 | 0.5064 |
| 1987 | 14,975 | 9,623 | 27,792 | 0.3882 |
| 1988 | 13,175 | 8,612 | 32,320 | 0.3323 |
| 1989 | 13,127 | 8,404 | 52,435 | 0.4101 |
| 1990 | 14,457 | 8,889 | 51,677 | 0.4211 |
| 1991 | 15,698 | 9,578 | 58,146 | 0.4356 |
| 1992 | 16,816 | 10,422 | 23,534 | 0.4091 |
| 1993 | 14,456 | 9,389 | 31,107 | 0.3563 |
| 1994 | 13,330 | 8,806 | 15,973 | 0.3673 |
| 1995 | 11,004 | 7,347 | 34,627 | 0.3263 |

| | | | | |
|------|--------|--------|--------|--------|
| 1996 | 11,502 | 7,370 | 36,610 | 0.3159 |
| 1997 | 12,573 | 7,970 | 29,319 | 0.2984 |
| 1998 | 13,131 | 8,315 | 55,205 | 0.3247 |
| 1999 | 15,531 | 9,675 | 36,051 | 0.3309 |
| 2000 | 15,777 | 10,048 | 41,648 | 0.3137 |
| 2001 | 16,348 | 10,488 | 39,707 | 0.3494 |
| 2002 | 16,139 | 10,392 | 35,722 | 0.2961 |
| 2003 | 16,343 | 10,567 | 45,872 | 0.2595 |
| 2004 | 18,023 | 11,572 | 42,824 | 0.2401 |
| 2005 | 19,664 | 12,712 | 40,021 | 0.1516 |
| 2006 | 22,041 | 14,563 | 28,879 | 0.1776 |
| 2007 | 22,099 | 14,917 | 51,485 | 0.1525 |
| 2008 | 24,265 | 16,247 | 40,295 | 0.1611 |
| 2009 | 25,251 | 17,093 | 31,216 | 0.1572 |
| 2010 | 25,053 | 17,111 | 66,096 | 0.1401 |
| 2011 | 28,367 | 18,998 | 31,500 | 0.1197 |

Table 3.6. Fleet-specific estimates of fishing mortality rate in terms of exploitable biomass for Gulf of Mexico Spanish mackerel from SS for the Run 3 model (steepness =0.8, M=0.38).

| Year | Annual Exploitation Rate | Fleet Continuous Fishing Mortality | | | |
|------|--------------------------|------------------------------------|--------|-----|----------------|
| | | Com_GN | Com_RR | REC | Shrimp_Bycatch |
| 1886 | 0.0007 | 0.0008 | 0.0001 | | |
| 1887 | 0.0013 | 0.0016 | 0.0001 | | |
| 1888 | 0.0026 | 0.0032 | 0.0002 | | |
| 1889 | 0.0050 | 0.0062 | 0.0004 | | |
| 1890 | 0.0058 | 0.0072 | 0.0005 | | |
| 1891 | 0.0058 | 0.0076 | 0.0001 | | |
| 1892 | 0.0058 | 0.0076 | 0.0001 | | |
| 1893 | 0.0058 | 0.0076 | 0.0001 | | |
| 1894 | 0.0058 | 0.0076 | 0.0001 | | |
| 1895 | 0.0058 | 0.0076 | 0.0001 | | |
| 1896 | 0.0058 | 0.0076 | 0.0001 | | |
| 1897 | 0.0063 | 0.0079 | 0.0005 | | |
| 1898 | 0.0082 | 0.0103 | 0.0007 | | |
| 1899 | 0.0083 | 0.0103 | 0.0007 | | |
| 1900 | 0.0083 | 0.0103 | 0.0007 | | |
| 1901 | 0.0083 | 0.0104 | 0.0007 | | |
| 1902 | 0.0135 | 0.0169 | 0.0012 | | |
| 1903 | 0.0131 | 0.0164 | 0.0011 | | |
| 1904 | 0.0131 | 0.0165 | 0.0011 | | |
| 1905 | 0.0132 | 0.0166 | 0.0011 | | |
| 1906 | 0.0132 | 0.0166 | 0.0011 | | |
| 1907 | 0.0132 | 0.0166 | 0.0011 | | |
| 1908 | 0.0129 | 0.0161 | 0.0011 | | |
| 1909 | 0.0136 | 0.0170 | 0.0013 | | |
| 1910 | 0.0158 | 0.0198 | 0.0015 | | |
| 1911 | 0.0180 | 0.0226 | 0.0016 | | |
| 1912 | 0.0202 | 0.0255 | 0.0018 | | |
| 1913 | 0.0225 | 0.0285 | 0.0020 | | |
| 1914 | 0.0248 | 0.0315 | 0.0021 | | |
| 1915 | 0.0272 | 0.0346 | 0.0023 | | |
| 1916 | 0.0296 | 0.0377 | 0.0025 | | |
| 1917 | 0.0312 | 0.0397 | 0.0027 | | |
| 1918 | 0.0318 | 0.0406 | 0.0028 | | |
| 1919 | 0.0326 | 0.0416 | 0.0029 | | |

| | | | | | |
|------|--------|--------|--------|--------|--------|
| 1920 | 0.0338 | 0.0433 | 0.0029 | | |
| 1921 | 0.0352 | 0.0450 | 0.0031 | | |
| 1922 | 0.0354 | 0.0453 | 0.0031 | | |
| 1923 | 0.0358 | 0.0458 | 0.0032 | | |
| 1924 | 0.0380 | 0.0488 | 0.0033 | | |
| 1925 | 0.0405 | 0.0522 | 0.0035 | | |
| 1926 | 0.0432 | 0.0557 | 0.0037 | | |
| 1927 | 0.0450 | 0.0580 | 0.0041 | | |
| 1928 | 0.0313 | 0.0402 | 0.0028 | | |
| 1929 | 0.0337 | 0.0432 | 0.0030 | | |
| 1930 | 0.0394 | 0.0507 | 0.0035 | | |
| 1931 | 0.0224 | 0.0286 | 0.0020 | | |
| 1932 | 0.0273 | 0.0349 | 0.0024 | | |
| 1933 | 0.0297 | 0.0380 | 0.0026 | | |
| 1934 | 0.0327 | 0.0418 | 0.0029 | | |
| 1935 | 0.0403 | 0.0518 | 0.0035 | | |
| 1936 | 0.0490 | 0.0632 | 0.0044 | | |
| 1937 | 0.0375 | 0.0482 | 0.0034 | | |
| 1938 | 0.0388 | 0.0498 | 0.0035 | | |
| 1939 | 0.0405 | 0.0521 | 0.0036 | | |
| 1940 | 0.0349 | 0.0448 | 0.0031 | | |
| 1941 | 0.0012 | 0.0010 | 0.0007 | | |
| 1942 | 0.0012 | 0.0010 | 0.0007 | | |
| 1943 | 0.0012 | 0.0010 | 0.0007 | | |
| 1944 | 0.0011 | 0.0009 | 0.0007 | | |
| 1945 | 0.0008 | 0.0010 | 0.0001 | | 0.0001 |
| 1946 | 0.0015 | 0.0009 | 0.0006 | | 0.0007 |
| 1947 | 0.0030 | 0.0009 | 0.0006 | | 0.0034 |
| 1948 | 0.0127 | 0.0096 | 0.0007 | | 0.0089 |
| 1949 | 0.0413 | 0.0421 | 0.0029 | | 0.0144 |
| 1950 | 0.0374 | 0.0290 | 0.0020 | | 0.0257 |
| 1951 | 0.0770 | 0.0762 | 0.0053 | | 0.0326 |
| 1952 | 0.0650 | 0.0556 | 0.0039 | | 0.0385 |
| 1953 | 0.0524 | 0.0379 | 0.0026 | | 0.0398 |
| 1954 | 0.0590 | 0.0375 | 0.0026 | | 0.0518 |
| 1955 | 0.0629 | 0.0217 | 0.0015 | 0.0184 | 0.0512 |
| 1956 | 0.0872 | 0.0402 | 0.0028 | 0.0210 | 0.0657 |
| 1957 | 0.1054 | 0.0530 | 0.0037 | 0.0240 | 0.0767 |
| 1958 | 0.1262 | 0.0598 | 0.0042 | 0.0274 | 0.0993 |
| 1959 | 0.1470 | 0.0783 | 0.0055 | 0.0314 | 0.1067 |
| 1960 | 0.1655 | 0.0991 | 0.0070 | 0.0357 | 0.1066 |

| | | | | | |
|------|--------|--------|--------|--------|--------|
| 1961 | 0.1294 | 0.0771 | 0.0055 | 0.0373 | 0.0658 |
| 1962 | 0.1997 | 0.1454 | 0.0035 | 0.0389 | 0.1132 |
| 1963 | 0.1980 | 0.1239 | 0.0022 | 0.0417 | 0.1279 |
| 1964 | 0.1969 | 0.0925 | 0.0050 | 0.0443 | 0.1502 |
| 1965 | 0.1849 | 0.1180 | 0.0087 | 0.0463 | 0.0974 |
| 1966 | 0.2140 | 0.1787 | 0.0106 | 0.0485 | 0.0822 |
| 1967 | 0.2116 | 0.1556 | 0.0093 | 0.0506 | 0.0982 |
| 1968 | 0.2472 | 0.1970 | 0.0087 | 0.0536 | 0.1144 |
| 1969 | 0.2823 | 0.2441 | 0.0079 | 0.0580 | 0.1244 |
| 1970 | 0.2708 | 0.2558 | 0.0103 | 0.0621 | 0.0877 |
| 1971 | 0.2761 | 0.2442 | 0.0111 | 0.0684 | 0.0986 |
| 1972 | 0.2862 | 0.2063 | 0.0187 | 0.0754 | 0.1329 |
| 1973 | 0.2911 | 0.2120 | 0.0058 | 0.0837 | 0.1342 |
| 1974 | 0.3458 | 0.2812 | 0.0320 | 0.0938 | 0.1363 |
| 1975 | 0.2881 | 0.1875 | 0.0377 | 0.1020 | 0.1052 |
| 1976 | 0.3563 | 0.2777 | 0.0409 | 0.1037 | 0.1388 |
| 1977 | 0.2692 | 0.0803 | 0.0319 | 0.1048 | 0.1610 |
| 1978 | 0.2693 | 0.0435 | 0.0283 | 0.1049 | 0.1954 |
| 1979 | 0.2736 | 0.0798 | 0.0033 | 0.1068 | 0.1884 |
| 1980 | 0.2543 | 0.0713 | 0.0047 | 0.1072 | 0.1643 |
| 1981 | 0.3406 | 0.1406 | 0.0097 | 0.1010 | 0.2493 |
| 1982 | 0.3871 | 0.1455 | 0.0098 | 0.1801 | 0.2276 |
| 1983 | 0.3516 | 0.1023 | 0.0089 | 0.1342 | 0.2489 |
| 1984 | 0.3203 | 0.1713 | 0.0032 | 0.0529 | 0.2374 |
| 1985 | 0.3162 | 0.0971 | 0.0038 | 0.0632 | 0.2509 |
| 1986 | 0.5064 | 0.1389 | 0.0020 | 0.3433 | 0.2680 |
| 1987 | 0.3882 | 0.1502 | 0.0161 | 0.1127 | 0.3030 |
| 1988 | 0.3323 | 0.1389 | 0.0019 | 0.1038 | 0.2255 |
| 1989 | 0.4101 | 0.1968 | 0.0045 | 0.0799 | 0.2793 |
| 1990 | 0.4211 | 0.1636 | 0.0014 | 0.0974 | 0.3040 |
| 1991 | 0.4356 | 0.1944 | 0.0121 | 0.0957 | 0.2954 |
| 1992 | 0.4091 | 0.2054 | 0.0027 | 0.1287 | 0.2917 |
| 1993 | 0.3563 | 0.1441 | 0.0024 | 0.1478 | 0.2445 |
| 1994 | 0.3673 | 0.1692 | 0.0021 | 0.1631 | 0.2616 |
| 1995 | 0.3263 | 0.1031 | 0.0022 | 0.1422 | 0.2167 |
| 1996 | 0.3159 | 0.0272 | 0.0030 | 0.1604 | 0.2358 |
| 1997 | 0.2984 | 0.0336 | 0.0041 | 0.1447 | 0.2361 |
| 1998 | 0.3247 | 0.0255 | 0.0049 | 0.1257 | 0.2509 |
| 1999 | 0.3309 | 0.0462 | 0.0052 | 0.1488 | 0.2662 |
| 2000 | 0.3137 | 0.0455 | 0.0033 | 0.1552 | 0.2339 |
| 2001 | 0.3494 | 0.0564 | 0.0061 | 0.2214 | 0.2259 |

| | | | | | |
|------|--------|--------|--------|--------|--------|
| 2002 | 0.2961 | 0.0459 | 0.0029 | 0.1755 | 0.2013 |
| 2003 | 0.2595 | 0.0667 | 0.0031 | 0.1302 | 0.1615 |
| 2004 | 0.2401 | 0.0460 | 0.0028 | 0.1673 | 0.1239 |
| 2005 | 0.1516 | 0.0565 | 0.0020 | 0.0835 | 0.0728 |
| 2006 | 0.1776 | 0.0432 | 0.0031 | 0.1127 | 0.0979 |
| 2007 | 0.1525 | 0.0290 | 0.0013 | 0.0843 | 0.0948 |
| 2008 | 0.1611 | 0.0345 | 0.0037 | 0.1115 | 0.0810 |
| 2009 | 0.1572 | 0.0499 | 0.0031 | 0.0853 | 0.0939 |
| 2010 | 0.1401 | 0.0316 | 0.0056 | 0.0890 | 0.0664 |
| 2011 | 0.1197 | 0.0309 | 0.0044 | 0.0773 | 0.0620 |

Table 3.7. Summary of SS results from sensitivity and retrospective analysis runs for Gulf of Mexico Spanish mackerel. Results include steepness; virgin recruitment (thousand fish, R0), virgin total biomass (B0), total biomass 2011(Bcurrent), virgin spawning biomass (SSB_UNFISHED= SSB_BO), 2011 spawning biomass (SSB-2011), spawning potential ratio (SPR_2011). For the retrospective runs values for '2011' were the terminal year in the run (i.e., 2006 retrospective terminal year = 2006). Weight units are whole weight mtons.

| Run ID | Name | Steepness | R0 | B0 | B_2011 | SSB_UNFISHED | SSB_2011 | SSB_2011 / SB_BO | SPR-2011 |
|--------|---|-----------|--------|--------|--------|--------------|----------|------------------|----------|
| 1 | Run 1 Configuration | 0.52 | 83,068 | 96,695 | 17,280 | 71,934 | 11,195 | 0.16 | 0.51 |
| 2 | Run 1 Configuration, Steepness=0.9 | 0.9 | 47,495 | 55,126 | 28,367 | 40,812 | 18,998 | 0.47 | 0.60 |
| 3 | Run 1 Configuration, Steepness=0.8 | 0.8 | 43,839 | 51,390 | 29,262 | 38,217 | 19,645 | 0.51 | 0.60 |
| 4 | Run 1 Configuration, Steepness=0.7 | 0.7 | 54,514 | 63,852 | 27,248 | 47,517 | 18,235 | 0.38 | 0.59 |
| 5 | Run 3 Configuration, M HI | 0.8 | 77,242 | 49,253 | 35,562 | 34,525 | 23,551 | 0.68 | 0.73 |
| 6 | Run 3 Configuration, M LO | 0.8 | 37,402 | 91,707 | 19,441 | 72,171 | 13,150 | 0.18 | 0.41 |
| 7 | Run 3 Configuration, M REF Age 3 | 0.8 | 43,717 | 61,932 | 27,007 | 46,822 | 18,140 | 0.39 | 0.56 |
| 8 | Run 3 Configuration, Discard Mortality | 0.8 | 48,662 | 56,940 | 28,376 | 42,356 | 18,995 | 0.45 | 0.59 |
| 9 | Run 3 Configuration, NO MRFSS | 0.8 | 48,173 | 56,449 | 29,647 | 41,987 | 19,886 | 0.47 | 0.61 |
| 10 | Run 3 Configuration, NO FWC | 0.8 | 50,436 | 59,021 | 38,246 | 43,942 | 25,700 | 0.58 | 0.64 |
| 11 | Run 3 Configuration, NO SEAMAP Survey | 0.8 | 48,554 | 56,858 | 30,514 | 42,297 | 20,364 | 0.48 | 0.61 |
| 12 | Run 1 Configuration, SS Reweighting | 0.53 | 82,017 | 93,538 | 16,752 | 68,906 | 11,050 | 0.16 | 0.53 |
| 13 | Run 3 Configuration, RETROSPECTIVE 2010 | 0.8 | 48,513 | 57,538 | 27,244 | 42,956 | 18,383 | 0.43 | 0.59 |
| 14 | Run 3 Configuration, RETROSPECTIVE 2009 | 0.8 | 48,269 | 58,062 | 25,842 | 43,508 | 17,503 | 0.40 | 0.52 |
| 15 | Run 3 Configuration, RETROSPECTIVE 2008 | 0.8 | 48,233 | 58,712 | 26,716 | 44,140 | 18,121 | 0.41 | 0.53 |
| 16 | Run 3 Configuration, RETROSPECTIVE 2007 | 0.8 | 48,407 | 59,510 | 24,697 | 44,849 | 16,832 | 0.38 | 0.56 |
| 17 | Run 3 Configuration, RETROSPECTIVE 2006 | 0.8 | 46,866 | 57,711 | 29,878 | 43,366 | 19,528 | 0.45 | 0.54 |

Table 3.8. Reference points and benchmarks from sensitivity runs for Gulf of Mexico Spanish mackerel from SS. Benchmarks are reported for SPR 30%. *Current* refers to geometric mean of 2009-2011 values. MSST is $(1-M)*SSB_{ref}$ with $M = 0.38$, or $M=0.27$, or $M=0.49$ representing the M value from the Hoenig maximum age mortality estimator for fully recruited ages from the SEDAR DW corresponding to the Base Model M or the M_{LO} or M_{HI} scenario. Ref refers to reference metric, either F30% SPR or SSB 30% SPR. Fratio is $F_{current} / F_{ref}$. SSBratio is $SSB_{current} / MSST$. Spawning biomass units are weight in mtons, and yield units are mtons whole weight.

| Run ID | Name | Fcurrent | SSBcurrent | Yref | Fref | SSBref | MFMT | MSST | F/MFMT | SSB/MSST |
|--------|---|----------|------------|-------|------|--------|------|--------|--------|----------|
| 1 | Run 1 Configuration | 0.19 | 11,195 | 3,563 | 0.37 | 6,626 | 0.37 | 4,108 | 0.51 | 2.73 |
| 2 | Run 1 Configuration, Steepness=0.9 | 0.14 | 18,998 | 3,090 | 0.39 | 10,701 | 0.35 | 6,634 | 0.39 | 2.86 |
| 3 | Run 1 Configuration, Steepness=0.8 | 0.14 | 19,645 | 3,053 | 0.39 | 10,339 | 0.36 | 6,410 | 0.38 | 3.06 |
| 4 | Run 1 Configuration, Steepness=0.7 | 0.14 | 18,235 | 3,056 | 0.41 | 10,264 | 0.35 | 6,363 | 0.41 | 2.87 |
| 5 | Run 3 Configuration, M HI | 0.10 | 23,551 | 3,682 | 0.20 | 8,746 | 0.50 | 4,461 | 0.20 | 5.28 |
| 6 | Run 3 Configuration, M LO | 0.20 | 13,150 | 4,040 | 0.83 | 18,283 | 0.24 | 13,347 | 0.83 | 0.99 |
| 7 | Run 3 Configuration, M REF Age 3 | 0.15 | 18,140 | 3,138 | 0.47 | 11,862 | 0.32 | 7,354 | 0.47 | 2.47 |
| 8 | Run 3 Configuration, Discard Mortality | 0.14 | 18,995 | 3,029 | 0.41 | 10,730 | 0.35 | 6,653 | 0.41 | 2.86 |
| 9 | Run 3 Configuration, NO MRFSS | 0.14 | 19,886 | 3,054 | 0.39 | 10,637 | 0.35 | 6,595 | 0.39 | 3.02 |
| 10 | Run 3 Configuration, NO FWC | 0.12 | 25,700 | 2,821 | 0.34 | 11,132 | 0.34 | 6,902 | 0.34 | 3.72 |
| 11 | Run 3 Configuration, NO SEAMAP Survey | 0.13 | 20,364 | 3,053 | 0.38 | 10,715 | 0.35 | 6,643 | 0.38 | 3.07 |
| 12 | Run 1 Configuration, SS Reweighting | 0.19 | 11,050 | 3,743 | 0.37 | 7,011 | 0.37 | 4,347 | 0.50 | 2.54 |
| 13 | Run 3 Configuration, RETROSPECTIVE_2010 | 0.15 | 18,383 | 3,163 | 0.43 | 10,882 | 0.35 | 6,747 | 0.43 | 2.72 |
| 14 | Run 3 Configuration, RETROSPECTIVE_2009 | 0.16 | 17,503 | 2,991 | 0.46 | 11,022 | 0.34 | 6,834 | 0.46 | 2.56 |
| 15 | Run 3 Configuration, RETROSPECTIVE_2008 | 0.15 | 18,121 | 2,968 | 0.44 | 11,182 | 0.35 | 6,933 | 0.44 | 2.61 |
| 16 | Run 3 Configuration, RETROSPECTIVE_2007 | 0.15 | 16,832 | 3,072 | 0.46 | 11,362 | 0.33 | 7,044 | 0.46 | 2.39 |
| 17 | Run 3 Configuration, RETROSPECTIVE_2006 | 0.16 | 19,528 | 3,040 | 0.48 | 10,986 | 0.34 | 6,811 | 0.48 | 2.87 |

Table 3.9. Required SFA and MSRA evaluations using SPR 30% reference point for Gulf of Mexico Spanish mackerel SS Base Model Run 1 for 4 states of nature of steepness at 3 levels of natural mortality (M). Spawning biomass and yield units are mtons, whole weight.. FCURRENT AND SSBCURRENT calculated as geometric mean of 2009-2011 F and SSB.

| Criteria | Definition | Steepness = 0.8 | Steepness = 0.9 |
|-------------------------------------|--|------------------------|------------------------|
| | Mortality Rate Criteria | | |
| FMSY or Proxy, Proxy=F30%SPR | $F_{SPR30\%}$ | 0.36 | 0.35 |
| MFMT | $F_{SPR30\%}$ | 0.36 | 0.35 |
| FOY | 75% of $F_{SPR30\%}$ | 0.27 | 0.26 |
| FCURRENT | $F_{2009-F2011}$ | 0.13 | 0.14 |
| FCURRENT/MFMT | $F_{2009-F2011}$ | 0.50 | 0.52 |
| BASE M=0.38 | | | |
| | Biomass Criteria | | |
| SSB MSY OR PROXY mtons | Equilibrium SSB @ $F_{SPR30\%}$ | 10,339 | 10,701 |
| MSST | $(1-M)*SSB_{SPR30\%}$ | 6,410 | 6,634 |
| SSB CURRENT (mtons) | SSB_{2011} | 18,998 | 19,645 |
| SSB CURRENT/MSST | SSB_{2011} | 2.96 | 2.96 |
| EQUILIBRIUM MSY (mtons) | Equilibrium Yield @ $F_{SPR30\%}$ | 3,149 | 3,084 |
| EQUILIBRIUM OY (mtons) | Equilibrium Yield @ F_{OY} | 2,362 | 2,313 |
| F30% SPR OFL | Annual Yield @ FMFMT (mtons) | Steepness = 0.8 | Steepness = 0.9 |
| | OFL 2013 | 6037 | 6016 |
| | OFL 2014 | 5470 | 5383 |
| | OFL 2015 | 5125 | 4983 |
| | OFL 2016 | 4914 | 4741 |
| | OFL 2017 | 4778 | 4594 |
| | OFL 2018 | 4690 | 4506 |
| | OFL 2019 | 4631 | 4451 |
| | OFL 2020 | 4591 | 4416 |
| | OFL 2021 | 4564 | 4395 |
| | OFL 2022 | 4546 | 4382 |
| Annual OY (ACT) | Annual Yield@ FOY (mtons) = 75%FMSY | | |
| | OFL 2013 | 4642 | 4623 |
| | OFL 2014 | 4392 | 4319 |
| | OFL 2015 | 4239 | 4118 |
| | OFL 2016 | 4143 | 3990 |
| | OFL 2017 | 4080 | 3908 |
| | OFL 2018 | 4038 | 3857 |
| | OFL 2019 | 4009 | 3823 |
| | OFL 2020 | 3989 | 3802 |
| | OFL 2021 | 3976 | 3788 |
| | OFL 2022 | 3966 | 3779 |
| Annual Yield | Annual Yield@Fcurrent (mtons) | | |
| | OFL 2013 | 2448 | 2438 |
| | OFL 2014 | 2473 | 2431 |
| | OFL 2015 | 2502 | 2429 |
| | OFL 2016 | 2529 | 2430 |
| | OFL 2017 | 2550 | 2431 |
| | OFL 2018 | 2566 | 2433 |
| | OFL 2019 | 2577 | 2434 |
| | OFL 2020 | 2585 | 2435 |
| | OFL 2021 | 2592 | 2436 |
| | OFL 2022 | 2596 | 2436 |

3.7 **Figures**

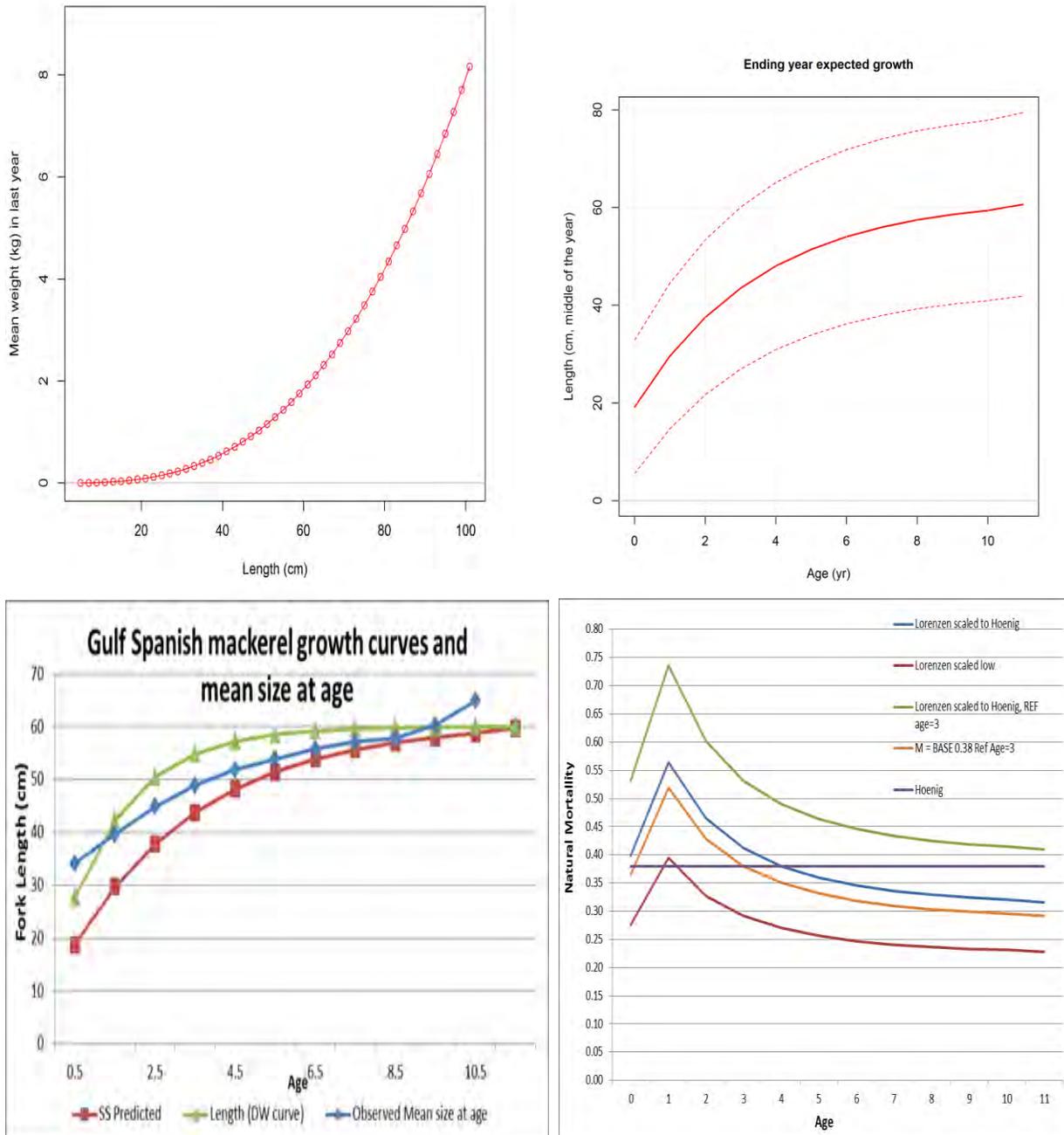


Figure 3.1. Life history characterization for Gulf of Mexico Spanish mackerel. Top Panel Left: Weight length relationship calculated using SEDAR 28 DW inputs. Top Panel Right: Estimated Von Bertalanffy SS growth curves and confidence intervals for Gulf of Mexico Spanish mackerel. Bottom Panel Left: SS estimated growth curve, growth curve estimated from SEDAR DW, and mean size at age from otolith age observations. Bottom Panel Right: Natural mortality at age used in stock assessment and input into Stock Synthesis model. The Lorenzen function scaled to Hoenig point estimate is SEDAR 28 DW Base M function ($M=0.38y^{-1}$) used in the SS stock assessment of Gulf Spanish mackerel (purple line).

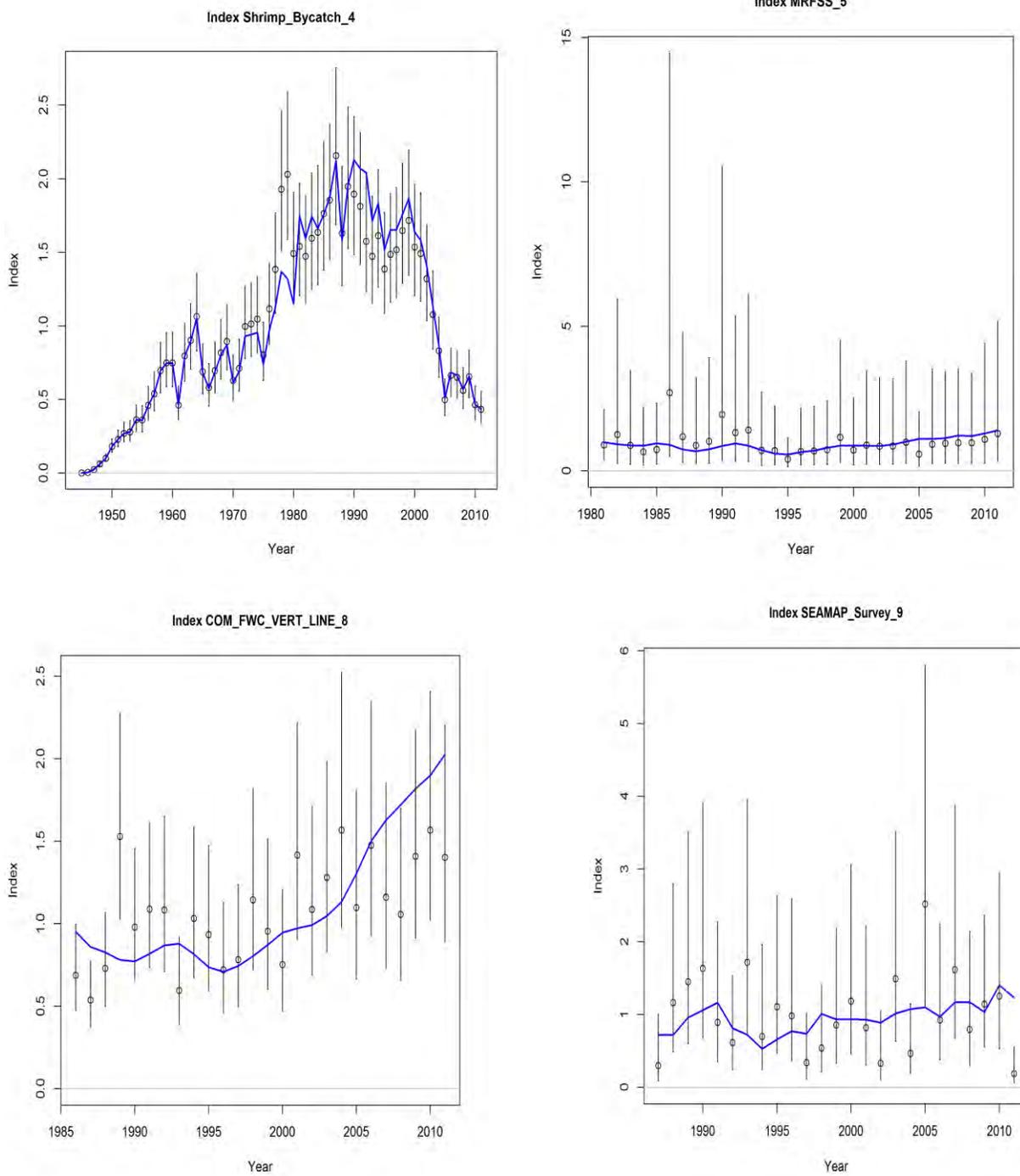
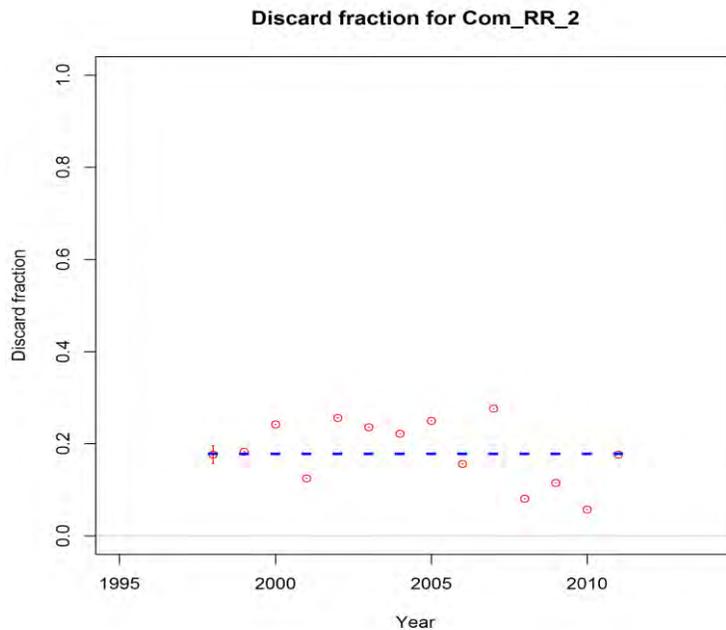


Figure 3.2. Observed and predicted index of CPUE for Gulf of Mexico Spanish mackerel from SS Model 3. Indices include the shrimp fishery effort series (Shrimp_Bycatch_4), the recreational (MRFSS), the commercial line gear (COM_FWC_VERT_Line), and the SEAMAP trawl survey (SEAMAP_Survey). Error bars represent the observed log-scale standard errors.

A. COM_RR



B. REC

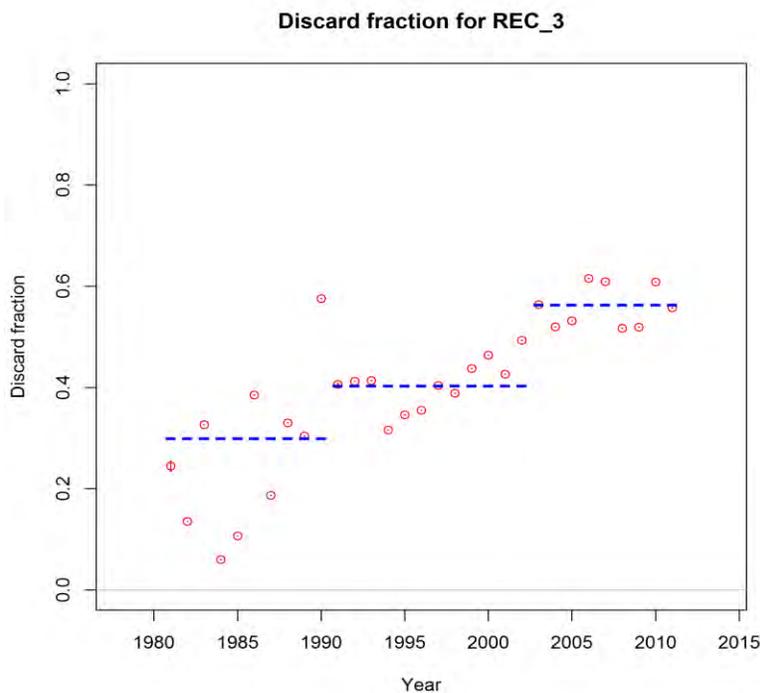


Figure 3.3a and b. SS input super period discard fraction for commercial line gear (COM_RR) and the recreational all modes (REC) fleets plotted against observed discard fraction. Super period definitions were: one period 1998-2011 for the commercial line gear fleet (COM_RR) and three (3) super periods for the recreational all modes (REC) fleet: 1892-1989, 1990-2002, and 2003-2011.

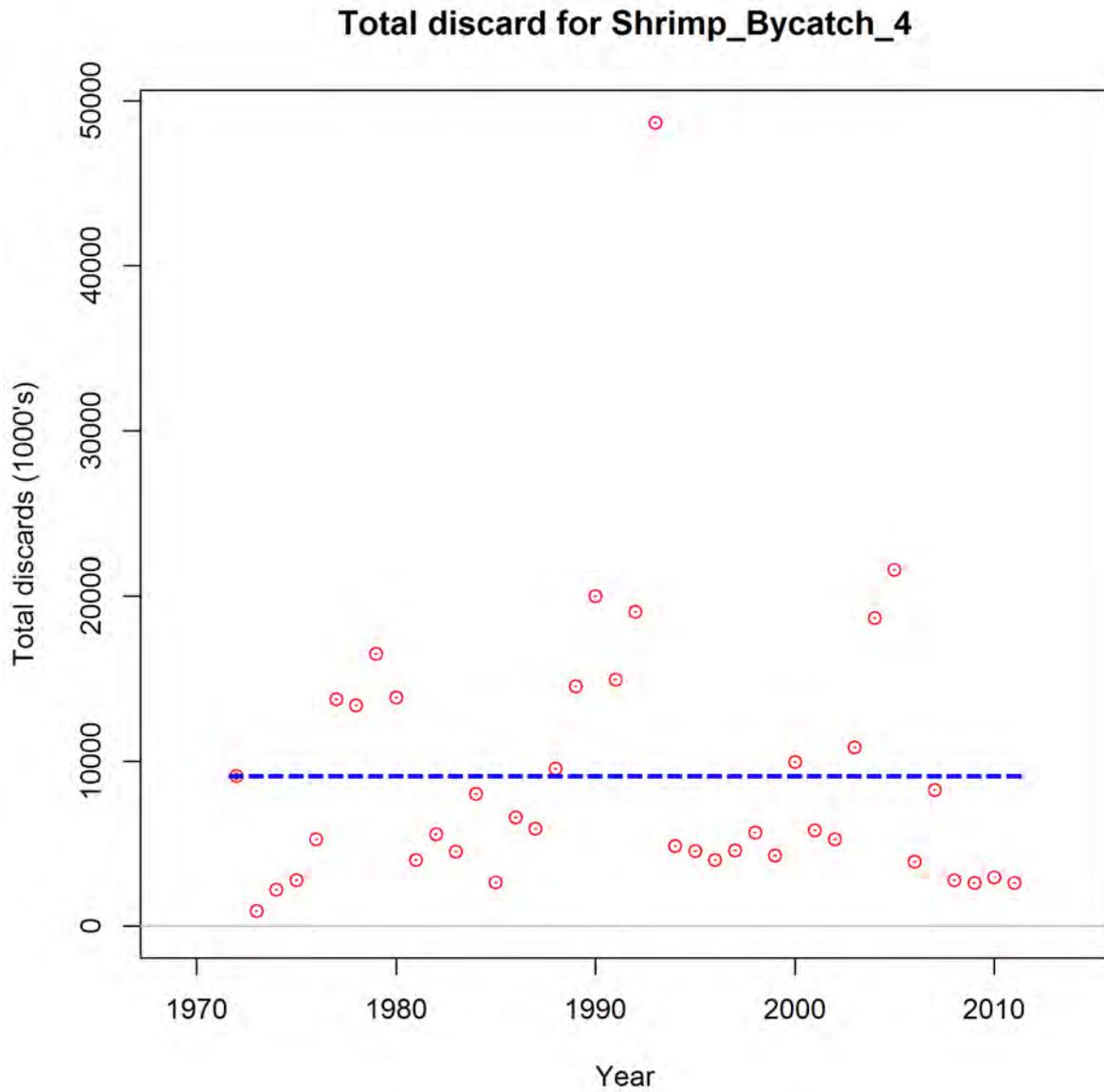


Figure 3.3c. SS input super period discards (thousands of fish) for the shrimp fishery bycatch against observed discards. One single super period (1972-2011) was specified for the shrimp bycatch fleet.

length comps, sexes combined, retained, Com_GN_1

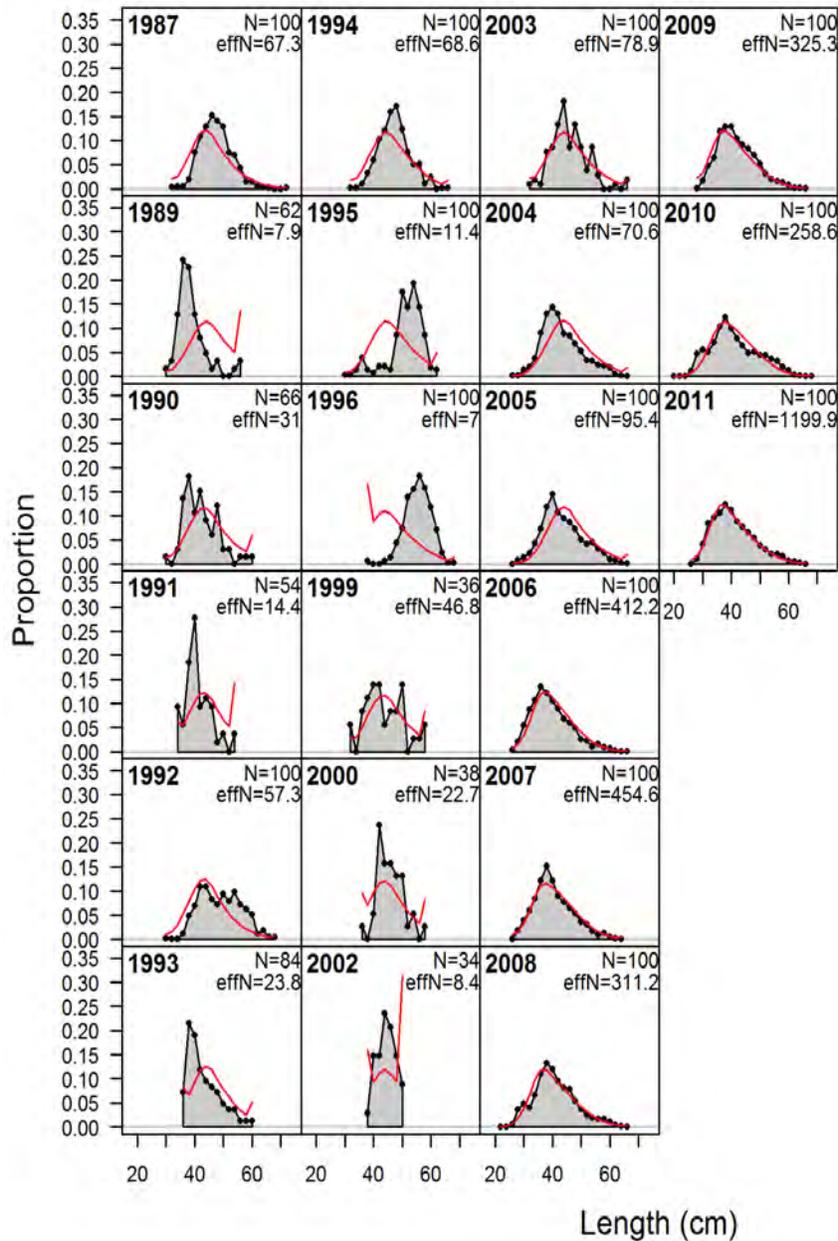


Figure 3.4. Observed and predicted (lines) length compositions for Gulf of Mexico Spanish mackerel commercial gillnet fishery from SS Base Run. Observed (N) sample sizes and effective sample sizes (effN) estimated by SS are also reported. Observed sample sizes were capped at a maximum of 100 fish.

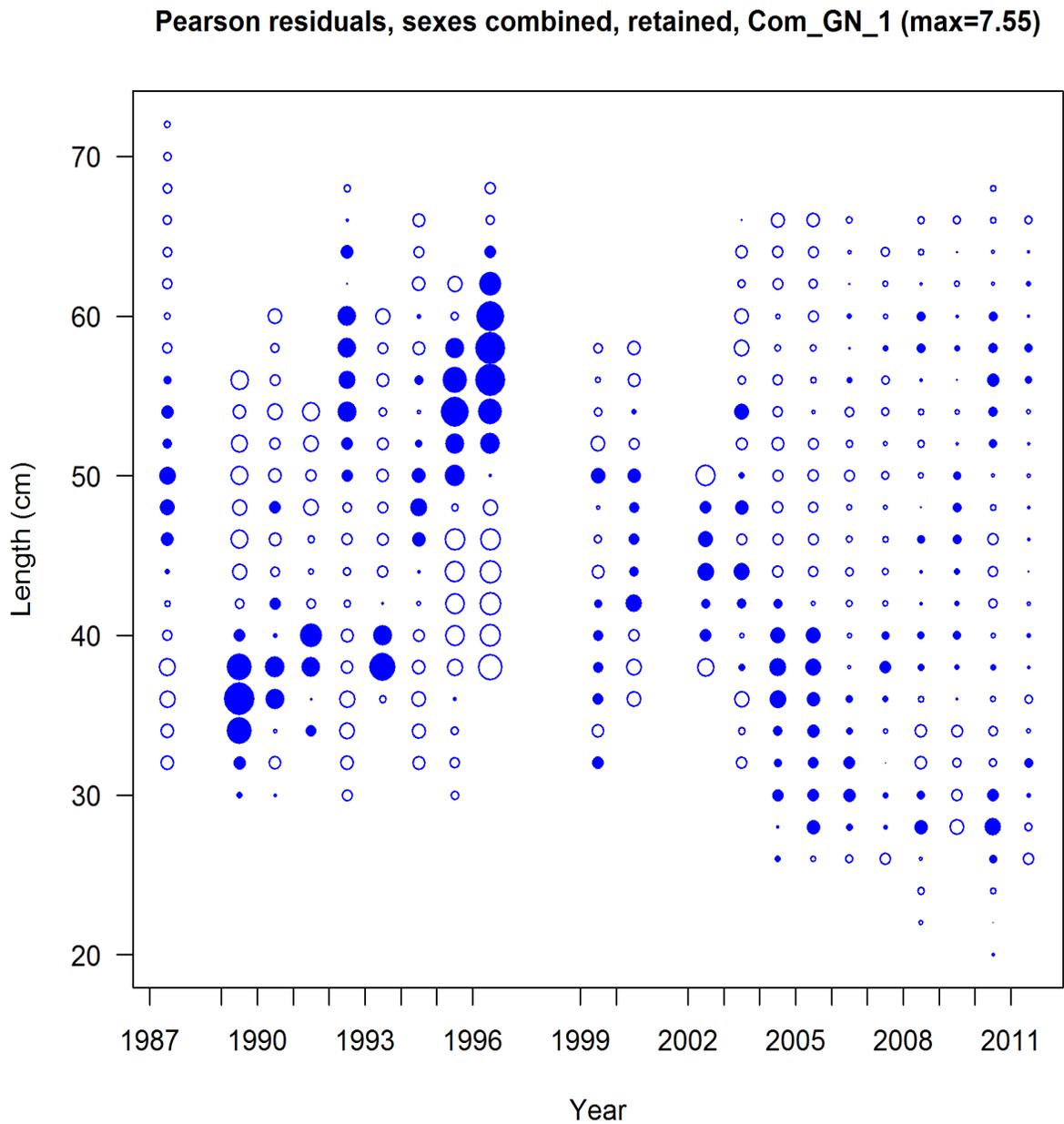


Figure 3.5. Pearson residuals of length composition fits for Gulf of Mexico Spanish mackerel in the commercial gillnet gear fishery from SS Base Run. Solid circles are positive residuals (i.e., observed greater than predicted) and open circles are negative residuals (i.e., predicted greater than observed).

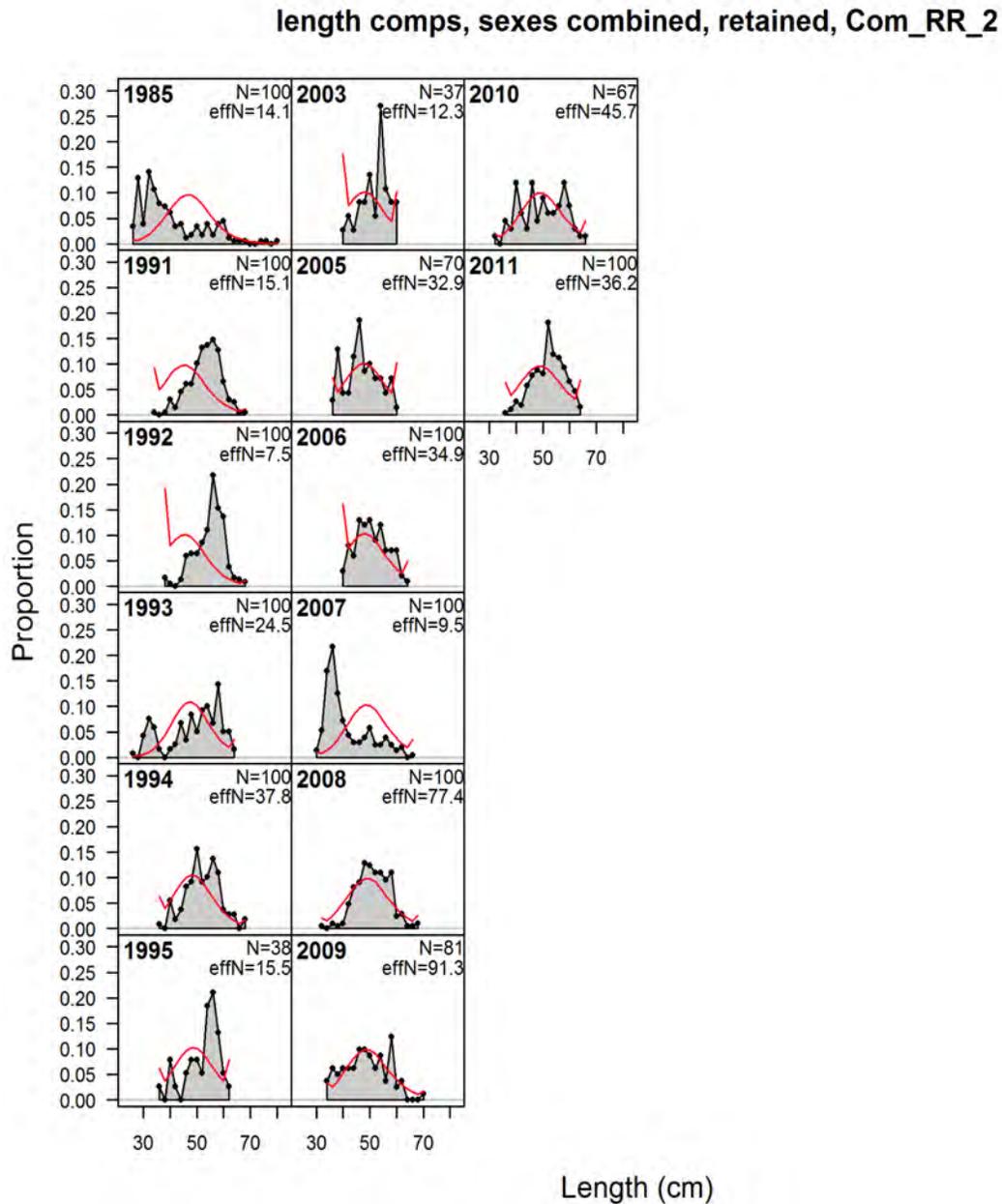


Figure 3.6. Observed and predicted (lines) length compositions for Gulf of Mexico Spanish mackerel commercial lie gear fishery (COM_RR) from SS Base Run. Observed (N) sample sizes and effective sample sizes (effN) estimated by SS are also reported. Observed sample sizes were capped at a maximum of 100 fish.

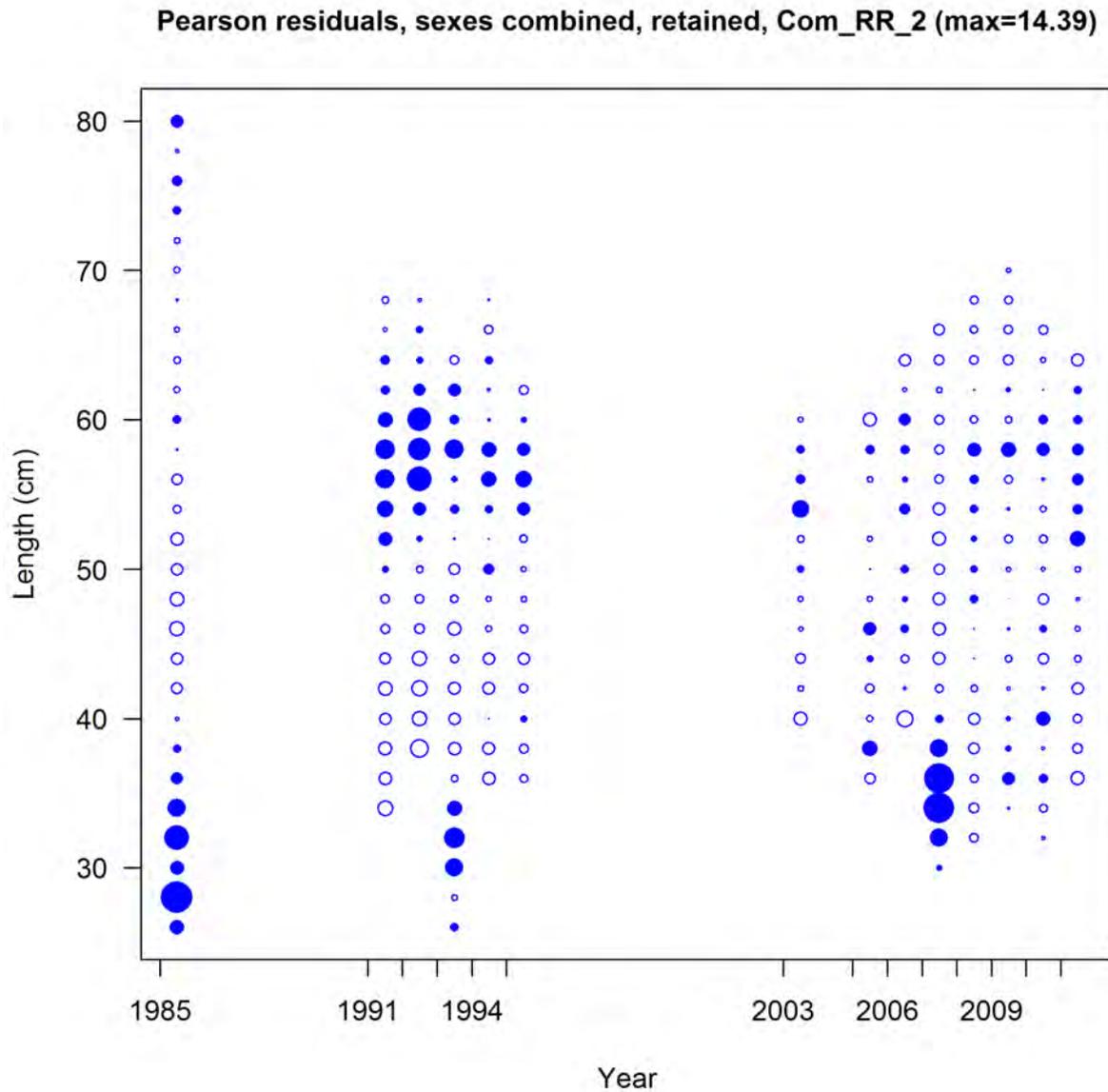


Figure 3.7. Pearson residual distributions of length composition fits for Gulf of Mexico Spanish mackerel in the commercial line gear fishery (COM_RR) from SS Base Run. Solid circles are positive residuals (i.e., observed greater than predicted) and open circles are negative residuals (i.e., predicted greater than observed).

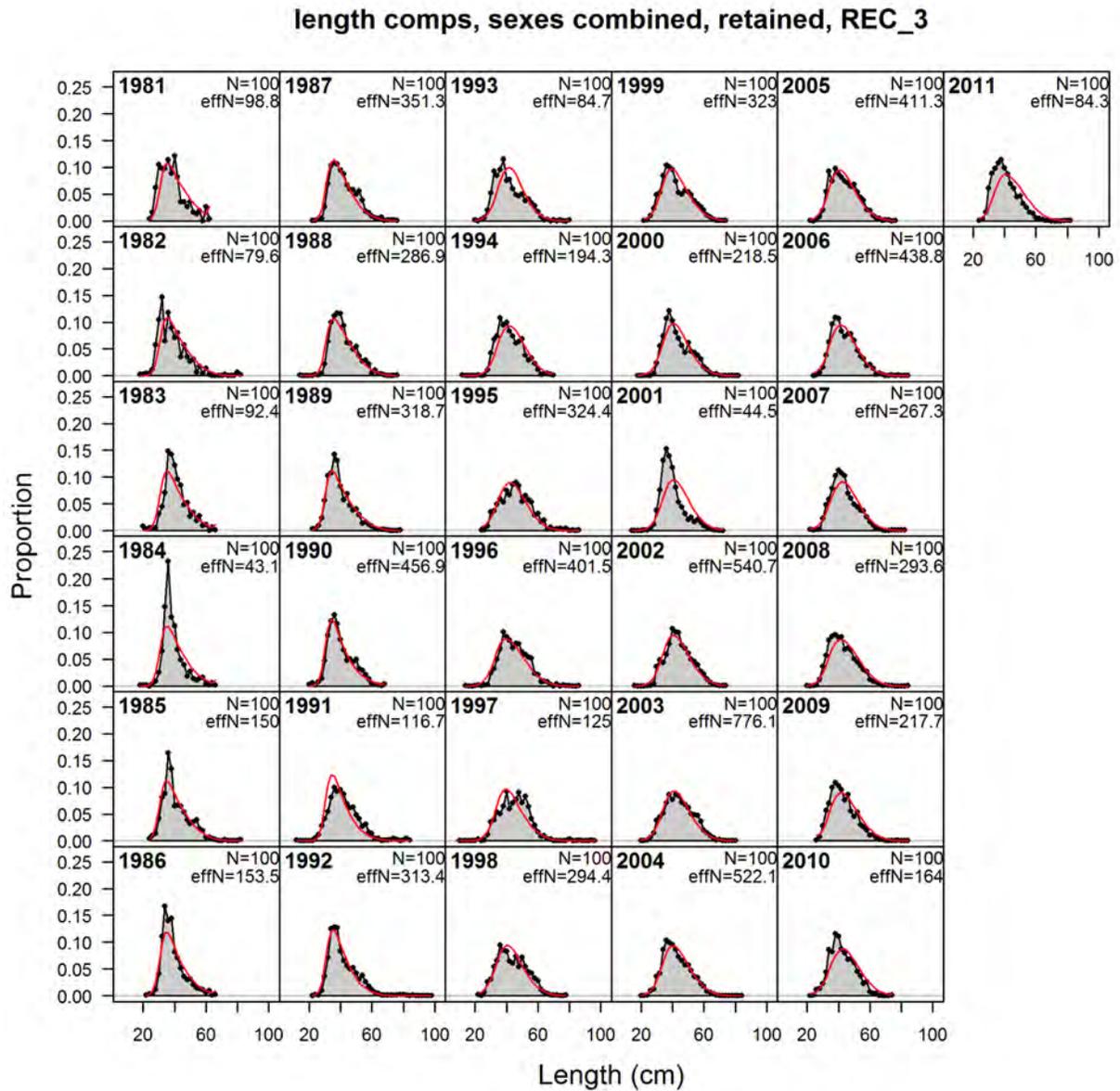


Figure 3. 8. Observed and predicted (lines) length compositions for Gulf of Mexico Spanish mackerel recreational all modes fishery from SS Base Run. Observed (N) sample sizes and effective sample sizes (effN) estimated by SS are also reported. Observed sample sizes were capped at a maximum of 100 fish.

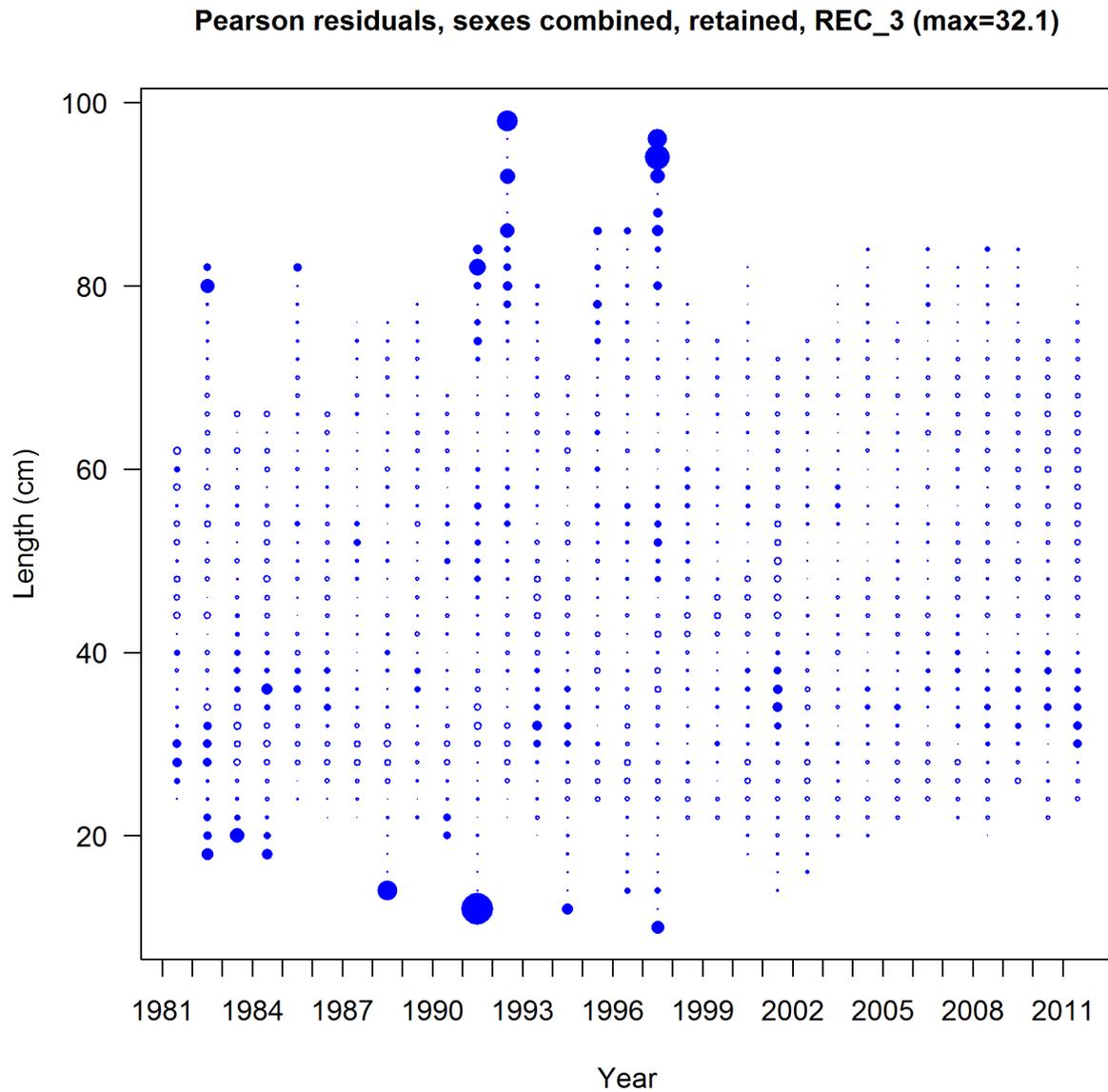


Figure 3.9. Pearson residual of length composition fits for Gulf of Mexico Spanish mackerel in the recreational all modes fishery from SS Base Run. Solid circles are positive residuals (i.e., observed greater than predicted) and open circles are negative residuals (i.e., predicted greater than observed).

length comps, sexes combined, whole catch, SEAMAP_Survey_9

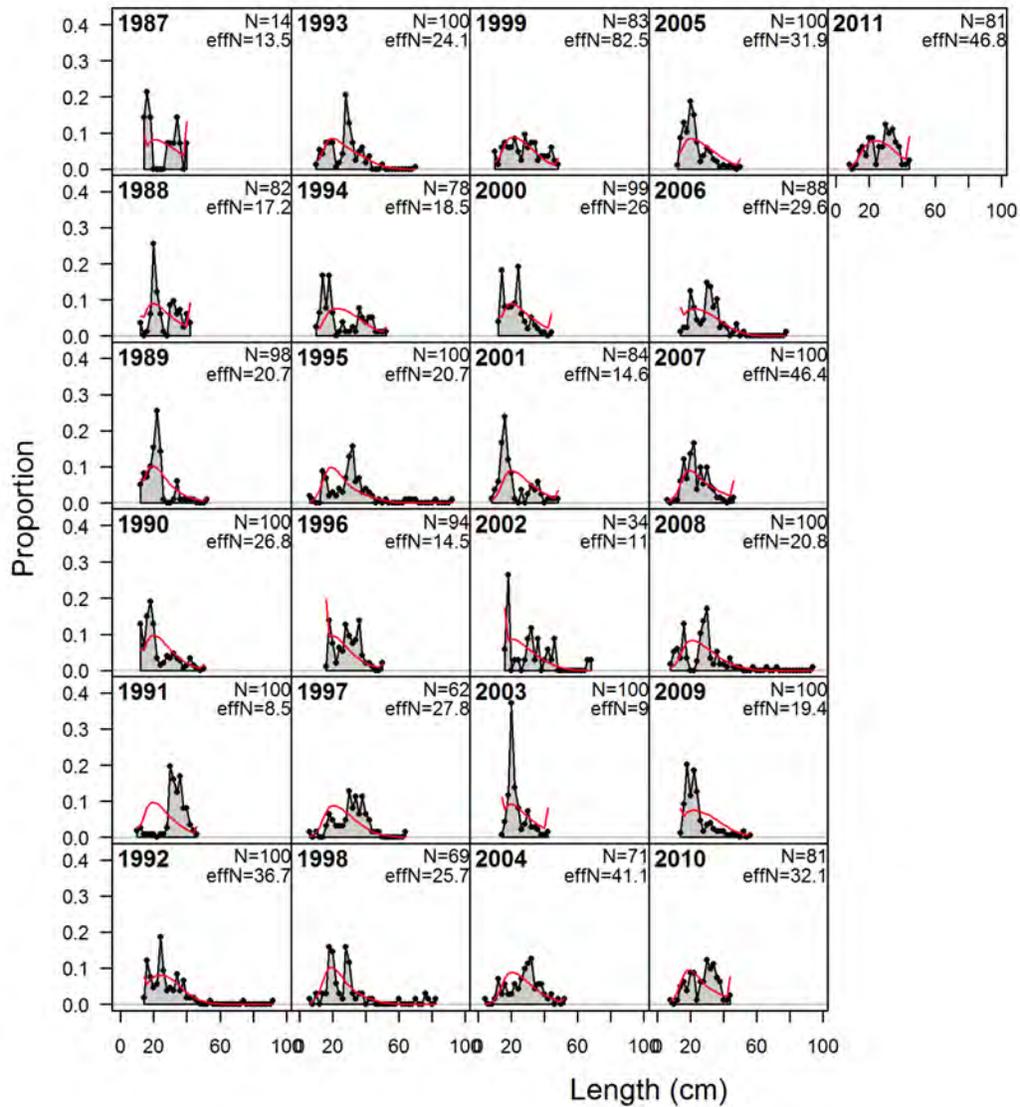


Figure 3.10. Observed and predicted (lines) length compositions for Gulf of Mexico Spanish mackerel from the SEAMAP trawl survey SS Base Run. Observed (N) sample sizes and effective sample sizes (effN) estimated by SS are also reported. Observed sample sizes were capped at a maximum of 100 fish.

Pearson residuals, sexes combined, whole catch, SEAMAP_Survey_9 (max=298.37)

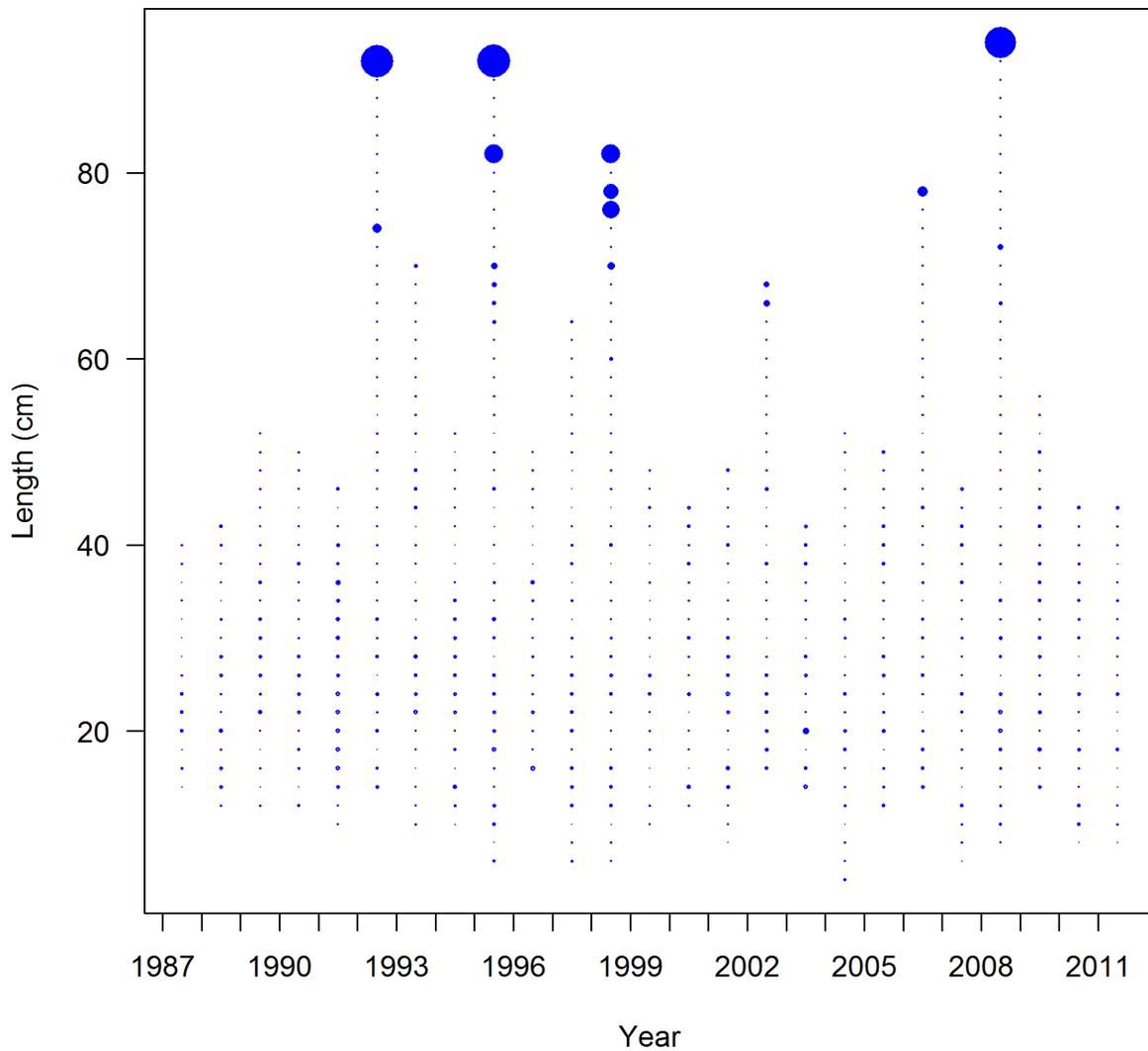


Figure 3.11. Pearson residuals of length composition fits for Gulf of Mexico Spanish mackerel in the SEAMAP trawl survey from SS Base Run. Solid circles are positive residuals (i.e., observed greater than predicted) and open circles are negative residuals (i.e., predicted greater than observed).

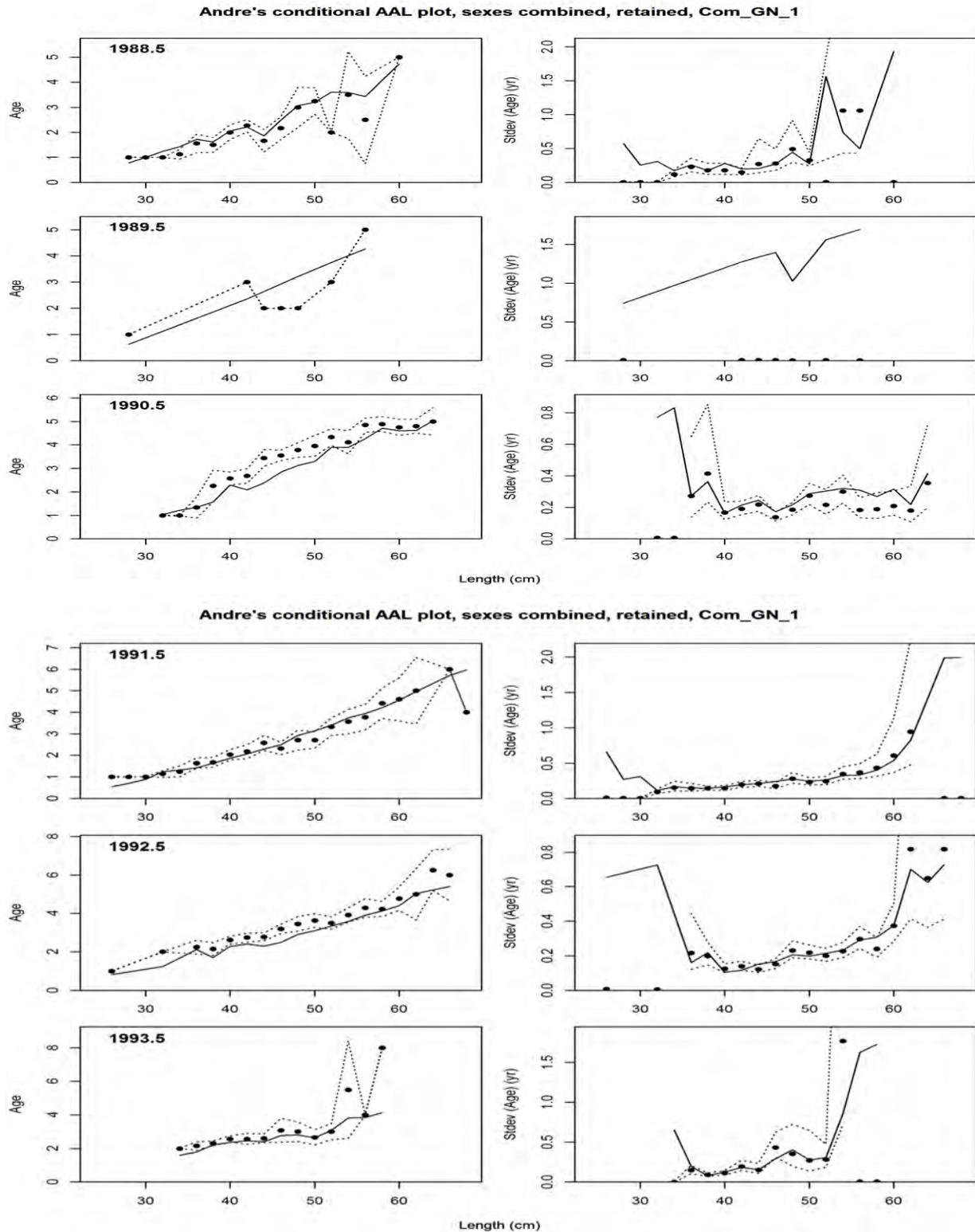


Figure 3.12. Conditional age composition fits for Gulf of Mexico Spanish mackerel from SS Run Base1 1988 – 1993 for the COM_GN fleet. Left panel is estimated age at length at 2cm fork length bin. Right panel is estimated standard deviation of age at 2 cm fork length bin.

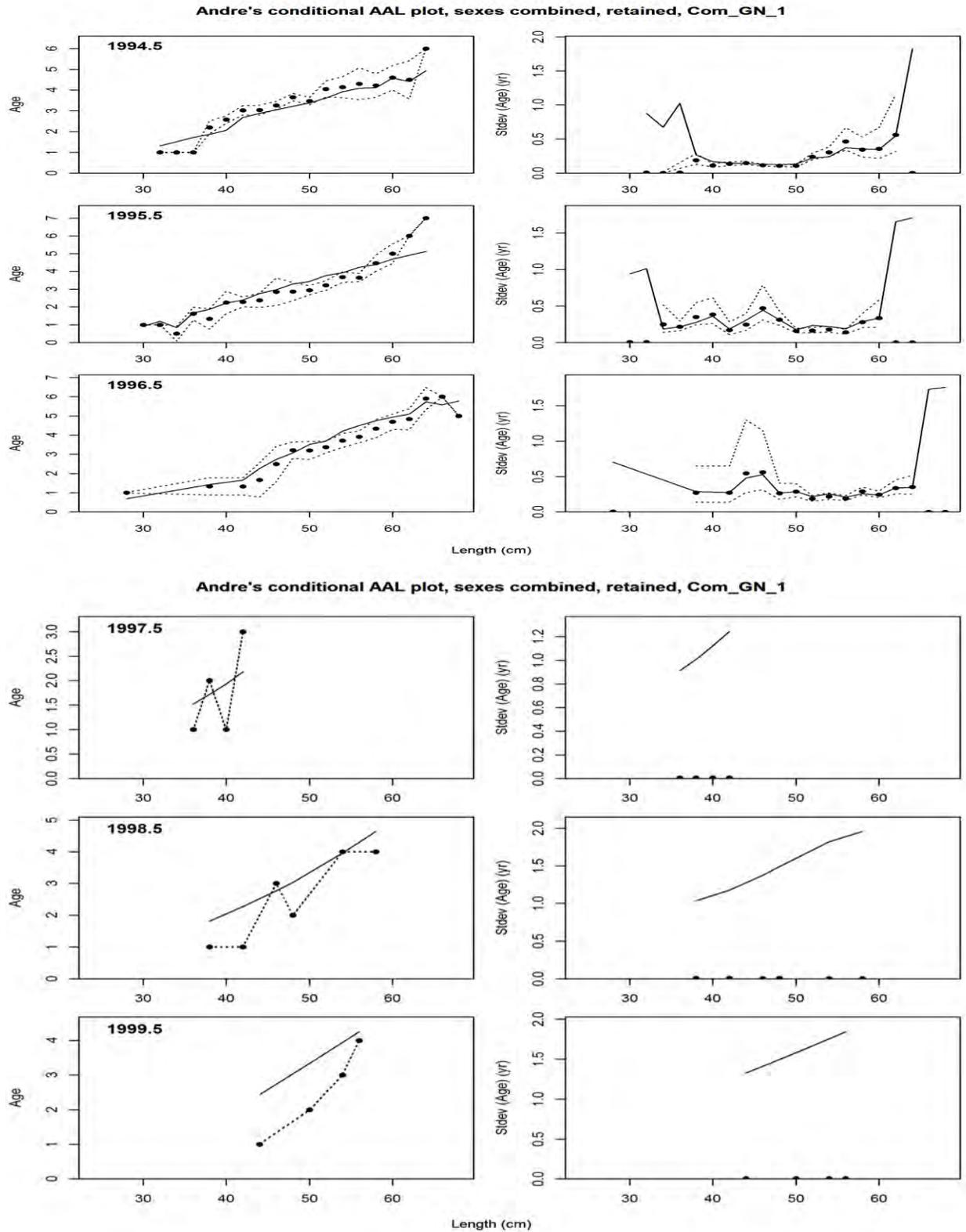


Figure 3.13. Conditional age composition fits for Gulf of Mexico Spanish mackerel from SS Run Base1 1994-1995 for the COM_GN fleet. . Left panel is estimated age at length at 2cm fork length bin. Right panel is estimated standard deviation of age at 2 cm fork length bin.

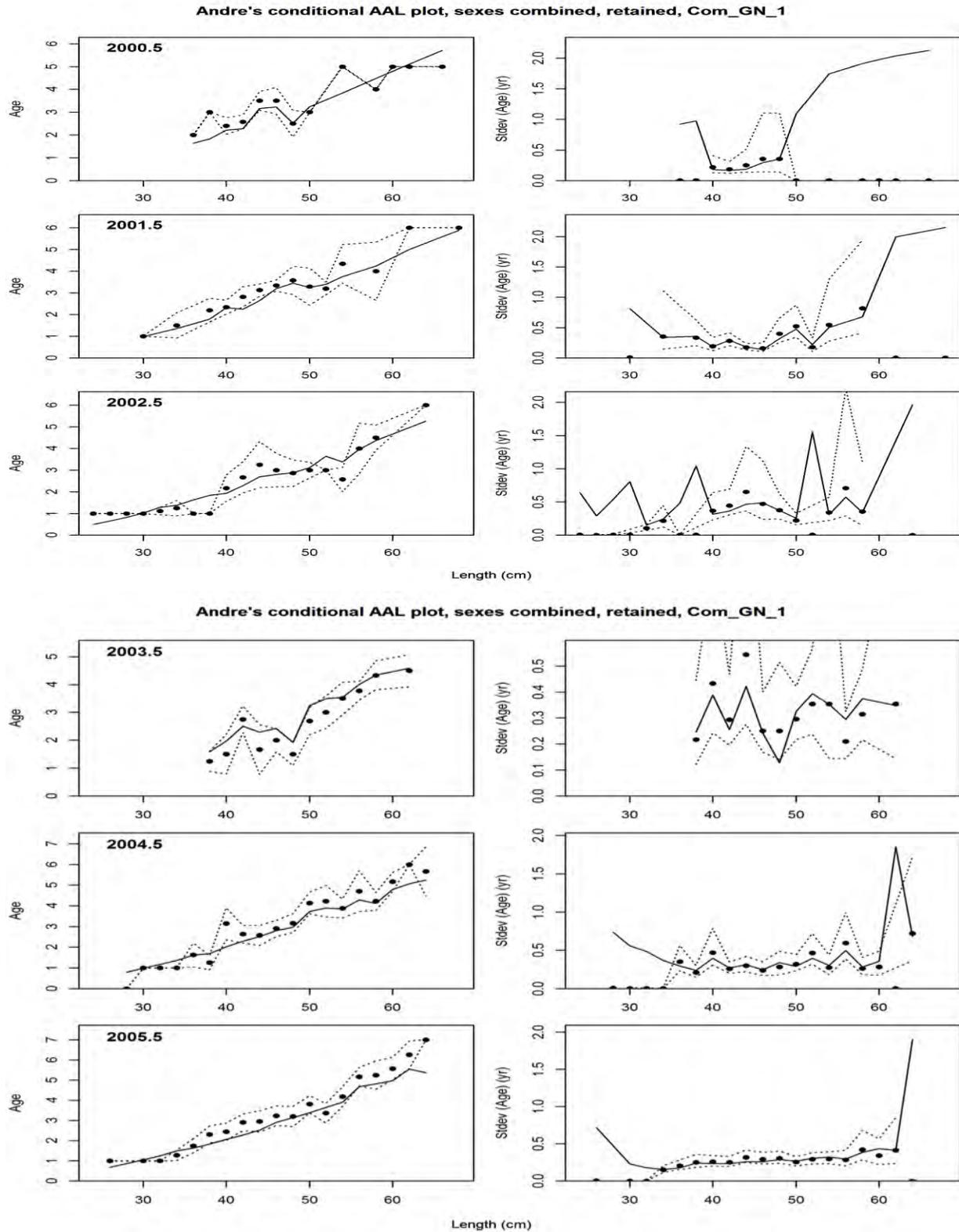


Figure 3.14. Conditional age composition fits for Gulf of Mexico Spanish mackerel from SS Run Base1 2000-2005 for the COM_GN fleet. Left panel is estimated age at length at 2cm fork length bin. Right panel is estimated standard deviation of age at 2 cm fork length bin.

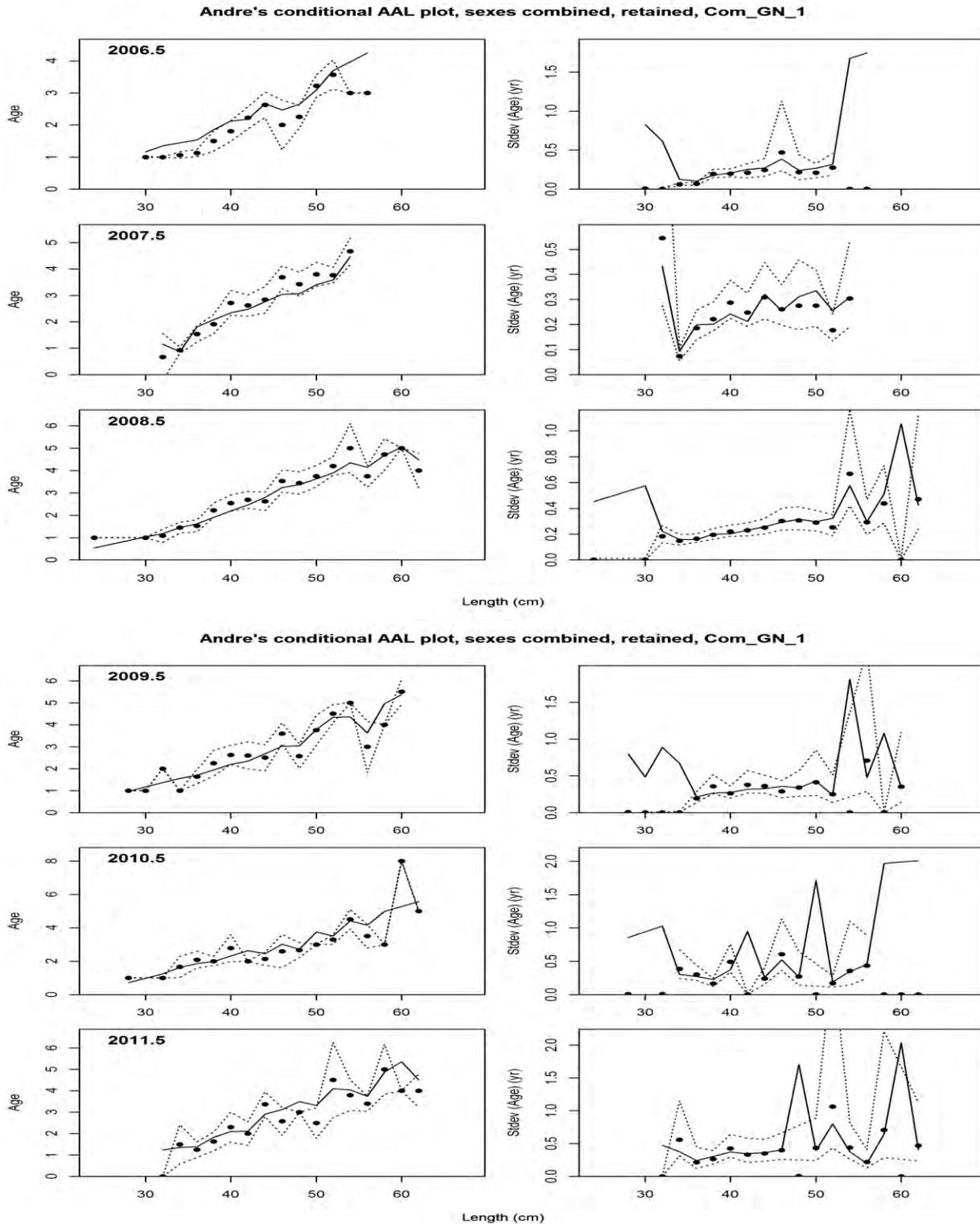


Figure 3.15. Conditional age composition fits for Gulf of Mexico Spanish mackerel from SS Run Base1 2006-2011 for the COM_GN fleet. Left panel is estimated age at length at 2cm fork length bin. Right panel is estimated standard deviation of age at 2 cm fork length bin.

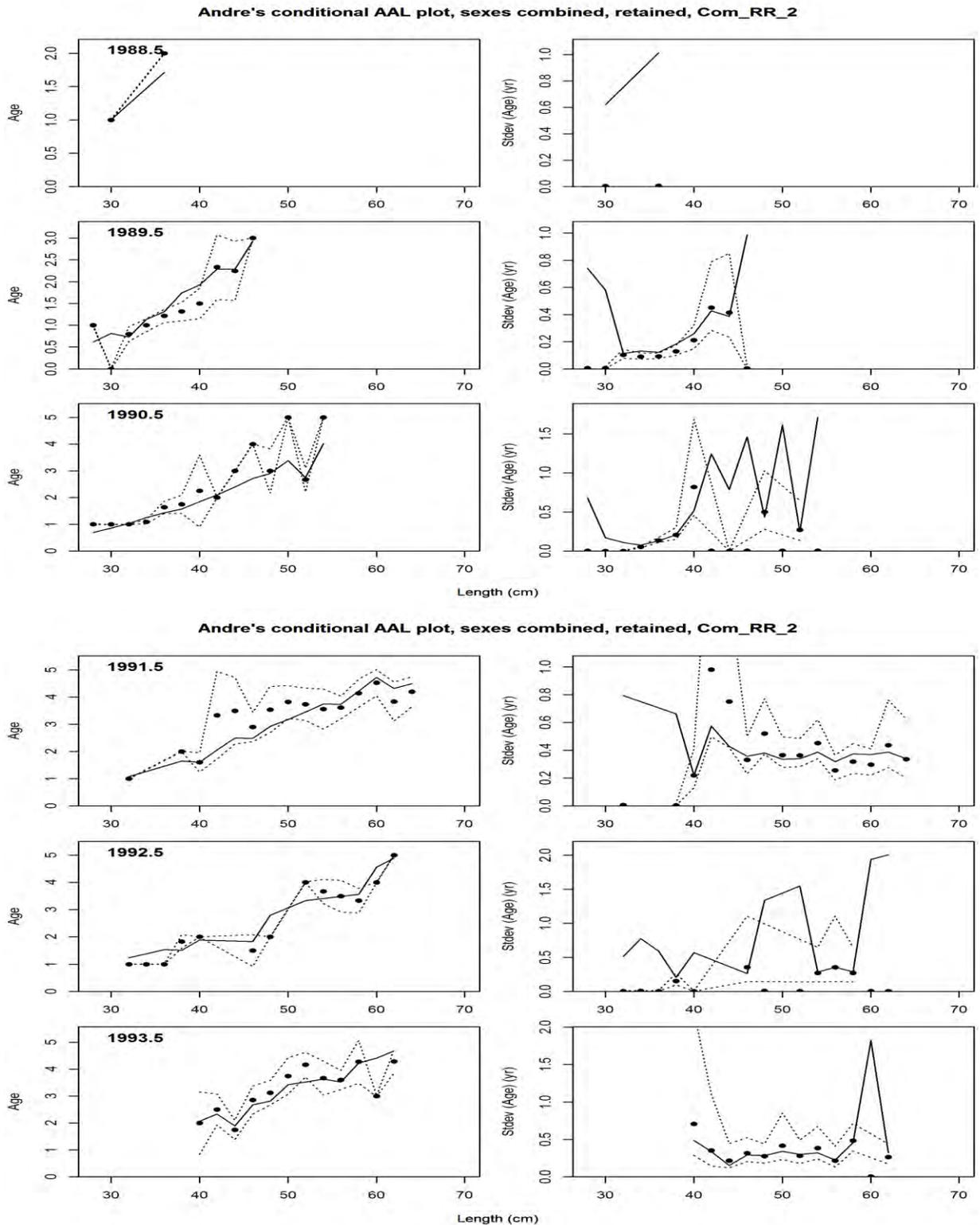


Figure 3.16. Conditional age composition fits for Gulf of Mexico Spanish mackerel from SS Run Base1 1988--1993 for the COM_RR fleet. Left panel is estimated age at length at 2cm fork length bin. Right panel is estimated standard deviation of age at 2 cm fork length bin.

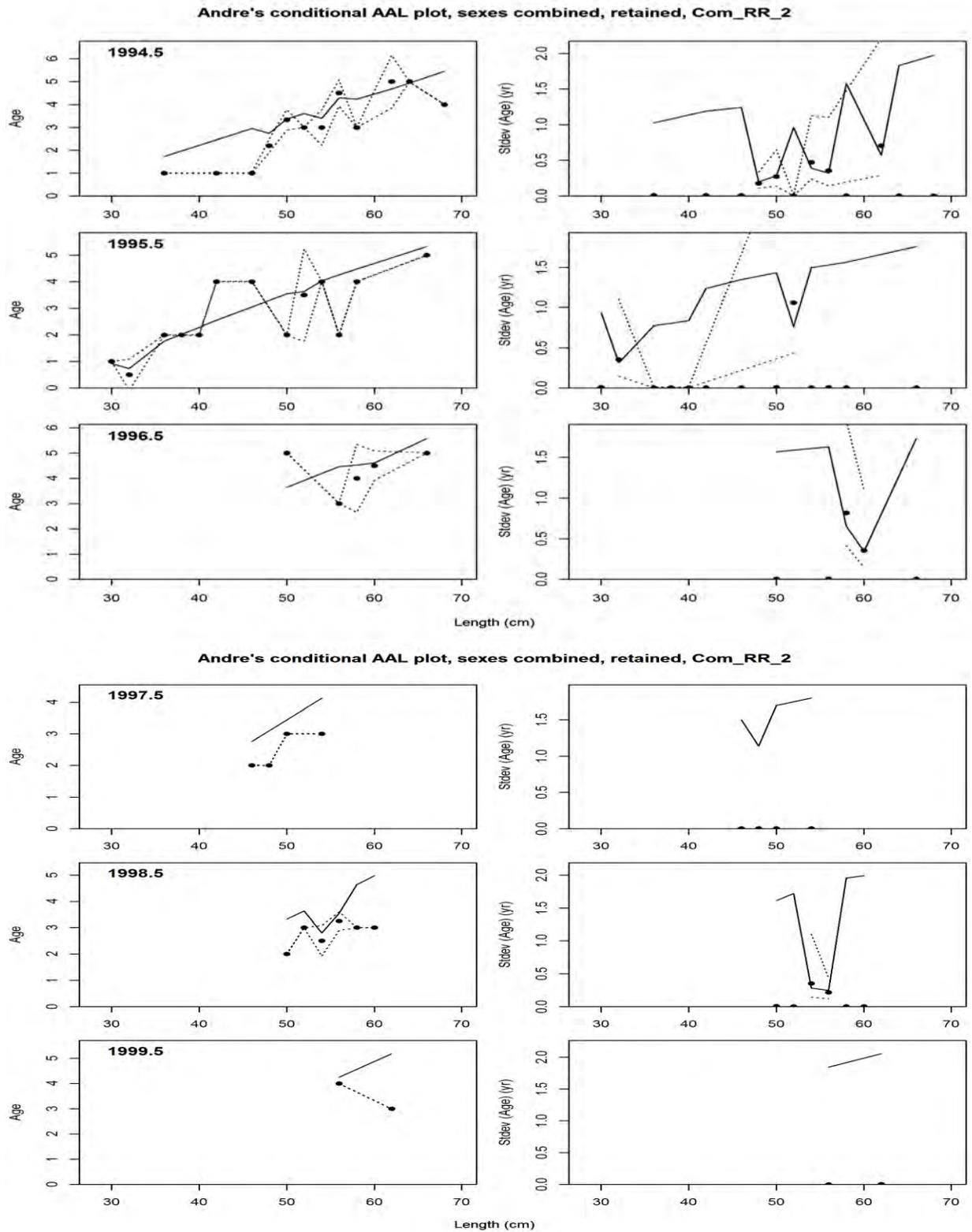


Figure 3.17. Conditional age composition fits for Gulf of Mexico Spanish mackerel from SS Run Base1 1994--1999 for the COM_RR fleet. Left panel is estimated age at length at 2cm fork length bin. Right panel is estimated standard deviation of age at 2 cm fork length bin.

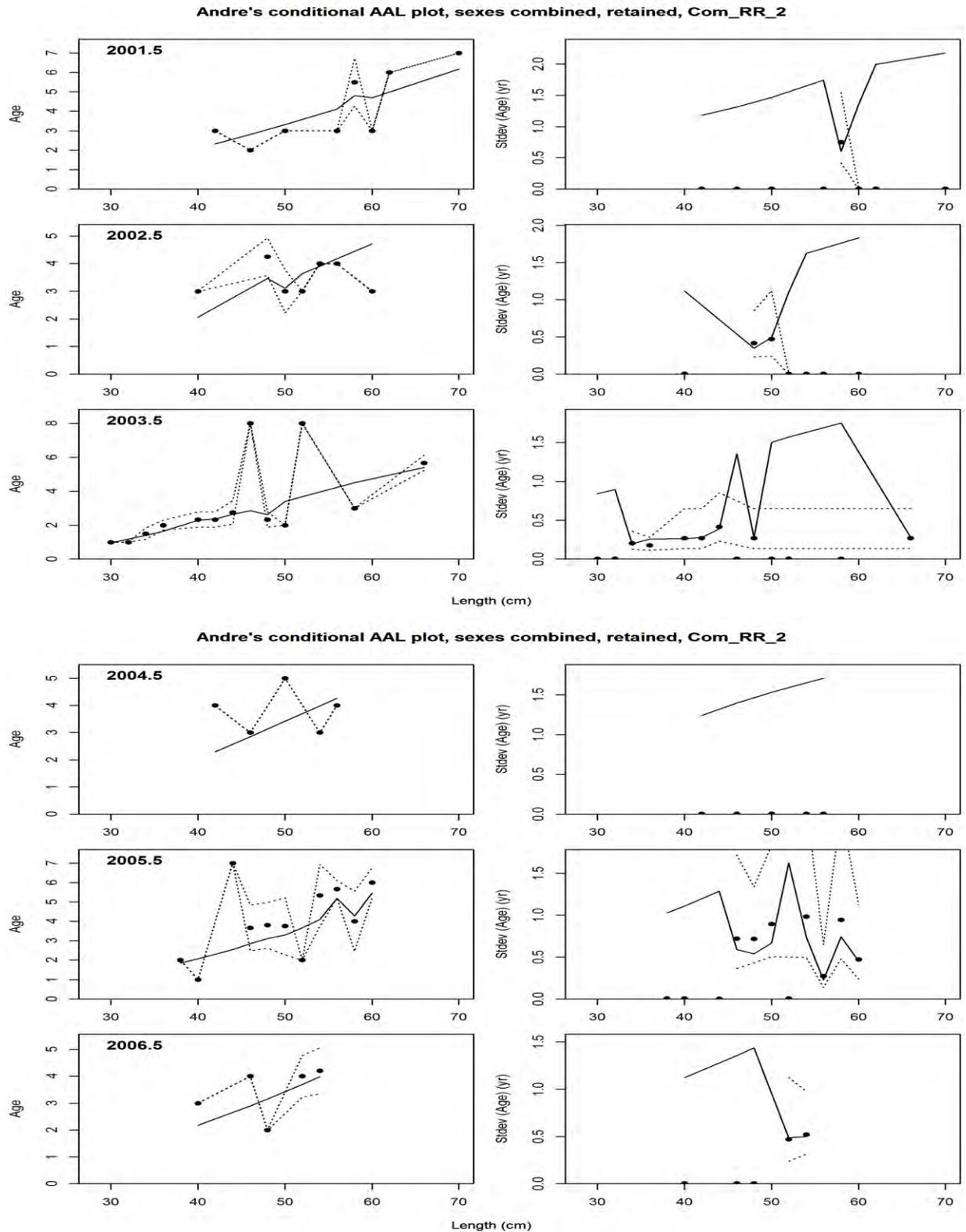


Figure 3.18. Conditional age composition fits for Gulf of Mexico Spanish mackerel from SS Run Base1 2001-2006 for the COM_RR fleet. Left panel is estimated age at length at 2cm fork length bin. Right panel is estimated standard deviation of age at 2 cm fork length bin.

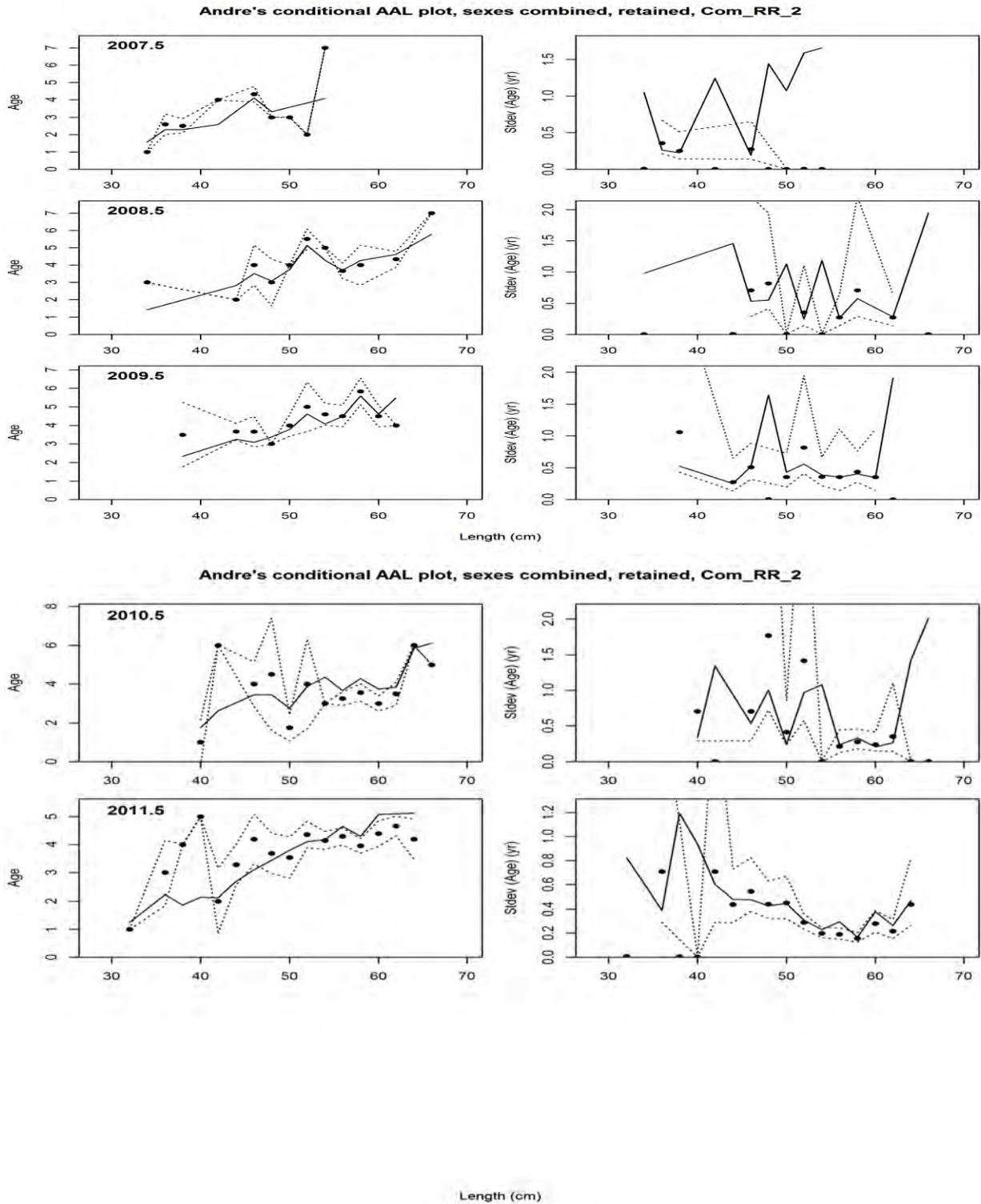


Figure 3.19. Conditional age composition fits for Gulf of Mexico Spanish mackerel from SS Run Base1 2007-2011 for the COM_RR fleet. Left panel is estimated age at length at 2cm fork length bin. Right panel is estimated standard deviation of age at 2 cm fork length bin.

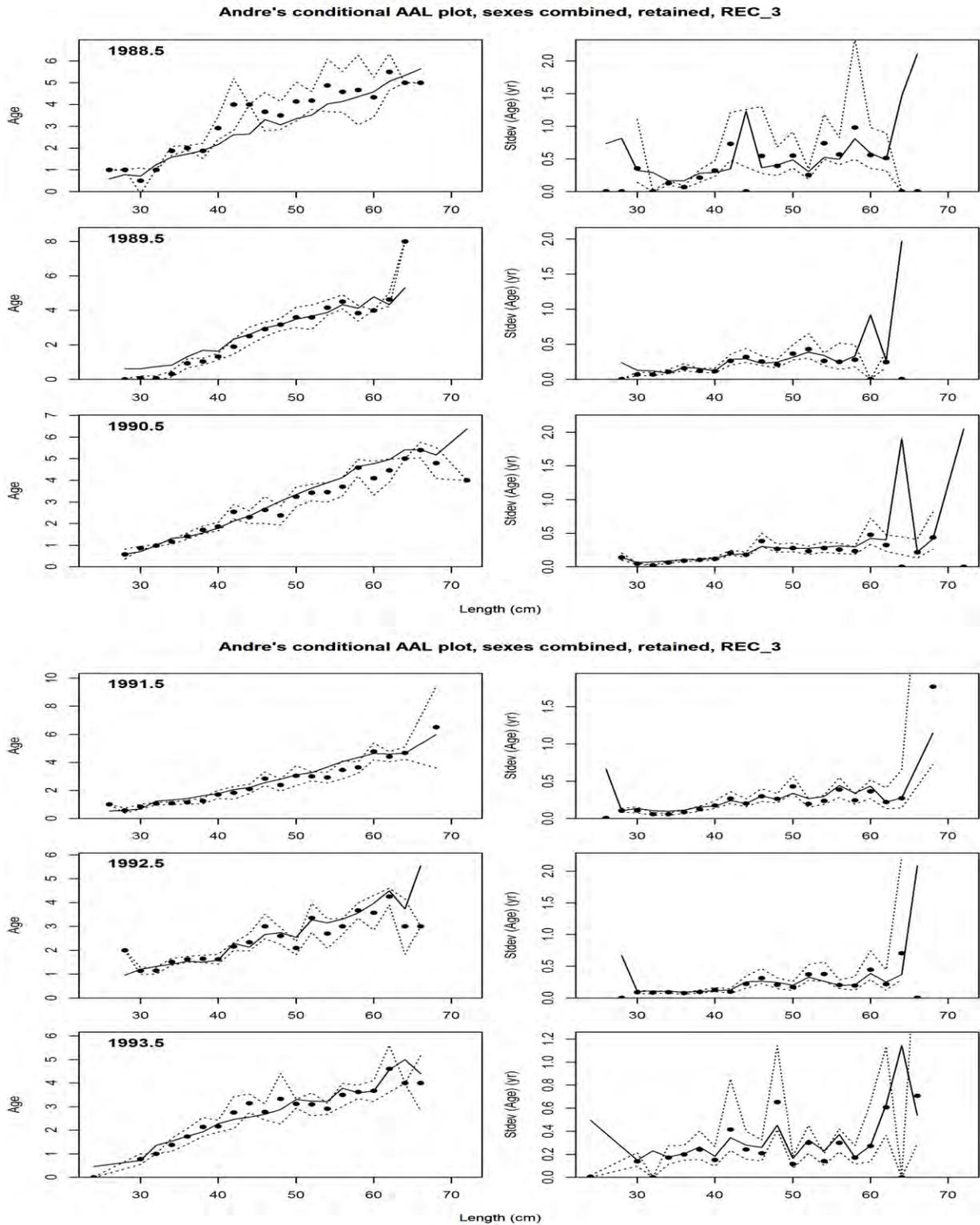


Figure 3.20. Conditional age composition fits for Gulf of Mexico Spanish mackerel from SS Run Base1 1988-1993 for the REC all modes . Left panel is estimated age at length at 2cm fork length bin. Right panel is estimated standard deviation of age at 2 cm fork length bin.

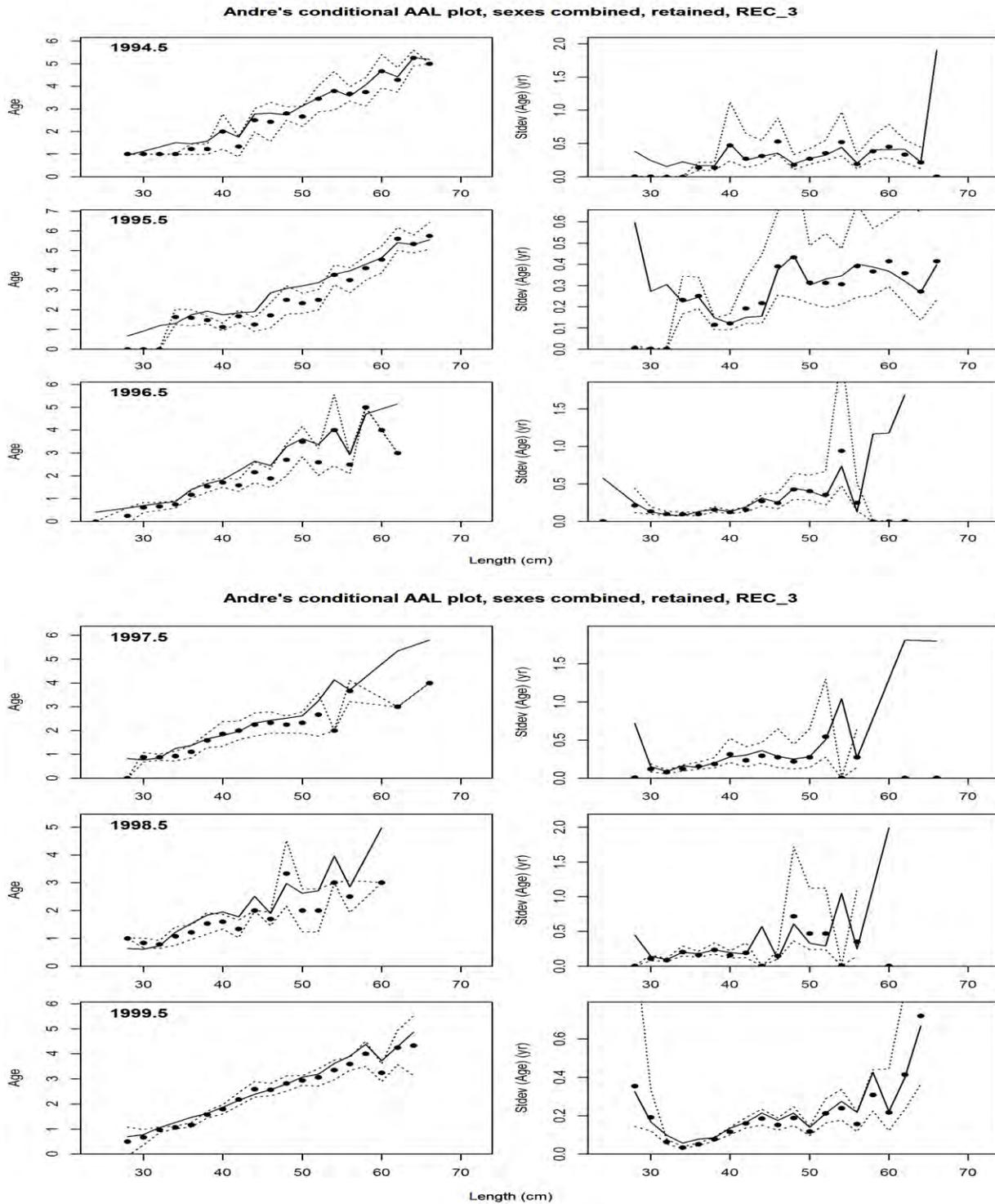


Figure 3.21. Conditional age composition fits for Gulf of Mexico Spanish mackerel from SS Run Base 1994-19991 for the REC all modes fleet. Left panel is estimated age at length at 2cm fork length bin. Right panel is estimated standard deviation of age at 2 cm fork length bin.

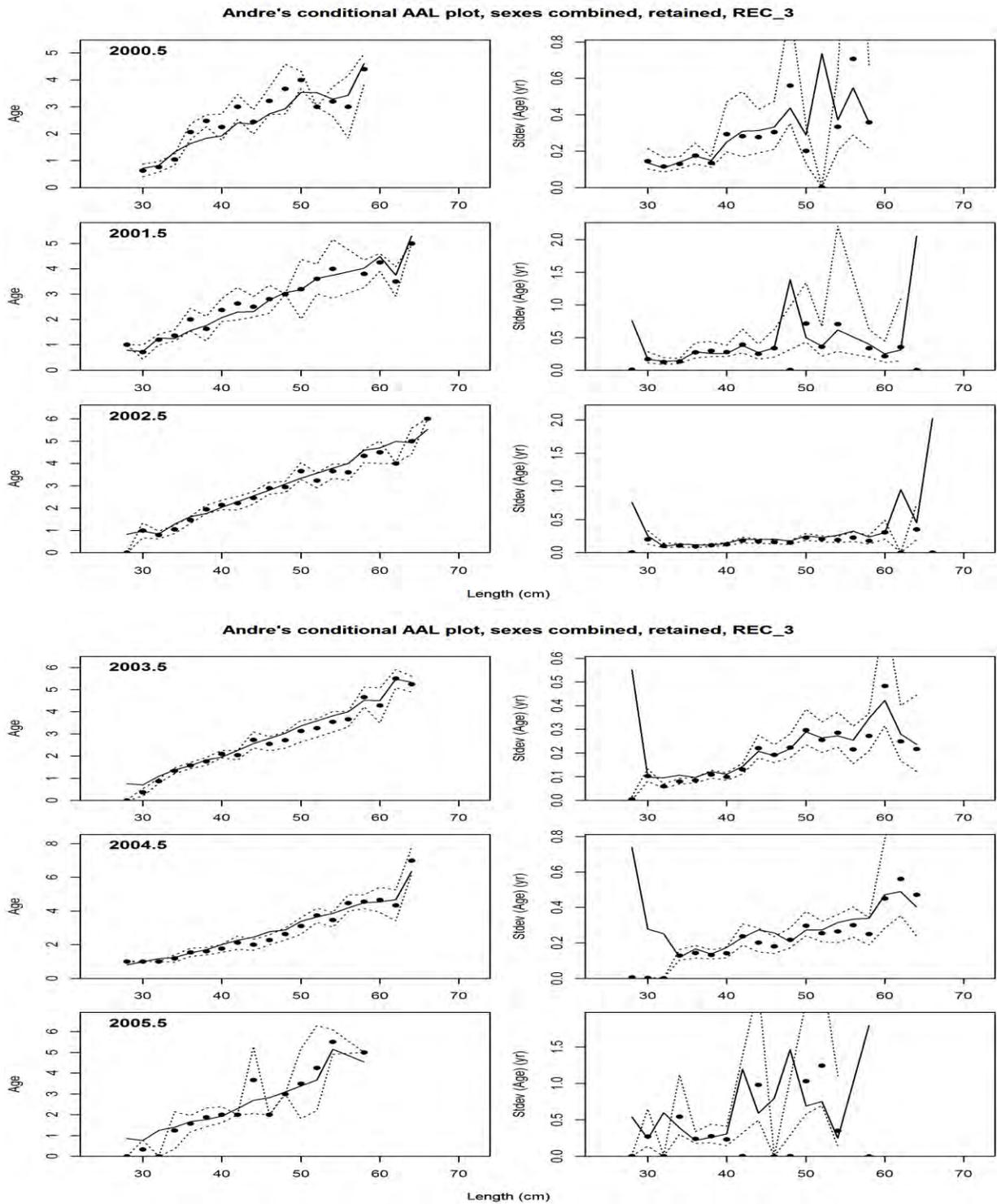


Figure 3.22. Conditional age composition fits for Gulf of Mexico Spanish mackerel from SS Run Base1 2000-2005 for the REC all modes fleet. Left panel is estimated age at length at 2cm fork length bin. Right panel is estimated standard deviation of age at 2 cm fork length bin.

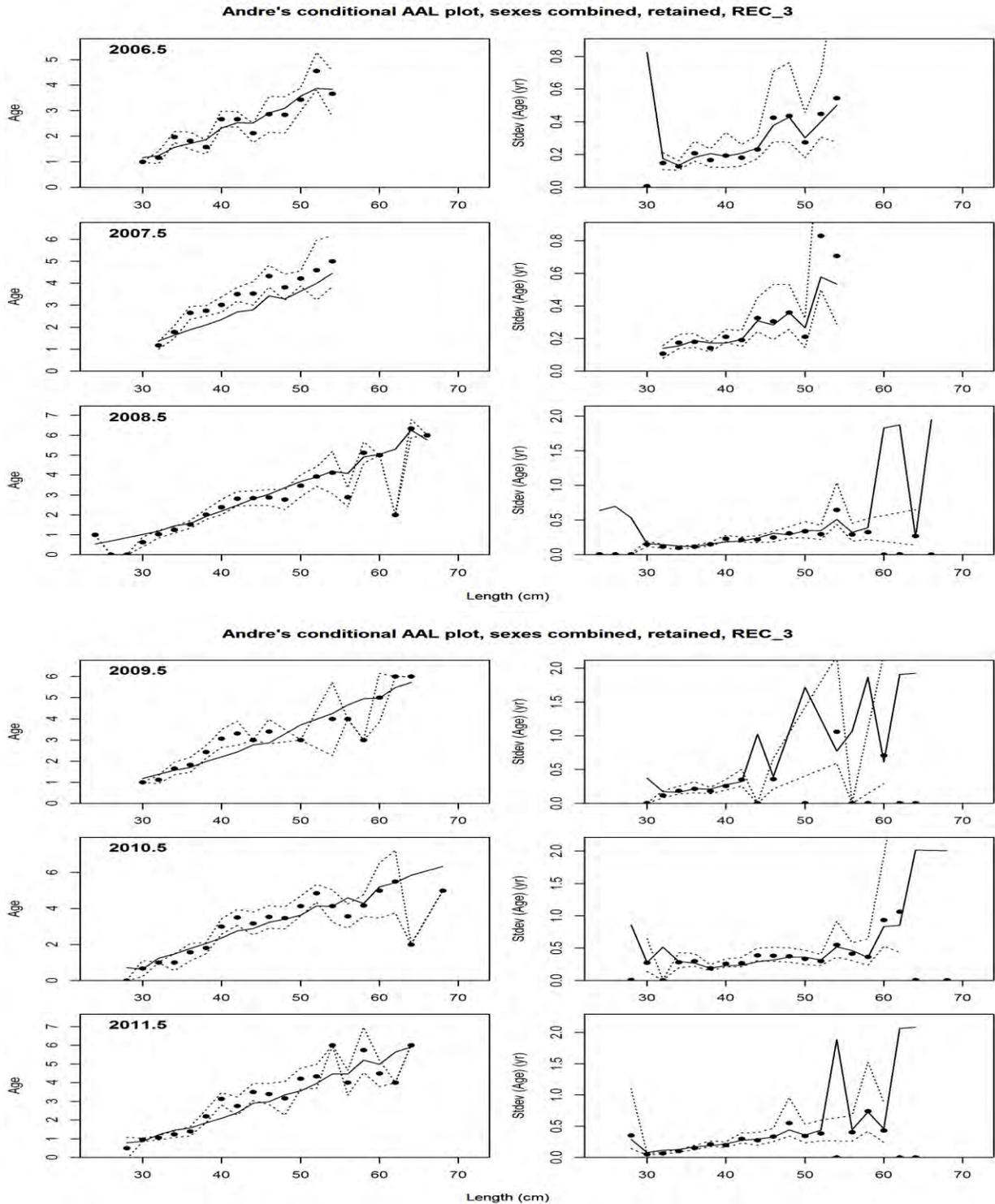


Figure 3.23. Conditional age composition fits for Gulf of Mexico Spanish mackerel from SS Run Base1 2007-2011. for the REC all modes fleet. Left panel is estimated age at length at 2cm fork length bin. Right panel is estimated standard deviation of age at 2 cm fork length bin.

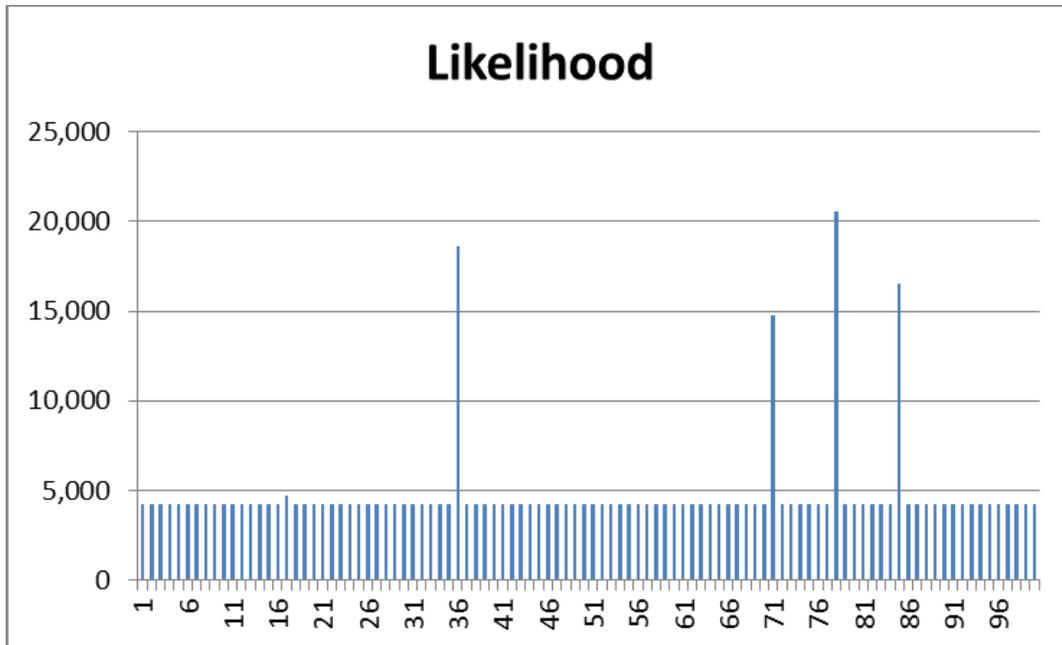


Figure 3.24. Summary results for model likelihood estimate for 100 jitter runs from the SS stock assessment model Run 3 (steepness = 0.8, M=0.38) for Gulf of Mexico Spanish mackerel.

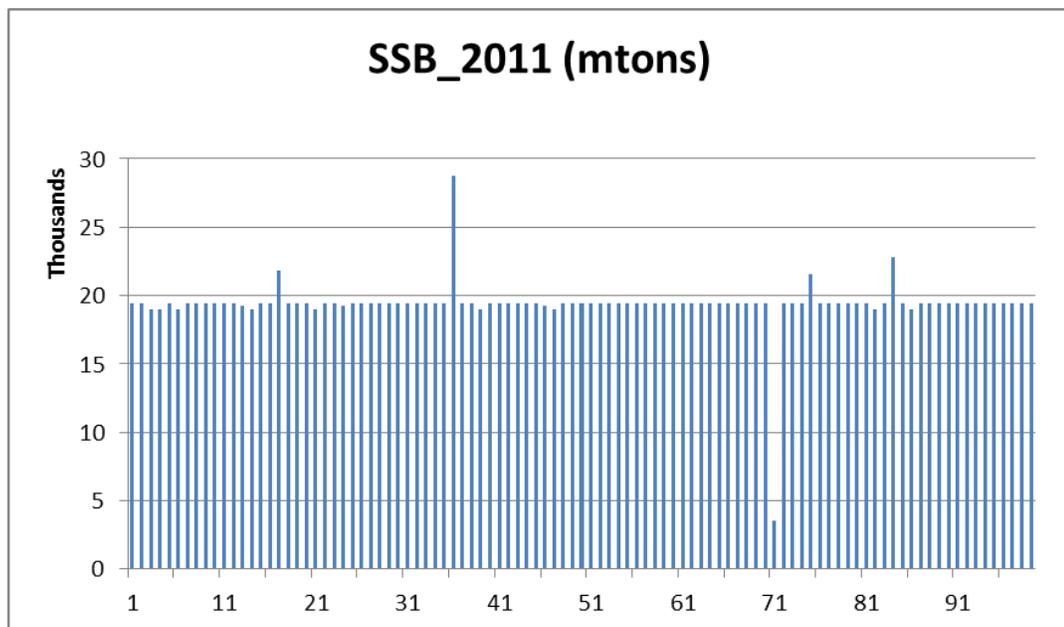


Figure 3.25. Summary results for predicted spawning stock biomass in 2011 (SSB) and spawning potential ratio in 2011 for 100 jitter runs from the SS stock assessment model Run 3 (steepness = 0.8, M=0.38) for Gulf of Mexico Spanish mackerel.

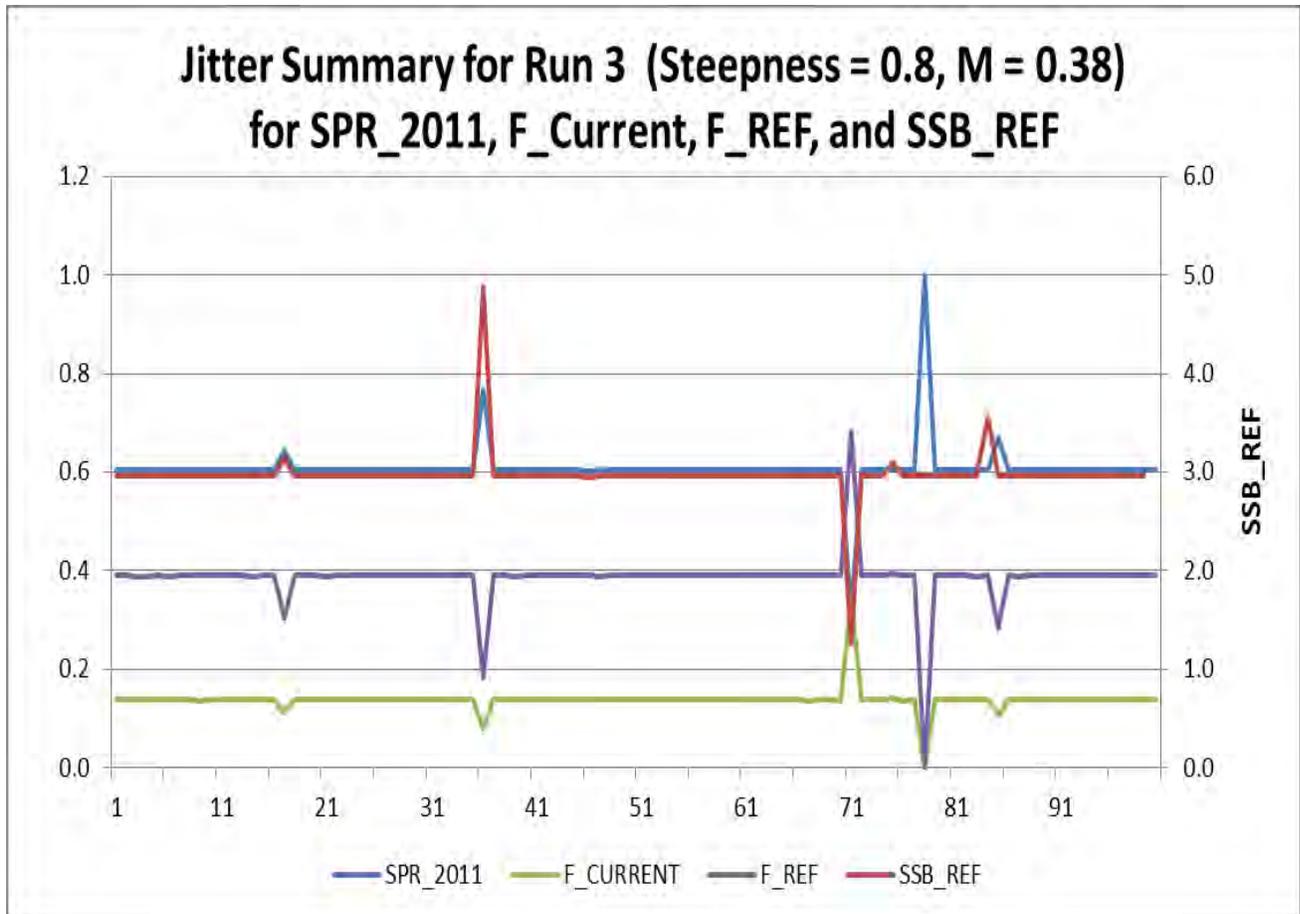


Figure 3.26. Summary results for model estimates of SPR_2011, F_CURRENT, F_REF, AND SSB_REF for 100 jitter runs from the SS stock assessment model Run 3 (steepness = 0.8, M=0.38) for Gulf of Mexico Spanish mackerel. F_CURRENT = geometric mean of F_2009-F_2011. SSB_REF = SSB_2011/MSST. MSST = (1.0 - M) * SSB_SPR30%SPR. F_REF = F_CURRENT/F_30%SPR.

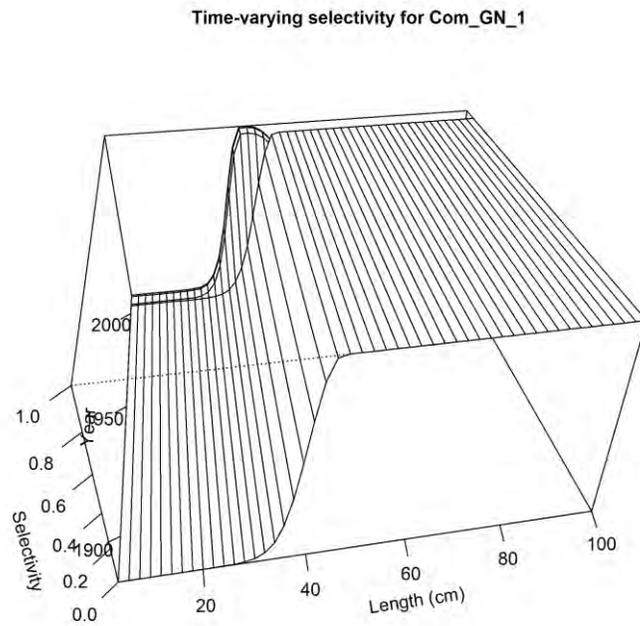
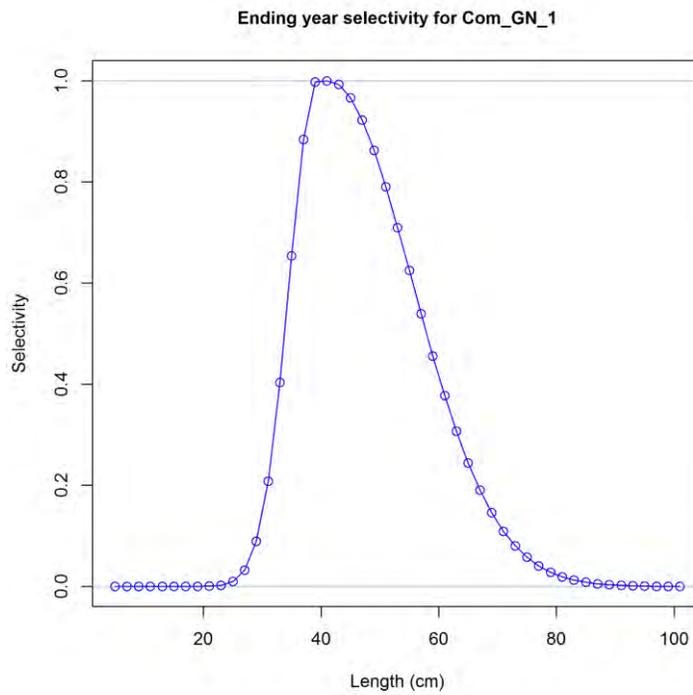


Figure 3.27. Predicted size selectivity for Gulf of Mexico Spanish mackerel from SS for the COM_GN fishery. Model configuration = Run 3, $M=0.38 \text{ y}^{-1}$ and Steepness = 0.8.

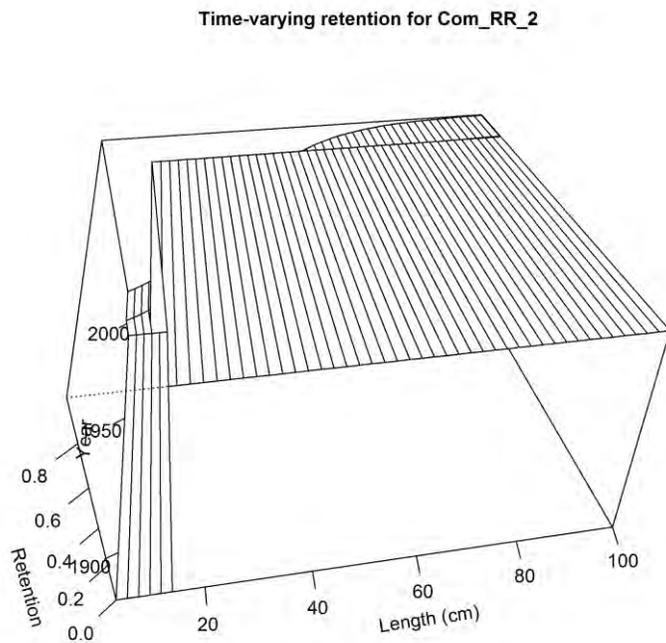
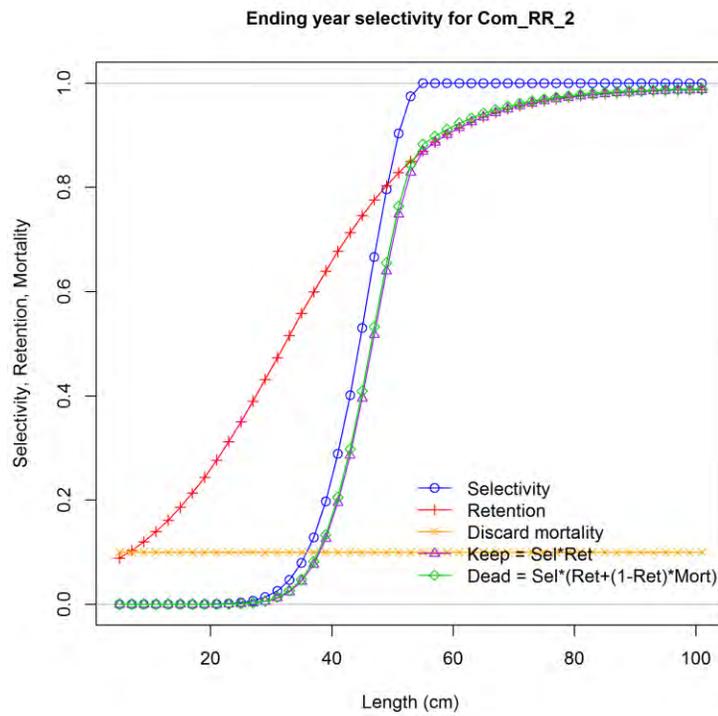


Figure 3.28. Predicted size selectivity for Gulf of Mexico Spanish mackerel from SS for the COM_RR fishery. Model configuration = Run 3, $M=0.38 \text{ y}^{-1}$ and Steepness = 0.8.

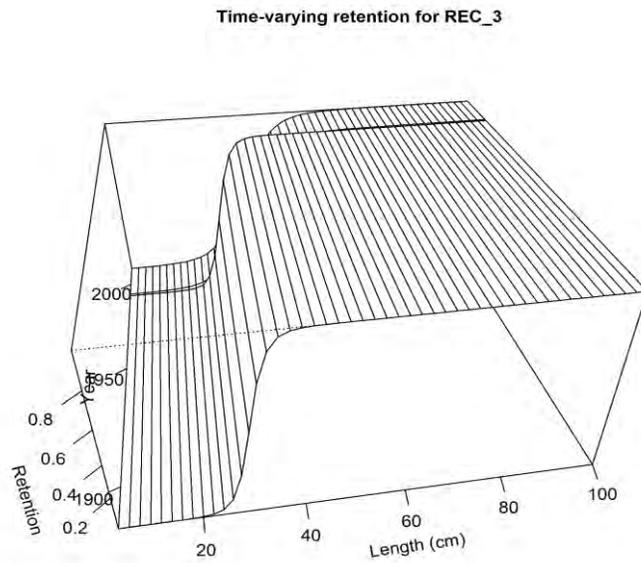
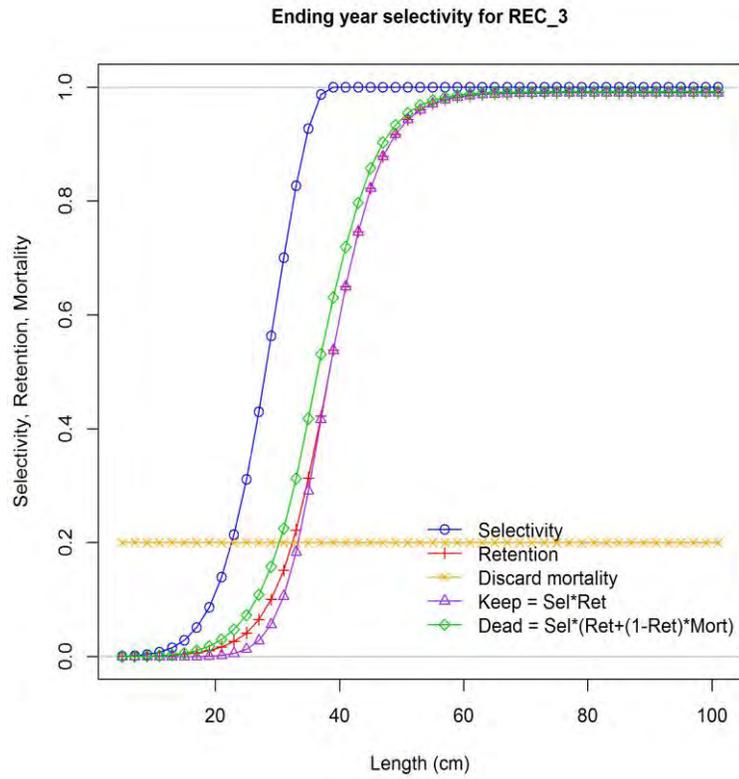


Figure 3.29. Predicted size selectivity for Gulf of Mexico Spanish mackerel from SS the REC (recreational all modes/. Model configuration = Run 3, $M=0.38 \text{ y}^{-1}$ and Steepness = 0.8.

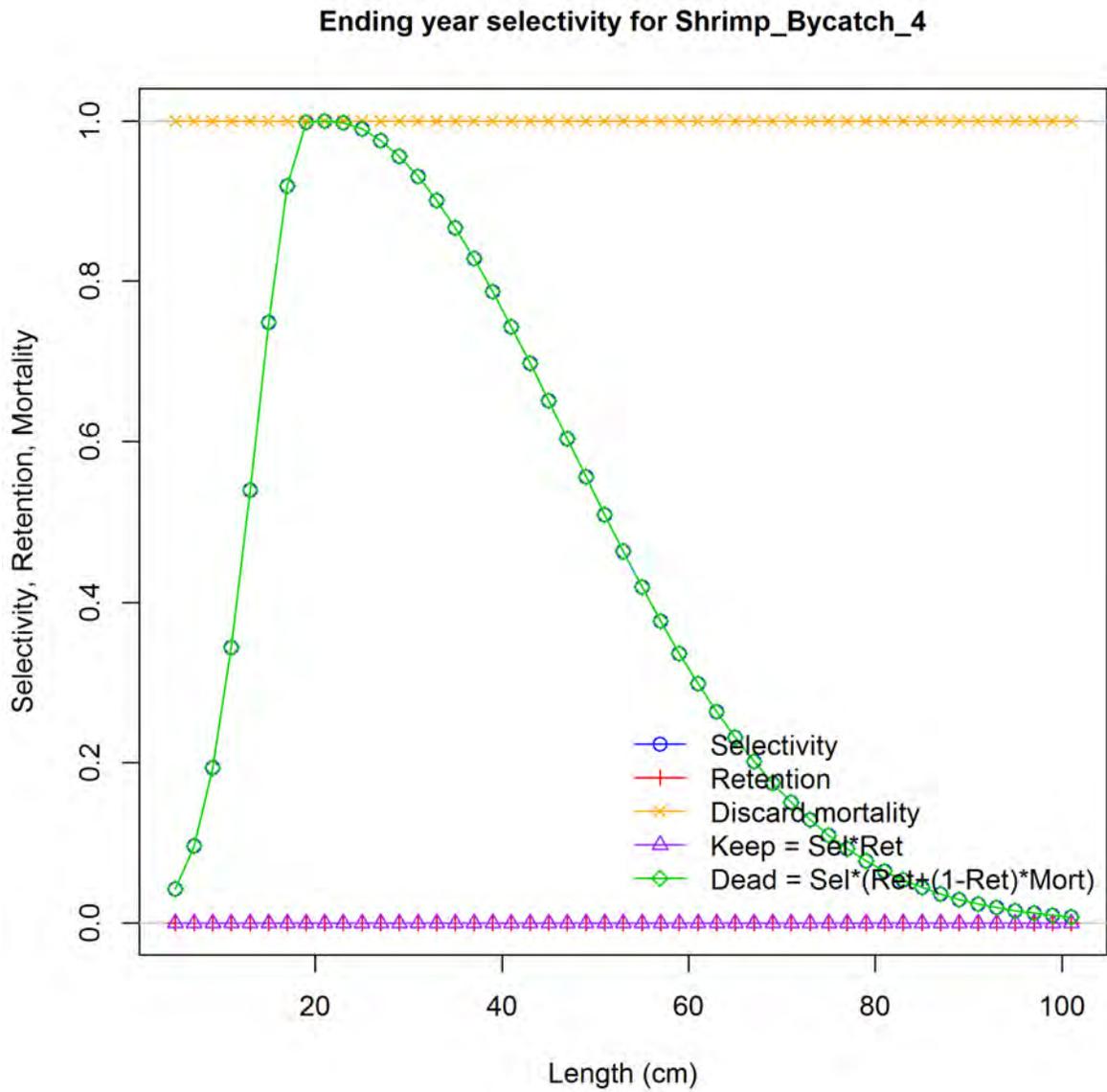


Figure 3.30. Predicted size selectivity for Gulf of Mexico Spanish mackerel from SS for the SEAMAP SURVEY. Model configuration = Run 3, $M=0.38\text{ y}^{-1}$ and Steepness = 0.8.

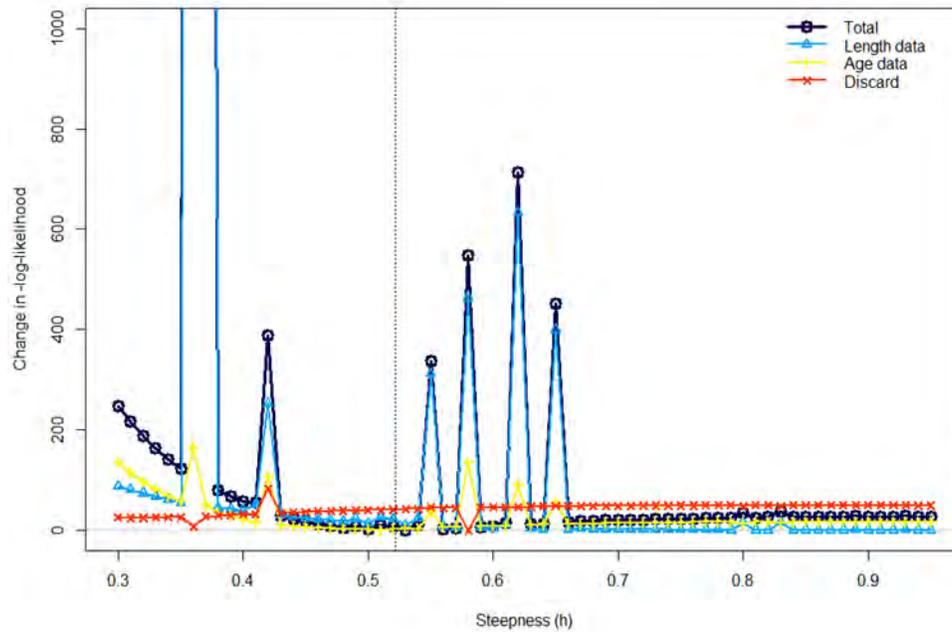


Figure 3.31. Profile of Steepness for Gulf of Mexico Spanish mackerel for Run 1 Model configuration. Model estimated steepness value= 0.5219, SD=0.0151.

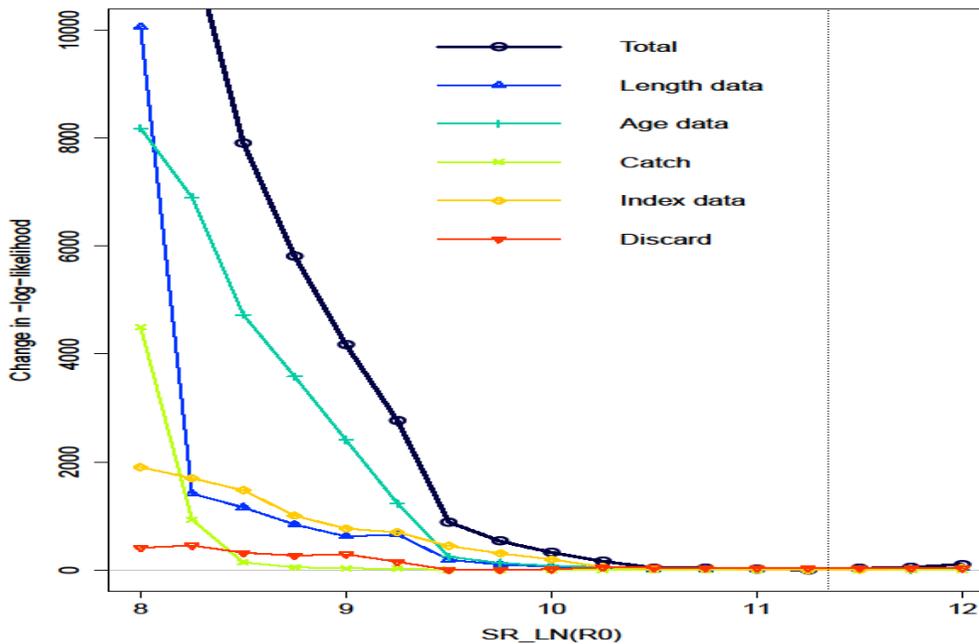


Figure 3.32. Profile of Virgin biomass (R_0) for Gulf of Mexico Spanish mackerel for Run 1 Model configuration. Model estimated $\ln(R_0)$ value=11.3274, SD = 0.052332. Blue line is change in length data likelihood, red line = change in discard data likelihood, aqua color line = change in age likelihood.

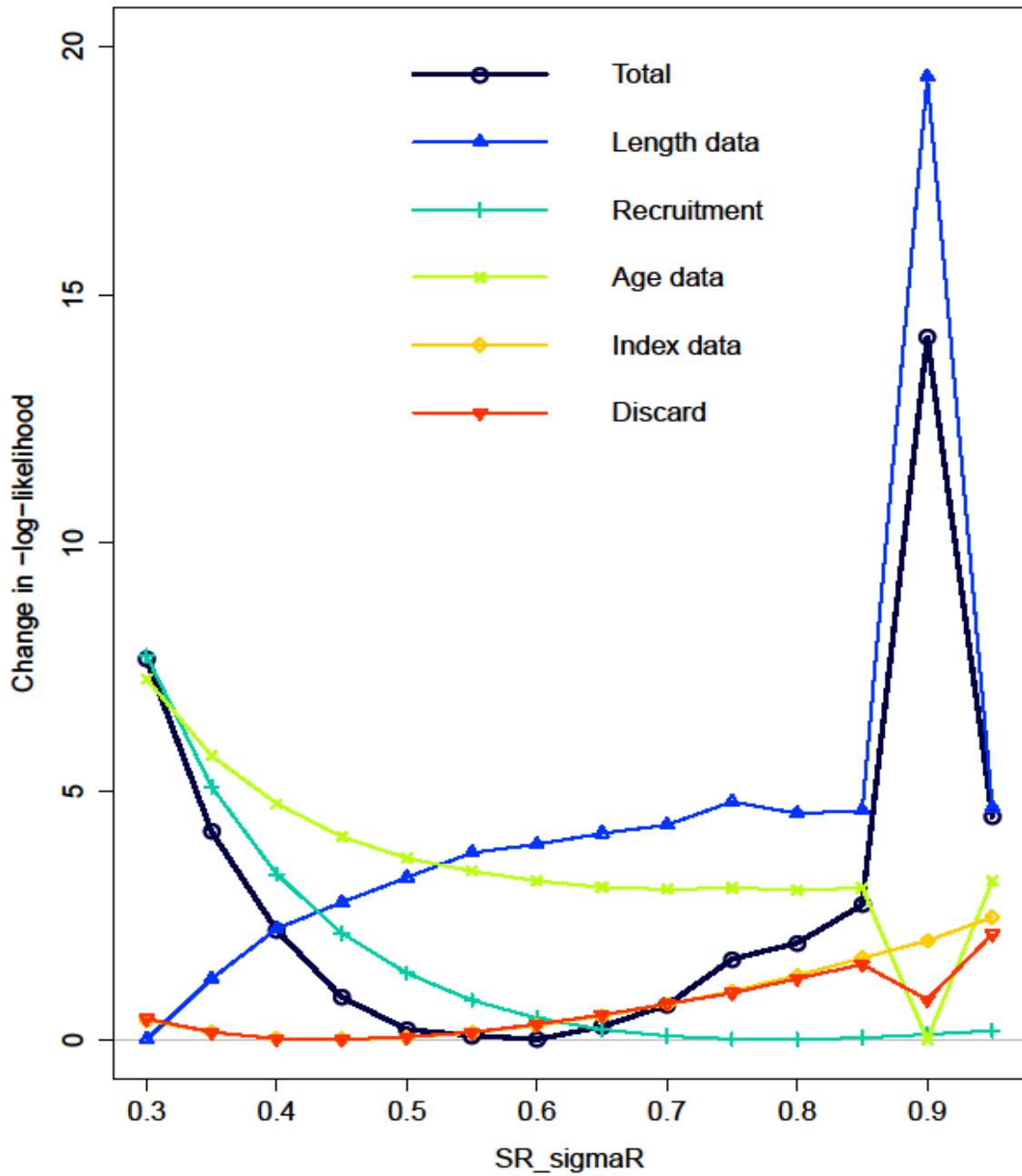


Figure 3.33. Profile of SigmaR of Gulf of Mexico Spanish mackerel for the Run 1 Model configuration. Model estimated sigmaR value=0.565754, SD=0.097579.

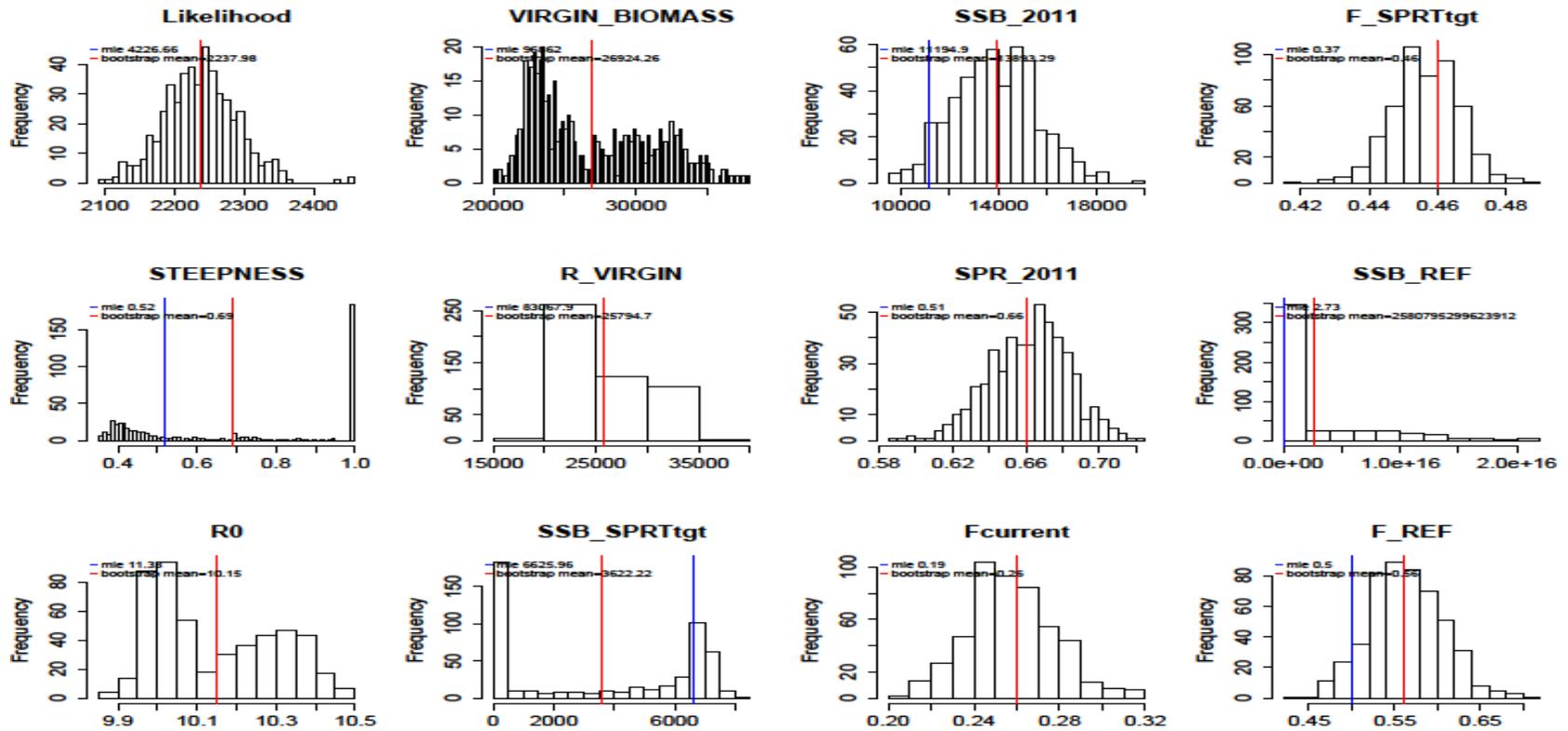


Figure 3.34. Distribution of key parameters estimated via SS from 500 bootstrap samples for the Run 1 model (steepness estimated and $M = 0.38y^{-1}$ input in Lorenzen function). Red lines represent mean estimates from the bootstrap samples; blue lines represent the point estimate of the parameters from the Run 1 model. $SSB_{REF} = SSB_{2011}/SSB_{SPRTtgt}$ and $F_{REF} = F_{current} / F_{SPRTtgt}$. $F_{current}$ = geometric mean for 2009-2011.

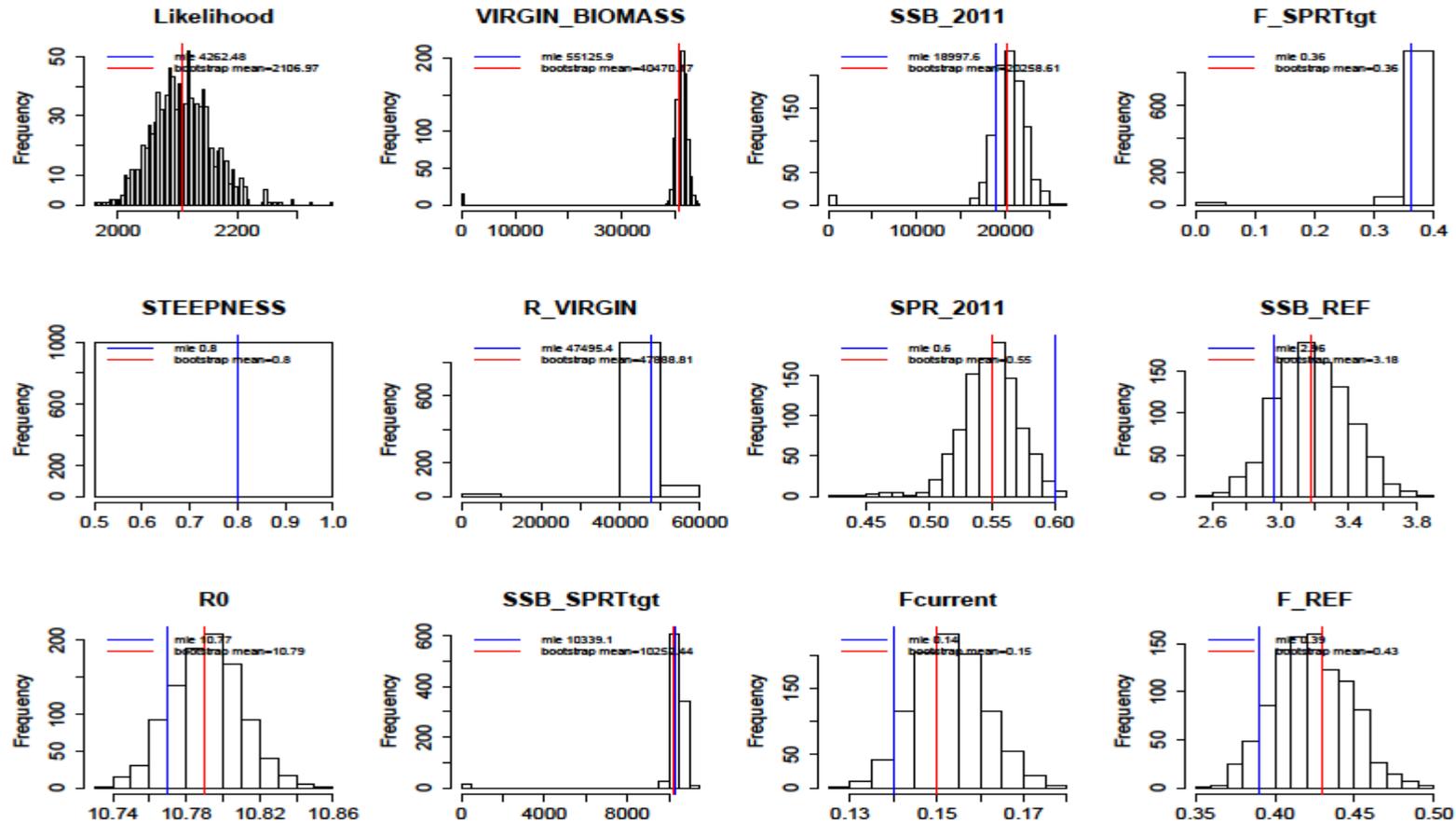


Figure 3.35. Distribution of key parameters estimated via SS from 1,000 bootstrap samples for the Run 1 model (steepness fixed at 0.8 and $M = 0.38y^{-1}$ input in Lorenzen function). Red lines represent mean estimates from the bootstrap samples; blue lines represent the point estimate of the parameters from the Run 3 model. $SSB_{REF} = SSB_{2011}/SSB_{SPRTtgt}$ and $F_{REF} = F_{current} / F_{SPRTtgt}$. $F_{current}$ = geometric mean for 2009-2011.

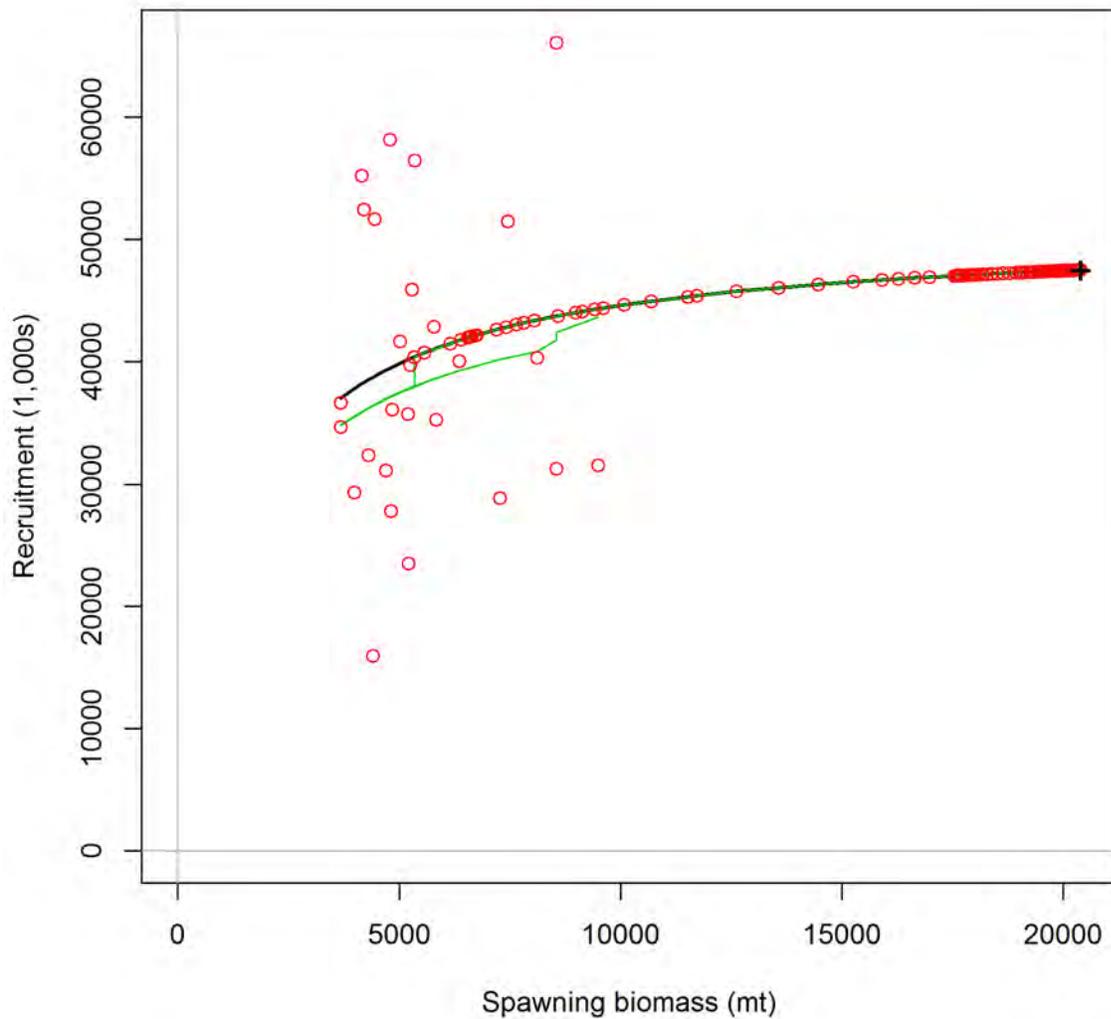


Figure 3.36. Predicted stock-recruitment relationship for Gulf of Mexico Spanish mackerel from SS Run 3 Model configuration ($M=0.38 \text{ y}^{-1}$ and Steepness = 0.8). Plotted are predicted annual recruitments from SS (circles), expected recruitment from the stock recruit relationship (line), and bias adjusted recruitment from the stock-recruit relationship (line with X). Labels included on first, last, and years with (log) deviations > 0.5.

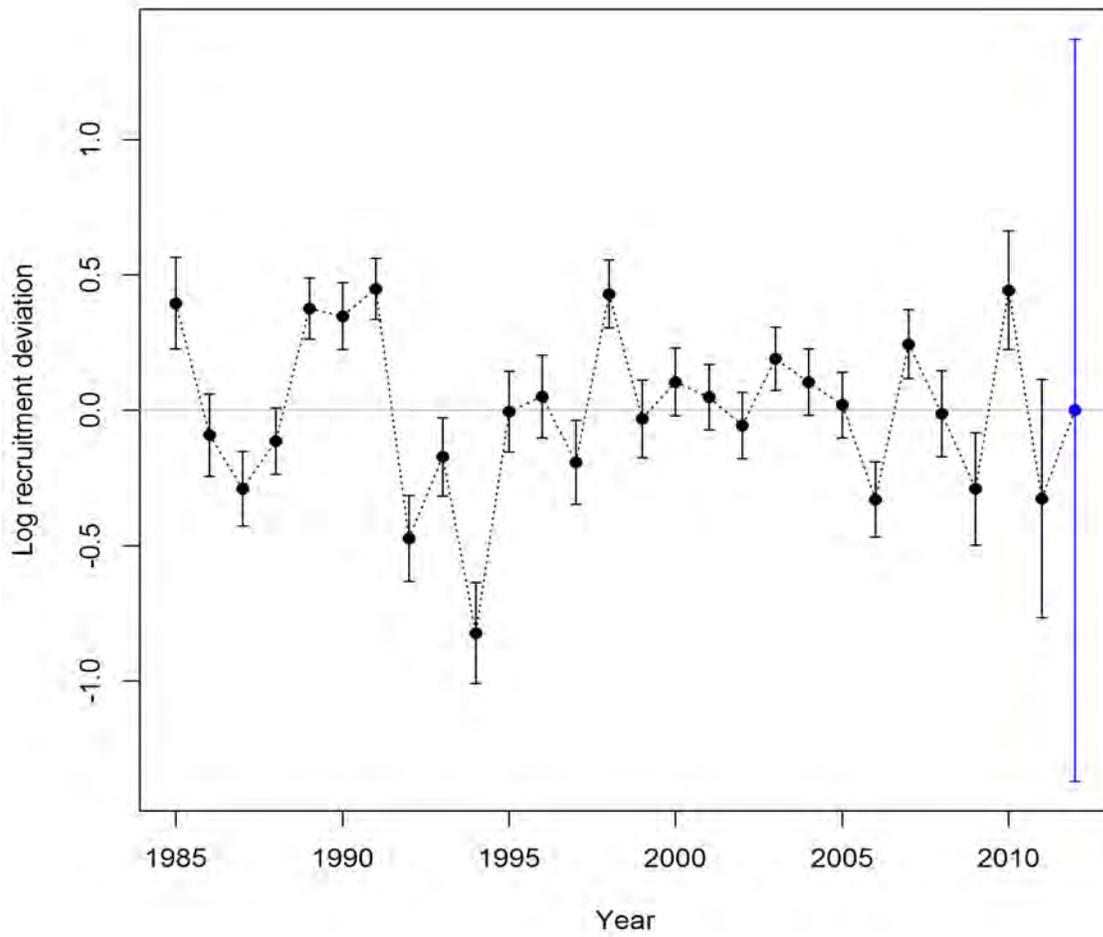


Figure 3.37. Asymptotic standard errors for recruitment deviations (1985-2010) for Gulf of Mexico Spanish mackerel from the SS Run 3 model (assuming steepness =0.8 and $M=0.38y^{-1}$).

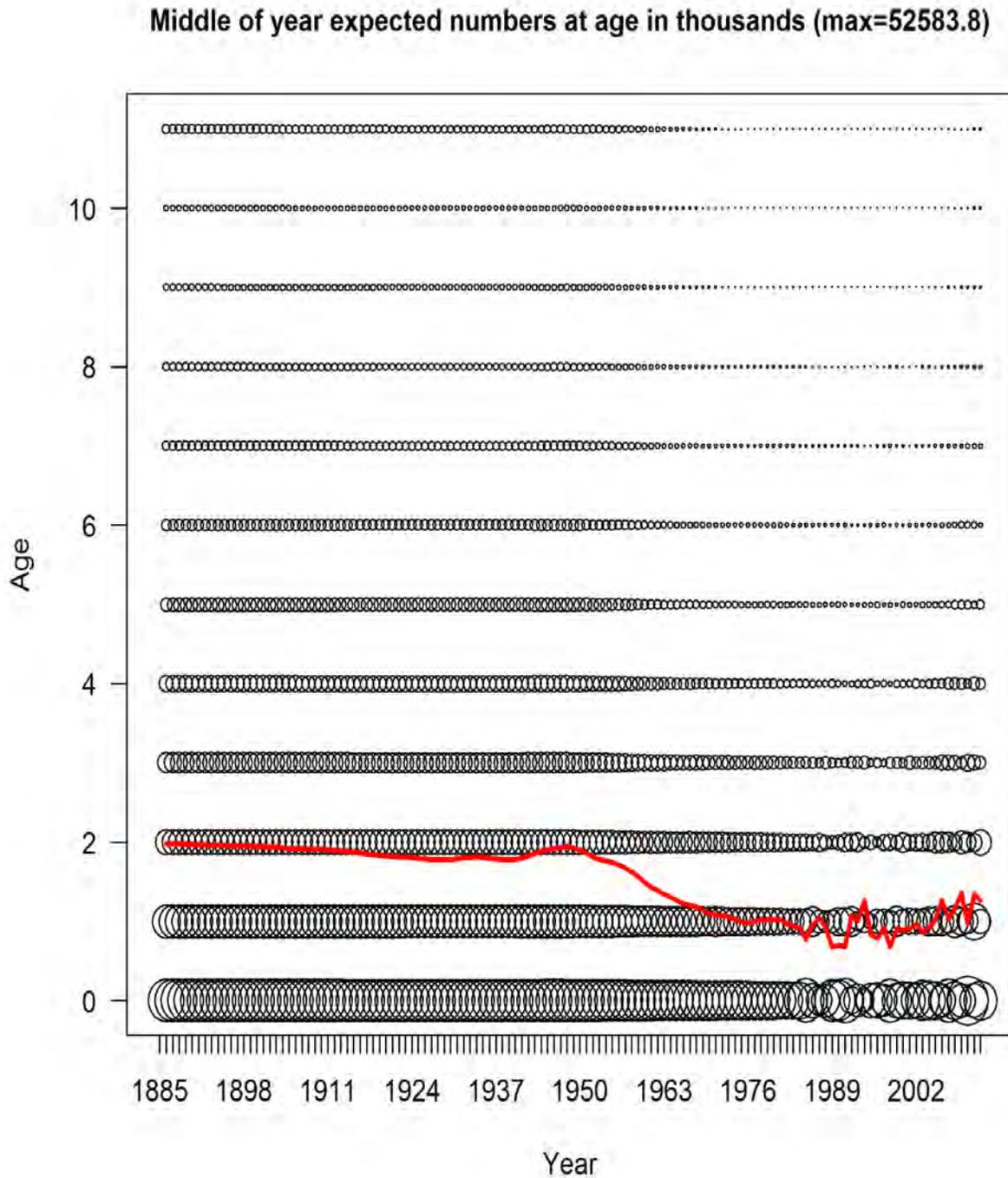


Figure 3.38. Predicted abundance at age (circles) and mean age (line) for Gulf of Mexico Spanish mackerel. Units are abundance in thousands of fish. Model configuration = Run 3, $M=0.38 \text{ y}^{-1}$ and Steepness = 0.8.

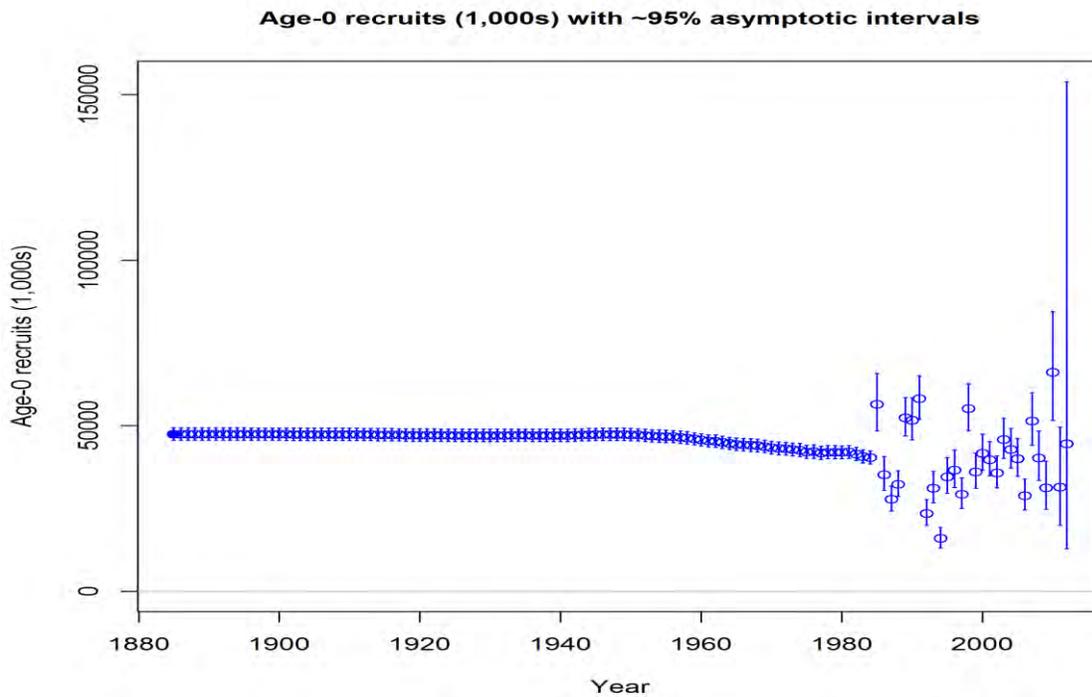


Figure 3.39. Predicted age-0 recruits in thousand fish and log recruitment deviations for Gulf of Mexico Spanish mackerel from SS. Model configuration = Run 3, $M=0.38 \text{ y}^{-1}$ and Steepness=0.8.

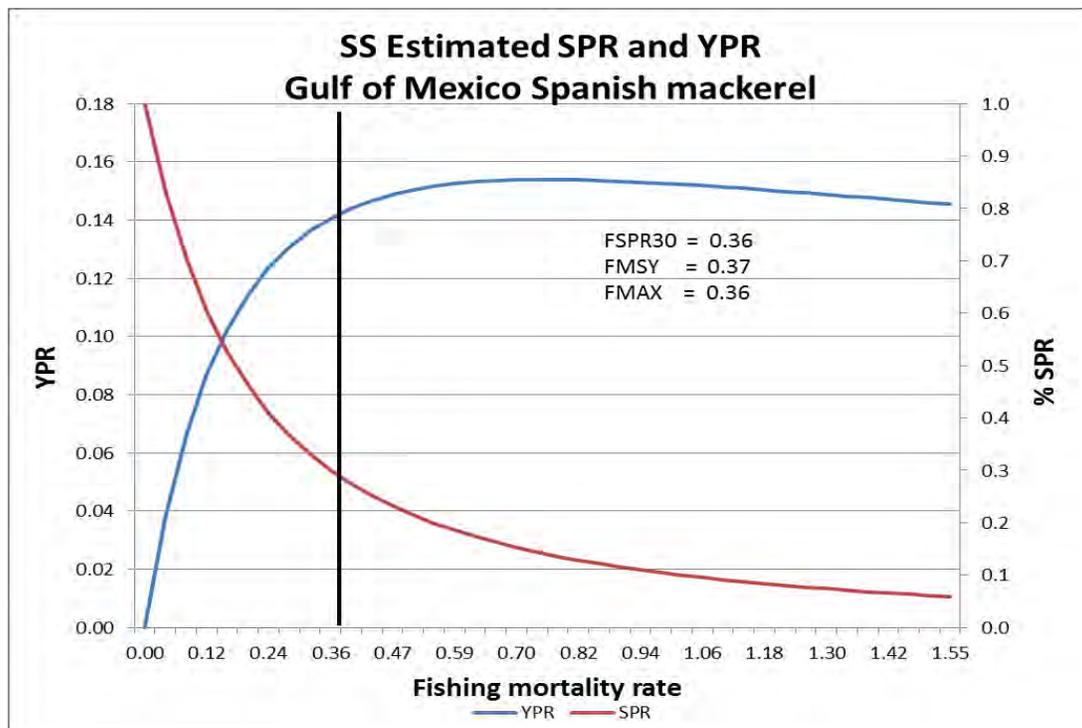


Figure 3.40. SS estimated yield per recruit and spawner per recruit for Gulf Spanish mackerel.

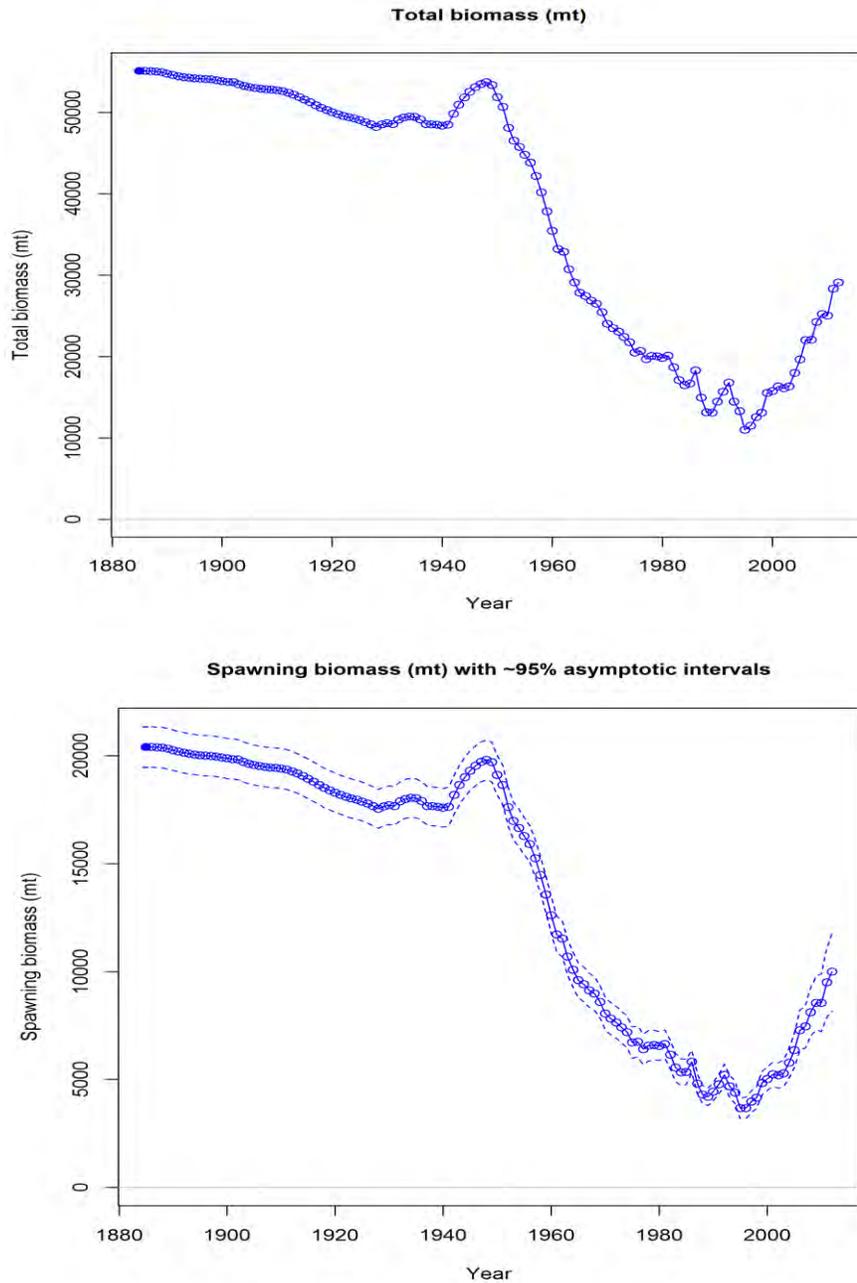


Figure 3. 41. Top Panel: SS predicted total biomass for Gulf of Mexico Spanish mackerel. Bottom Panel: SS predicted spawning biomass for Gulf of Mexico Spanish mackerel from SS. Units are mt tons whole weight. Model configuration = Run 3, $M=0.38 \text{ y}^{-1}$ and Steepness = 0.8.

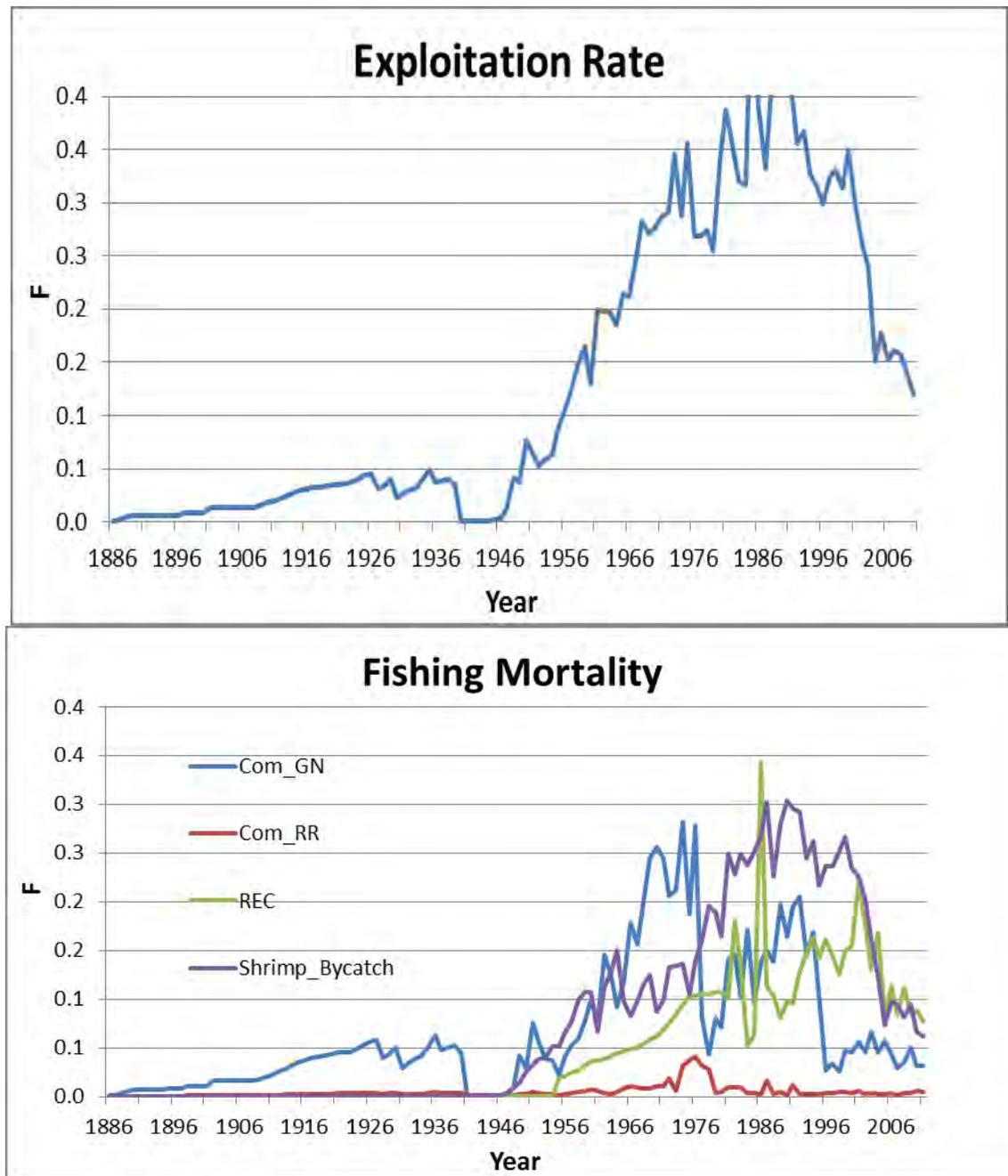


Figure 3.42. Predicted fishing mortality for Gulf of Mexico Spanish mackerel from SS. Model configuration = Run 3, $M=0.38 \text{ y}^{-1}$ and Steepness = 0.8. Top panel is annual exploitation rate and bottom panel is fleet specific continuous fishing mortality. $M=0.38 \text{ y}^{-1}$ and Steepness = 0.8).

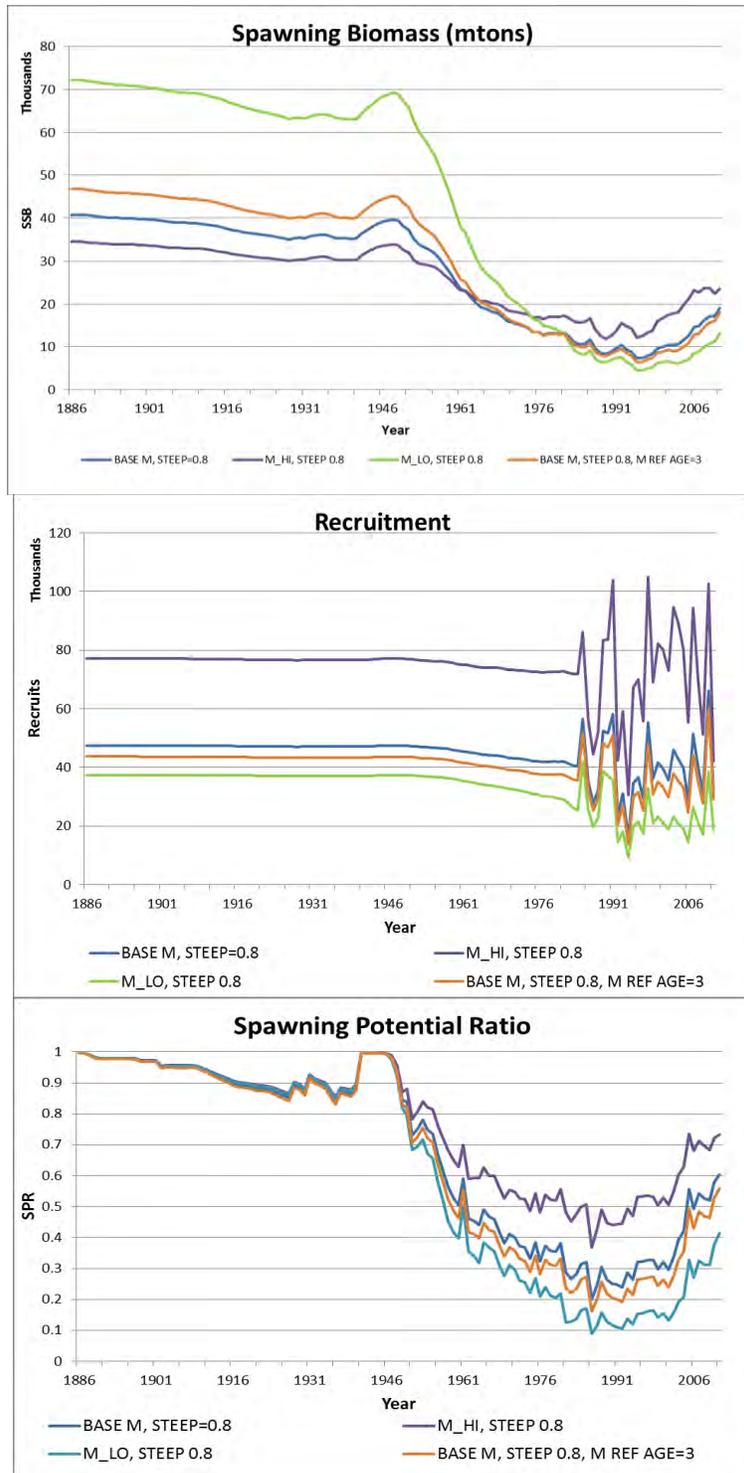


Figure 3.43. Sensitivity analyses for the Run 3 model configuration at three levels of natural mortality ranges ($M = 0.38$ and $M_{HI} = 0.49$ and $M_{LO} = 0.27$). Top Panel = spawning biomass (SSB), Middle Panel = Recruitment, Bottom Panel = spawning potential ratio (SPR). All Runs assuming steepness = 0.8.

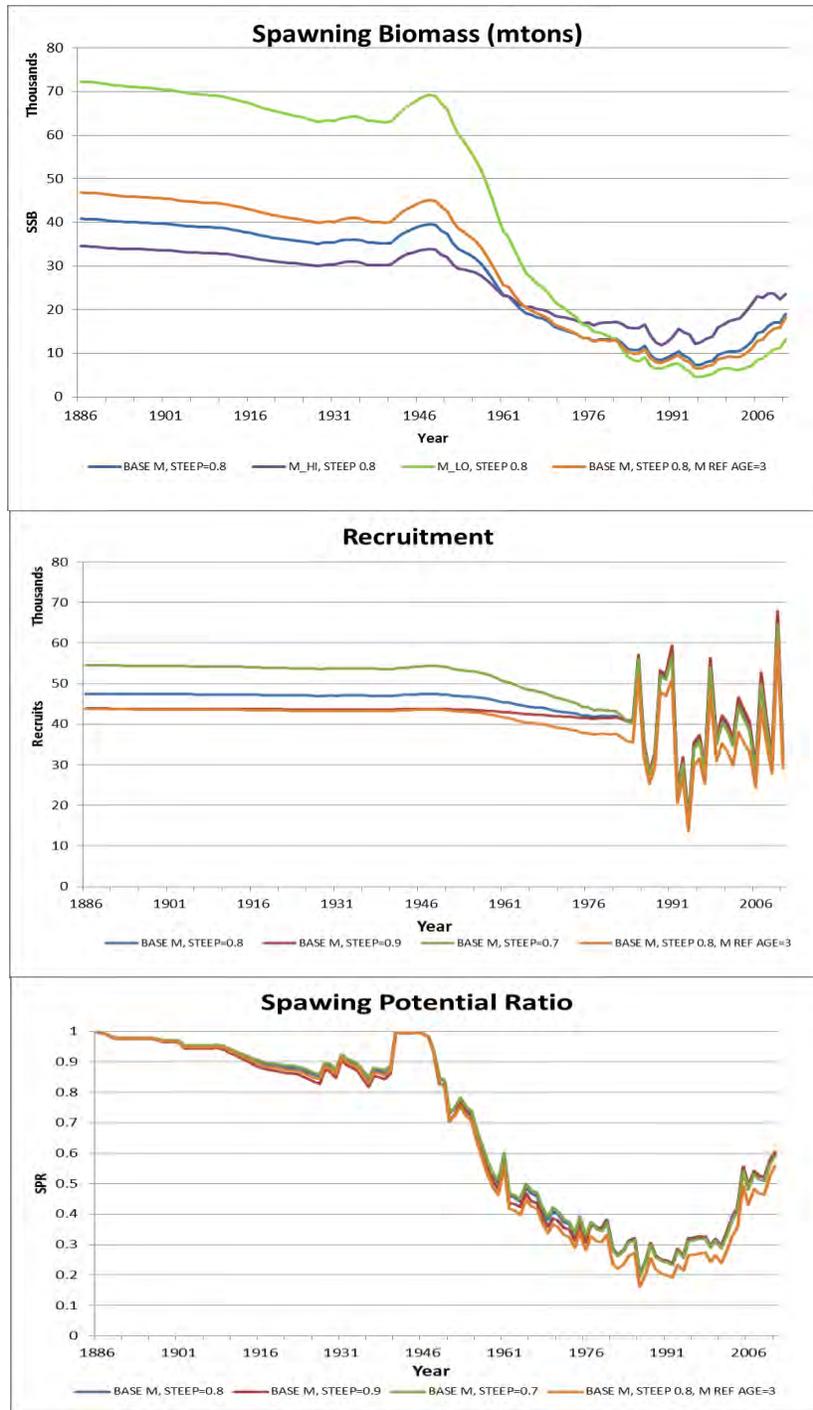


Figure 3.44. Sensitivity analysis for Gulf of Mexico Spanish mackerel with varying assumptions on the Beverton – Holt steepness parameter. Top Panel = spawning biomass (SSB), Middle Panel = Recruitment, Bottom Panel = spawning potential ratio (SPR). For the alternative steepness scenarios (0.7, 0.8, 0.9) the level of M assumed = 0.38 input into Lorenzen function. Metric shown are predicted spawning biomass (SSB), recruitment and spawning potential ratio (SPR).

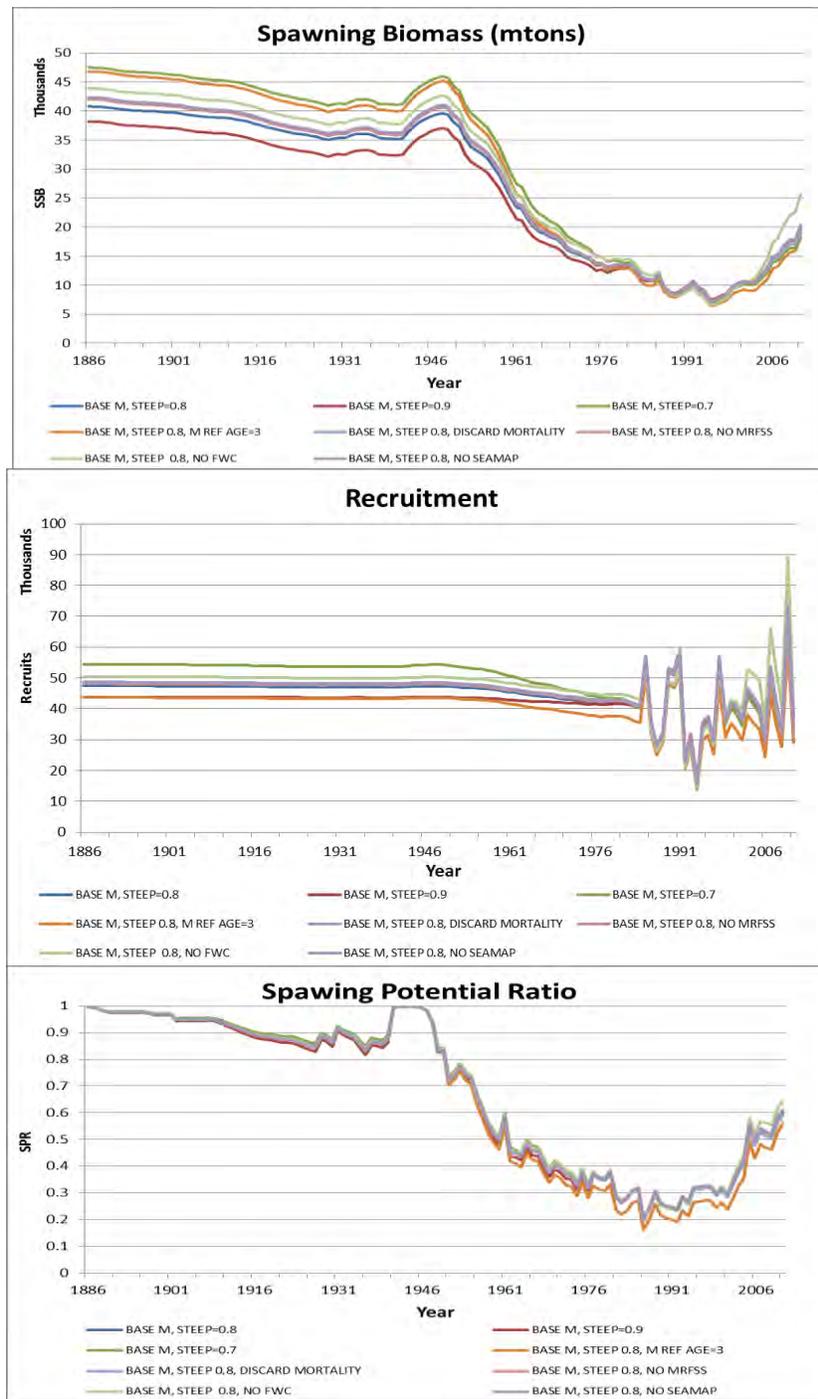


Figure 3.45. Sensitivity analysis for Gulf of Mexico Spanish mackerel with varying assumptions on the data inclusion and assumptions of release mortality. Top Panel = spawning biomass (SSB), Middle Panel = Recruitment, Bottom Panel = spawning potential ratio (SPR). For the alternative steepness scenarios (0.7, 0.8, 0.9) the level of M assumed = 0.38 input into Lorenzen function. Metric shown are predicted spawning biomass (SSB), recruitment and spawning potential ratio (SPR).

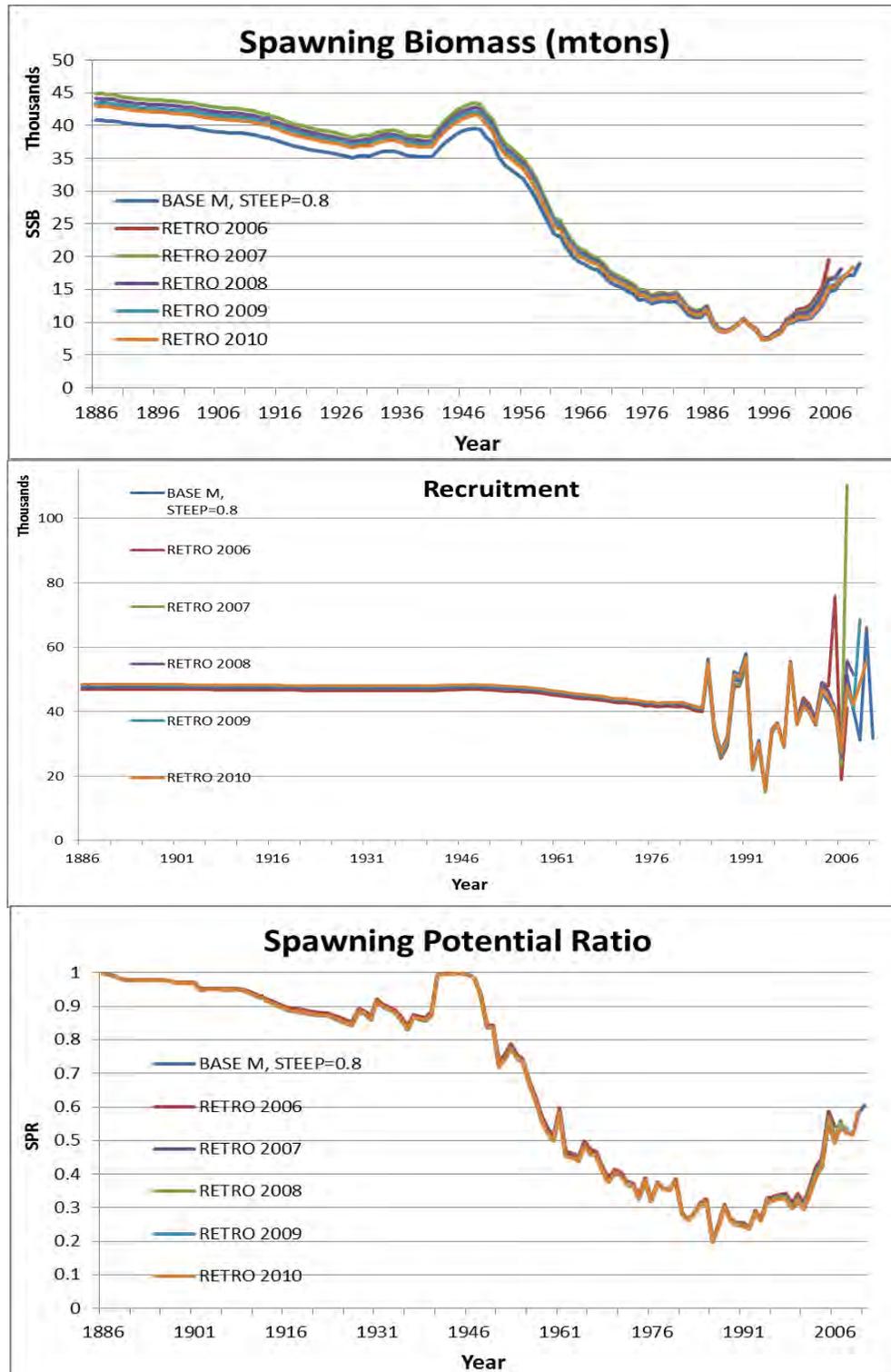


Figure 3.46. Retrospective analysis for Gulf of Mexico Spanish mackerel with last five years of data sequentially dropped from SS for Run 3 model. Metrics shown are predicted spawning biomass, recruitment and spawning potential ratio. All retrospective runs assumed that $M = 0.38y^{-1}$ was input into the Lorenzen function and steepness = 0.8.

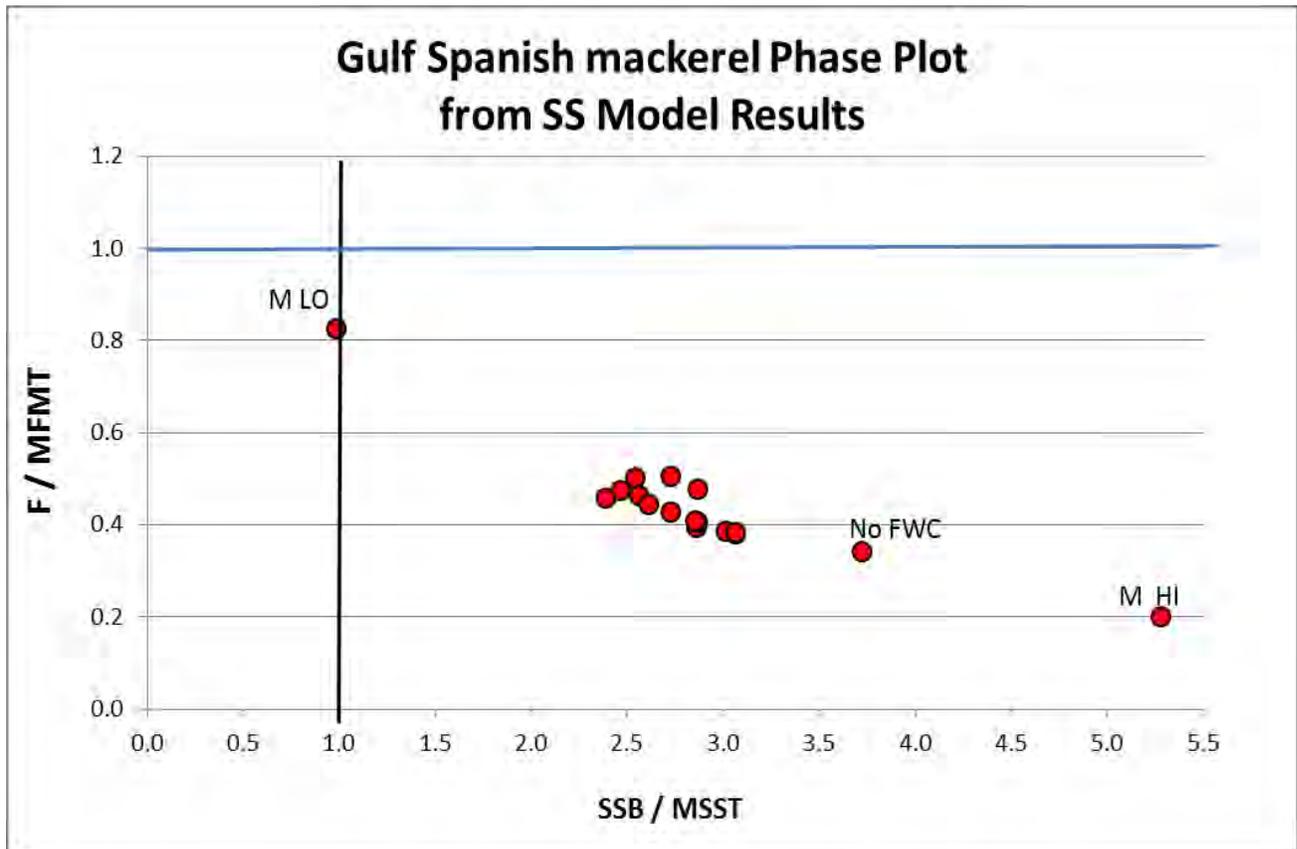


Figure 3.47. Phase plot of Stock Synthesis (SS) estimates of SSB/MSST and F/MFMT Benchmarks for Gulf of Mexico Spanish mackerel SEDAR 28 stock assessment res for varying assumptions for natural mortality at age (input into Lorenzen function), Beverton – Holt parameter, data inclusion, discard release mortality, and retrospective analysis. $SSB_{Ratio} = SSB_{2011} / MSST$. $MSST = (1 - M) * SSB_{MSY}$ where $SSB_{MSY} = SSB@F30\%SPR$. $MFMT = F@30\%SPR$.

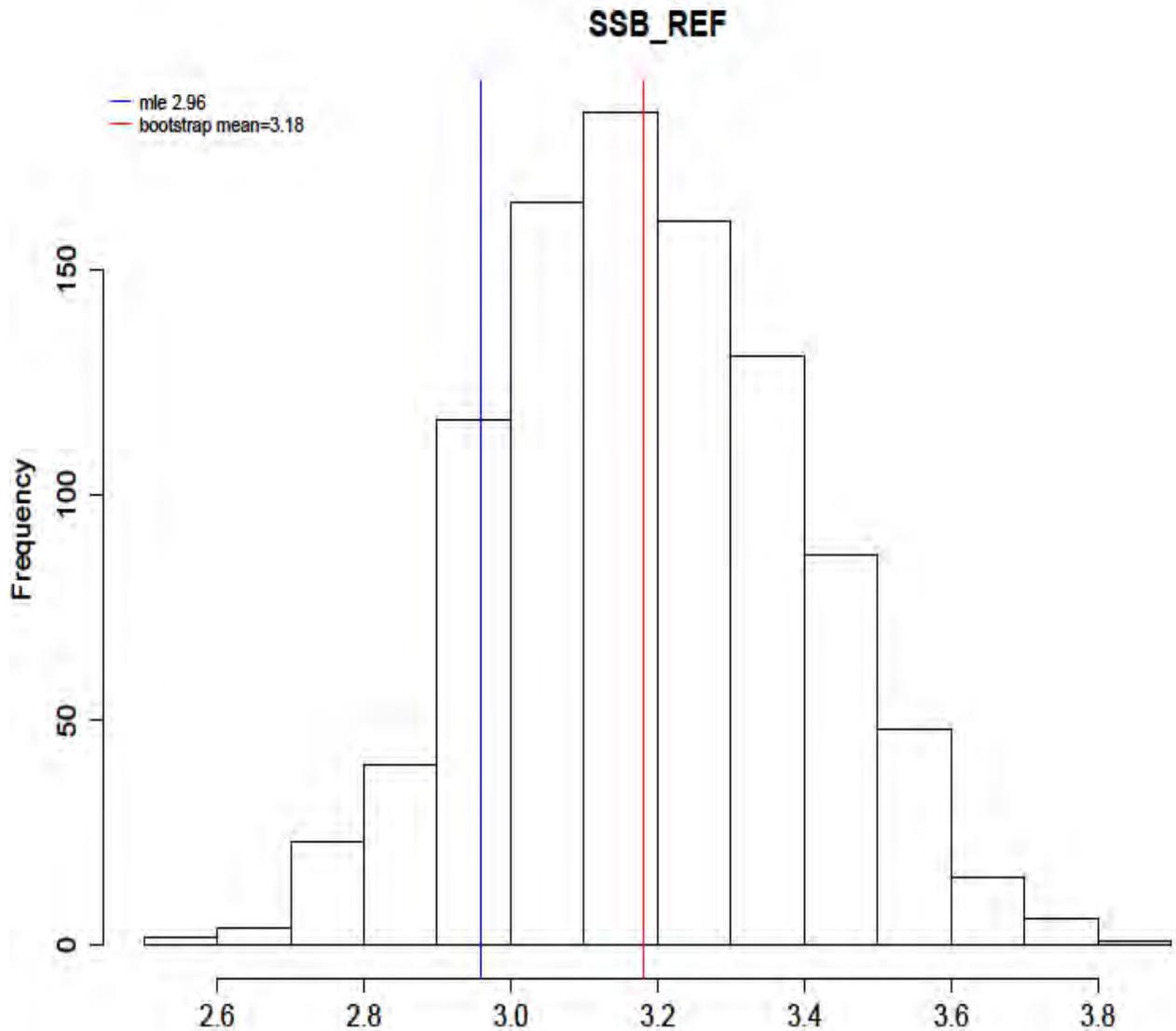


Figure 3.48. SS estimates of $F_{current} / F_{SPR30\%}$ from 1,000 bootstrap samples of the Run 3 model (steepness = 0.8, $M = 0.38y^{-1}$) for Gulf of Mexico Spanish mackerel. $SSBR_REF = SSB_{2011} / MSST$. $MSST = (1-M) * SSB_{MSY}$ where $SSB_{MSY} = SSB@F30\%SPR$. Red lines represent mean estimates from the bootstrap samples; blue lines represent the point estimate of the parameters from the Run 1 model.

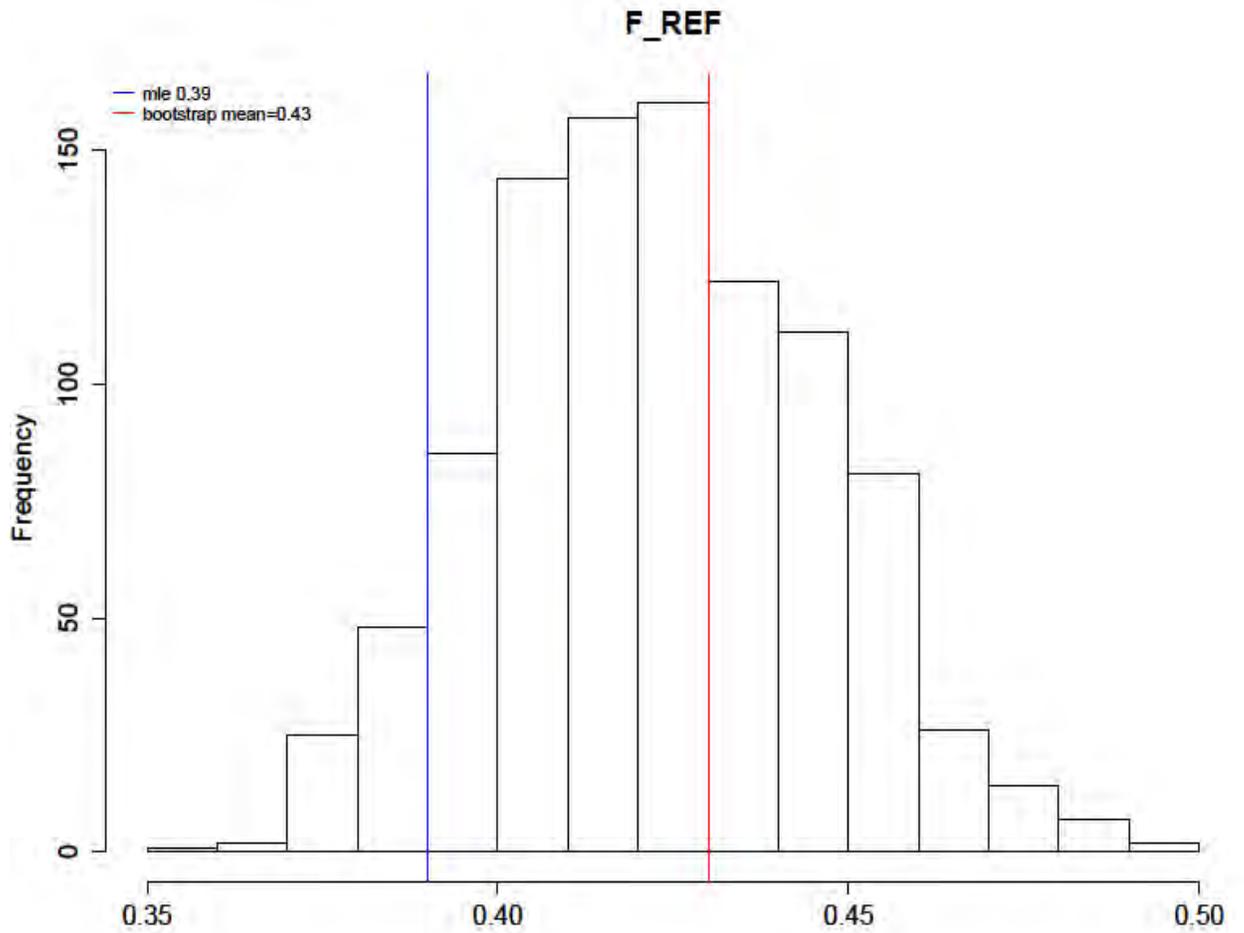


Figure 3.49. SS estimates of F_{REF} from 1,000 bootstrap samples of the Run 3 model (steepness = 0.8, $M = 0.38y^{-1}$) for Gulf of Mexico Spanish mackerel. $F_{REF} = F_{current} / MFMT$ AND $MFMT = F@30\%SPR$. $F_{current}$ = geometric mean of $F_{2009} - F_{2011}$. Red lines represent mean estimates from the bootstrap samples; blue lines represent the point estimate of the parameters from the Run 1 model.

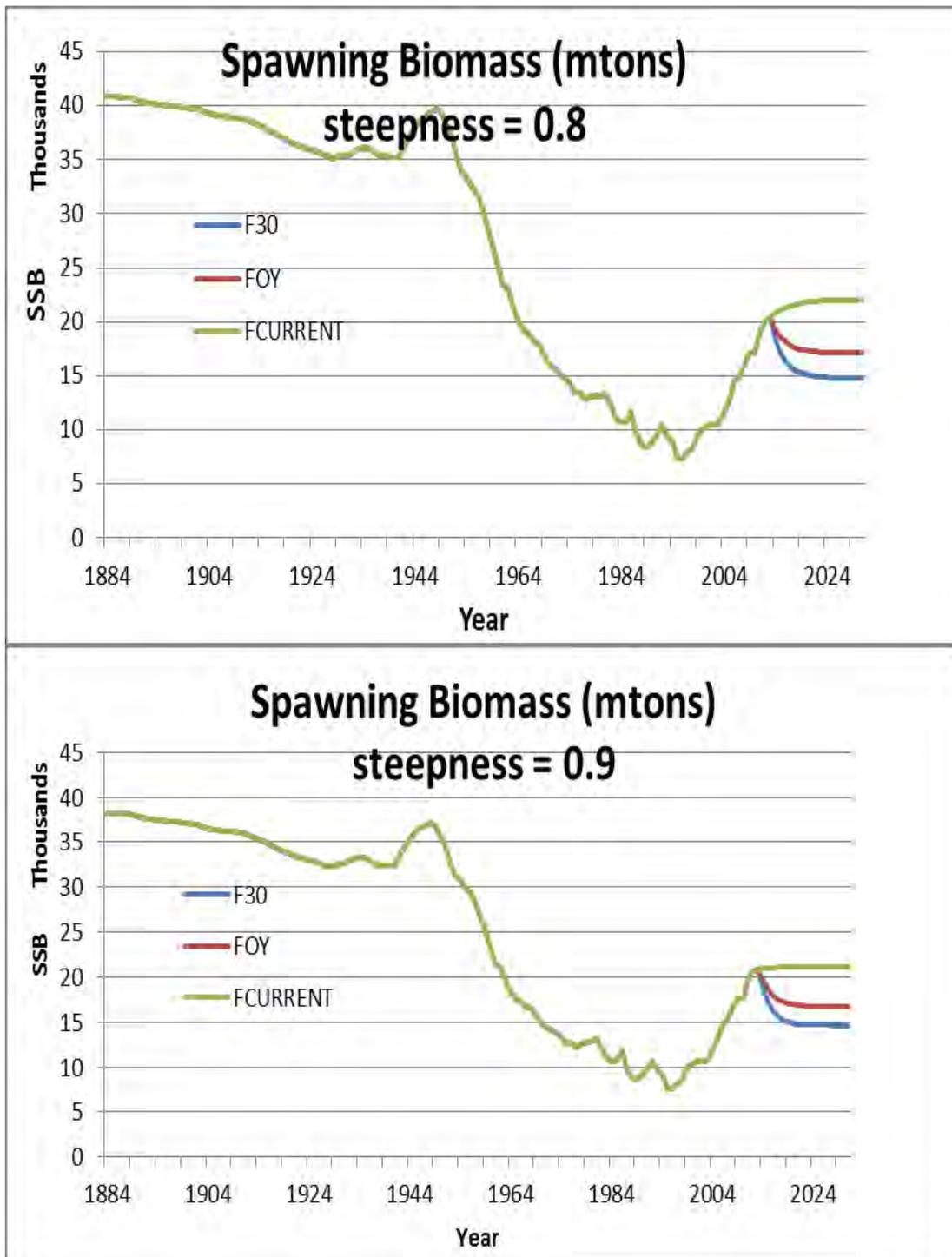


Figure 3.50. SS predicted spawning biomass (SSB) for the Run 3 model configuration (Top Panel) and Run 2 model (Bottom Panel) under three fishing mortality scenarios: $F_{CURRENT}$, F_{SPR30} , and F_{OY} . Both models assumed $M=0.38y^{-1}$ in the input Lorenzen function.

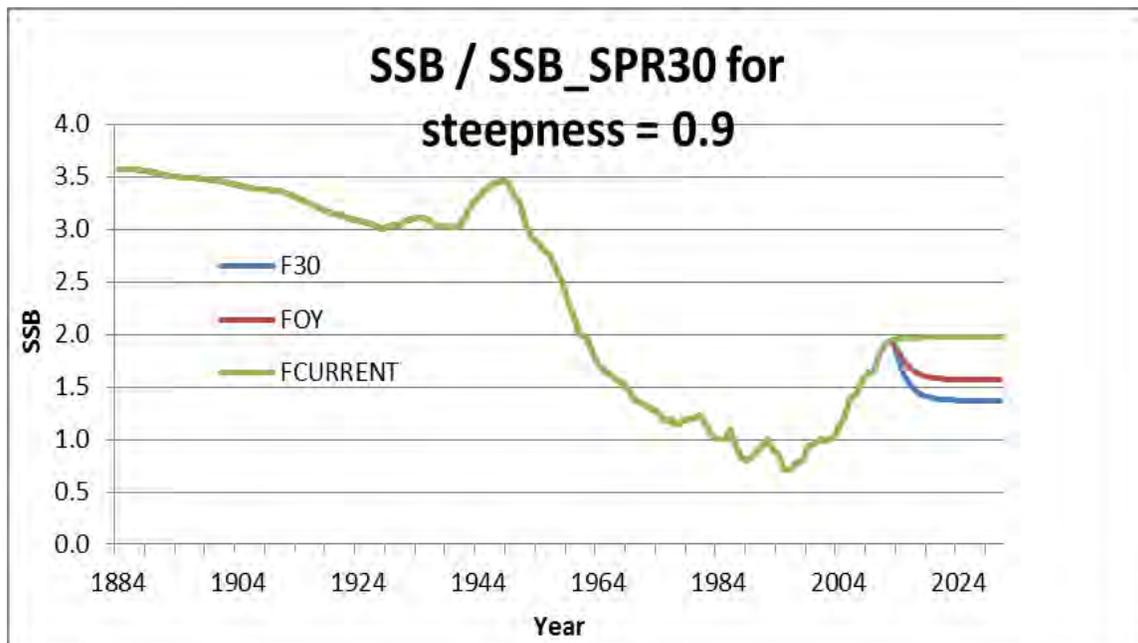
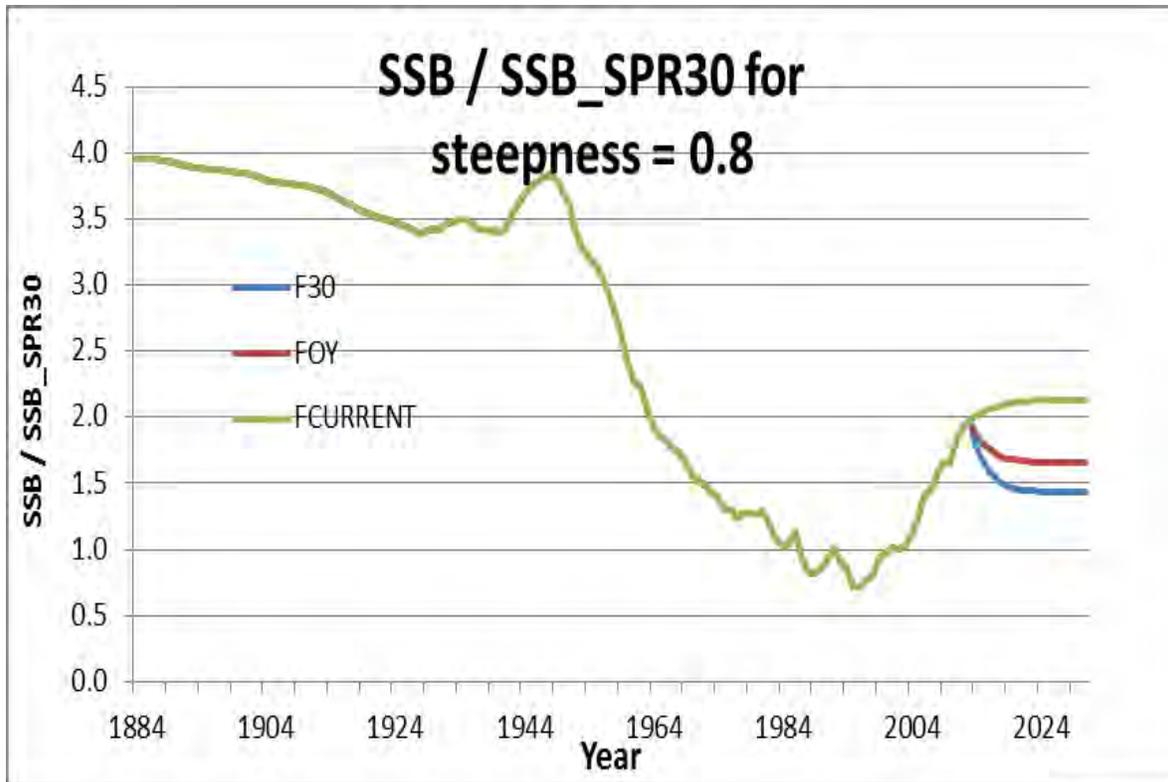


Figure 3.51. Predicted spawning biomass (SSB) relative to F30%SPR for the Run 3 model configuration (Top Panel) and Run 2 model (Bottom Panel) under three fishing mortality scenarios: $F_{CURRENT}$, F_{SPR30} , and F_{OY} . Both models assumed $M=0.38y^{-1}$ in the input Lorenzen function.

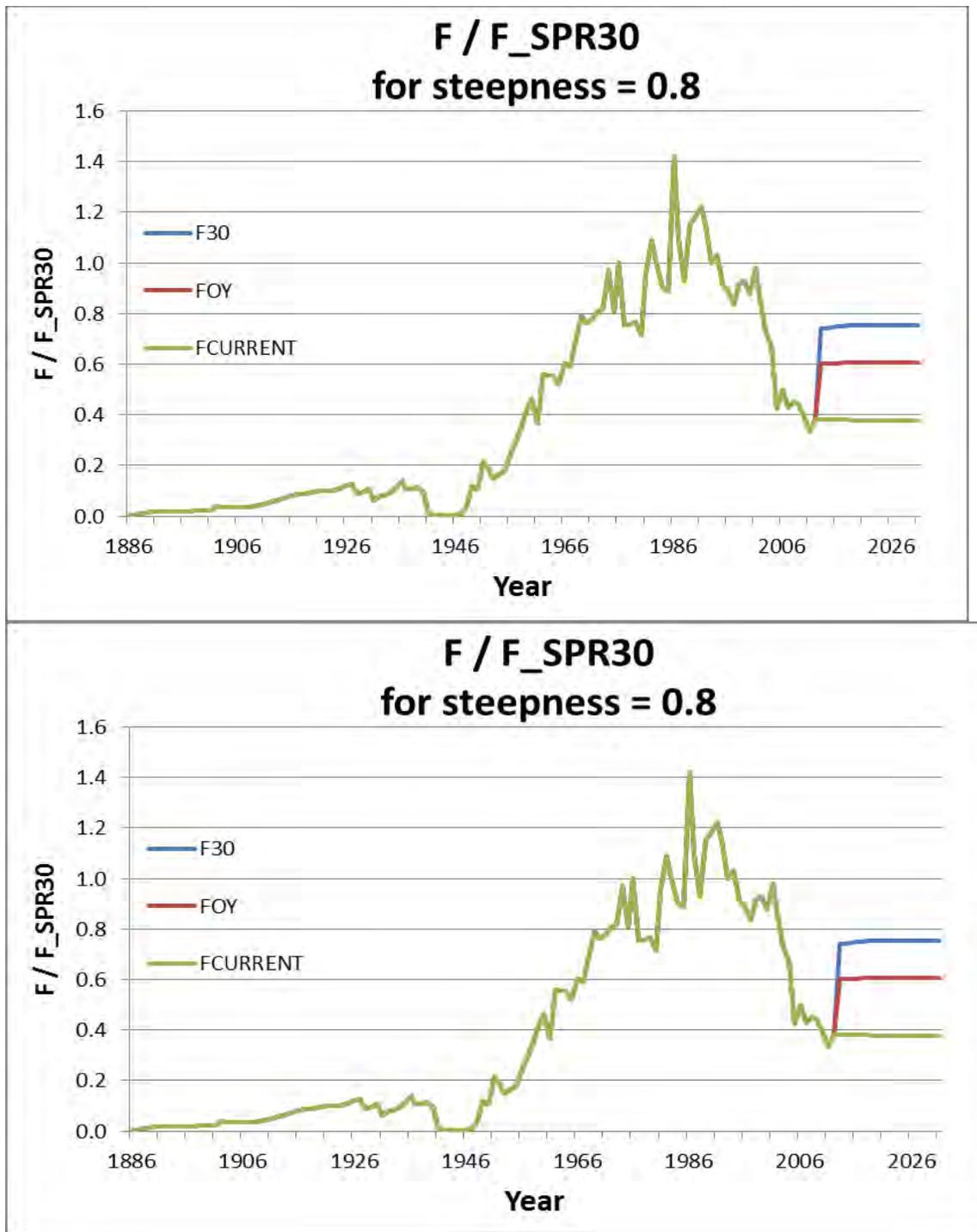


Figure 3.52. Projected fishing mortality rate relative to $F_{SPR30\%}$ for the Run 3 model configuration (Top Panel) and Run 2 model (Bottom Panel) under three fishing mortality scenarios: $F_{CURRENT}$, F_{SPR30} , and F_{OY} . Both models assumed $M=0.38y^{-1}$ in the input Lorenzen function.

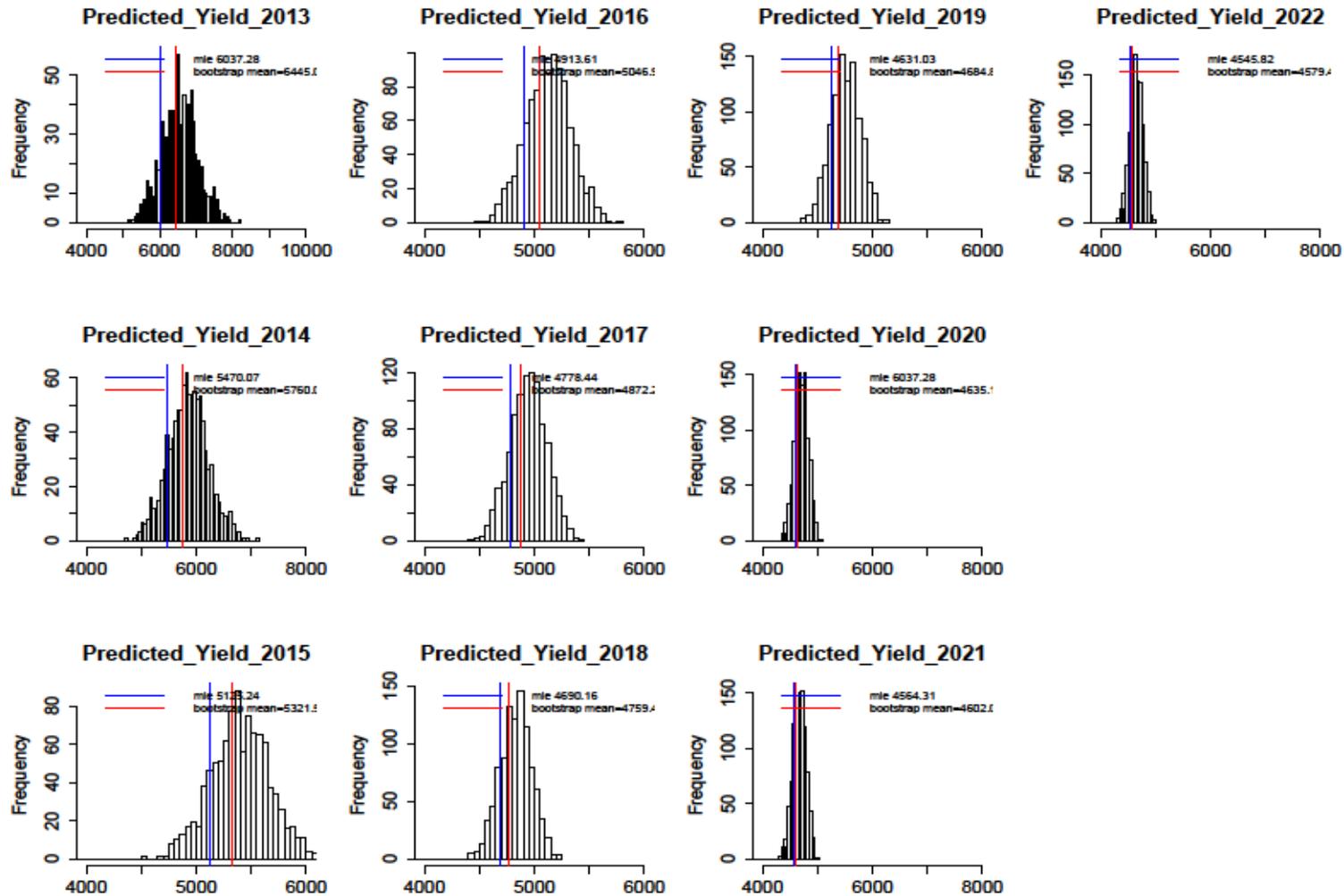


Figure 3.53. Summary for predicted retained yield (mtons, whole weight) for gulf of Mexico Spanish mackerel, from 1,000 bootstrap samples for the Run 3 mode (assuming steepness = 0.8 and $M = 0.38y^{-1}$). Red lines represent mean estimates from the bootstrap samples, blue lines represent the point estimate of the parameters from the Run 1 model.

3.8 Appendices

Appendix A. Length composition data for Gulf of Mexico Spanish mackerel. Fleet 1=COM_GN, Fleet 2=COM_RR, fleet 3=REC (recreational all modes), fleet 9 = SEAMAP SURVEY. Bin size=2 cm fork length widths.

| year | fleet | nsamp | Bin4 | Bin6 | Bin8 | Bin10 | Bin12 | Bin14 | Bin16 | Bin18 | Bin20 | Bin22 | Bin24 | Bin26 | Bin28 | Bin30 | Bin32 | Bin34 | Bin36 | Bin38 | Bin40 | Bin42 | Bin46 | Bin48 | Bin50 |
|------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1986 | 1 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 3 | 2 |
| 1987 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 3 | 11 | 42 | 60 | 72 | 85 | 79 |
| 1989 | 1 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 8 | 15 | 14 | 8 | 5 | 3 | 1 | 2 |
| 1990 | 1 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 9 | 12 | 7 | 10 | 6 | 4 | 8 |
| 1991 | 1 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 10 | 15 | 5 | 6 | 5 | 1 |
| 1992 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 22 | 31 | 49 | 49 | 37 | 32 |
| 1993 | 1 | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 18 | 16 | 10 | 8 | 7 | 6 |
| 1994 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 16 | 30 | 51 | 60 | 79 | 85 |
| 1995 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 11 | 4 | 2 | 6 | 6 | 4 | 24 |
| 1996 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 4 | 13 |
| 1997 | 1 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1999 | 1 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 4 | 5 | 5 | 2 | 3 | 3 |
| 2000 | 1 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 9 | 6 | 6 | 5 |
| 2001 | 1 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 5 | 5 | 2 | 3 |
| 2002 | 1 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 5 | 8 | 7 | 5 |
| 2003 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 8 | 9 | 14 | 19 | 9 | 14 |
| 2004 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 35 | 50 | 95 | 231 | 330 | 366 | 332 | 225 | 215 | 172 |
| 2005 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 20 | 32 | 52 | 100 | 171 | 276 | 338 | 251 | 221 | 203 | 169 |
| 2006 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 47 | 130 | 207 | 251 | 316 | 286 | 248 | 210 | 162 | 142 | 114 |
| 2007 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 59 | 123 | 192 | 268 | 387 | 481 | 389 | 288 | 245 | 207 | 174 |
| 2008 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 20 | 121 | 164 | 134 | 223 | 371 | 442 | 401 | 320 | 274 | 263 | 182 |
| 2009 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 48 | 130 | 173 | 325 | 348 | 348 | 282 | 248 | 227 | 188 |
| 2010 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 34 | 136 | 160 | 149 | 207 | 301 | 358 | 291 | 229 | 185 | 143 | 150 |

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|------|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2011 | 1 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 40 | 147 | 298 | 345 | 378 | 445 | 396 | 316 | 274 | 236 | 193 |
| 1983 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1984 | 2 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 2 | 1 | 2 |
| 1985 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 23 | 7 | 25 | 19 | 14 | 13 | 11 | 6 | 7 | 2 | 3 |
| 1986 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1991 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 6 | 3 | 9 | 12 | 12 |
| 1992 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 3 | 14 | 15 |
| 1993 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 9 | 7 | 2 | 0 | 2 | 3 | 8 | 4 | 10 |
| 1994 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 2 | 4 | 9 | 10 |
| 1995 | 2 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 1 | 0 | 2 | 3 |
| 1996 | 2 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 0 | 0 |
| 1997 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 2 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 2 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 7 |
| 2003 | 2 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 3 | 3 |
| 2004 | 2 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 2 |
| 2005 | 2 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 9 | 3 | 3 | 8 | 13 | 6 |
| 2006 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 8 | 6 | 13 | 12 |
| 2007 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 11 | 35 | 45 | 26 | 15 | 9 | 6 | 6 | 8 |
| 2008 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 2 | 10 | 17 | 19 | 27 |
| 2009 | 2 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 4 | 5 | 5 | 5 | 8 | 8 |
| 2010 | 2 | 67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 2 | 8 | 4 | 2 | 8 | 3 |
| 2011 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 7 | 5 | 15 | 20 | 23 |
| 1981 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 19 | 32 | 30 | 30 | 35 | 27 | 37 | 25 | 11 | 11 | 8 |
| 1982 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 5 | 26 | 47 | 66 | 29 | 53 | 40 | 32 | 36 | 16 | 26 | 16 |
| 1983 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 3 | 3 | 3 | 20 | 29 | 46 | 96 | 92 | 79 | 62 | 55 | 31 | 34 |

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|------|---|-----|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1984 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 2 | 5 | 14 | 36 | 82 | 129 | 71 | 62 | 38 | 27 | 22 | 10 |
| 1985 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 6 | 18 | 35 | 38 | 71 | 58 | 28 | 29 | 28 | 23 | 17 |
| 1986 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 13 | 45 | 122 | 183 | 154 | 159 | 90 | 78 | 56 | 39 | 33 |
| 1987 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 8 | 39 | 104 | 156 | 165 | 160 | 144 | 133 | 101 | 90 | 88 |
| 1988 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 4 | 18 | 53 | 82 | 92 | 97 | 96 | 77 | 51 | 50 | 41 |
| 1989 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 9 | 24 | 57 | 104 | 109 | 145 | 133 | 84 | 58 | 70 | 48 | 39 |
| 1990 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 2 | 9 | 15 | 52 | 104 | 134 | 146 | 128 | 96 | 74 | 53 | 56 | 49 |
| 1991 | 3 | 100 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 15 | 36 | 52 | 70 | 103 | 126 | 117 | 121 | 111 | 87 | 78 | 80 |
| 1992 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 3 | 18 | 67 | 132 | 234 | 240 | 238 | 156 | 123 | 106 | 94 | 97 |
| 1993 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 5 | 16 | 42 | 75 | 68 | 77 | 93 | 61 | 62 | 48 | 39 | 38 |
| 1994 | 3 | 100 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 11 | 44 | 70 | 76 | 111 | 97 | 103 | 86 | 76 | 63 | 66 |
| 1995 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 8 | 33 | 35 | 46 | 56 | 50 | 70 | 62 | 81 | 84 | 79 |
| 1996 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 1 | 2 | 3 | 27 | 36 | 55 | 76 | 111 | 101 | 94 | 79 | 87 | 86 | |
| 1997 | 3 | 100 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 4 | 1 | 2 | 15 | 45 | 50 | 68 | 64 | 82 | 117 | 76 | 90 | 97 | 114 | |
| 1998 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 10 | 38 | 46 | 82 | 98 | 142 | 128 | 124 | 97 | 91 | 110 | 81 | |
| 1999 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 30 | 68 | 143 | 155 | 246 | 304 | 295 | 280 | 218 | 155 | 146 | 167 | |
| 2000 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 14 | 74 | 176 | 232 | 336 | 381 | 324 | 255 | 219 | 177 | 136 |
| 2001 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 3 | 16 | 38 | 132 | 265 | 460 | 533 | 488 | 411 | 282 | 185 | 155 | 113 | |
| 2002 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 11 | 83 | 110 | 99 | 133 | 177 | 241 | 227 | 225 | 173 | 158 | |
| 2003 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 13 | 29 | 74 | 86 | 100 | 138 | 168 | 151 | 169 | 165 | 140 | 132 | |
| 2004 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 23 | 30 | 87 | 101 | 208 | 250 | 241 | 231 | 209 | 176 | 158 | 139 | |
| 2005 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 11 | 29 | 80 | 135 | 109 | 143 | 128 | 119 | 109 | 103 | 93 | |
| 2006 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 10 | 31 | 74 | 120 | 185 | 209 | 205 | 160 | 140 | 149 | 149 | |
| 2007 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 | 4 | 42 | 88 | 107 | 145 | 189 | 207 | 198 | 188 | 128 | 111 | |
| 2008 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 3 | 22 | 70 | 108 | 162 | 176 | 182 | 172 | 173 | 129 | 135 | 128 | |
| 2009 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 14 | 50 | 99 | 122 | 175 | 191 | 181 | 168 | 133 | 151 | 98 | |
| 2010 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 23 | 27 | 47 | 90 | 176 | 167 | 238 | 226 | 179 | 163 | 138 | 140 | |
| 2011 | 3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 9 | 46 | 171 | 249 | 275 | 305 | 322 | 279 | 247 | 194 | 172 | 125 | |

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|------|---|-----|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|
| 1987 | 9 | 14 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1988 | 9 | 82 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 5 | 21 | 10 | 5 | 1 | 0 | 7 | 8 | 5 | 6 | 2 | 5 | 3 | 0 | 0 | 0 |
| 1989 | 9 | 98 | 0 | 0 | 0 | 0 | 5 | 8 | 7 | 10 | 15 | 25 | 14 | 1 | 0 | 0 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 1990 | 9 | 100 | 0 | 0 | 0 | 0 | 19 | 10 | 22 | 28 | 19 | 5 | 2 | 3 | 6 | 5 | 7 | 5 | 4 | 1 | 2 | 5 | 2 | 1 | 0 |
| 1991 | 9 | 100 | 0 | 0 | 0 | 2 | 3 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 3 | 22 | 18 | 14 | 19 | 9 | 9 | 4 | 2 | 1 | 0 |
| 1992 | 9 | 100 | 0 | 0 | 0 | 0 | 0 | 2 | 13 | 8 | 5 | 6 | 20 | 10 | 4 | 5 | 4 | 9 | 4 | 7 | 2 | 2 | 2 | 1 | 0 |
| 1993 | 9 | 100 | 0 | 0 | 0 | 2 | 9 | 7 | 12 | 12 | 12 | 1 | 3 | 7 | 34 | 21 | 12 | 4 | 8 | 10 | 3 | 6 | 0 | 0 | 0 |
| 1994 | 9 | 78 | 0 | 0 | 0 | 2 | 5 | 13 | 6 | 13 | 5 | 0 | 1 | 3 | 1 | 1 | 2 | 1 | 6 | 4 | 3 | 4 | 4 | 1 | 1 |
| 1995 | 9 | 100 | 0 | 2 | 1 | 0 | 0 | 9 | 7 | 2 | 3 | 2 | 4 | 3 | 7 | 13 | 16 | 6 | 7 | 3 | 4 | 3 | 2 | 0 | 1 |
| 1996 | 9 | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 13 | 7 | 2 | 6 | 5 | 12 | 9 | 7 | 8 | 13 | 4 | 2 | 2 | 1 | 0 | 0 |
| 1997 | 9 | 62 | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 4 | 3 | 2 | 2 | 2 | 3 | 8 | 5 | 7 | 4 | 7 | 4 | 3 | 1 | 1 | 1 |
| 1998 | 9 | 69 | 0 | 1 | 0 | 2 | 0 | 2 | 2 | 11 | 10 | 4 | 2 | 1 | 11 | 8 | 2 | 1 | 2 | 2 | 0 | 1 | 1 | 0 | 0 |
| 1999 | 9 | 83 | 0 | 0 | 0 | 4 | 1 | 5 | 6 | 5 | 5 | 7 | 4 | 2 | 8 | 5 | 6 | 6 | 2 | 3 | 3 | 3 | 5 | 2 | 1 |
| 2000 | 9 | 99 | 0 | 0 | 0 | 0 | 4 | 18 | 8 | 8 | 8 | 9 | 19 | 6 | 4 | 2 | 5 | 3 | 2 | 1 | 1 | 0 | 1 | 0 | 0 |
| 2001 | 9 | 84 | 0 | 0 | 1 | 3 | 5 | 14 | 20 | 10 | 7 | 1 | 0 | 3 | 0 | 2 | 4 | 3 | 5 | 2 | 0 | 1 | 1 | 1 | 1 |
| 2002 | 9 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 9 | 0 | 1 | 1 | 0 | 1 | 3 | 4 | 1 | 3 | 0 | 1 | 2 | 1 | 3 | 0 |
| 2003 | 9 | 100 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 16 | 51 | 19 | 11 | 3 | 5 | 10 | 4 | 4 | 3 | 1 | 1 | 2 | 0 | 0 | 0 |
| 2004 | 9 | 71 | 1 | 0 | 0 | 1 | 5 | 2 | 4 | 2 | 2 | 4 | 3 | 5 | 7 | 8 | 9 | 3 | 4 | 4 | 2 | 1 | 2 | 0 | 1 |
| 2005 | 9 | 100 | 0 | 0 | 0 | 0 | 2 | 16 | 24 | 19 | 35 | 28 | 14 | 4 | 7 | 11 | 9 | 5 | 4 | 1 | 2 | 1 | 2 | 1 | 0 |
| 2006 | 9 | 88 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 11 | 7 | 4 | 3 | 4 | 13 | 12 | 7 | 9 | 2 | 3 | 2 | 0 | 1 | 3 |
| 2007 | 9 | 100 | 0 | 1 | 0 | 1 | 1 | 8 | 16 | 9 | 18 | 22 | 5 | 13 | 7 | 13 | 6 | 5 | 2 | 2 | 1 | 0 | 1 | 2 | 0 |
| 2008 | 9 | 100 | 0 | 0 | 2 | 6 | 7 | 4 | 15 | 4 | 0 | 0 | 3 | 12 | 16 | 20 | 4 | 2 | 6 | 2 | 2 | 1 | 4 | 1 | 1 |
| 2009 | 9 | 100 | 0 | 0 | 0 | 0 | 0 | 2 | 16 | 35 | 20 | 32 | 22 | 8 | 3 | 6 | 7 | 4 | 3 | 3 | 3 | 1 | 1 | 2 | 1 |
| 2010 | 9 | 81 | 0 | 0 | 1 | 0 | 1 | 4 | 5 | 3 | 7 | 7 | 1 | 5 | 5 | 10 | 8 | 9 | 6 | 5 | 1 | 1 | 2 | 0 | 0 |
| 2011 | 9 | 81 | 0 | 0 | 1 | 0 | 1 | 4 | 5 | 3 | 7 | 7 | 1 | 5 | 5 | 10 | 8 | 9 | 6 | 5 | 1 | 1 | 2 | 0 | 0 |

Appendix A. Continued.

| year | fleet | nsamp | Bin52 | Bin54 | Bin56 | Bin58 | Bin60 | Bin62 | Bin64 | Bin66 | Bin68 | Bin70 | Bin72 | Bin74 | Bin76 | Bin78 | Bin80 | Bin82 | Bin84 | Bin86 | Bin88 | Bin90 | Bin92 | Bin94 | Bin96 | Bin98 | Bin100 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1986 | 1 | 17 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1987 | 1 | 100 | 72 | 42 | 39 | 24 | 8 | 8 | 3 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 62 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 66 | 2 | 2 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 54 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 100 | 42 | 35 | 44 | 32 | 28 | 23 | 5 | 8 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 84 | 4 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 100 | 61 | 38 | 25 | 26 | 5 | 12 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 100 | 49 | 40 | 54 | 40 | 24 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 100 | 22 | 41 | 46 | 54 | 47 | 35 | 21 | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 12 | 3 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 36 | 5 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 38 | 5 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 23 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 34 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 100 | 9 | 4 | 9 | 3 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 100 | 136 | 86 | 83 | 60 | 59 | 47 | 13 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 100 | 120 | 98 | 107 | 74 | 54 | 22 | 19 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 100 | 60 | 54 | 26 | 39 | 22 | 16 | 7 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 100 | 115 | 98 | 55 | 30 | 42 | 16 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 100 | 126 | 84 | 63 | 58 | 57 | 39 | 12 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 100 | 142 | 84 | 55 | 43 | 36 | 21 | 7 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 100 | 128 | 128 | 106 | 93 | 56 | 37 | 11 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 100 | 138 | 107 | 72 | 76 | 59 | 23 | 20 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1983 | 2 | 7 | 0 | 1 | 1 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1984 | 2 | 23 | 2 | 4 | 1 | 0 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1985 | 2 | 100 | 6 | 3 | 7 | 3 | 7 | 8 | 2 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|-----|----|----|----|----|----|----|----|---|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1986 | 2 | 1 | 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 |
| 1991 | 2 | 100 | 20 | 26 | 27 | 29 | 25 | 13 | 6 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 2 | 100 | 15 | 20 | 26 | 51 | 36 | 32 | 9 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 2 | 100 | 6 | 11 | 12 | 8 | 17 | 6 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 2 | 100 | 17 | 10 | 11 | 15 | 12 | 4 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 2 | 38 | 3 | 2 | 7 | 8 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 2 | 22 | 2 | 1 | 2 | 4 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 2 | 16 | 1 | 1 | 3 | 4 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 2 | 21 | 2 | 3 | 4 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 2 | 37 | 5 | 2 | 10 | 4 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 2 | 15 | 1 | 2 | 2 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 2 | 70 | 7 | 5 | 5 | 3 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 2 | 100 | 13 | 9 | 12 | 7 | 7 | 7 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 2 | 100 | 12 | 5 | 5 | 8 | 5 | 3 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 2 | 100 | 26 | 23 | 23 | 20 | 23 | 5 | 6 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 2 | 81 | 7 | 5 | 7 | 3 | 10 | 2 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 2 | 67 | 6 | 4 | 4 | 5 | 8 | 5 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 2 | 100 | 21 | 47 | 31 | 29 | 24 | 17 | 12 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1981 | 3 | 100 | 11 | 5 | 4 | 6 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1982 | 3 | 100 | 12 | 14 | 3 | 8 | 2 | 6 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1983 | 3 | 100 | 17 | 22 | 12 | 18 | 6 | 7 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1984 | 3 | 100 | 15 | 8 | 6 | 8 | 9 | 2 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1985 | 3 | 100 | 14 | 15 | 17 | 10 | 8 | 3 | 3 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1986 | 3 | 100 | 35 | 23 | 16 | 15 | 12 | 7 | 10 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1987 | 3 | 100 | 75 | 84 | 58 | 28 | 22 | 14 | 9 | 8 | 10 | 1 | 2 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 3 | 100 | 45 | 31 | 22 | 24 | 18 | 4 | 9 | 3 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|-----|-----|-----|-----|-----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1989 | 3 | 100 | 41 | 30 | 14 | 17 | 11 | 8 | 4 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1990 | 3 | 100 | 55 | 36 | 32 | 23 | 14 | 5 | 3 | 2 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1991 | 3 | 100 | 61 | 53 | 34 | 40 | 20 | 18 | 6 | 6 | 1 | 2 | 2 | 3 | 6 | 3 | 0 | 2 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1992 | 3 | 100 | 79 | 58 | 70 | 48 | 32 | 22 | 12 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 2 | 1 | 3 | 0 | 0 | 1 | 0 | 0 | 1 | |
| 1993 | 3 | 100 | 40 | 30 | 33 | 27 | 23 | 14 | 6 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1994 | 3 | 100 | 71 | 39 | 30 | 34 | 24 | 12 | 3 | 4 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1995 | 3 | 100 | 51 | 61 | 54 | 50 | 27 | 30 | 15 | 18 | 2 | 6 | 2 | 3 | 4 | 2 | 4 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | |
| 1996 | 3 | 100 | 69 | 65 | 59 | 57 | 26 | 23 | 9 | 10 | 9 | 3 | 0 | 4 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | |
| 1997 | 3 | 100 | 90 | 105 | 81 | 52 | 37 | 21 | 11 | 12 | 5 | 5 | 0 | 1 | 1 | 1 | 0 | 4 | 0 | 1 | 2 | 1 | 0 | 1 | 2 | 1 | 0 | |
| 1998 | 3 | 100 | 108 | 81 | 66 | 63 | 50 | 41 | 17 | 10 | 7 | 2 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1999 | 3 | 100 | 156 | 142 | 109 | 92 | 78 | 59 | 31 | 21 | 9 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2000 | 3 | 100 | 194 | 144 | 137 | 121 | 97 | 52 | 35 | 18 | 9 | 11 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2001 | 3 | 100 | 73 | 87 | 57 | 71 | 54 | 34 | 21 | 15 | 4 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2002 | 3 | 100 | 138 | 111 | 102 | 88 | 61 | 50 | 30 | 15 | 7 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2003 | 3 | 100 | 121 | 98 | 94 | 92 | 71 | 38 | 28 | 18 | 10 | 3 | 4 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2004 | 3 | 100 | 140 | 115 | 87 | 82 | 56 | 42 | 20 | 16 | 8 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2005 | 3 | 100 | 100 | 78 | 64 | 56 | 31 | 28 | 15 | 9 | 7 | 1 | 3 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2006 | 3 | 100 | 126 | 91 | 70 | 62 | 36 | 39 | 27 | 5 | 9 | 4 | 1 | 1 | 2 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2007 | 3 | 100 | 91 | 81 | 69 | 67 | 47 | 30 | 19 | 6 | 6 | 1 | 0 | 0 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2008 | 3 | 100 | 96 | 85 | 71 | 58 | 52 | 23 | 16 | 14 | 7 | 1 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2009 | 3 | 100 | 80 | 94 | 52 | 45 | 35 | 18 | 20 | 11 | 4 | 4 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2010 | 3 | 100 | 125 | 93 | 76 | 47 | 55 | 15 | 8 | 8 | 1 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2011 | 3 | 100 | 132 | 92 | 72 | 45 | 38 | 17 | 14 | 7 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1987 | 9 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1988 | 9 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1989 | 9 | 98 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1990 | 9 | 100 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1991 | 9 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1992 | 9 | 100 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |

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|------|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1993 | 9 | 100 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 9 | 78 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 9 | 100 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 1996 | 9 | 94 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 9 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 9 | 69 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 9 | 83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 9 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 9 | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 9 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 9 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 9 | 71 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 9 | 100 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 9 | 88 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 9 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 9 | 100 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 2009 | 9 | 100 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 9 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 9 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Appendix B. Age composition data for Gulf of Mexico Spanish mackerel. Fleet 1=COM_GN, Fleet 2=COM_RR, fleet 3=REC (recreational all modes), fleet 9 = SEAMAP SURVEY. Bin size=2 cm fork length widths. L_binLow and L_Bin_High denote bin id of length composition to which age sample refers.

| Year | season | Fleet | Gender | Partition | Age_err_df | L_binLow | L_Bin_High | Nsamp | AGE | | | | | | | | | | | | |
|------|--------|-------|--------|-----------|------------|----------|------------|-------|-----|----|---|---|---|---|---|---|---|---|----|----|---|
| | | | | | | | | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| 1988 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 12 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 8 | 0 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 9 | 0 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 8 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 8 | 0 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 15 | 0 | 1 | 9 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 3 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 6 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 5 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 16 | 0 | 1 | 5 | 3 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|---|----|----|----|----|----|---|---|---|---|---|---|
| 1990 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 3 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 4 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 14 | 0 | 0 | 7 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 28 | 0 | 3 | 10 | 9 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 27 | 0 | 1 | 5 | 7 | 10 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 38 | 0 | 0 | 4 | 14 | 15 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 33 | 0 | 0 | 4 | 10 | 9 | 9 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 24 | 0 | 1 | 3 | 5 | 4 | 9 | 2 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 12 | 0 | 0 | 0 | 1 | 7 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 17 | 0 | 0 | 2 | 3 | 6 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 13 | 0 | 0 | 0 | 1 | 1 | 10 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 9 | 0 | 0 | 0 | 0 | 2 | 6 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 12 | 0 | 0 | 0 | 1 | 2 | 8 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 5 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 4 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 12 | 12 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 14 | 0 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 8 | 0 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 11 | 0 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 34 | 1 | 15 | 13 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 33 | 0 | 8 | 18 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 29 | 0 | 8 | 11 | 9 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 31 | 0 | 3 | 15 | 8 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 22 | 0 | 2 | 13 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 21 | 0 | 0 | 14 | 3 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 28 | 0 | 0 | 17 | 8 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 27 | 0 | 0 | 9 | 8 | 4 | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 23 | 0 | 0 | 9 | 5 | 2 | 2 | 4 | 1 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 18 | 0 | 0 | 4 | 7 | 1 | 1 | 5 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|---|---|----|----|----|---|---|---|---|---|---|---|
| 1991 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 12 | 0 | 0 | 1 | 4 | 1 | 1 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 5 | 0 | 0 | 0 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 3 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 1 | 0 | 2 | 2 | 33 | 33 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 12 | 12 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 4 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 14 | 0 | 2 | 9 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 34 | 0 | 0 | 17 | 14 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 42 | 0 | 0 | 21 | 13 | 7 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 51 | 0 | 1 | 19 | 24 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 41 | 0 | 2 | 6 | 19 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 33 | 0 | 0 | 6 | 16 | 6 | 3 | 0 | 1 | 1 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 40 | 0 | 0 | 9 | 14 | 5 | 9 | 1 | 2 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 40 | 0 | 0 | 7 | 19 | 6 | 5 | 1 | 2 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 39 | 0 | 0 | 5 | 12 | 13 | 3 | 2 | 4 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 31 | 0 | 0 | 4 | 6 | 11 | 4 | 0 | 5 | 1 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 26 | 0 | 0 | 1 | 5 | 13 | 4 | 0 | 3 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 18 | 0 | 0 | 1 | 2 | 8 | 1 | 1 | 5 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 1 | 0 | 2 | 2 | 32 | 32 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 13 | 0 | 1 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 26 | 0 | 0 | 18 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 25 | 0 | 0 | 12 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 14 | 0 | 0 | 8 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 10 | 0 | 0 | 4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 12 | 0 | 0 | 6 | 3 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 4 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|---|---|----|----|----|----|---|---|---|---|---|---|
| 1993 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 7 | 0 | 0 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1993 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 10 | 0 | 1 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 26 | 0 | 1 | 9 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 32 | 0 | 0 | 8 | 16 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 52 | 0 | 0 | 16 | 24 | 9 | 2 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 67 | 0 | 0 | 11 | 33 | 20 | 2 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 77 | 0 | 0 | 5 | 32 | 28 | 10 | 0 | 2 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 63 | 0 | 0 | 7 | 26 | 24 | 5 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 35 | 0 | 0 | 1 | 13 | 14 | 2 | 2 | 2 | 0 | 1 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 27 | 0 | 0 | 0 | 11 | 10 | 3 | 1 | 0 | 0 | 2 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 13 | 0 | 0 | 0 | 5 | 5 | 0 | 2 | 0 | 0 | 1 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 9 | 0 | 0 | 0 | 3 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 5 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 16 | 3 | 1 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 9 | 3 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 8 | 1 | 0 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 7 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 8 | 0 | 0 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 7 | 0 | 1 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|---|---|----|----|----|----|---|---|---|---|---|---|
| 1995 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 15 | 0 | 0 | 8 | 4 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 39 | 0 | 0 | 17 | 10 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 32 | 0 | 0 | 5 | 18 | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 31 | 0 | 0 | 3 | 11 | 12 | 3 | 2 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 29 | 0 | 0 | 0 | 14 | 12 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 13 | 0 | 0 | 0 | 2 | 6 | 2 | 3 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 6 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 3 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 3 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 3 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 4 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 9 | 0 | 0 | 2 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 15 | 0 | 0 | 5 | 5 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 29 | 0 | 1 | 3 | 14 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 36 | 0 | 0 | 4 | 14 | 11 | 5 | 1 | 0 | 0 | 1 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 45 | 0 | 0 | 0 | 23 | 12 | 6 | 1 | 1 | 2 | 0 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 38 | 0 | 0 | 0 | 14 | 14 | 4 | 2 | 1 | 1 | 1 | 0 | 1 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 40 | 0 | 0 | 0 | 10 | 9 | 14 | 2 | 1 | 3 | 1 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 18 | 0 | 0 | 0 | 2 | 8 | 3 | 3 | 0 | 2 | 0 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 11 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 1 | 0 | 1 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 1 | 0 | 2 | 2 | 33 | 33 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|---|---|---|---|---|---|---|---|---|---|---|
| 1998 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 5 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 7 | 0 | 0 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 4 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 1 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 5 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 6 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 11 | 0 | 1 | 3 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 16 | 0 | 0 | 3 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 9 | 0 | 0 | 0 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 7 | 0 | 0 | 0 | 5 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 7 | 0 | 1 | 0 | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 5 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 2001 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 1 | 0 | 2 | 2 | 33 | 33 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 11 | 11 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 12 | 12 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 9 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 4 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 6 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 9 | 0 | 2 | 3 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 4 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 7 | 0 | 1 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 11 | 0 | 0 | 3 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 7 | 0 | 1 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 4 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 4 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 8 | 0 | 0 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 3 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 8 | 0 | 2 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 4 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 13 | 0 | 1 | 6 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 8 | 0 | 0 | 3 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 2003 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 9 | 0 | 0 | 0 | 3 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 9 | 0 | 0 | 0 | 2 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 8 | 0 | 5 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 12 | 1 | 8 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 7 | 0 | 1 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 19 | 0 | 1 | 10 | 6 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 14 | 0 | 2 | 6 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 11 | 0 | 0 | 4 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 6 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 14 | 0 | 0 | 0 | 5 | 5 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 9 | 0 | 0 | 0 | 4 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 8 | 0 | 0 | 0 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 7 | 0 | 0 | 0 | 3 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 9 | 0 | 0 | 0 | 2 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 6 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 12 | 12 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 12 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 22 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 18 | 0 | 15 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 16 | 0 | 8 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 13 | 0 | 3 | 4 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 20 | 0 | 4 | 7 | 7 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 21 | 0 | 1 | 9 | 5 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 2005 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 21 | 0 | 4 | 5 | 5 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 21 | 0 | 0 | 8 | 6 | 3 | 3 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 20 | 0 | 0 | 7 | 8 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 26 | 0 | 0 | 5 | 6 | 7 | 6 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 22 | 0 | 0 | 6 | 10 | 1 | 3 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 21 | 0 | 0 | 2 | 6 | 4 | 5 | 3 | 1 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 12 | 0 | 0 | 0 | 0 | 3 | 6 | 1 | 2 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 8 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 2 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 7 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 16 | 0 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 24 | 0 | 21 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 20 | 1 | 12 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 21 | 0 | 10 | 6 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 9 | 0 | 1 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 8 | 0 | 0 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 3 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 4 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 9 | 0 | 0 | 1 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 7 | 0 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 3 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 13 | 1 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 15 | 0 | 9 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 22 | 0 | 10 | 7 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 21 | 0 | 3 | 7 | 8 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 21 | 0 | 5 | 4 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|---|----|----|---|----|---|---|---|---|---|---|---|
| 2007 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 12 | 0 | 1 | 4 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 16 | 0 | 0 | 2 | 6 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 7 | 0 | 0 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 10 | 0 | 0 | 1 | 2 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 17 | 0 | 0 | 1 | 4 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 6 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 11 | 11 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 12 | 1 | 10 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 20 | 0 | 13 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 38 | 3 | 22 | 5 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 32 | 1 | 8 | 11 | 8 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 37 | 0 | 11 | 9 | 6 | 9 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 29 | 0 | 5 | 9 | 9 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 27 | 0 | 6 | 8 | 6 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 19 | 0 | 0 | 4 | 7 | 5 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 18 | 0 | 2 | 2 | 4 | 7 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 20 | 0 | 1 | 2 | 6 | 5 | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 15 | 0 | 0 | 1 | 2 | 6 | 5 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 6 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 8 | 0 | 0 | 0 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 7 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 11 | 0 | 5 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 12 | 0 | 5 | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 16 | 0 | 2 | 6 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|
| 2009 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 10 | 0 | 3 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 14 | 0 | 5 | 2 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 10 | 0 | 0 | 2 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 7 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 4 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 4 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 6 | 0 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 11 | 0 | 3 | 6 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 12 | 0 | 2 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 9 | 1 | 0 | 4 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 7 | 0 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 5 | 0 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 7 | 0 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 4 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 2010 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 4 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 4 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 11 | 0 | 6 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 2011 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 10 | 0 | 4 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 6 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 8 | 0 | 0 | 2 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 7 | 0 | 0 | 5 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 4 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 5 | 0 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 5 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 2 | 0 | 2 | 2 | 14 | 14 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 2 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 2 | 0 | 2 | 2 | 14 | 14 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 2 | 0 | 2 | 2 | 15 | 15 | 15 | 3 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 2 | 0 | 2 | 2 | 16 | 16 | 27 | 3 | 21 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 28 | 1 | 20 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 19 | 0 | 14 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 10 | 0 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 6 | 0 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 4 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 2 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 2 | 0 | 2 | 2 | 14 | 14 | 18 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 2 | 0 | 2 | 2 | 15 | 15 | 49 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 2 | 0 | 2 | 2 | 16 | 16 | 31 | 0 | 28 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 25 | 0 | 12 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 12 | 0 | 5 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 4 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 1990 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 4 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 5 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 3 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 4 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 10 | 0 | 1 | 2 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 11 | 0 | 0 | 5 | 1 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 17 | 0 | 0 | 5 | 1 | 7 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 19 | 0 | 0 | 5 | 5 | 4 | 2 | 1 | 2 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 16 | 0 | 0 | 6 | 5 | 1 | 0 | 2 | 2 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 13 | 0 | 0 | 1 | 6 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 14 | 0 | 0 | 2 | 2 | 3 | 6 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 15 | 0 | 0 | 0 | 4 | 2 | 7 | 1 | 1 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 2 | 0 | 2 | 2 | 31 | 31 | 5 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 2 | 0 | 2 | 2 | 15 | 15 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 2 | 0 | 2 | 2 | 16 | 16 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 6 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 1992 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 3 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 4 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 7 | 0 | 0 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 8 | 0 | 0 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 4 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 6 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 6 | 0 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 5 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 11 | 0 | 0 | 0 | 3 | 6 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| 1993 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 7 | 0 | 0 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 5 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 3 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 2 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 2 | 0 | 2 | 2 | 33 | 33 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 2 | 0 | 2 | 2 | 14 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 2 | 0 | 2 | 2 | 15 | 15 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 1995 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 2 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 2 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 4 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 2001 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 4 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 |
| 2001 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 2 | 0 | 2 | 2 | 34 | 34 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 4 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 2 | 0 | 2 | 2 | 14 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 2 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 2 | 0 | 2 | 2 | 16 | 16 | 6 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 8 | 0 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 4 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 2003 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 2003 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 2 | 0 | 2 | 2 | 32 | 32 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2005 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 3 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 5 | 0 | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 4 | 0 | 1 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 5 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 2 | 0 | 2 | 2 | 16 | 16 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 5 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 4 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 3 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 2 | 0 | 2 | 2 | 16 | 16 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 3 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 3 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2008 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 3 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 2 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 3 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 6 | 0 | 0 | 1 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 4 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 5 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 1 | 0 | 0 | 0 |
| 2009 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 4 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 4 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 7 | 0 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 6 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 2 | 0 | 2 | 2 | 31 | 31 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 2 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|---|----|----|---|----|---|---|---|---|---|---|
| 2011 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 7 | 0 | 1 | 0 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 10 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 0 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 13 | 0 | 1 | 2 | 3 | 4 | 1 | 1 | 1 | 0 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 11 | 0 | 0 | 3 | 4 | 1 | 2 | 0 | 1 | 0 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 30 | 0 | 1 | 3 | 5 | 6 | 8 | 5 | 1 | 1 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 32 | 0 | 0 | 2 | 7 | 12 | 6 | 5 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 24 | 0 | 0 | 0 | 3 | 15 | 3 | 2 | 1 | 0 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 23 | 0 | 0 | 0 | 7 | 10 | 6 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 15 | 0 | 0 | 0 | 1 | 11 | 1 | 0 | 2 | 0 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 12 | 0 | 0 | 0 | 0 | 6 | 4 | 2 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 2 | 0 | 2 | 2 | 31 | 31 | 5 | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 12 | 12 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 23 | 0 | 5 | 17 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 21 | 0 | 1 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 8 | 0 | 2 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 12 | 0 | 2 | 1 | 6 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 7 | 0 | 0 | 3 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 3 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 6 | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 7 | 0 | 0 | 1 | 1 | 3 | 1 | 0 | 1 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 16 | 0 | 0 | 1 | 2 | 8 | 3 | 2 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 8 | 0 | 0 | 0 | 1 | 5 | 0 | 1 | 0 | 0 | 0 | 1 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 12 | 0 | 0 | 1 | 2 | 5 | 1 | 2 | 0 | 0 | 0 | 1 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 3 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 6 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 1 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 6 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 2 | 0 | 0 | 0 |

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| 1988 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 14 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 14 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 19 | 13 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 14 | 3 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 32 | 6 | 20 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 16 | 0 | 11 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 17 | 1 | 5 | 8 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 16 | 0 | 4 | 6 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 20 | 0 | 0 | 11 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 18 | 0 | 0 | 5 | 6 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 17 | 0 | 0 | 6 | 2 | 5 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 10 | 0 | 0 | 2 | 4 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 13 | 0 | 0 | 1 | 1 | 7 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 4 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 6 | 0 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 8 | 0 | 0 | 0 | 1 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 12 | 5 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 49 | 6 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 73 | 2 | 70 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 43 | 0 | 37 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 59 | 1 | 37 | 17 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 46 | 0 | 20 | 19 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 56 | 1 | 21 | 22 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 42 | 0 | 9 | 14 | 11 | 6 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 41 | 0 | 11 | 16 | 8 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 22 | 0 | 6 | 9 | 1 | 3 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |

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| 1990 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 29 | 0 | 7 | 13 | 5 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 29 | 0 | 3 | 7 | 8 | 6 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 23 | 0 | 0 | 5 | 9 | 4 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 20 | 0 | 0 | 7 | 2 | 7 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 17 | 0 | 0 | 1 | 8 | 5 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 24 | 0 | 0 | 0 | 4 | 8 | 8 | 3 | 0 | 1 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 10 | 0 | 0 | 0 | 5 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 11 | 0 | 0 | 0 | 2 | 4 | 4 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 33 | 33 | 5 | 0 | 0 | 0 | 1 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 3 | 0 | 2 | 2 | 35 | 35 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 12 | 12 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 23 | 10 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 12 | 2 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 17 | 0 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 24 | 0 | 22 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 19 | 0 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 19 | 0 | 15 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 20 | 0 | 10 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 17 | 0 | 8 | 7 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 22 | 0 | 6 | 11 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 18 | 0 | 1 | 7 | 7 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 26 | 0 | 6 | 13 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 19 | 0 | 3 | 8 | 2 | 2 | 1 | 1 | 2 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 19 | 0 | 0 | 6 | 8 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 23 | 0 | 0 | 11 | 7 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 13 | 0 | 0 | 4 | 3 | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 22 | 0 | 0 | 3 | 8 | 7 | 3 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 13 | 0 | 0 | 1 | 1 | 3 | 4 | 3 | 1 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 5 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|---|----|----|---|---|---|---|---|---|---|---|---|
| 1991 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 3 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 1 | 3 | 0 | 2 | 2 | 33 | 33 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 15 | 0 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 28 | 0 | 25 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 41 | 0 | 22 | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 56 | 0 | 23 | 31 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 25 | 0 | 9 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 21 | 1 | 6 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 13 | 0 | 0 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 9 | 0 | 1 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 11 | 0 | 0 | 4 | 5 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 10 | 0 | 0 | 5 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 10 | 0 | 1 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 14 | 0 | 0 | 5 | 4 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 10 | 0 | 2 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 14 | 0 | 0 | 4 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 6 | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 7 | 0 | 0 | 2 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 4 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 11 | 11 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 9 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 16 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 8 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 15 | 2 | 1 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 7 | 0 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 6 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 4 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 7 | 0 | 0 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|---|----|---|---|---|---|---|---|---|---|---|
| 1993 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 9 | 0 | 0 | 3 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 6 | 0 | 1 | 1 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 8 | 0 | 0 | 0 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 10 | 0 | 0 | 3 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 12 | 0 | 0 | 2 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 14 | 0 | 0 | 1 | 8 | 4 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 8 | 0 | 0 | 0 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 3 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 5 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 11 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 33 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 18 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 9 | 0 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 9 | 0 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 3 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 3 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 6 | 0 | 0 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 7 | 0 | 3 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 5 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 9 | 0 | 1 | 2 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 9 | 0 | 0 | 2 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 5 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 6 | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 8 | 0 | 0 | 1 | 2 | 4 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 6 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 1 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 7 | 0 | 0 | 0 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 |
| 1994 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|
| 1995 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 11 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 17 | 3 | 4 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 25 | 0 | 14 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 16 | 1 | 12 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 6 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 4 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 7 | 0 | 4 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 4 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 9 | 0 | 2 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 6 | 0 | 0 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 9 | 0 | 0 | 1 | 2 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 6 | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 9 | 0 | 0 | 1 | 1 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 11 | 0 | 0 | 0 | 4 | 1 | 3 | 2 | 1 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 11 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 13 | 5 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 21 | 7 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 20 | 5 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 40 | 4 | 26 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 26 | 0 | 17 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 48 | 1 | 24 | 11 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 31 | 0 | 20 | 5 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 19 | 0 | 6 | 7 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 9 | 0 | 3 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|---|----|---|---|---|---|---|---|---|---|---|---|
| 1996 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 10 | 0 | 2 | 2 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 10 | 0 | 0 | 2 | 5 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 5 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 4 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 8 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 17 | 2 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 14 | 2 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 18 | 3 | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 12 | 0 | 6 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 7 | 0 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 6 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 8 | 0 | 1 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 4 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 3 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 3 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 12 | 2 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 23 | 5 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 13 | 3 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 23 | 4 | 11 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 13 | 0 | 8 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|---|----|----|----|---|---|---|---|---|---|---|
| 1998 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 15 | 0 | 7 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 6 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 10 | 0 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 3 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 3 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 3 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 6 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 35 | 3 | 30 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 58 | 0 | 54 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 83 | 0 | 72 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 80 | 0 | 44 | 26 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 52 | 0 | 24 | 16 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 49 | 0 | 16 | 15 | 14 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 29 | 0 | 4 | 9 | 13 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 35 | 0 | 4 | 13 | 12 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 22 | 0 | 2 | 5 | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 34 | 0 | 0 | 9 | 18 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 17 | 0 | 2 | 0 | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 14 | 0 | 0 | 2 | 7 | 3 | 2 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 15 | 0 | 0 | 0 | 7 | 7 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 13 | 0 | 0 | 1 | 2 | 8 | 1 | 0 | 1 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 4 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 4 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 3 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 11 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 13 | 3 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|---|----|----|----|---|---|---|---|---|---|---|---|
| 2000 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 23 | 4 | 14 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 15 | 0 | 3 | 8 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 31 | 0 | 2 | 15 | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 8 | 0 | 2 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 5 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 9 | 0 | 1 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 9 | 0 | 0 | 2 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 6 | 0 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 7 | 0 | 0 | 0 | 1 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 5 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 5 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 7 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 10 | 0 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 19 | 1 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 9 | 1 | 0 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 11 | 1 | 5 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 16 | 0 | 4 | 5 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 8 | 0 | 1 | 3 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 8 | 0 | 1 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 5 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 5 | 0 | 1 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 5 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 5 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 4 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

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|------|---|---|---|---|---|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|
| 2002 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 7 | 1 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 15 | 3 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 24 | 3 | 17 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 34 | 0 | 19 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 46 | 0 | 15 | 19 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 44 | 0 | 10 | 21 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 28 | 0 | 6 | 14 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 37 | 0 | 3 | 22 | 7 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 36 | 0 | 1 | 13 | 13 | 8 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 35 | 0 | 0 | 13 | 13 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 29 | 0 | 1 | 3 | 9 | 12 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 30 | 0 | 0 | 9 | 11 | 5 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 23 | 0 | 0 | 2 | 8 | 10 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 15 | 0 | 0 | 1 | 6 | 7 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 12 | 0 | 0 | 0 | 0 | 9 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 8 | 0 | 0 | 0 | 0 | 6 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 4 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 22 | 14 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 54 | 9 | 43 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 61 | 2 | 40 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 75 | 5 | 28 | 36 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 62 | 4 | 19 | 28 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 54 | 1 | 9 | 28 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 47 | 1 | 12 | 21 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 30 | 0 | 4 | 11 | 8 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 38 | 0 | 7 | 15 | 7 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 29 | 0 | 4 | 11 | 6 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 2003 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 23 | 0 | 1 | 9 | 5 | 5 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 23 | 0 | 0 | 8 | 7 | 3 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 22 | 0 | 0 | 6 | 7 | 2 | 5 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 12 | 0 | 0 | 0 | 6 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 18 | 0 | 0 | 0 | 3 | 4 | 9 | 1 | 0 | 1 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 7 | 0 | 0 | 0 | 3 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 8 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 1 | 0 | 0 | 0 | 0 |
| 2003 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 11 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 27 | 4 | 14 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 24 | 2 | 8 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 36 | 2 | 15 | 14 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 31 | 0 | 13 | 13 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 24 | 1 | 7 | 8 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 14 | 0 | 3 | 9 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 21 | 0 | 2 | 13 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 22 | 0 | 4 | 5 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 27 | 0 | 5 | 6 | 4 | 7 | 4 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 28 | 0 | 2 | 1 | 9 | 11 | 1 | 3 | 1 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 17 | 0 | 0 | 2 | 9 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 19 | 0 | 0 | 1 | 3 | 8 | 1 | 5 | 1 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 16 | 0 | 0 | 0 | 1 | 9 | 3 | 2 | 1 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 6 | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 6 | 0 | 0 | 1 | 0 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2004 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| 2005 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 4 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 2005 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 14 | 0 | 9 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 8 | 0 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 6 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 4 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 4 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 2005 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2005 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 13 | 1 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 28 | 0 | 7 | 15 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 17 | 0 | 8 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 14 | 0 | 7 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 6 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 12 | 0 | 0 | 5 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 16 | 0 | 4 | 8 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 7 | 0 | 0 | 4 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 6 | 0 | 0 | 3 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 7 | 0 | 0 | 0 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 9 | 0 | 0 | 0 | 3 | 1 | 3 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2006 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 12 | 0 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 23 | 0 | 11 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 26 | 0 | 3 | 7 | 13 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 35 | 0 | 1 | 14 | 14 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 41 | 0 | 7 | 7 | 13 | 7 | 6 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 22 | 0 | 0 | 3 | 8 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 15 | 0 | 1 | 2 | 4 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |

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| 2007 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 6 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 11 | 0 | 0 | 2 | 2 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 9 | 0 | 0 | 0 | 1 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 5 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 2007 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 11 | 11 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 12 | 12 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 22 | 10 | 11 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 28 | 3 | 23 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 31 | 0 | 25 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 52 | 3 | 28 | 12 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 50 | 0 | 21 | 14 | 9 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 46 | 2 | 17 | 7 | 10 | 2 | 7 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 43 | 1 | 8 | 10 | 9 | 10 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 31 | 0 | 5 | 7 | 10 | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 16 | 0 | 1 | 5 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 22 | 0 | 6 | 4 | 4 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 13 | 0 | 0 | 3 | 5 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 13 | 0 | 0 | 1 | 4 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 8 | 0 | 1 | 1 | 0 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 9 | 0 | 0 | 3 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 8 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 |
| 2008 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 8 | 0 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 17 | 0 | 9 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 11 | 0 | 4 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 2009 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 23 | 0 | 2 | 12 | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 16 | 0 | 1 | 3 | 8 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 13 | 0 | 2 | 0 | 6 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 5 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 4 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 10 | 3 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 14 | 3 | 3 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 25 | 0 | 12 | 8 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 26 | 0 | 3 | 7 | 9 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 20 | 0 | 0 | 4 | 8 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 23 | 0 | 2 | 10 | 4 | 3 | 0 | 2 | 1 | 1 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 19 | 0 | 0 | 6 | 6 | 3 | 2 | 0 | 1 | 1 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 17 | 0 | 2 | 1 | 8 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 14 | 0 | 0 | 1 | 5 | 1 | 5 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 19 | 0 | 0 | 0 | 4 | 4 | 4 | 5 | 2 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 7 | 0 | 0 | 1 | 2 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 14 | 0 | 0 | 3 | 6 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 6 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2010 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|----|----|----|---|----|---|----|---|---|---|---|---|---|---|---|
| 2010 | 1 | 3 | 0 | 2 | 2 | 33 | 33 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 19 | 1 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 36 | 1 | 33 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 41 | 0 | 35 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 30 | 1 | 21 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 33 | 0 | 13 | 7 | 8 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 29 | 0 | 2 | 6 | 10 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 20 | 0 | 6 | 2 | 4 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 12 | 0 | 0 | 2 | 4 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 15 | 0 | 2 | 2 | 2 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 6 | 0 | 0 | 3 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 9 | 0 | 0 | 1 | 1 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 9 | 0 | 0 | 1 | 1 | 2 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 7 | 0 | 0 | 0 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 4 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

Appendix C. Starter File used in SS “Starter.SS”

```

## Stock Synthesis Version 3.24h
#
Span_dat.SS
span_ctl_RDM.SS
0 # 0=use init values in control file; 1=use ss3.par
1 # run display detail (0,1,2)
1 # detailed age-structured reports in REPORT.SSO (0,1)
1 # write detailed checkup.sso file (0,1)
1 # write parm values to ParmTrace.sso
2 # report level in CUMREPORT.SSO (0,1,2)
0 # Include prior_like for non-estimated parameters (0,1)
1 # Use Soft Boundaries to aid convergence
1 # Number of bootstrap datafiles to produce
7 # Turn off estimation for parameters entering after this phase
1000 # MCMC burn interval
100 # MCMC thin interval
0 # jitter initial parm value by this fraction
-1 # min yr for sdreport outputs (-1 for styr)
-2 # max yr for sdreport outputs (-1 for endyr; -2 for endyr+Nforecastyrs
0 # N individual STD years
0.0001 # final convergence criteria
0 # retrospective year relative to end year
1 # min age for calc of summary biomass
2 # Depletion basis: denom is: 0=skip; 1=rel X*B0; 2=rel X*Bmsy; 3=rel X*B_styr
1.00 # Fraction (X) for Depletion denominator
4 # (1-SPR)_reporting: 0=skip; 1=rel(1-SPR); 2=rel(1-SPR_MSY); 3=rel(1-SPR_Btarget); 4=notrel
1 # F_std reporting: 0=skip; 1=exploit(Bio); 2=exploit(Num); 3=sum(frates)
2 # F_report_basis: 0=raw; 1=rel Fspr; 2=rel Fmsy ; 3=rel Fbtgt
999

```

Appendix D. Input Forecast File used in SS "Forecast.SS"

```

#V3.24h
#C generic forecast file
# for all year entries except rebuilders; enter either: actual year, -999 for styr, 0 for endyr, neg number for rel.endyr

1 # Benchmarks: 0=skip; 1=calc F_spr,F_btgt,F_msy
2 # MSY: 1= set to F(SPR); 2=calc F(MSY); 3=set to F(Btgt); 4=set to F(endyr)
0.3 # SPR target (e.g. 0.40)
0.3 # Biomass target (e.g. 0.40)
#_Bmark_years: beg_bio, end_bio, beg_selex, end_selex, beg_relF, end_relF (enter actual year, or values of 0 or -integer to be rel.
endyr)
0 0 -5 0 0 #this was njc setup as of October 10- tilefish below
#0 0 0 0 -2 0 #one from tilefish
# 2001 2001 2001 2001 2001 2001 # after processing
1 #Bmark_relF_Basis: 1 = use year range; 2 = set relF same as forecast below
#
2 # Forecast: 0=none; 1=F(SPR); 2=F(MSY) 3=F(Btgt); 4=Ave F (uses first-last relF yrs); 5=input annual F scalar
10 # N forecast years
0.2 # F scalar (only used for Do_Forecast==5)
# Fcast_years: beg_selex, end_selex, beg_relF, end_relF (enter actual year, or values of 0 or -integer to be rel.endyr)
-5 0 -2 0 #this also changed back
# 2001 2001 1991 2001 # after processing
2 # Control rule method (1=catch=f(SSB) west coast; 2=F=f(SSB) )
0.01 # Control rule Biomass level for constant F (as frac of Bzero, e.g. 0.40)
0.005 # Control rule Biomass level for no F (as frac of Bzero, e.g. 0.10)
1.0 # Control rule target as fraction of Flimit (e.g. 0.75)#njc had it set to 0.75 for the Foy projection
3 #_N forecast loops (1-3) (fixed at 3 for now)
3 #_First forecast loop with stochastic recruitment
0 #_Forecast loop control #3 (reserved for future bells&whistles)
0 #_Forecast loop control #4 (reserved for future bells&whistles)
0 #_Forecast loop control #5 (reserved for future bells&whistles)
2012 #FirstYear for caps and allocations (should be after years with fixed inputs)
0 # stddev of log(realized catch/target catch) in forecast (set value>0.0 to cause active impl_error)
0 # Do West Coast gfish rebuilders output (0/1)
2012 # Rebuilder: first year catch could have been set to zero (Ydecl) (-1 to set to 1999)
2013 # Rebuilder: year for current age structure (Yinit) (-1 to set to endyear+1)
1 # fleet relative F: 1=use first-last alloc year; 2=read seas(row) x fleet(col) below
# Note that fleet allocation is used directly as average F if Do_Forecast=4
2 # basis for fcast catch tuning and for fcast catch caps and allocation (2=deadbio; 3=retainbio; 5=deadnum;6=retainnum)
# Conditional input if relative F choice = 2
# Fleet relative F: rows are seasons, columns are fleets
#_Fleet: FISHERY1
# 1
# max totalcatch by fleet (-1 to have no max)
-1 -1 -1 -1
# max totalcatch by area (-1 to have no max)
-1
# fleet assignment to allocation group (enter group ID# for each fleet, 0 for not included in an alloc group)
0 0 0 0

```

```
#_Conditional on >1 allocation group
# allocation fraction for each of: 0 allocation groups
# no allocation groups
0 # Number of forecast catch levels to input (else calc catch from forecast F)
#Nancie total directed retained catch in 2011 was 1479.834969 mtons
2 # basis for input Fcast catch: 2=dead catch; 3=retained catch; 99=input Hrate(F) (units are from fleetunits; note new codes in
SSV3.20)
# Input fixed catch values
#Year Seas Fleet Catch(or_F)
#
999 # verify end of input
```

Appendix E. Control File used in SS “span_dat.SS”

```

#
#Gulf of Mexico Spanish Mackerel Full model control file
#_data_and_control_files: span.dat // span.ctl

#SS -V3.24h October 17 2012; Stock Synthiesis_by_Richard_Method
1 #_N_Growth_Patterns
1 #_N_Morphs_Within_GrowthPattern
#_Cond 1 #_Morph_between/within_stdev_ratio (no read if N_morphs=1)
#_Cond 1 #vector_Morphdist_(-1_in_first_val_gives_normal_approx)
#
#_Cond 0 # N recruitment designs goes here if N_GP*nseas*area>1
#_Cond 0 # placeholder for recruitment interaction request
#_Cond 1 1 1 # example recruitment design element for GP=1, seas=1, area=1
#
#_Cond 0 # N_movement_definitions goes here if N_areas > 1
#_Cond 1.0 # first age that moves (real age at begin of season, not integer) also cond on do_migration>0
#_Cond 1 1 1 2 4 10 # example move definition for seas=1, morph=1, source=1 dest=2, age1=4, age2=10
#
2 #_Nblock_Patterns
2 2 #_Cond_0 #_blocks_per_pattern
1886 2005 2006 2011 # begin and end years of block pattern 2 blocks 1 and 2, for gillnet fishery
1886 1992 1993 2011 # begin and end years of blocks - 1993 size limit, USING ONLY TIME BLOCK FOR COM AND REC SEL
#
0.5 #_fracfemale
3 #_natM_type:_0=1Parm; 1=N_breakpoints; 2=Lorenzen; 3=agespecific; 4=agespec_withseasinterpolate
0.40 0.56 0.47 0.41 0.38 0.36 0.35 0.34 0.33 0.32 0.32 0.32 # age specific Lorenzen M, estimated assuming
M=0.38, ref age = 4
#4 #_no additional input for selected M option; read 1P per morph
1 #_GrowthModel: 1=vonBert with L1&L2; 2=Richards with L1&L2; 3=not implemented; 4=not implemented
0.5 #_Growth_Age_for_L1
999 #_Growth_Age_for_L2 (999 to use as Linf)
0 #_SD_add_to_LAA (set to 0.1 for SS2 V1.x compatibility)
2 #_CV_Growth_Pattern: 0 CV=f(LAA); 1 CV=F(A); 2 SD=F(LAA); 3 SD=F(A)
1 #_maturity_option: 1=length logistic; 2=age logistic; 3=read age-maturity matrix by growth_pattern; 4=read age-fecundity; 5=read
fec and wt from wtatage.ss
#_placeholder for empirical age-maturity by growth pattern
1 #_First_Mature_Age
1 #_fecundity_option: (1)eggs=Wt*(a+b*Wt); (2)eggs=a*L^b; (3)eggs=a*Wt^b
0 #_hermaphroditism_option: 0=none; 1=age-specific fxn
1 #_parameter_offset_approach (1=none, 2= M, G, CV_G as offset from female-GP1, 3=like SS2 V1.x)
2 #_env/block/dev_adjust_method (1=standard; 2=logistic transform keeps in base parm bounds; 3=standard w/ no bound check)
#
#_growth_parms
#_LO HI INIT PRIOR PR_type SD PHASE env-var use_dev dev_minyr dev_maxyr dev_stddev Block_Block_Fxn
#0.1 0.7 0.3 0.3 -1 99 -3 0 0 0 0 0 0 0 0
# NatM_p_1_Fem_GP_1

```

```

2          30          10          10          -1          5          3          0          0          0          0          0.5          0          0
# L_at_Amin_Fem_GP_1
40         90          56          56          -1          5          6          0          0          0          0          0.5          0          0
# L_at_Amax_Fem_GP_1
0.1        1.2         0.61         0.61         -1          0.2        6          0          0          0          0          0.5          0          0
# VonBert_K_Fem_GP_1

0.001      20          10          10          -1          99          7          0          0          0          0          0.5          0          0
# CV_young_Fem_GP_1
0.001      45          10          10          -1          99          7          0          0          0          0          0.5          0          0
# CV_old_Fem_GP_1

0.1         1          1.50E-05    1.50E-05    -1          0.8         -2          0          0          0          0          0.5          0          0
# Wtlen_1_Fem # WAS 1.1519E-05 FROM LITERATURE
2           4          2.8617      2.8617      -1          0.8         -2          0          0          0          0          0.5          0          0
# Wtlen_2_Fem # WAS 2.856 FROM LITERATURE
# making_all fish mature
25          100         31          31          -1          0.8         -3          0          0          0          0          0          0          0 #
Mat50%_Fem
-1          0          -0.065      -0.065      -1          0.8         -3          0          0          0          0          0          0          0 #
Mat_slope_Fem
-3          3          1          1          -1          0.8         -3          0          0          0          0          0          0          0 #
Eg/kg_inter_Fem
-3          3          0          0          -1          0.8         -3          0          0          0          0          0          0          0 #
Eg/kg_slope_wt_Fem
0           0          0          0          -1          0          -4          0          0          0          0          0          0          0 #
RecrDist_GP_1
0           0          0          0          -1          0          -4          0          0          0          0          0          0          0 #
RecrDist_Area_1
0           0          0          0          -1          0          -4          0          0          0          0          0          0          0 #
RecrDist_Seas_1
0           0          0          0          -1          0          -4          0          0          0          0          0          0          0 #
CohortGrowDev
#
#_Cond 0 #custom_MG-env_setup (0/1)
#_Cond -2 2 0 0 -1 99 -2 #_placeholder when no MG-environ parameters
#
#_Cond 0 #custom_MG-block_setup (0/1)
#_Cond -2 2 0 0 -1 99 -2 #_placeholder when no MG-block parameters
#_Cond No MG parm trends
#
# seasonal_effects_on_biology_parms
0 0 0 0 0 0 0 0 0 0 # femwtlen1,femwtlen2,mat1,mat2,fecl,fec2,Malewtlen1,malewtlen2,L1,K
#_Cond -2 2 0 0 -1 99 -2 #_placeholder when no seasonal MG parameters
#
#_Cond -4 #_MGparm_Dev_Phase

# Spawner-Recruitment
3 #_SR_function
#_LO HI INIT PRIOR PR_type SD PHASE

```

```

1      20      10      10      -1      99      4      # SR_R0 #_RDM start with larger value
#=====
#0.2    0.99    0.27    0.60    -1      99      -2      # SR_steep FOR PROFILING
#0.2    0.99    0.27    0.60    -1      99      -2      # SR_steep uniform/none
#0.2    0.99    0.8      0.80    0      0.80    -2      # SR_steep normal
#0.2    1      0.21445  0.60    2      2.5     -2      # SR_steep Full beta
#0.2    1      0.21445  0.60    -1     2.5     -2      # SR_steep symetrical beta
0.2     1      0.7      0.7     -1     2.5     4      # SR_steep
#=====
0       2      0.7      0.7     -1     0.8     -4      # SR_sigmaR
-5      5      0.1      0      -1     1      -3      # SR_envlink
-5      5      0      0      -1     1      -4      # SR_R1_offset
0       0      0      0      -1     0      -4      # SR_autocorr
0 # SR_env_link
0 # SR_env_target_0=none;1=devs;_2=R0;_3=steepness
1 #do_recdev: 0=none; 1=devvector; 2=simple deviations
1985 # first year of main recr_devs; early devs can preceed this era
2011 # last year of main recr_devs; forecast devs start in following year
3 #_recdev phase

#0# (0/1) to read 13 advanced options
1 # (0/1) to read 13 advanced options
0 #_recdev_early_start (0=none; neg value makes relative to recdev_start)
-4 #_recdev_early_phase
0 #_forecast_recruitment phase (incl. late recr) (0 value resets to maxphase+1)
1 #_lambda for Fcast_recr_like occurring before endyr+1
1984 #_last_early_yr_nobias_adj_in_MPD
1985 #_first_yr_fullbias_adj_in_MPD
2008 #_last_yr_fullbias_adj_in_MPD
2012 #_first_recent_yr_nobias_adj_in_MPD
0.25 #_max_bias_adj_in_MPD (-1 to override ramp and set biasadj=1.0 for all estimated recdevs)
0 #_period of cycles in recruitment (N parms read below)
-5 #min rec_dev
5 #max rec_dev
0 #_read_recdevs
#_end of advanced SR options

#
#
#Fishing Mortality info
0.3 # F ballpark for tuning early phases
-2001 # F ballpark year (neg value to disable)
2 # F_Method: 1=Pope; 2=instan. F; 3=hybrid (hybrid is recommended)
2.9 # max F or harvest rate, depends on F_Method
# no additional F input needed for Fmethod 1
#####
# if Fmethod=2; read overall start F value; overall phase; N detailed inputs to read
0.05 # RDM recommended to change to 0.05 from .1- this section is on page 75 in manual (njc)
1
4
1 1886 1 0.005 0.05 1

```

```

2 1886 1 0.005 0.05 1
3 1955 1 0.005 0.05 1
4 1945 1 0.005 0.05 1
#####
# if Fmethod=3; read N iterations for tuning for Fmethod 3
# 4 # N iterations for tuning F in hybrid method (recommend 3 to 7)

# initial_F_parms
# LO HI INIT PRIOR PR_type SD PHASE
0 1 0.0 0.0 -1 99 -1 # InitF_1FISHERY1 COM_GN
0 1 0.0 0.0 -1 99 -1 # InitF_1FISHERY2 COM_RR
0 1 0.0 0.0 -1 99 -1 # InitF_1FISHERY3 REC
0 1 0.0 0.0 -1 99 -1 # InitF_1FISHERY4 SHRIMP BYCATCH

# Q_setup
# A=do power, B=env-var, C=extra SD, D=devtype(<0=mirror, 0/1=none, 2=constant, 3=rand, 4=randwalk);
# A B C D E F
0 0 0 0 # 1 FISHERY1 COM_GN
0 0 0 0 # 2 FISHERY2 COM_RR
0 0 0 0 # 3 FISHERY3 REC
0 0 0 2 # 4 FISHERY4 SHRIMP EFFORT

0 0 0 0 # 1 SURVEY1 MRFSS
0 0 0 0 # 2 SURVEY2 Headboat
0 0 0 0 # 3 SURVEY3 Gillnet
0 0 0 0 # 4 SURVEY4 FWC Vertical Line
0 0 0 0 # 5 SURVEY5 SEAMAP Trawl

#
#_Cond 0 #_If q has random component, then 0=read one parm for each fleet with random q; 1=read a parm for each year of index
#_Q_parms(if_any)
# LO HI INIT PRIOR PR_type SD PHASE
#-50 50 -13 0 -1 1 1 # Q_base_2_SURVEY5 SHRIMP EFFORT span
-10 20 1 0 -1 1 1 # Q_base_2_FISHERY1 cobia #_RDM expanded range just in case

#_size_selex_types
#_Pattern Discard Male Special
24 0 0 0 # 1 FISHERY1 COM_GN - double norm ## discard code is 0 for GN since it is whole catch all are dead so only have
selectivly set
24 2 0 0 # 2 FISHERY2 COM_RR - double normal ## discard code is 2 for COM_RR = retained catch so read 4 retention and 4 discard
below
24 2 0 0 # 3 FISHERY3 MRFSS - logistic ## discard code is 2 for REC = retained catch so read 4 retention and 4 discard
below
# 1 2 0 0 # 2 FISHERY2 COM_RR - logistic ## discard code is 2 for COM_RR = retained catch so read 4 reention and 4 discard
below
# 1 2 0 0 # 3 FISHERY3 MRFSS - logistic ## discard code is 2 for REC = retained catch so read 4 retention and 4 discard
below
24 3 0 0 # 4 FISHERY5 Shrimp Effort - double norm #_RDM change to option #1 because all are dead, change 2 by rdm, email to
Isely August 7 2012, change discard option to 3 per rdm

5 0 0 3 # 1 SURVEY1 - MRFSS SURVEY mirror REC

```

```

5 0 0 3 # 2 SURVEY2 - HB Survey mirror REC
5 0 0 1 # 3 SURVEY3 - Gillnet Survey mirror COM_GN
5 0 0 2 # 4 SURVEY4 - FWC Fish Ticket Vert Line mirror COM_RR
5 0 0 4 # 5 SURVEY5 - SEAMAP Survey mirror Shrimp Bycatch
#
#_age_selex_types
#_Pattern ___ Male Special
11 0 0 0 # 1 FISHERY1 COM_GN - double norm
15 0 0 1 # 2 FISHERY2 COM_RR - logistic
15 0 0 1 # 3 FISHERY3 MRFSS - logistic
15 0 0 1 # 4 FISHERY4 Shrimp Effort - db norm

15 0 0 1 # 1 SURVEY1 - MRFSS Survey
15 0 0 1 # 2 SURVEY2 - HB Survey
15 0 0 1 # 3 SURVEY3 - Gillnet
15 0 0 1 # 4 SURVEY4 - Vert Line
15 0 0 1 # 5 SURVEY5 - SEAMAP

#_LENGTH SELEX PARMS
#####
#COM_GN / double normal
#LO HI INIT PRIOR PR_type SD PHASE env-var use_dev dev_minyr dev_maxyr dev_stddev Block_Pattern Block_Type
20 70 45 45 -1 99 3 0 0 0 0 0.5 1 2 # PEAK value
-20 20 -1.5 -1.5 -1 99 4 0 0 0 0 0.5 1 2 # TOP logistic
-20 15.0 5 5 -1 99 3 0 0 0 0 0.5 1 2 # WIDTH exp
-2 15 4 4 -1 99 2 0 0 0 0 0.5 1 2 # WIDTH exp
-1000 15 -999 -15 -1 99 -3 0 0 0 0 0 0 0.5
0 # INIT logistic

-1000 15 -999 -15 -1 99 -4 0 0 0 0 0 0.5 0
0 # FINAL logistic

#####
#COM_RR / using double normal specified as logistic
#LO HI INIT PRIOR PR_type SD PHASE env-var use_dev dev_minyr dev_maxyr dev_stddev Block_Pattern Block_Type
10 70 55 55 -1 99 -3 0 0 0 0 0.5 0 0 # PEAK value
RDM: reduce max from 99 to reasonable value
-20 15 10 10 -1 99 -4 0 0 0 0 0.5 0 0 # TOP logistic
-20 12 6.1 2 -1 99 4 0 0 0 0 0.5 0 0 # WIDTH exp
-5 15.0 -4 -4 -1 99 -3 0 0 0 0 0.5 0 0 # WIDTH exp
-1000 15 -999 -15 -1 99 -6 0 0 0 0 0 0.5
0 # INIT logistic

-15 15 15 15 -1 99 -6 0 0 0 0 0 0 0
0 # FINAL logistic

#
#COM_RR Retained Size
7 99 30 30 -1 99 -3 0 0 0 0 0.5 2 2 # P1 - inflection
-1 20 4.5 0.99 -1 99 -4 0 0 0 0 0.5 2 2 # P2 - slope
##njc changed to 0.99 fixed value to set knife edge

```

```

0.1 1 0.99 0.99 -1 99 -3 0 0 0 0 0.5 0 0 # P3 - asymptote -
use this to set non-selective mortality #_RDM allow estimate to get better fit to mean
-1 2 0 0 -1 99 -4 0 0 0 0 0.5 0 0 # P4 - male offset
to inflection (arithmetic, not multiplicative)
#
#COM_RR Release Mortality
-10 30 -4 -4 -1 99 -2 0 0 0 0 0.5 0 0 # P1 - inflection
-1 2 1 1 -1 99 -4 0 0 0 0 0.5 0 0 # P2 - slope
-1 2 0.1 0.1 -1 99 -2 0 0 0 0 0.5 0 0 # P3 - asymptote -
use this to set non-selective mortality
-1 2 0 0 -1 99 -4 0 0 0 0 0.5 0 0 # P4 - male offset
to inflection (arithmetic, not multiplicative)
#
#####
#MRFSS / DOUBLE NORMAL SPECIFIED AS logistic
#LO HI INIT PRIOR PR_type SD PHASE env-var use_dev dev_minyr dev_maxyr dev_stddev Block_Pattern Block_Type
7 99 40 40 -1 99 3 0 0 0 0 0.5 0 0 # PEAK value
-20 15 10 10 -1 99 -4 0 0 0 0 0.5 0 0 # TOP logistic
-10 12 6.6 2 -1 99 3 0 0 0 0 0.5 0 0 # WIDTH exp
-5 15 -4 -4 -1 99 -3 0 0 0 0 0.5 0 0 # WIDTH exp
-1000 15 -999 -15 -1 99 -6 0 0 0 0 0.5 0 0
# INIT logistic
-15 15 15 15 -1 99 -6 0 0 0 0 0.5 0 0
# FINAL logistic
#MRFSS Retained Size
7 99 30 30 -1 99 -3 0 0 0 0 0.5 2 2 # P1 -
inflection
-1 15 4.5 1 -1 99 -4 0 0 0 0 0.5 2 2 # P2 - slope
0.1 1 0.99 .99 -1 99 -3 0 0 0 0 0.5 0 0 # P3 - asymptote
- use this to set non-selective mortality #_RDM allow estimate to get better fit to mean
0 2 0 0 -1 99 -4 0 0 0 0 0.5 0 0 # P4 - male
offset to inflection (arithmetic, not multiplicative)
#
#MRFSS Released Mortality
-10 30 -4 -4 -1 99 -2 0 0 0 0 0.5 0 0 # P1 -
inflection
0 2 1 1 -1 99 -4 0 0 0 0 0.5 0 0 # P2 - slope
0 2 0.2 0.2 -1 99 -2 0 0 0 0 0.5 0 0 # P3 -
asymptote - use this to set non-selective mortality
-1 2 0 0 -1 99 -4 0 0 0 0 0.5 0 0 # P4 - male
offset to inflection (arithmetic, not multiplicative)
#####
###
#Shrimp Bycatch / double normal
#LO HI INIT PRIOR PR_type SD PHASE env-var use_dev dev_minyr dev_maxyr dev_stddev Block_Pattern Block_Type
10 70 20 20 -1 99 3 0 0 0 0 0.5 0 0 # PEAK value
-15 3 -12 -12 -1 99 4 0 0 0 0 0.5 0 0 # TOP logistic
-20 12 3.9 3.9 -1 99 3 0 0 0 0 0.5 0 0 # WIDTH exp
-2 12 5 5 -1 99 3 0 0 0 0 0.5 0 0 # WIDTH expS
-999 15 -999 -15 -1 99 -5 0 0 0 0 0.5 0 0 # WIDTH exp

```

```

-999 15 -999 -15 -1 99 -4 0 0 0 0 0.5 0 0 # FINAL
logistic
#Shrimp Retained
#1 30 4 4 -1 99 -2 0 0 0 0 0.5 0 0 # P1 -
inflection
#0 2 1 1 -1 99 -4 0 0 0 0 0.5 0 0 # P2 - slope
#0 1 0.0001 0.0001 -1 99 -2 0 0 0 0 0.5 0 0 # P3 - asymptote
- use this to set non-selective mortality
#0 2 0 0 -1 99 -4 0 0 0 0 0.5 0 0 # P4 - male
offset to inflection (arithmetic, not multiplicative)
#
#####
# Size Selex MIRRORS For the Surveys
#_LO HI INIT PRIOR PR_type SD PHASE env-var use_dev dev_minyr dev_maxyr dev_stddev Block Block_Fxn
1 49 1 1 -1 99 -2 0 0 0 0 0 0 # SizeSel_1P_1_FISHERY3 MRFSS Survey mirror fishery 3 REC
1 49 49 49 -1 99 -2 0 0 0 0 0 0 # SizeSel_1P_2_FISHERY3 MRFSS Survey mirror fishery 3 REC
1 49 1 1 -1 99 -2 0 0 0 0 0 0 # SizeSel_1P_1_FISHERY3 Hboat Survery mirror fishery 3 REC
1 49 49 49 -1 99 -2 0 0 0 0 0 0 # SizeSel_1P_2_FISHERY3 Hboat Survey mirror fishery 3 REC
1 49 1 1 -1 99 -2 0 0 0 0 0 0 # SizeSel_1P_1_FISHERY1 Gillnet index, mirror fishery 1
1 49 49 49 -1 99 -2 0 0 0 0 0 0 # SizeSel_1P_2_FISHERY1 Gillnet index, mirror fishery 1
1 49 1 1 -1 99 -2 0 0 0 0 0 0 # SizeSel_1P_1_FISHERY2 Vertical Line, mirror fishery 2
1 49 49 49 -1 99 -2 0 0 0 0 0 0 # SizeSel_1P_2_FISHERY2 Vertical Line, mirror fishery 2
1 49 1 1 -1 99 -2 0 0 0 0 0 0 # SizeSel_1P_1_FISHERY4 SEAMAP index, mirror fishery 4
1 49 49 49 -1 99 -2 0 0 0 0 0 0 # SizeSel_1P_2_FISHERY4 SEAMAP index, mirror fishery 4
#####
###
# AGE Selex
0 12 0 0 -1 99 -1 0 0 0 0 0 0 # AgeSel_1P_1_FISHERY1
0 12 12 12 -1 99 -1 0 0 0 0 0 0 # AgeSel_1P_2_FISHERY1
#_Cond 0 #_custom_sel-env_setup (0/1)
#_Cond -2 2 0 0 -1 99 -2 #_placeholder when no enviro fxns
1 #_Cond 0 #_custom_sel-blk_setup (0/1)
#COM_GN FLEET 1 SELECTIVITY/ double normal
#LO HI INIT PRIOR PR_type SD PHASE
20 70 45 45 -1 99 3 # P1 PEAK value PRE 2006
20 70 45 45 -1 99 3 # P1 PEAK value 2006+
-20 20 -1.5 -1.5 -1 99 4 # P2 TOP logistic PRE 2006
-20 20 -1.5 -1.5 -1 99 4 # P2 TOP logistic 2006+
-20 15.0 5 5 -1 99 3 # P3 WIDTH exp PRE 2006
-20 15.0 5 5 -1 99 3 # P3 WIDTH exp 2006+
-2 15 4 4 -1 99 4 # P4 WIDTH exp PRE 2006
-2 15 4 4 -1 99 4 # P4 WIDTH exp 2006+
#Commercial RR Retention - Pre and Post 1993 Size limit
7 99 26 26 -1 99 3 # P1 - inflection pre size limit
7 55 30.5 30.5 -1 99 3 # P1 - inflection post size limit
0.005 30 0.05 0.05 -1 99 -6 # P2 - slope_block1 pre size limit #njc changed min and init
value to 0.05 from 5.5
0.005 30 0.05 0.05 -1 99 6 # P2 - slope_block2 post size limit #njc changed min and init value to
0.05 from 5.5, then to 0.1
#Recreational Retention - Pre and Post 1993 Size limit
7 75 26 26 -1 99 3 # P1 - inflection pre size limit

```

```

7          55      30.5  30.5   -1   99      3      #   P1      -      inflection post size limit
0.005 30  2.05   0.05   -1   99      6      #   P2      -      slope_block1 pre size limit      #njc changed min and init value to
0.05 from 2.05
0.005 30          2.05   0.05   -1   99      6      #   P2      -      slope_block2 post size limit      #njc changed min and init
value to 0.05 from 2.05
#_Cond -2 2 0 0 -1 99 -2 #_placeholder when no block usage
#_Cond No selex parm trends
#_Cond -4 #_placeholder for selparm_Dev_Phase
1          #_Cond 0 #_env/block/dev_adjust_method (1=standard; 2=logistic trans to keep in base parm bounds; 3=standard w/ no bound check)
#
# Tag loss and Tag reporting parameters go next
0 # TG_custom: 0=no read; 1=read if tags exist
#_Cond -6 6 1 1 2 0.01 -4 0 0 0 0 0 0 #_placeholder if no parameters
#
1 #_Variance_adjustments_to_input_values
0          0          0          0 0 0 0 0 #_add_to_survey_CV
0          0          0          0          0          0          0          0          0          #_add_to_discard_stddev
0          0          0          0          0          0          0          0          0          #_add_to_bodywt_CV
1 1 1 1 1 1 1 1 #_mult_by_lencomp_N
1          1          1          1          1          1          1          1          1          #_mult_by_agecomp_N
1          1          1          1          1          1          1          1          1          #_mult_by_size-at-age
#
1 #_maxlambdaphase
1 #_sd_offset
#
0 # number of changes to make to default Lambdas (default value is 1.0)
# Like_comp codes: 1=surv; 2=disc; 3=mnwt; 4=length; 5=age; 6=SizeFreq; 7=sizeage; 8=catch;
# 9=init_equ_catch; 10=recrdev; 11=parm_prior; 12=parm_dev; 13=CrashPen; 14=Morphcomp; 15=Tag-comp; 16=Tag-negbin
#_comp fleet phase val      sizefreq_method
#age comps
# 5          1          1          1          1          # COM_GN
# 5          2          1          1          1          # COM_RR
# 5          3          1          1          1          # REC
# 5          4          1 0.001 1
# Lengths
# 4          1          1          1          1          # COM_GN
# 4          2          1          1          1          # COM_RR
# 4          3          1          1          1          # REC
# 4          4          1          1          1          # SHRIMP BYCATCH
# discards
# 2          2          1          1          1          # COM_RR
# 2          3          1          1          1          # REC
# 2          4          1          1          1          # Shrimp Bycatch
#catch
# 8          1          1          1          1          #FISHERY COM_GN
# 8          2          1          1          1          #FISHERY COM_RR
# Surveys
# 1          5          1          1          1          #SURVEY1 MRFSS
# 1          6          1          1          1          #SURVEY2 Headboat
# 1          7          1          1          1          #SURVEY3 Com GN
# 1          8          1          1          1          #SURVEY4 Com RR

```

```
# 1      9      1      1      1      #SURVEY5 Shrimp Bycatch  
  
0 # (0/1) read specs for more stddev reporting  
# 0 1 -1 5 1 5 1 -1 5 # placeholder for selex type, len/age, year, N selex bins, Growth pattern, N growth ages, NatAge_area(-1 for  
all), NatAge_yr, N Natages  
# placeholder for vector of selex bins to be reported  
# placeholder for vector of growth ages to be reported  
# placeholder for vector of NatAges ages to be reported  
999
```

Appendix F. Input data file used in SS "span_ctl.SS"

```

#C Spanish mackerel 2011
#C bootstrap file: 1
1886 #_styr
2011 #_endyr
1 #_nseas
12 #_months/season
1 #_spawn_seas
4 #_N_Fishing_fleet
5 #_Nsurveys
1 #_N_areas
Com_GN_1%Com_RR_2%REC_3%Shrimp_Bycatch_4%MRFSS_5%Headboat_6%Gillnet_7%COM_FWC_VERT_LINE_8%SEAMAP_Survey_9

0.5 #_surveytiming_in_season

1 1 1 1 1 1 1 1 #_area_assignments_for_each_fishery_and_survey
1 1 2 2 #_units of catch: 1=bio; 2=num

0.01 0.01 0.01 -1. #_se of log(catch) only used for init_eq_catch and for Fmethod 2 and 3
1 #_Ngenders
11 # Accumulator age per the manual not the number of ages (Nages)
0 0 0 0 #_init_equil_catch_for_each_fishery
126 # Number of Catch Observations
# COM_GN COM_RR REC SHRIMP YEAR TYPE
34.0 2.0 0 0 1886 1
68.43016708 4.142723315 0 0 1887 1
133.4387113 8.078424994 0 0 1888 1
255.75756 15.48361782 0 0 1889 1
296.3881022 17.94322936 0 0 1890 1
310.3605292 1.884331784 0 0 1891 1
310.3605292 1.884331784 0 0 1892 1
310.3605292 1.884331784 0 0 1893 1
310.3605292 1.884331784 0 0 1894 1
310.3605292 1.884331784 0 0 1895 1
310.3605292 1.884331784 0 0 1896 1
321.1938757 19.44512857 0 0 1897 1
416.771671 25.46937989 0 0 1898 1
416.771671 25.46937989 0 0 1899 1
416.771671 25.46937989 0 0 1900 1
416.771671 25.46937989 0 0 1901 1
677.4588215 41.01324713 0 0 1902 1

```

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| | | | | | |
|-------------|-------------|---|-----|------|---|
| 655.5522883 | 39.3331373 | 0 | 0 | 1903 | 1 |
| 655.5522883 | 39.3331373 | 0 | 0 | 1904 | 1 |
| 655.5522883 | 39.3331373 | 0 | 0 | 1905 | 1 |
| 655.5522883 | 39.3331373 | 0 | 0 | 1906 | 1 |
| 655.5522883 | 39.3331373 | 0 | 0 | 1907 | 1 |
| 635.5450549 | 38.47566471 | 0 | 0 | 1908 | 1 |
| 667.6138941 | 44.50759294 | 0 | 0 | 1909 | 1 |
| 775.6532078 | 49.8634205 | 0 | 0 | 1910 | 1 |
| 883.6816654 | 55.23010409 | 0 | 0 | 1911 | 1 |
| 991.7028478 | 60.60406292 | 0 | 0 | 1912 | 1 |
| 1099.718917 | 65.98313502 | 0 | 0 | 1913 | 1 |
| 1207.731255 | 71.36593782 | 0 | 0 | 1914 | 1 |
| 1315.740789 | 76.751546 | 0 | 0 | 1915 | 1 |
| 1423.748159 | 82.13931686 | 0 | 0 | 1916 | 1 |
| 1485.872836 | 88.05172367 | 0 | 0 | 1917 | 1 |
| 1506.318634 | 91.1916619 | 0 | 0 | 1918 | 1 |
| 1535.148767 | 93.20546088 | 0 | 0 | 1919 | 1 |
| 1585.315785 | 92.93230469 | 0 | 0 | 1920 | 1 |
| 1638.880721 | 98.33284324 | 0 | 0 | 1921 | 1 |
| 1643.159783 | 98.58958696 | 0 | 0 | 1922 | 1 |
| 1653.015944 | 100.0729394 | 0 | 0 | 1923 | 1 |
| 1751.16886 | 103.9756511 | 0 | 0 | 1924 | 1 |
| 1863.460154 | 109.6153032 | 0 | 0 | 1925 | 1 |
| 1975.754083 | 115.2523215 | 0 | 0 | 1926 | 1 |
| 2040.875956 | 123.5497203 | 0 | 0 | 1927 | 1 |
| 1413.068858 | 85.54363835 | 0 | 0 | 1928 | 1 |
| 1528.988512 | 92.561101 | 0 | 0 | 1929 | 1 |
| 1794.326473 | 108.6240679 | 0 | 0 | 1930 | 1 |
| 1018.029223 | 61.62904973 | 0 | 0 | 1931 | 1 |
| 1255.005154 | 75.9748529 | 0 | 0 | 1932 | 1 |
| 1373.57888 | 82.41473285 | 0 | 0 | 1933 | 1 |
| 1512.095016 | 91.53861734 | 0 | 0 | 1934 | 1 |
| 1867.743971 | 109.8672924 | 0 | 0 | 1935 | 1 |
| 2251.966558 | 136.3287958 | 0 | 0 | 1936 | 1 |
| 1704.256198 | 103.1716367 | 0 | 0 | 1937 | 1 |
| 1759.588442 | 106.5213786 | 0 | 0 | 1938 | 1 |
| 1834.941259 | 111.0831073 | 0 | 0 | 1939 | 1 |
| 1580.208302 | 95.66211907 | 0 | 0 | 1940 | 1 |
| 36.24630533 | 22.26558755 | 0 | 0 | 1941 | 1 |
| 36.24630533 | 22.26558755 | 0 | 0 | 1942 | 1 |
| 36.24630533 | 22.26558755 | 0 | 0 | 1943 | 1 |
| 36.24630533 | 22.26558755 | 0 | 0 | 1944 | 1 |
| 39.64706553 | 2.400306428 | 0 | 0 | 1945 | 1 |
| 36.24630533 | 22.26558755 | 0 | 0.1 | 1946 | 1 |
| 36.24630533 | 22.26558755 | 0 | 0.1 | 1947 | 1 |
| 383.7653132 | 23.23252777 | 0 | 0.1 | 1948 | 1 |
| 1657.808971 | 100.3600147 | 0 | 0.1 | 1949 | 1 |
| 1109.040718 | 67.13859114 | 0 | 0.1 | 1950 | 1 |
| 2784.599066 | 168.5732772 | 0 | 0.1 | 1951 | 1 |
| 1931.915336 | 116.9534348 | 0 | 0.1 | 1952 | 1 |
| 1276.310359 | 77.26476291 | 0 | 0.1 | 1953 | 1 |

| | | | | | |
|-------------|-------------|----------|-----|------|---|
| 1234.568037 | 74.73762103 | 0 | 0.1 | 1954 | 1 |
| 696.0213894 | 42.13562209 | 774.329 | 0.1 | 1955 | 1 |
| 1248.424966 | 75.57670272 | 858.972 | 0.1 | 1956 | 1 |
| 1560.510025 | 94.46938237 | 943.615 | 0.1 | 1957 | 1 |
| 1654.943512 | 100.1864837 | 1028.258 | 0.1 | 1958 | 1 |
| 2006.333205 | 121.4585833 | 1112.901 | 0.1 | 1959 | 1 |
| 2338.519559 | 141.5687079 | 1197.544 | 0.1 | 1960 | 1 |
| 1717.001379 | 103.9431567 | 1219.048 | 0.1 | 1961 | 1 |
| 3071.528135 | 63.12179139 | 1240.552 | 0.1 | 1962 | 1 |
| 2434.217912 | 36.52614134 | 1262.056 | 0.1 | 1963 | 1 |
| 1715.428671 | 78.89068647 | 1283.56 | 0.1 | 1964 | 1 |
| 2095.274878 | 129.7645834 | 1305.064 | 0.1 | 1965 | 1 |
| 3053.483264 | 151.6530827 | 1356.661 | 0.1 | 1966 | 1 |
| 2582.367971 | 128.2748432 | 1408.258 | 0.1 | 1967 | 1 |
| 3163.535515 | 116.4869825 | 1459.856 | 0.1 | 1968 | 1 |
| 3684.911877 | 98.94791266 | 1511.453 | 0.1 | 1969 | 1 |
| 3630.865374 | 120.1098237 | 1563.051 | 0.1 | 1970 | 1 |
| 3349.08911 | 124.4308569 | 1705.132 | 0.1 | 1971 | 1 |
| 2758.32349 | 204.4647598 | 1847.214 | 0.1 | 1972 | 1 |
| 2748.202882 | 61.41121132 | 1989.295 | 0.1 | 1973 | 1 |
| 3431.542543 | 318.2987038 | 2131.377 | 0.1 | 1974 | 1 |
| 2191.628777 | 358.0836524 | 2273.458 | 0.1 | 1975 | 1 |
| 3153.448217 | 376.7693205 | 2277.451 | 0.1 | 1976 | 1 |
| 904.9597517 | 290.8682143 | 2281.444 | 0.1 | 1977 | 1 |
| 505.3129052 | 268.0632764 | 2285.437 | 0.1 | 1978 | 1 |
| 931.1046676 | 31.38059107 | 2289.429 | 0.1 | 1979 | 1 |
| 831.7146714 | 44.53312872 | 2293.422 | 0.1 | 1980 | 1 |
| 1592.006749 | 90.35395561 | 2102.038 | 0.1 | 1981 | 1 |
| 1485.691109 | 81.6978089 | 3442.701 | 0.1 | 1982 | 1 |
| 960.017746 | 67.79082484 | 2430.193 | 0.1 | 1983 | 1 |
| 1566.665447 | 23.45874273 | 946.926 | 0.1 | 1984 | 1 |
| 904.115191 | 28.76168912 | 1177.354 | 0.1 | 1985 | 1 |
| 1225.099756 | 14.1535594 | 6397.814 | 0.1 | 1986 | 1 |
| 1190.630774 | 101.8198311 | 1794.555 | 0.1 | 1987 | 1 |
| 1038.640009 | 11.63168543 | 1459.955 | 0.1 | 1988 | 1 |
| 1388.061847 | 26.07807348 | 1135.6 | 0.1 | 1989 | 1 |
| 1161.126947 | 8.139340948 | 1597.435 | 0.1 | 1990 | 1 |
| 1488.327025 | 72.75712239 | 1738.578 | 0.1 | 1991 | 1 |
| 1682.054362 | 17.26254596 | 2393.032 | 0.1 | 1992 | 1 |
| 1167.933074 | 13.02606697 | 1488.351 | 0.1 | 1993 | 1 |
| 1249.588808 | 10.32238076 | 1427.593 | 0.1 | 1994 | 1 |
| 674.7322704 | 9.763892329 | 1073.448 | 0.1 | 1995 | 1 |
| 171.6726706 | 12.9178368 | 1260.391 | 0.1 | 1996 | 1 |
| 226.4684311 | 18.45872382 | 1261.861 | 0.1 | 1997 | 1 |
| 185.5482764 | 23.86442747 | 1180.977 | 0.1 | 1998 | 1 |
| 368.412134 | 27.16273403 | 1590.312 | 0.1 | 1999 | 1 |
| 394.2524232 | 18.93815317 | 1730.988 | 0.1 | 2000 | 1 |
| 500.4443274 | 36.1083695 | 2481.769 | 0.1 | 2001 | 1 |
| 412.7072599 | 17.42137548 | 1976.072 | 0.1 | 2002 | 1 |
| 627.9811197 | 19.77637795 | 1518.347 | 0.1 | 2003 | 1 |
| 469.4024284 | 18.92331502 | 2150.34 | 0.1 | 2004 | 1 |

```

662.4834388 15.69706811 1216.407 0.1 2005 1
614.0356686 28.29383044 1789.544 0.1 2006 1
413.7935981 13.25205018 1352.93 0.1 2007 1
521.225866 38.7007447 1905.216 0.1 2008 1
789.0971604 34.61240289 1518.817 0.1 2009 1
501.3432236 65.5186339 1601.134 0.1 2010 1
546.1829242 54.05135563 1547.069 0.1 2011 1

```

```

#
# Abundance Indices
188 # Number of Survey Observations
# Fleet Units (0=num, 1=bio, 2=F) error dist(-1=normal, 0=lognorm, >0=df_T)
1 1 0 # COM_GN
2 1 0 # COM_RR
3 0 0 # REC
4 2 0 # Shrimp Effort
5 0 0 # MRFSS
6 0 0 # Hboat
7 1 0 # COM_GN LOGBOOK
8 1 0 # COM_FWC_VERT_LINE
9 0 0 # SEAMAP SURVEY

```

```

#Year Season FLEET EFFORT SD Label
# represents shrimp effort of choice
# year fleet scaled effort # Shrimp Effort label
1945 1 4 0.001 0.125 # Shrimp Effort # Shrimp
1946 1 4 0.004669018 0.125 # Shrimp
Effort 1947 1 4 0.023811993 0.125 # Shrimp
Effort 1948 1 4 0.062564845 0.125 # Shrimp
Effort 1949 1 4 0.101084245 0.125 # Shrimp
Effort 1950 1 4 0.180224105 0.125 # Shrimp
Effort 1951 1 4 0.228548444 0.125 # Shrimp
Effort 1952 1 4 0.269869256 0.125 # Shrimp
Effort 1953 1 4 0.278506939 0.125 # Shrimp
Effort 1954 1 4 0.362549268 0.125 # Shrimp
Effort 1955 1 4 0.358814053 0.125 # Shrimp
Effort 1956 1 4 0.460598652 0.125 # Shrimp
Effort 1957 1 4 0.537637453 0.125 # Shrimp
Effort 1958 1 4 0.696150623 0.125 # Shrimp
Effort

```

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| | | | | | | | |
|--------|---------------|---|---|-------------|-------|---|--------|
| Effort | 1959 | 1 | 4 | 0.748677078 | 0.125 | # | Shrimp |
| Effort | 1960 | 1 | 4 | 0.748248745 | 0.125 | # | Shrimp |
| Effort | 1961 | 1 | 4 | 0.461965464 | 0.125 | # | Shrimp |
| Effort | 1962 | 1 | 4 | 0.796688961 | 0.125 | # | Shrimp |
| Effort | 1963 | 1 | 4 | 0.901471045 | 0.125 | # | Shrimp |
| Effort | 1964 | 1 | 4 | 1.062382853 | 0.125 | # | Shrimp |
| Effort | 1965 | 1 | 4 | 0.688010649 | 0.125 | # | Shrimp |
| Effort | 1966 | 1 | 4 | 0.580599779 | 0.125 | # | Shrimp |
| Effort | 1967 | 1 | 4 | 0.696735062 | 0.125 | # | Shrimp |
| Effort | 1968 | 1 | 4 | 0.816884814 | 0.125 | # | Shrimp |
| Effort | 1969 | 1 | 4 | 0.894284436 | 0.125 | # | Shrimp |
| Effort | 1970 | 1 | 4 | 0.628212137 | 0.125 | # | Shrimp |
| Effort | 1971 | 1 | 4 | 0.711675645 | 0.125 | # | Shrimp |
| Effort | 1972 | 1 | 4 | 0.995050076 | 0.125 | # | Shrimp |
| Effort | 1973 | 1 | 4 | 1.012571097 | 0.125 | # | Shrimp |
| Effort | 1974 | 1 | 4 | 1.0450401 | 0.125 | # | |
| | Shrimp Effort | | | | | | |
| Effort | 1975 | 1 | 4 | 0.802247483 | 0.125 | # | Shrimp |
| Effort | 1976 | 1 | 4 | 1.115133225 | 0.125 | # | Shrimp |
| Effort | 1977 | 1 | 4 | 1.384552149 | 0.125 | # | Shrimp |
| Effort | 1978 | 1 | 4 | 1.92755231 | 0.125 | # | Shrimp |
| Effort | 1979 | 1 | 4 | 2.029138408 | 0.125 | # | Shrimp |
| Effort | 1980 | 1 | 4 | 1.491874379 | 0.125 | # | Shrimp |
| Effort | 1981 | 1 | 4 | 1.540411951 | 0.125 | # | Shrimp |
| Effort | 1982 | 1 | 4 | 1.473560859 | 0.125 | # | Shrimp |
| Effort | 1983 | 1 | 4 | 1.595318307 | 0.125 | # | Shrimp |

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| | | | | | | | |
|--------|------|---|---|-------------|-------|---|--------|
| Effort | 1984 | 1 | 4 | 1.636084144 | 0.125 | # | Shrimp |
| Effort | 1985 | 1 | 4 | 1.762284299 | 0.125 | # | Shrimp |
| Effort | 1986 | 1 | 4 | 1.855517978 | 0.125 | # | Shrimp |
| Effort | 1987 | 1 | 4 | 2.156347484 | 0.125 | # | Shrimp |
| Effort | 1988 | 1 | 4 | 1.629358168 | 0.125 | # | Shrimp |
| Effort | 1989 | 1 | 4 | 1.94696849 | 0.125 | # | Shrimp |
| Effort | 1990 | 1 | 4 | 1.895500031 | 0.125 | # | Shrimp |
| Effort | 1991 | 1 | 4 | 1.812570503 | 0.125 | # | Shrimp |
| Effort | 1992 | 1 | 4 | 1.574425171 | 0.125 | # | Shrimp |
| Effort | 1993 | 1 | 4 | 1.473319277 | 0.125 | # | Shrimp |
| Effort | 1994 | 1 | 4 | 1.612885045 | 0.125 | # | Shrimp |
| Effort | 1995 | 1 | 4 | 1.38522427 | 0.125 | # | Shrimp |
| Effort | 1996 | 1 | 4 | 1.485346076 | 0.125 | # | Shrimp |
| Effort | 1997 | 1 | 4 | 1.517712625 | 0.125 | # | Shrimp |
| Effort | 1998 | 1 | 4 | 1.648277699 | 0.125 | # | Shrimp |
| Effort | 1999 | 1 | 4 | 1.717437717 | 0.125 | # | Shrimp |
| Effort | 2000 | 1 | 4 | 1.535732761 | 0.125 | # | Shrimp |
| Effort | 2001 | 1 | 4 | 1.491186635 | 0.125 | # | Shrimp |
| Effort | 2002 | 1 | 4 | 1.32140767 | 0.125 | # | Shrimp |
| Effort | 2003 | 1 | 4 | 1.076364509 | 0.125 | # | Shrimp |
| Effort | 2004 | 1 | 4 | 0.829801142 | 0.125 | # | Shrimp |
| Effort | 2005 | 1 | 4 | 0.499034062 | 0.125 | # | Shrimp |
| Effort | 2006 | 1 | 4 | 0.663099426 | 0.125 | # | Shrimp |
| Effort | 2007 | 1 | 4 | 0.649566399 | 0.125 | # | Shrimp |
| Effort | 2008 | 1 | 4 | 0.560997109 | 0.125 | # | Shrimp |

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|--------|------|---|--------|--------|------------|---|-------|---|--------|
| Effort | 2009 | 1 | | 4 | | 0.653462462 | 0.125 | # | Shrimp |
| Effort | 2010 | 1 | | 4 | | 0.463170413 | 0.125 | # | Shrimp |
| Effort | 2011 | 1 | | 4 | | 0.43360253 | 0.125 | # | Shrimp |
| 1981 | 1 | 5 | 0.8981 | 0.4377 | # MRFSS | #se calculated as sqrt(log(1+CV(index)**2)) | | | |
| 1982 | 1 | 5 | 1.2552 | 0.7935 | # MRFSS | | | | |
| 1983 | 1 | 5 | 0.8820 | 0.6986 | # MRFSS | | | | |
| 1984 | 1 | 5 | 0.6564 | 0.6170 | # MRFSS | | | | |
| 1985 | 1 | 5 | 0.7353 | 0.5893 | # MRFSS | | | | |
| 1986 | 1 | 5 | 2.6980 | 0.8561 | # MRFSS | | | | |
| 1987 | 1 | 5 | 1.1851 | 0.7114 | # MRFSS | | | | |
| 1988 | 1 | 5 | 0.8780 | 0.6646 | # MRFSS | | | | |
| 1989 | 1 | 5 | 1.0244 | 0.6841 | # MRFSS | | | | |
| 1990 | 1 | 5 | 1.9452 | 0.8619 | # MRFSS | | | | |
| 1991 | 1 | 5 | 1.3235 | 0.7116 | # MRFSS | | | | |
| 1992 | 1 | 5 | 1.4129 | 0.7470 | # MRFSS | | | | |
| 1993 | 1 | 5 | 0.7096 | 0.6855 | # MRFSS | | | | |
| 1994 | 1 | 5 | 0.6942 | 0.5974 | # MRFSS | | | | |
| 1995 | 1 | 5 | 0.4094 | 0.5214 | # MRFSS | | | | |
| 1996 | 1 | 5 | 0.6716 | 0.5985 | # MRFSS | | | | |
| 1997 | 1 | 5 | 0.6881 | 0.6000 | # MRFSS | | | | |
| 1998 | 1 | 5 | 0.7264 | 0.6124 | # MRFSS | | | | |
| 1999 | 1 | 5 | 1.1596 | 0.6931 | # MRFSS | | | | |
| 2000 | 1 | 5 | 0.7170 | 0.6426 | # MRFSS | | | | |
| 2001 | 1 | 5 | 0.8873 | 0.6959 | # MRFSS | | | | |
| 2002 | 1 | 5 | 0.8451 | 0.6840 | # MRFSS | | | | |
| 2003 | 1 | 5 | 0.8580 | 0.6690 | # MRFSS | | | | |
| 2004 | 1 | 5 | 0.9920 | 0.6841 | # MRFSS | | | | |
| 2005 | 1 | 5 | 0.5725 | 0.6475 | # MRFSS | | | | |
| 2006 | 1 | 5 | 0.9179 | 0.6852 | # MRFSS | | | | |
| 2007 | 1 | 5 | 0.9469 | 0.6546 | # MRFSS | | | | |
| 2008 | 1 | 5 | 0.9681 | 0.6606 | # MRFSS | | | | |
| 2009 | 1 | 5 | 0.9646 | 0.6375 | # MRFSS | | | | |
| 2010 | 1 | 5 | 1.0875 | 0.7155 | # MRFSS | | | | |
| 2011 | 1 | 5 | 1.2902 | 0.7083 | # MRFSS | | | | |
| -1986 | 1 | 6 | 0.73 | 0.25 | # Headboat | | | | |
| -1987 | 1 | 6 | 1.91 | 0.25 | # Headboat | | | | |
| -1988 | 1 | 6 | 0.63 | 0.25 | # Headboat | | | | |
| -1989 | 1 | 6 | 0.96 | 0.25 | # Headboat | | | | |
| -1990 | 1 | 6 | 1.04 | 0.25 | # Headboat | | | | |
| -1991 | 1 | 6 | 2.44 | 0.25 | # Headboat | | | | |
| -1992 | 1 | 6 | 1.41 | 0.25 | # Headboat | | | | |
| -1993 | 1 | 6 | 0.96 | 0.25 | # Headboat | | | | |
| -1994 | 1 | 6 | 1.33 | 0.25 | # Headboat | | | | |
| -1995 | 1 | 6 | 0.91 | 0.25 | # Headboat | | | | |
| -1996 | 1 | 6 | 0.85 | 0.25 | # Headboat | | | | |
| -1997 | 1 | 6 | 0.67 | 0.25 | # Headboat | | | | |
| -1998 | 1 | 6 | 0.34 | 0.25 | # Headboat | | | | |
| -1999 | 1 | 6 | 0.66 | 0.25 | # Headboat | | | | |

| | | | | | |
|-------|---|---|---------|-------------|---------------------|
| -2000 | 1 | 6 | 0.96 | 0.25 | # Headboat |
| -2001 | 1 | 6 | 0.35 | 0.25 | # Headboat |
| -2002 | 1 | 6 | 0.74 | 0.25 | # Headboat |
| -2003 | 1 | 6 | 0.42 | 0.25 | # Headboat |
| -2004 | 1 | 6 | 0.3 | 0.25 | # Headboat |
| -2005 | 1 | 6 | 0.37 | 0.25 | # Headboat |
| -2006 | 1 | 6 | 1.02 | 0.25 | # Headboat |
| -2007 | 1 | 6 | 1.04 | 0.25 | # Headboat |
| -2008 | 1 | 6 | 1.62 | 0.25 | # Headboat |
| -2009 | 1 | 6 | 1.5 | 0.25 | # Headboat |
| -2010 | 1 | 6 | 0.99 | 0.25 | # Headboat |
| -2011 | 1 | 6 | 1.82 | 0.25 | # Headboat |
| -1998 | 1 | 7 | 0.56137 | 1.402862166 | # Gillnet |
| -1999 | 1 | 7 | 0.36191 | 0.754696424 | # Gillnet |
| -2000 | 1 | 7 | 0.25462 | 0.607726803 | # Gillnet |
| -2001 | 1 | 7 | 0.80905 | 0.482417492 | # Gillnet |
| -2002 | 1 | 7 | 0.0705 | 0.636722669 | # Gillnet |
| -2003 | 1 | 7 | 2.19239 | 1.045292238 | # Gillnet |
| -2004 | 1 | 7 | 2.06259 | 1.29086811 | # Gillnet |
| -2005 | 1 | 7 | 2.37125 | 0.96597585 | # Gillnet |
| -2006 | 1 | 7 | 0.19907 | 0.715991358 | # Gillnet |
| -2007 | 1 | 7 | 0.70306 | 0.652266994 | # Gillnet |
| -2008 | 1 | 7 | 0.56617 | 0.828449353 | # Gillnet |
| -2009 | 1 | 7 | 0.57952 | 1.293673735 | # Gillnet |
| -2010 | 1 | 7 | 2.2685 | 0.868775614 | # Gillnet |
| 1986 | 1 | 8 | 0.687 | 0.1901 | # COM_FWC_VERT_LINE |
| 1987 | 1 | 8 | 0.537 | 0.1854 | # COM_FWC_VERT_LINE |
| 1988 | 1 | 8 | 0.729 | 0.1943 | # COM_FWC_VERT_LINE |
| 1989 | 1 | 8 | 1.529 | 0.2029 | # COM_FWC_VERT_LINE |
| 1990 | 1 | 8 | 0.979 | 0.2027 | # COM_FWC_VERT_LINE |
| 1991 | 1 | 8 | 1.089 | 0.2005 | # COM_FWC_VERT_LINE |
| 1992 | 1 | 8 | 1.083 | 0.2158 | # COM_FWC_VERT_LINE |
| 1993 | 1 | 8 | 0.595 | 0.2220 | # COM_FWC_VERT_LINE |
| 1994 | 1 | 8 | 1.032 | 0.2187 | # COM_FWC_VERT_LINE |
| 1995 | 1 | 8 | 0.933 | 0.2325 | # COM_FWC_VERT_LINE |
| 1996 | 1 | 8 | 0.721 | 0.2284 | # COM_FWC_VERT_LINE |
| 1997 | 1 | 8 | 0.782 | 0.2340 | # COM_FWC_VERT_LINE |
| 1998 | 1 | 8 | 1.145 | 0.2360 | # COM_FWC_VERT_LINE |
| 1999 | 1 | 8 | 0.955 | 0.2350 | # COM_FWC_VERT_LINE |
| 2000 | 1 | 8 | 0.752 | 0.2411 | # COM_FWC_VERT_LINE |
| 2001 | 1 | 8 | 1.416 | 0.2290 | # COM_FWC_VERT_LINE |
| 2002 | 1 | 8 | 1.087 | 0.2317 | # COM_FWC_VERT_LINE |
| 2003 | 1 | 8 | 1.281 | 0.2227 | # COM_FWC_VERT_LINE |
| 2004 | 1 | 8 | 1.568 | 0.2428 | # COM_FWC_VERT_LINE |
| 2005 | 1 | 8 | 1.097 | 0.2556 | # COM_FWC_VERT_LINE |
| 2006 | 1 | 8 | 1.475 | 0.2365 | # COM_FWC_VERT_LINE |
| 2007 | 1 | 8 | 1.161 | 0.2384 | # COM_FWC_VERT_LINE |
| 2008 | 1 | 8 | 1.056 | 0.2425 | # COM_FWC_VERT_LINE |
| 2009 | 1 | 8 | 1.408 | 0.2213 | # COM_FWC_VERT_LINE |
| 2010 | 1 | 8 | 1.567 | 0.2192 | # COM_FWC_VERT_LINE |
| 2011 | 1 | 8 | 1.401 | 0.2311 | # COM_FWC_VERT_LINE |

```

1987 1 9 0.29632 0.6224 # SEAMAP Trawl
1988 1 9 1.16452 0.4463 # SEAMAP Trawl
1989 1 9 1.45153 0.4503 # SEAMAP Trawl
1990 1 9 1.63143 0.4452 # SEAMAP Trawl
1991 1 9 0.89001 0.4792 # SEAMAP Trawl
1992 1 9 0.61261 0.4670 # SEAMAP Trawl
1993 1 9 1.71736 0.4257 # SEAMAP Trawl
1994 1 9 0.69900 0.5265 # SEAMAP Trawl
1995 1 9 1.10658 0.4422 # SEAMAP Trawl
1996 1 9 0.97891 0.4968 # SEAMAP Trawl
1997 1 9 0.33724 0.5634 # SEAMAP Trawl
1998 1 9 0.54031 0.4832 # SEAMAP Trawl
1999 1 9 0.85572 0.4801 # SEAMAP Trawl
2000 1 9 1.18156 0.4850 # SEAMAP Trawl
2001 1 9 0.82051 0.5069 # SEAMAP Trawl
2002 1 9 0.32739 0.5947 # SEAMAP Trawl
2003 1 9 1.49226 0.4371 # SEAMAP Trawl
2004 1 9 0.46692 0.4575 # SEAMAP Trawl
2005 1 9 2.51801 0.4260 # SEAMAP Trawl
2006 1 9 0.92219 0.4536 # SEAMAP Trawl
2007 1 9 1.61528 0.4463 # SEAMAP Trawl
2008 1 9 0.79497 0.5053 # SEAMAP Trawl
2009 1 9 1.14124 0.3707 # SEAMAP Trawl
2010 1 9 1.25012 0.4371 # SEAMAP Trawl
2011 1 9 0.18800 0.5505 # SEAMAP Trawl
#
3 #_N_fleets with discard_obs
# Fleet Units Error (1=biomass or numbers according to selection made for retained catch, 2= fraction (biomass or numbers) of
total catch discarded, 3= numbers of fish discarded, even if retained catch has units of biomass)
# Discard Error Structure (>=1 degrees of freedom for students T, 0=normal and value interpreted as CV of observation, -1 normal and
value interpreted as SE of observation)
2 2 -1
3 2 -1
4 3 -2
85 # number of discard observations
# year season fleet discard error
1998 -1 2 0.17665 0.01 #COM_RR value for 1998 was 0.20281, ave for 1998-2007 is 0.21503 AND ERROR WAS 0.35
1999 1 -2 0.18306 0.025 #COM_RR
2000 1 -2 0.24251 0.025 #COM_RR
2001 1 -2 0.12481 0.025 #COM_RR
2002 1 -2 0.25631 0.025 #COM_RR
2003 1 -2 0.23598 0.025 #COM_RR
2004 1 -2 0.22211 0.025 #COM_RR
2005 1 -2 0.24985 0.025 #COM_RR
2006 1 -2 0.15636 0.025 #COM_RR
2007 1 -2 0.27638 0.025 #COM_RR
2008 1 -2 0.08071 0.025 #COM_RR value for 2008 was 0.08290, ave for 2008-2011 is and error was 0.35
2009 1 -2 0.11538 0.025 #COM_RR
2010 1 -2 0.05754 0.025 #COM_RR
2011 -1 -2 0.17665 0.025 #COM_RR value for 2011 was 0.06702
1981 -1 3 0.24473 0.005 #REC 1981 VALUE WAS 0.0358 AND AVE discard value for 1981-90 was 0.24473 AND ERROR WAS 0.001

```

| | | | | | | |
|------|----|----|--------|--------|-----------------|---|
| 1982 | 1 | -3 | 0.1353 | 0.0001 | #REC | |
| 1983 | 1 | -3 | 0.3266 | 0.01 | #REC | |
| 1984 | 1 | -3 | 0.0600 | 0.01 | #REC | |
| 1985 | 1 | -3 | 0.1070 | 0.01 | #REC | |
| 1986 | 1 | -3 | 0.3853 | 0.01 | #REC | |
| 1987 | 1 | -3 | 0.1873 | 0.01 | #REC | |
| 1988 | 1 | -3 | 0.3298 | 0.01 | #REC | |
| 1989 | 1 | -3 | 0.3041 | 0.01 | #REC | |
| 1990 | -1 | -3 | 0.5760 | 0.01 | #REC | |
| 1991 | -1 | 3 | 0.4062 | 0.001 | #REC | 1991 VALUE WAS 0.4158 AVE DISCARD value for 1991-2002 was 0.4062 AND ERROR WAS 0.001 |
| 1992 | 1 | -3 | 0.4127 | 0.025 | #REC | |
| 1993 | 1 | -3 | 0.4138 | 0.025 | #REC | |
| 1994 | 1 | -3 | 0.3161 | 0.025 | #REC | |
| 1995 | 1 | -3 | 0.3463 | 0.025 | #REC | |
| 1996 | 1 | -3 | 0.3551 | 0.025 | #REC | |
| 1997 | 1 | -3 | 0.4043 | 0.025 | #REC | |
| 1998 | 1 | -3 | 0.3884 | 0.025 | #REC | |
| 1999 | 1 | -3 | 0.4376 | 0.025 | #REC | |
| 2000 | 1 | -3 | 0.4644 | 0.025 | #REC | |
| 2001 | 1 | -3 | 0.4265 | 0.025 | #REC | |
| 2002 | -1 | -3 | 0.4932 | 0.025 | #REC | |
| 2003 | -1 | 3 | 0.5635 | 0.001 | #REC | 2003 VALUES WAS 0.59332003 AVE discard value FOR 2003-2011 was 0.5635 AND ERRO WAS 0.01 |
| 2004 | 1 | -3 | 0.5196 | 0.025 | #REC | |
| 2005 | 1 | -3 | 0.5315 | 0.025 | #REC | |
| 2006 | 1 | -3 | 0.6156 | 0.025 | #REC | |
| 2007 | 1 | -3 | 0.6093 | 0.025 | #REC | |
| 2008 | 1 | -3 | 0.5174 | 0.025 | #REC | |
| 2009 | 1 | -3 | 0.5191 | 0.025 | #REC | |
| 2010 | 1 | -3 | 0.6083 | 0.025 | #REC | |
| 2011 | -1 | -3 | 0.5575 | 0.025 | #REC | |
| 1972 | -1 | 4 | 9096 | 0.01 | #SHRIMP BYCATCH | #_RDM cahnge error to smaller value to force better fit |
| 1973 | 1 | -4 | | 915.5 | 0.65 | #SHRIMP BYCATCH |
| 1974 | 1 | -4 | 2230 | | 0.65 | #SHRIMP BYCATCH |
| 1975 | 1 | -4 | 2774 | | 0.65 | #SHRIMP BYCATCH |
| 1976 | 1 | -4 | 5264 | | 0.65 | #SHRIMP BYCATCH |
| 1977 | 1 | -4 | 13750 | | 0.65 | #SHRIMP BYCATCH |
| 1978 | | 1 | | -4 | 13400 | 0.65 #SHRIMP BYCATCH |
| 1979 | | 1 | | -4 | 16510 | 0.65 #SHRIMP BYCATCH |
| 1980 | | 1 | | -4 | 13870 | 0.65 #SHRIMP BYCATCH |
| 1981 | | 1 | | -4 | 4028 | 0.65 #SHRIMP BYCATCH |
| 1982 | | 1 | | -4 | 5582 | 0.65 #SHRIMP BYCATCH |
| 1983 | | 1 | | -4 | 4506 | 0.65 #SHRIMP BYCATCH |
| 1984 | | 1 | | -4 | 8033 | 0.65 #SHRIMP BYCATCH |
| 1985 | | 1 | | -4 | 2654 | 0.65 #SHRIMP BYCATCH |
| 1986 | | 1 | | -4 | 6586 | 0.65 #SHRIMP BYCATCH |
| 1987 | | 1 | | -4 | 5911 | 0.65 #SHRIMP BYCATCH |
| 1988 | | 1 | | -4 | 9566 | 0.65 #SHRIMP BYCATCH |
| 1989 | | 1 | | -4 | 14530 | 0.65 #SHRIMP BYCATCH |
| 1990 | | 1 | | -4 | 20020 | 0.65 #SHRIMP BYCATCH |
| 1991 | | 1 | | -4 | 14960 | 0.65 #SHRIMP BYCATCH |
| 1992 | | 1 | | -4 | 19070 | 0.65 #SHRIMP BYCATCH |

```

1993      1      -4      48680      0.65 #SHRIMP BYCATCH
1994      1      -4      4856      0.65 #SHRIMP BYCATCH
1995      1      -4      4555      0.65 #SHRIMP BYCATCH
1996      1      -4      4026      0.65 #SHRIMP BYCATCH
1997      1      -4      4586      0.65 #SHRIMP BYCATCH
1998      1      -4      5672      0.65 #SHRIMP BYCATCH
1999      1      -4      4289      0.65 #SHRIMP BYCATCH
2000      1      -4      9968      0.65 #SHRIMP BYCATCH
2001      1      -4      5797      0.65 #SHRIMP BYCATCH
2002      1      -4      5258      0.65 #SHRIMP BYCATCH
2003      1      -4      10850     0.65 #SHRIMP BYCATCH
2004      1      -4      18680     0.65 #SHRIMP BYCATCH
2005      1      -4      21590     0.65 #SHRIMP BYCATCH
2006      1      -4      3903      0.65 #SHRIMP BYCATCH
2007      1      -4      8264      0.65 #SHRIMP BYCATCH
2008      1      -4      2797      0.65 #SHRIMP BYCATCH
2009      1     -4      2621      0.65 #SHRIMP BYCATCH
2010      1      -4      2945      0.65 #SHRIMP BYCATCH
2011     -1     -4      2632      0.65 #SHRIMP BYCATCH
#
#
0 #_N_meanbodywt_obs
30 #degrees of freedom (must be here)

2 # length bin method: 1=use databins; 2=generate from binwidth,min,max below; 3=read vector
2 # binwidth for population size comp
4 # minimum size in the population (lower edge of first bin and size at age 0.00)
100 # maximum size in the population (lower edge of last bin)

0 #_comp_tail_compression note, set to 0 for tail compress and set to - value for no tail compressing
1e-007 #_add_to_comp

0      #_combine      males      into      females at      or      below      this      bin      number
49 #_N_LengthBins
4      6      8      10      12      14      16      18      20      22      24      26      28      30      32      34      36      38
      40      42      44      46      48      50      52      54      56      58      60      62      64      66      68      70      72
      74      76      78      80      82      84      86      88      90      92      94      96      98      100
104 #_N_Length_obs
#
#_year season fleet gender part nsamp Bin4 Bin6 Bin8 Bin10 Bin12 Bin14 Bin16 Bin18 Bin20 Bin22 Bin24 Bin26
      Bin28 Bin30 Bin32 Bin34 Bin36 Bin38 Bin40 Bin42 Bin46 Bin48 Bin50 Bin52 Bin54 Bin56 Bin58 Bin60 Bin62
      Bin64 Bin66 Bin68 BIN70 Bin72 Bin74 Bin76 Bin78 Bin80 Bin82 Bin84 Bin86 Bin88 Bin90 Bin92 Bin94 Bin96
      Bin98 Bin100

-1986 1      1      0      2      17      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0      0      0      0      0      0      6      2      3      2      1      2      0      1      0      0
      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
      0      0      0

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|-------|----|---|---|---|-----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1987 | 1 | 1 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 2 | 3 | 3 | 11 | 42 | 60 | 72 | 85 | 79 | 72 | 42 | 39 | 24 | 8 | 8 |
| | 3 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 1 | 0 | 2 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 1 | 2 | 8 | 15 | 14 | 8 | 5 | 3 | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 1 | 0 | 2 | 9 | 12 | 7 | 10 | 6 | 4 | 8 | 2 | 2 | 0 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 5 | 3 | 10 | 15 | 5 | 6 | 5 | 1 | 2 | 0 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 1 | 0 | 0 | 5 | 22 | 31 | 49 | 49 | 37 | 32 | 42 | 35 | 44 | 32 | 28 | 23 |
| | 5 | 8 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 1 | 0 | 2 | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 6 | 18 | 16 | 10 | 8 | 7 | 6 | 4 | 3 | 3 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 1 | 1 | 5 | 16 | 30 | 51 | 60 | 79 | 85 | 61 | 38 | 25 | 26 | 5 | 12 |
| | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 1 | 1 | 4 | 11 | 4 | 2 | 6 | 6 | 4 | 24 | 49 | 40 | 54 | 40 | 24 | 5 |
| | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 4 | 13 | 22 | 41 | 46 | 54 | 47 | 35 |
| | 21 | 7 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -1997 | 1 | 1 | 0 | 2 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 3 | 1 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 1 | 0 | 2 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 2 | 0 | 3 | 4 | 5 | 5 | 2 | 3 | 3 | 5 | 0 | 1 | 1 | 2 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 1 | 0 | 2 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 9 | 6 | 6 | 5 | 5 | 1 | 2 | 0 | 1 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2001 | 1 | 1 | 0 | 2 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 5 | 5 | 2 | 3 | 3 | 2 | 0 | 0 | 0 | 0 |

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|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 5 | 8 | 7 | 5 | 3 | 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 | | | | | | | | | | | | | | |
| 2003 | 1 | 1 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 1 | 2 | 1 | 8 | 9 | 14 | 19 | 9 | 14 | 9 | 4 | 9 | 3 | 0 | 0 |
| | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| | 6 | 35 | 50 | 95 | 231 | 330 | 366 | 332 | 225 | 215 | 172 | 136 | 86 | 83 | 60 | 59 | 47 |
| | 13 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 20 | 32 | 52 | 100 | 171 | 276 | 338 | 251 | 221 | 203 | 169 | 120 | 98 | 107 | 74 | 54 | 22 |
| | 19 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 1 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| | 47 | 130 | 207 | 251 | 316 | 286 | 248 | 210 | 162 | 142 | 114 | 60 | 54 | 26 | 39 | 22 | 16 |
| | 7 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 1 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | 59 | 123 | 192 | 268 | 387 | 481 | 389 | 288 | 245 | 207 | 174 | 115 | 98 | 55 | 30 | 42 | 16 |
| | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 20 |
| | 121 | 164 | 134 | 223 | 371 | 442 | 401 | 320 | 274 | 263 | 182 | 126 | 84 | 63 | 58 | 57 | 39 |
| | 12 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 48 | 130 | 173 | 325 | 348 | 348 | 282 | 248 | 227 | 188 | 142 | 84 | 55 | 43 | 36 | 21 |
| | 7 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 34 |
| | 136 | 160 | 149 | 207 | 301 | 358 | 291 | 229 | 185 | 143 | 150 | 128 | 128 | 106 | 93 | 56 | 37 |
| | 11 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 40 | 147 | 298 | 345 | 378 | 445 | 396 | 316 | 274 | 236 | 193 | 138 | 107 | 72 | 76 | 59 | 23 |
| | 20 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -1983 | 1 | 2 | 0 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -1984 | 1 | 2 | 0 | 2 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 2 | 1 | 2 | 2 | 4 | 1 | 0 | 2 | 2 |
| | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|-------|----|---|----|----|-----|----|----|---|---|----|----|----|----|----|----|----|----|
| 1985 | 1 | 2 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| | 23 | 7 | 25 | 19 | 14 | 13 | 11 | 6 | 7 | 2 | 3 | 6 | 3 | 7 | 3 | 7 | 8 |
| | 2 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -1986 | 1 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 1 | 0 | 1 | 6 | 3 | 9 | 12 | 12 | 20 | 26 | 27 | 29 | 25 | 13 |
| | 6 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 2 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 3 | 14 | 15 | 15 | 20 | 26 | 51 | 36 | 32 |
| | 9 | 4 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 2 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 0 | 5 | 9 | 7 | 2 | 0 | 2 | 3 | 8 | 4 | 10 | 6 | 11 | 12 | 8 | 17 | 6 |
| | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 2 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 2 | 4 | 9 | 10 | 17 | 10 | 11 | 15 | 12 | 4 |
| | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 2 | 0 | 2 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 1 | 0 | 2 | 3 | 3 | 2 | 7 | 8 | 5 | 2 |
| | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -1996 | 1 | 2 | 0 | 2 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 3 | 0 | 0 | 2 | 1 | 2 | 4 | 2 | 2 |
| | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -1997 | 1 | 2 | 0 | 2 | 1 | 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 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -1998 | 1 | 2 | 0 | 2 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 2 | 0 |
| | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -1999 | 1 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2001 | 1 | 2 | 0 | 2 | 1 | 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 | 1 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2002 | 1 | 2 | 0 | 2 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 7 | 2 | 3 | 4 | 1 | 1 | 0 |

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|-------|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 2 | 0 | 2 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 3 | 3 | 5 | 2 | 10 | 4 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2004 | 1 | 2 | 0 | 2 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 2 | 1 | 2 | 2 | 0 | 0 | 1 |
| | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 2 | 0 | 2 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 2 | 9 | 3 | 3 | 8 | 13 | 6 | 7 | 5 | 5 | 3 | 5 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 2 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 8 | 6 | 13 | 12 | 13 | 9 | 12 | 7 | 7 | 7 |
| | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 2 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 3 | 11 | 35 | 45 | 26 | 15 | 9 | 6 | 6 | 8 | 12 | 5 | 5 | 8 | 5 | 3 |
| | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 2 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 1 | 0 | 2 | 1 | 2 | 10 | 17 | 19 | 27 | 26 | 23 | 23 | 20 | 23 | 5 |
| | 6 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 2 | 0 | 2 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 3 | 5 | 4 | 5 | 5 | 5 | 8 | 8 | 7 | 5 | 7 | 3 | 10 | 2 |
| | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 2 | 0 | 2 | 67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 1 | 0 | 3 | 2 | 8 | 4 | 2 | 8 | 3 | 6 | 4 | 4 | 5 | 8 | 5 |
| | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 1 | 3 | 7 | 5 | 15 | 20 | 23 | 21 | 47 | 31 | 29 | 24 | 17 |
| | 12 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1981 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 |
| | 19 | 32 | 30 | 30 | 35 | 27 | 37 | 25 | 11 | 11 | 8 | 11 | 5 | 4 | 6 | 0 | 8 |
| | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1982 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 5 |
| | 26 | 47 | 66 | 29 | 53 | 40 | 32 | 36 | 16 | 26 | 16 | 12 | 14 | 3 | 8 | 2 | 6 |
| | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1983 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 3 | 3 | 3 |
| | 3 | 20 | 29 | 46 | 96 | 92 | 79 | 62 | 55 | 31 | 34 | 17 | 22 | 12 | 18 | 6 | 7 |
| | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|
| 1984 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 2 |
| | 5 | 14 | 36 | 82 | 129 | 71 | 62 | 38 | 27 | 22 | 10 | 15 | 8 | 6 | 8 | 9 | 2 |
| | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1985 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 |
| | 6 | 18 | 35 | 38 | 71 | 58 | 28 | 29 | 28 | 23 | 17 | 14 | 15 | 17 | 10 | 8 | 3 |
| 1986 | 3 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 3 |
| 1987 | 13 | 45 | 122 | 183 | 154 | 159 | 90 | 78 | 56 | 39 | 33 | 35 | 23 | 16 | 15 | 12 | 7 |
| | 10 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 |
| | 8 | 39 | 104 | 156 | 165 | 160 | 144 | 133 | 101 | 90 | 88 | 75 | 84 | 58 | 28 | 22 | 14 |
| | 9 | 8 | 10 | 1 | 2 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 9 |
| | 24 | 57 | 104 | 109 | 145 | 133 | 84 | 58 | 70 | 48 | 39 | 41 | 30 | 14 | 17 | 11 | 8 |
| 1990 | 4 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 2 | 9 |
| 1991 | 15 | 52 | 104 | 134 | 146 | 128 | 96 | 74 | 53 | 56 | 49 | 55 | 36 | 32 | 23 | 14 | 5 |
| | 3 | 2 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 7 | 15 |
| | 36 | 52 | 70 | 103 | 126 | 117 | 121 | 111 | 87 | 78 | 80 | 61 | 53 | 34 | 40 | 20 | 18 |
| | 6 | 6 | 1 | 2 | 2 | 3 | 6 | 3 | 0 | 2 | 6 | 2 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 3 |
| | 18 | 67 | 132 | 234 | 240 | 238 | 156 | 123 | 106 | 94 | 97 | 79 | 58 | 70 | 48 | 32 | 22 |
| 1994 | 12 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 2 | 1 | 3 | 0 | 0 | 1 | 0 |
| | 0 | 1 | 0 | | | | | | | | | | | | | | |
| | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 5 |
| 1995 | 16 | 42 | 75 | 68 | 77 | 93 | 61 | 62 | 48 | 39 | 38 | 40 | 30 | 33 | 27 | 23 | 14 |
| | 6 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| | 11 | 44 | 70 | 76 | 111 | 97 | 103 | 86 | 76 | 63 | 66 | 71 | 39 | 30 | 34 | 24 | 12 |
| | 3 | 4 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| | 8 | 33 | 35 | 46 | 56 | 50 | 70 | 62 | 81 | 84 | 79 | 51 | 61 | 54 | 50 | 27 | 30 |
| 1998 | 15 | 18 | 2 | 6 | 2 | 3 | 4 | 2 | 4 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 1 | 2 |
| 1999 | 3 | 27 | 36 | 55 | 76 | 111 | 101 | 94 | 79 | 87 | 86 | 69 | 65 | 59 | 57 | 26 | 23 |

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|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| | 9 | 10 | 9 | 3 | 0 | 4 | 0 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 4 | 1 | 2 |
| | 15 | 45 | 50 | 68 | 64 | 82 | 117 | 76 | 90 | 97 | 114 | 90 | 105 | 81 | 52 | 37 | 21 |
| | 11 | 12 | 5 | 5 | 0 | 1 | 1 | 1 | 0 | 4 | 0 | 1 | 2 | 1 | 0 | 1 | 2 |
| | 1 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 10 |
| | 38 | 46 | 82 | 98 | 142 | 128 | 124 | 97 | 91 | 110 | 81 | 108 | 81 | 66 | 63 | 50 | 41 |
| | 17 | 10 | 7 | 2 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 5 | 30 |
| | 68 | 143 | 155 | 246 | 304 | 295 | 280 | 218 | 155 | 146 | 167 | 156 | 142 | 109 | 92 | 78 | 59 |
| | 31 | 21 | 9 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| | 14 | 74 | 176 | 232 | 336 | 381 | 324 | 255 | 219 | 177 | 136 | 194 | 144 | 137 | 121 | 97 | 52 |
| | 35 | 18 | 9 | 11 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 3 | 16 |
| | 38 | 132 | 265 | 460 | 533 | 488 | 411 | 282 | 185 | 155 | 113 | 73 | 87 | 57 | 71 | 54 | 34 |
| | 21 | 15 | 4 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 1 |
| | 11 | 83 | 110 | 99 | 133 | 177 | 241 | 227 | 225 | 173 | 158 | 138 | 111 | 102 | 88 | 61 | 50 |
| | 30 | 15 | 7 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 13 |
| | 29 | 74 | 86 | 100 | 138 | 168 | 151 | 169 | 165 | 140 | 132 | 121 | 98 | 94 | 92 | 71 | 38 |
| | 28 | 18 | 10 | 3 | 4 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 23 |
| | 30 | 87 | 101 | 208 | 250 | 241 | 231 | 209 | 176 | 158 | 139 | 140 | 115 | 87 | 82 | 56 | 42 |
| | 20 | 16 | 8 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 |
| | 11 | 29 | 80 | 135 | 109 | 143 | 128 | 119 | 109 | 103 | 93 | 100 | 78 | 64 | 56 | 31 | 28 |
| | 15 | 9 | 7 | 1 | 3 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 |
| | 10 | 31 | 74 | 120 | 185 | 209 | 205 | 160 | 140 | 149 | 149 | 126 | 91 | 70 | 62 | 36 | 39 |
| | 27 | 5 | 9 | 4 | 1 | 1 | 2 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 |
| | 4 | 42 | 88 | 107 | 145 | 189 | 207 | 198 | 188 | 128 | 111 | 91 | 81 | 69 | 67 | 47 | 30 |
| | 19 | 6 | 6 | 1 | 0 | 0 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 3 |
| | 22 | 70 | 108 | 162 | 176 | 182 | 172 | 173 | 129 | 135 | 128 | 96 | 85 | 71 | 58 | 52 | 23 |
| | 16 | 14 | 7 | 1 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|
| 2009 | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| | 14 | 50 | 99 | 122 | 175 | 191 | 181 | 168 | 133 | 151 | 98 | 80 | 94 | 52 | 45 | 35 | 18 |
| | 20 | 11 | 4 | 4 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 23 |
| | 27 | 47 | 90 | 176 | 167 | 238 | 226 | 179 | 163 | 138 | 140 | 125 | 93 | 76 | 47 | 55 | 15 |
| 2011 | 8 | 8 | 1 | 1 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 3 | 0 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 9 |
| 1987 | 46 | 171 | 249 | 275 | 305 | 322 | 279 | 247 | 194 | 172 | 125 | 132 | 92 | 72 | 45 | 38 | 17 |
| | 14 | 7 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 9 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 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 |
| 1989 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 9 | 0 | 0 | 98 | 0 | 0 | 0 | 0 | 5 | 8 | 7 | 10 | 15 | 25 | 14 | 1 |
| | 0 | 0 | 1 | 6 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1990 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 9 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 19 | 10 | 22 | 28 | 19 | 5 | 2 | 3 |
| 1991 | 6 | 5 | 7 | 5 | 4 | 1 | 2 | 5 | 2 | 1 | 0 | 1 | 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 | | | | | | | | | | | | | | |
| 1992 | 1 | 9 | 0 | 0 | 100 | 0 | 0 | 0 | 2 | 3 | 1 | 1 | 1 | 1 | 0 | 1 | 1 |
| | 3 | 22 | 18 | 14 | 19 | 9 | 9 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 9 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 2 | 13 | 8 | 5 | 6 | 20 | 10 |
| | 4 | 5 | 4 | 9 | 4 | 7 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1994 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 9 | 0 | 0 | 100 | 0 | 0 | 0 | 2 | 9 | 7 | 12 | 12 | 12 | 1 | 3 | 7 |
| 1995 | 34 | 21 | 12 | 4 | 8 | 10 | 3 | 6 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 9 | 0 | 0 | 78 | 0 | 0 | 0 | 2 | 5 | 13 | 6 | 13 | 5 | 0 | 1 | 3 |
| | 1 | 1 | 2 | 1 | 6 | 4 | 3 | 4 | 4 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 9 | 0 | 0 | 100 | 0 | 2 | 1 | 0 | 0 | 9 | 7 | 2 | 3 | 2 | 4 | 3 |
| | 7 | 13 | 16 | 6 | 7 | 3 | 4 | 3 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| | 1 | 9 | 0 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 13 | 7 | 2 | 6 | 5 |
| 1999 | 12 | 9 | 7 | 8 | 13 | 4 | 2 | 2 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |

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|------|----|----|----|---|-----|---|---|---|---|---|----|----|----|----|----|----|----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 9 | 0 | 0 | 62 | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 4 | 3 | 2 | 2 | 2 |
| | 3 | 8 | 5 | 7 | 4 | 7 | 4 | 3 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 9 | 0 | 0 | 69 | 0 | 1 | 0 | 2 | 0 | 2 | 2 | 11 | 10 | 4 | 2 | 1 |
| | 11 | 8 | 2 | 1 | 2 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 9 | 0 | 0 | 83 | 0 | 0 | 0 | 4 | 1 | 5 | 6 | 5 | 5 | 7 | 4 | 2 |
| | 8 | 5 | 6 | 6 | 2 | 3 | 3 | 3 | 5 | 2 | 1 | 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 | | | | | | | | | | | | | | |
| 2000 | 1 | 9 | 0 | 0 | 99 | 0 | 0 | 0 | 0 | 4 | 18 | 8 | 8 | 8 | 9 | 19 | 6 |
| | 4 | 2 | 5 | 3 | 2 | 1 | 1 | 0 | 1 | 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 | | | | | | | | | | | | | | |
| 2001 | 1 | 9 | 0 | 0 | 84 | 0 | 0 | 1 | 3 | 5 | 14 | 20 | 10 | 7 | 1 | 0 | 3 |
| | 0 | 2 | 4 | 3 | 5 | 2 | 0 | 1 | 1 | 1 | 1 | 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 | | | | | | | | | | | | | | |
| 2002 | 1 | 9 | 0 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 9 | 0 | 1 | 1 | 0 |
| | 1 | 3 | 4 | 1 | 3 | 0 | 1 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 9 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 16 | 51 | 19 | 11 | 3 |
| | 5 | 10 | 4 | 4 | 3 | 1 | 1 | 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 | | | | | | | | | | | | | | |
| 2004 | 1 | 9 | 0 | 0 | 71 | 1 | 0 | 0 | 1 | 5 | 2 | 4 | 2 | 2 | 4 | 3 | 5 |
| | 7 | 8 | 9 | 3 | 4 | 4 | 2 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 9 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 2 | 16 | 24 | 19 | 35 | 28 | 14 | 4 |
| | 7 | 11 | 9 | 5 | 4 | 1 | 2 | 1 | 2 | 1 | 0 | 1 | 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 | | | | | | | | | | | | | | |
| 2006 | 1 | 9 | 0 | 0 | 88 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 11 | 7 | 4 | 3 |
| | 4 | 13 | 12 | 7 | 9 | 2 | 3 | 2 | 0 | 1 | 3 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 9 | 0 | 0 | 100 | 0 | 1 | 0 | 1 | 1 | 8 | 16 | 9 | 18 | 22 | 5 | 13 |
| | 7 | 13 | 6 | 5 | 2 | 2 | 1 | 0 | 1 | 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 | | | | | | | | | | | | | | |
| 2008 | 1 | 9 | 0 | 0 | 100 | 0 | 0 | 2 | 6 | 7 | 4 | 15 | 4 | 0 | 0 | 3 | 12 |
| | 16 | 20 | 4 | 2 | 6 | 2 | 2 | 1 | 4 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|----|---|---|-----|---|---|---|---|---|---|----|----|----|----|----|---|
| 2009 | 1 | 9 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 2 | 16 | 35 | 20 | 32 | 22 | 8 |
| | 3 | 6 | 7 | 4 | 3 | 3 | 3 | 1 | 1 | 2 | 1 | 0 | 3 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 9 | 0 | 0 | 81 | 0 | 0 | 1 | 0 | 1 | 4 | 5 | 3 | 7 | 7 | 1 | 5 |
| | 5 | 10 | 8 | 9 | 6 | 5 | 1 | 1 | 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 | | | | | | | | | | | | | | |
| 2011 | 1 | 9 | 0 | 0 | 81 | 0 | 0 | 1 | 0 | 1 | 4 | 5 | 3 | 7 | 7 | 1 | 5 |
| | 5 | 10 | 8 | 9 | 6 | 5 | 1 | 1 | 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 | | | | | | | | | | | | | | |

```
#
12 #_N_age_bins
0 1 2 3 4 5 6 7 8 9 10 11
2 #_N_ageerror_definitions

0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5
0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001
0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5
0.01 0.01 0.06 0.08 0.11 0.11 0.37 0.37 0.37 0.37 0.37 0.37 # values from C. Palmer (Panama City lab) August 8 2012
```

```
#0.01 0.27 0.96 1.37 1.65 1.88 2.06 2.21 2.35 2.46 2.57 2.66
# 2.0 2.5 2.75 3.0 3.25 3.5 3.75 3.85 3.95 3.5 3.65 3.75
```

```
#
1031 #_N_Agecomp_obs

2 #_Lbin_method: 1=poplenbins_index; 2=datalenbins_index; 3=lengths

1 #_combine males into females at or below this bin number

#_Year season Fleet Gender Partition Age_err_df L_binL L_Bin_H Nsamp 0 1 2 3 4 5 6
7 8 9 10 11
1988 1 1 0 2 2 13 13 2 0 2 0 0 0 0 0 0
0 0 0
1988 1 1 0 2 2 14 14 12 0 12 0 0 0 0 0 0
0 0 0
1988 1 1 0 2 2 15 15 9 0 9 0 0 0 0 0 0
0 0 0
1988 1 1 0 2 2 16 16 8 0 7 1 0 0 0 0 0
0 0 0
1988 1 1 0 2 2 17 17 9 0 5 3 1 0 0 0 0
0 0 0
1988 1 1 0 2 2 18 18 8 0 4 4 0 0 0 0 0
0 0 0
1988 1 1 0 2 2 19 19 8 0 1 6 1 0 0 0 0
0 0 0
1988 1 1 0 2 2 20 20 15 0 1 9 5 0 0 0 0
0 0 0
1988 1 1 0 2 2 21 21 3 0 1 2 0 0 0 0 0
0 0 0
```

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|------|---|---|---|---|---|----|----|----|---|---|----|----|----|---|---|---|---|
| 1988 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 6 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 5 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 16 | 0 | 1 | 5 | 3 | 3 | 4 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 3 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 4 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 14 | 0 | 0 | 7 | 6 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 28 | 0 | 3 | 10 | 9 | 5 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 27 | 0 | 1 | 5 | 7 | 10 | 3 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 38 | 0 | 0 | 4 | 14 | 15 | 5 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 33 | 0 | 0 | 4 | 10 | 9 | 9 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 24 | 0 | 1 | 3 | 5 | 4 | 9 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 12 | 0 | 0 | 0 | 1 | 7 | 3 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|----|---|---|----|---|---|---|
| 1990 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 17 | 0 | 0 | 2 | 3 | 6 | 3 | 3 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 13 | 0 | 0 | 0 | 1 | 1 | 10 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 9 | 0 | 0 | 0 | 0 | 2 | 6 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 12 | 0 | 0 | 0 | 1 | 2 | 8 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 5 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 4 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 12 | 12 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 14 | 0 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 8 | 0 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 11 | 0 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 34 | 1 | 15 | 13 | 4 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 33 | 0 | 8 | 18 | 6 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 29 | 0 | 8 | 11 | 9 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 31 | 0 | 3 | 15 | 8 | 4 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 22 | 0 | 2 | 13 | 6 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 21 | 0 | 0 | 14 | 3 | 2 | 1 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 28 | 0 | 0 | 17 | 8 | 0 | 0 | 3 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 27 | 0 | 0 | 9 | 8 | 4 | 4 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 23 | 0 | 0 | 9 | 5 | 2 | 2 | 4 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 18 | 0 | 0 | 4 | 7 | 1 | 1 | 5 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 12 | 0 | 0 | 1 | 4 | 1 | 1 | 5 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 5 | 0 | 0 | 0 | 2 | 0 | 1 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 3 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|---|----|----|----|---|---|---|---|
| 1991 | 1 | 1 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 1 | 0 | 2 | 2 | 33 | 33 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 12 | 12 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 4 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 14 | 0 | 2 | 9 | 2 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 34 | 0 | 0 | 17 | 14 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 42 | 0 | 0 | 21 | 13 | 7 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 51 | 0 | 1 | 19 | 24 | 5 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 41 | 0 | 2 | 6 | 19 | 10 | 4 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 33 | 0 | 0 | 6 | 16 | 6 | 3 | 0 | 1 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 40 | 0 | 0 | 9 | 14 | 5 | 9 | 1 | 2 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 40 | 0 | 0 | 7 | 19 | 6 | 5 | 1 | 2 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 39 | 0 | 0 | 5 | 12 | 13 | 3 | 2 | 4 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 31 | 0 | 0 | 4 | 6 | 11 | 4 | 0 | 5 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 26 | 0 | 0 | 1 | 5 | 13 | 4 | 0 | 3 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 18 | 0 | 0 | 1 | 2 | 8 | 1 | 1 | 5 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 1 | 0 | 2 | 2 | 32 | 32 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 13 | 0 | 1 | 9 | 3 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 26 | 0 | 0 | 18 | 8 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 25 | 0 | 0 | 12 | 12 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 14 | 0 | 0 | 8 | 4 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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| 1993 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 10 | 0 | 0 | 4 | 6 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 12 | 0 | 0 | 6 | 3 | 1 | 1 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 4 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 7 | 0 | 0 | 2 | 3 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 10 | 0 | 1 | 6 | 3 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 26 | 0 | 1 | 9 | 16 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 32 | 0 | 0 | 8 | 16 | 7 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 52 | 0 | 0 | 16 | 24 | 9 | 2 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 67 | 0 | 0 | 11 | 33 | 20 | 2 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 77 | 0 | 0 | 5 | 32 | 28 | 10 | 0 | 2 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 63 | 0 | 0 | 7 | 26 | 24 | 5 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 35 | 0 | 0 | 1 | 13 | 14 | 2 | 2 | 2 | 0 |
| | 1 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 27 | 0 | 0 | 0 | 11 | 10 | 3 | 1 | 0 | 0 |
| | 2 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 13 | 0 | 0 | 0 | 5 | 5 | 0 | 2 | 0 | 0 |
| | 1 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 9 | 0 | 0 | 0 | 3 | 2 | 3 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 5 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|---|----|----|----|---|---|---|---|
| 1995 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 16 | 3 | 1 | 11 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 9 | 3 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 8 | 1 | 0 | 4 | 2 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 7 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 8 | 0 | 0 | 6 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 7 | 0 | 1 | 2 | 2 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 15 | 0 | 0 | 8 | 4 | 1 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 39 | 0 | 0 | 17 | 10 | 9 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 32 | 0 | 0 | 5 | 18 | 8 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 31 | 0 | 0 | 3 | 11 | 12 | 3 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 29 | 0 | 0 | 0 | 14 | 12 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 13 | 0 | 0 | 0 | 2 | 6 | 2 | 3 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 6 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 3 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 3 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 3 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 4 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 9 | 0 | 0 | 2 | 3 | 4 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 15 | 0 | 0 | 5 | 5 | 2 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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| 1996 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 29 | 0 | 1 | 3 | 14 | 6 | 5 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 36 | 0 | 0 | 4 | 14 | 11 | 5 | 1 | 0 | 0 |
| | 1 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 45 | 0 | 0 | 0 | 23 | 12 | 6 | 1 | 1 | 2 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 38 | 0 | 0 | 0 | 14 | 14 | 4 | 2 | 1 | 1 |
| | 1 | 0 | 1 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 40 | 0 | 0 | 0 | 10 | 9 | 14 | 2 | 1 | 3 |
| | 1 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 18 | 0 | 0 | 0 | 2 | 8 | 3 | 3 | 0 | 2 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 11 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 1 | 0 |
| | 1 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 1 | 0 | 2 | 2 | 33 | 33 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|---|---|---|---|---|---|---|---|
| 2000 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 5 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 7 | 0 | 0 | 3 | 4 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 4 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 1 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 5 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 6 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 11 | 0 | 1 | 3 | 4 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 16 | 0 | 0 | 3 | 8 | 5 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 9 | 0 | 0 | 0 | 6 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 7 | 0 | 0 | 0 | 5 | 1 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 7 | 0 | 1 | 0 | 4 | 1 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 5 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 1 | 0 | 2 | 2 | 33 | 33 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|---|---|---|---|---|---|---|---|
| 2002 | 1 | 1 | 0 | 2 | 2 | 11 | 11 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 12 | 12 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 9 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 4 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 6 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 9 | 0 | 2 | 3 | 1 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 4 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 7 | 0 | 1 | 1 | 3 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 11 | 0 | 0 | 3 | 5 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 7 | 0 | 1 | 2 | 3 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 4 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 4 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 8 | 0 | 0 | 4 | 2 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 3 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 8 | 0 | 2 | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 4 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|---|----|---|---|---|---|---|---|
| 2003 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 13 | 0 | 1 | 6 | 3 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 8 | 0 | 0 | 3 | 3 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 9 | 0 | 0 | 0 | 3 | 5 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 9 | 0 | 0 | 0 | 2 | 3 | 3 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 8 | 0 | 5 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 12 | 1 | 8 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 7 | 0 | 1 | 1 | 2 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 19 | 0 | 1 | 10 | 6 | 0 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 14 | 0 | 2 | 6 | 3 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 11 | 0 | 0 | 4 | 4 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 6 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 14 | 0 | 0 | 0 | 5 | 5 | 2 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 9 | 0 | 0 | 0 | 4 | 2 | 1 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 8 | 0 | 0 | 0 | 3 | 3 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 7 | 0 | 0 | 0 | 3 | 0 | 1 | 2 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 9 | 0 | 0 | 0 | 2 | 3 | 4 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 6 | 0 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|---|----|---|---|---|---|---|
| 2005 | 1 | 1 | 0 | 2 | 2 | 12 | 12 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 12 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 22 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 18 | 0 | 15 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 16 | 0 | 8 | 4 | 4 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 13 | 0 | 3 | 4 | 5 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 20 | 0 | 4 | 7 | 7 | 1 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 21 | 0 | 1 | 9 | 5 | 3 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 21 | 0 | 4 | 5 | 5 | 3 | 3 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 21 | 0 | 0 | 8 | 6 | 3 | 3 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 20 | 0 | 0 | 7 | 8 | 2 | 1 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 26 | 0 | 0 | 5 | 6 | 7 | 6 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 22 | 0 | 0 | 6 | 10 | 1 | 3 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 21 | 0 | 0 | 2 | 6 | 4 | 5 | 3 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 12 | 0 | 0 | 0 | 0 | 3 | 6 | 1 | 2 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 8 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 2 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 7 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 1 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 16 | 0 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 24 | 0 | 21 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 20 | 1 | 12 | 3 | 4 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 21 | 0 | 10 | 6 | 4 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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| 2006 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 9 | 0 | 1 | 5 | 3 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 8 | 0 | 0 | 4 | 3 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 3 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 4 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 9 | 0 | 0 | 1 | 5 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 7 | 0 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 3 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 13 | 1 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 15 | 0 | 9 | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 22 | 0 | 10 | 7 | 2 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 21 | 0 | 3 | 7 | 8 | 1 | 0 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 21 | 0 | 5 | 4 | 6 | 6 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 12 | 0 | 1 | 4 | 4 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 16 | 0 | 0 | 2 | 6 | 3 | 5 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 7 | 0 | 0 | 1 | 2 | 4 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 10 | 0 | 0 | 1 | 2 | 5 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 17 | 0 | 0 | 1 | 4 | 10 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 6 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 11 | 11 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 12 | 1 | 10 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 20 | 0 | 13 | 5 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 38 | 3 | 22 | 5 | 6 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|----|---|---|---|---|---|---|
| 2008 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 32 | 1 | 8 | 11 | 8 | 3 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 37 | 0 | 11 | 9 | 6 | 9 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 29 | 0 | 5 | 9 | 9 | 2 | 4 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 27 | 0 | 6 | 8 | 6 | 5 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 19 | 0 | 0 | 4 | 7 | 5 | 1 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 18 | 0 | 2 | 2 | 4 | 7 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 20 | 0 | 1 | 2 | 6 | 5 | 4 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 15 | 0 | 0 | 1 | 2 | 6 | 5 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 6 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 8 | 0 | 0 | 0 | 4 | 2 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 7 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 14 | 14 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 11 | 0 | 5 | 5 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 12 | 0 | 5 | 2 | 2 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 16 | 0 | 2 | 6 | 5 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 10 | 0 | 3 | 1 | 3 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 14 | 0 | 5 | 2 | 3 | 3 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 10 | 0 | 0 | 2 | 1 | 6 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 7 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 4 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|---|---|---|---|---|---|---|---|
| 2009 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 4 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 6 | 0 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 11 | 0 | 3 | 6 | 0 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 12 | 0 | 2 | 8 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 9 | 1 | 0 | 4 | 0 | 3 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 7 | 0 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 5 | 0 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 7 | 0 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 4 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 15 | 15 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 16 | 16 | 4 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 17 | 17 | 4 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|---|---|---|---|---|---|---|
| 2011 | 1 | 1 | 0 | 2 | 2 | 18 | 18 | 11 | 0 | 6 | 4 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 19 | 19 | 10 | 0 | 4 | 2 | 2 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 20 | 20 | 6 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 21 | 21 | 8 | 0 | 0 | 2 | 2 | 3 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 22 | 22 | 7 | 0 | 0 | 5 | 1 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 24 | 24 | 4 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 25 | 25 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 26 | 26 | 5 | 0 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 27 | 27 | 5 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 28 | 28 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 1 | 0 | 2 | 2 | 30 | 30 | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 2 | 0 | 2 | 2 | 14 | 14 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 2 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 2 | 0 | 2 | 2 | 14 | 14 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 2 | 0 | 2 | 2 | 15 | 15 | 15 | 3 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 2 | 0 | 2 | 2 | 16 | 16 | 27 | 3 | 21 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 28 | 1 | 20 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 19 | 0 | 14 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 10 | 0 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 6 | 0 | 2 | 1 | 2 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 4 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|----|---|---|---|---|---|---|
| 1990 | 1 | 2 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 2 | 0 | 2 | 2 | 14 | 14 | 18 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 2 | 0 | 2 | 2 | 15 | 15 | 49 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 2 | 0 | 2 | 2 | 16 | 16 | 31 | 0 | 28 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 25 | 0 | 12 | 10 | 3 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 12 | 0 | 5 | 5 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 4 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 4 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 5 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 3 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 4 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 10 | 0 | 1 | 2 | 5 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 11 | 0 | 0 | 5 | 1 | 2 | 1 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 17 | 0 | 0 | 5 | 1 | 7 | 1 | 2 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 19 | 0 | 0 | 5 | 5 | 4 | 2 | 1 | 2 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 16 | 0 | 0 | 6 | 5 | 1 | 0 | 2 | 2 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 13 | 0 | 0 | 1 | 6 | 3 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|---|---|---|---|---|---|---|---|
| 1991 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 14 | 0 | 0 | 2 | 2 | 3 | 6 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 15 | 0 | 0 | 0 | 4 | 2 | 7 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 6 | 0 | 0 | 1 | 1 | 2 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 2 | 0 | 2 | 2 | 31 | 31 | 5 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 2 | 0 | 2 | 2 | 15 | 15 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 2 | 0 | 2 | 2 | 16 | 16 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 6 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 3 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 4 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 7 | 0 | 0 | 3 | 2 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 8 | 0 | 0 | 2 | 3 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 4 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 6 | 0 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 6 | 0 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|---|---|---|---|---|---|---|---|
| 1993 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 5 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 11 | 0 | 0 | 0 | 3 | 6 | 1 | 0 | 0 | 0 |
| | 1 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 7 | 0 | 0 | 0 | 0 | 6 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 5 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 3 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 2 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 2 | 0 | 2 | 2 | 33 | 33 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 2 | 0 | 2 | 2 | 14 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 2 | 0 | 2 | 2 | 15 | 15 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|---|---|---|---|---|---|---|---|---|---|
| 1995 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 2 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 2 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 4 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|---|---|---|---|---|---|---|---|---|---|
| 2001 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 4 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 2 | 0 | 2 | 2 | 34 | 34 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 4 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 2 | 0 | 2 | 2 | 14 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 2 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 2 | 0 | 2 | 2 | 16 | 16 | 6 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 8 | 0 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 4 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 2 | 0 | 2 | 2 | 32 | 32 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|---|---|---|---|---|---|---|---|---|---|
| 2004 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 3 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 5 | 0 | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 4 | 0 | 1 | 0 | 0 | 2 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 5 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 2 | 0 | 2 | 2 | 16 | 16 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 5 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 4 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 3 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|---|---|---|---|---|---|---|---|---|---|
| 2007 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 2 | 0 | 2 | 2 | 16 | 16 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 3 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 3 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 3 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 2 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 3 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 6 | 0 | 0 | 1 | 2 | 2 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 4 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 5 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|---|---|---|----|---|---|---|---|
| 2009 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 4 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 4 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 7 | 0 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 6 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 2 | 0 | 2 | 2 | 31 | 31 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 2 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 15 | 15 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 17 | 17 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 18 | 18 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 19 | 19 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 20 | 20 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 21 | 21 | 7 | 0 | 1 | 0 | 3 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 22 | 22 | 10 | 0 | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 23 | 23 | 13 | 0 | 1 | 2 | 3 | 4 | 1 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 24 | 24 | 11 | 0 | 0 | 3 | 4 | 1 | 2 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 25 | 25 | 30 | 0 | 1 | 3 | 5 | 6 | 8 | 5 | 1 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 26 | 26 | 32 | 0 | 0 | 2 | 7 | 12 | 6 | 5 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|----|---|----|---|---|---|---|
| 2011 | 1 | 2 | 0 | 2 | 2 | 27 | 27 | 24 | 0 | 0 | 0 | 3 | 15 | 3 | 2 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 28 | 28 | 23 | 0 | 0 | 0 | 7 | 10 | 6 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 29 | 29 | 15 | 0 | 0 | 0 | 1 | 11 | 1 | 0 | 2 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 30 | 30 | 12 | 0 | 0 | 0 | 0 | 6 | 4 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 2 | 0 | 2 | 2 | 31 | 31 | 5 | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 12 | 12 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 23 | 0 | 5 | 17 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 21 | 0 | 1 | 19 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 8 | 0 | 2 | 5 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 12 | 0 | 2 | 1 | 6 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 7 | 0 | 0 | 3 | 0 | 1 | 1 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 3 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 6 | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 7 | 0 | 0 | 1 | 1 | 3 | 1 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 16 | 0 | 0 | 1 | 2 | 8 | 3 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 8 | 0 | 0 | 0 | 1 | 5 | 0 | 1 | 0 | 0 |
| | 0 | 1 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 12 | 0 | 0 | 1 | 2 | 5 | 1 | 2 | 0 | 0 |
| | 0 | 1 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 3 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 6 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 6 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 2 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1988 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|----|----|----|---|---|---|---|---|---|
| 1988 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 14 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 14 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 19 | 13 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 14 | 3 | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 32 | 6 | 20 | 5 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 16 | 0 | 11 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 17 | 1 | 5 | 8 | 2 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 16 | 0 | 4 | 6 | 1 | 4 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 20 | 0 | 0 | 11 | 3 | 3 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 18 | 0 | 0 | 5 | 6 | 6 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 17 | 0 | 0 | 6 | 2 | 5 | 2 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 10 | 0 | 0 | 2 | 4 | 2 | 0 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 13 | 0 | 0 | 1 | 1 | 7 | 3 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 4 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 6 | 0 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 8 | 0 | 0 | 0 | 1 | 1 | 6 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1989 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 12 | 5 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 49 | 6 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 73 | 2 | 70 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 43 | 0 | 37 | 5 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 59 | 1 | 37 | 17 | 3 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|----|----|----|----|---|---|---|---|---|
| 1990 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 46 | 0 | 20 | 19 | 7 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 56 | 1 | 21 | 22 | 9 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 42 | 0 | 9 | 14 | 11 | 6 | 1 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 41 | 0 | 11 | 16 | 8 | 3 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 22 | 0 | 6 | 9 | 1 | 3 | 1 | 1 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 29 | 0 | 7 | 13 | 5 | 2 | 1 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 29 | 0 | 3 | 7 | 8 | 6 | 2 | 2 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 23 | 0 | 0 | 5 | 9 | 4 | 4 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 20 | 0 | 0 | 7 | 2 | 7 | 3 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 17 | 0 | 0 | 1 | 8 | 5 | 1 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 24 | 0 | 0 | 0 | 4 | 8 | 8 | 3 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 10 | 0 | 0 | 0 | 5 | 3 | 0 | 0 | 2 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 11 | 0 | 0 | 0 | 2 | 4 | 4 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 33 | 33 | 5 | 0 | 0 | 0 | 1 | 0 | 3 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1990 | 1 | 3 | 0 | 2 | 2 | 35 | 35 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 12 | 12 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 23 | 10 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 12 | 2 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 17 | 0 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 24 | 0 | 22 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 19 | 0 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 19 | 0 | 15 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 20 | 0 | 10 | 6 | 4 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|----|---|---|---|---|---|---|
| 1991 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 17 | 0 | 8 | 7 | 0 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 22 | 0 | 6 | 11 | 2 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 18 | 0 | 1 | 7 | 7 | 2 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 26 | 0 | 6 | 13 | 2 | 2 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 19 | 0 | 3 | 8 | 2 | 2 | 1 | 1 | 2 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 19 | 0 | 0 | 6 | 8 | 4 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 23 | 0 | 0 | 11 | 7 | 2 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 13 | 0 | 0 | 4 | 3 | 4 | 1 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 22 | 0 | 0 | 3 | 8 | 7 | 3 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 13 | 0 | 0 | 1 | 1 | 3 | 4 | 3 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 5 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 3 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1991 | 1 | 3 | 0 | 2 | 2 | 33 | 33 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 15 | 0 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 28 | 0 | 25 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 41 | 0 | 22 | 17 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 56 | 0 | 23 | 31 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 25 | 0 | 9 | 16 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 21 | 1 | 6 | 14 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 13 | 0 | 0 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 9 | 0 | 1 | 4 | 4 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 11 | 0 | 0 | 4 | 5 | 0 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 10 | 0 | 0 | 5 | 4 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 10 | 0 | 1 | 7 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|----|---|---|---|---|---|---|
| 1992 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 14 | 0 | 0 | 5 | 4 | 2 | 1 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 10 | 0 | 2 | 3 | 1 | 4 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 14 | 0 | 0 | 4 | 6 | 4 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 6 | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 7 | 0 | 0 | 2 | 1 | 2 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 4 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1992 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 11 | 11 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 9 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 16 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 8 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 15 | 2 | 1 | 11 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 7 | 0 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 6 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 4 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 7 | 0 | 0 | 1 | 4 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 9 | 0 | 0 | 3 | 5 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 6 | 0 | 1 | 1 | 1 | 2 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 8 | 0 | 0 | 0 | 7 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 10 | 0 | 0 | 3 | 4 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 12 | 0 | 0 | 2 | 9 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 14 | 0 | 0 | 1 | 8 | 4 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 8 | 0 | 0 | 0 | 3 | 5 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 3 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|----|----|---|---|---|---|---|---|---|
| 1993 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 5 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1993 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 11 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 33 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 18 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 9 | 0 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 9 | 0 | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 3 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 3 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 6 | 0 | 0 | 4 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 7 | 0 | 3 | 1 | 0 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 5 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 9 | 0 | 1 | 2 | 5 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 9 | 0 | 0 | 2 | 3 | 2 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 5 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 6 | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 8 | 0 | 0 | 1 | 2 | 4 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 6 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 7 | 0 | 0 | 0 | 1 | 4 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1994 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|----|----|----|---|---|---|---|---|---|
| 1995 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 11 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 17 | 3 | 4 | 8 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 25 | 0 | 14 | 10 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 16 | 1 | 12 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 6 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 4 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 7 | 0 | 4 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 4 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 9 | 0 | 2 | 3 | 3 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 6 | 0 | 0 | 4 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 9 | 0 | 0 | 1 | 2 | 4 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 6 | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 9 | 0 | 0 | 1 | 1 | 4 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 11 | 0 | 0 | 0 | 4 | 1 | 3 | 2 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1995 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 11 | 11 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 13 | 5 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 21 | 7 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 20 | 5 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 40 | 4 | 26 | 9 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 26 | 0 | 17 | 4 | 5 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|----|----|---|---|---|---|---|
| 1996 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 48 | 1 | 24 | 11 | 12 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 31 | 0 | 20 | 5 | 5 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 19 | 0 | 6 | 7 | 5 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 9 | 0 | 3 | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 10 | 0 | 2 | 2 | 5 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 10 | 0 | 0 | 2 | 5 | 0 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 5 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 4 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1996 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 8 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 17 | 2 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 14 | 2 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 18 | 3 | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 12 | 0 | 6 | 5 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 7 | 0 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 6 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 8 | 0 | 1 | 5 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 4 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 3 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|---|---|---|---|---|---|---|
| 1997 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 3 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1997 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 12 | 2 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 23 | 5 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 13 | 3 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 23 | 4 | 11 | 7 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 13 | 0 | 8 | 4 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 15 | 0 | 7 | 7 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 6 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 10 | 0 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 3 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 3 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 3 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1998 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 6 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 35 | 3 | 30 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 58 | 0 | 54 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 83 | 0 | 72 | 8 | 3 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|----|----|---|---|---|---|---|
| 1999 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 80 | 0 | 44 | 26 | 10 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 52 | 0 | 24 | 16 | 11 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 49 | 0 | 16 | 15 | 14 | 2 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 29 | 0 | 4 | 9 | 13 | 1 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 35 | 0 | 4 | 13 | 12 | 6 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 22 | 0 | 2 | 5 | 10 | 5 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 34 | 0 | 0 | 9 | 18 | 7 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 17 | 0 | 2 | 0 | 10 | 5 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 14 | 0 | 0 | 2 | 7 | 3 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 15 | 0 | 0 | 0 | 7 | 7 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 13 | 0 | 0 | 1 | 2 | 8 | 1 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 4 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 4 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 1999 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 3 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 11 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 13 | 3 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 23 | 4 | 14 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 15 | 0 | 3 | 8 | 4 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 31 | 0 | 2 | 15 | 11 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 8 | 0 | 2 | 2 | 4 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 5 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 9 | 0 | 1 | 4 | 3 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 9 | 0 | 0 | 2 | 4 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 6 | 0 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 7 | 0 | 0 | 0 | 1 | 5 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|---|---|---|---|---|---|---|
| 2000 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 5 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2000 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 5 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 7 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 10 | 0 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 19 | 1 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 9 | 1 | 0 | 6 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 11 | 1 | 5 | 2 | 3 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 16 | 0 | 4 | 5 | 5 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 8 | 0 | 1 | 3 | 3 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 8 | 0 | 1 | 2 | 5 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 5 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 5 | 0 | 1 | 1 | 1 | 0 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 5 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 5 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 4 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2001 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 7 | 1 | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 15 | 3 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|----|----|----|----|----|---|---|---|---|
| 2002 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 24 | 3 | 17 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 34 | 0 | 19 | 14 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 46 | 0 | 15 | 19 | 12 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 44 | 0 | 10 | 21 | 10 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 28 | 0 | 6 | 14 | 5 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 37 | 0 | 3 | 22 | 7 | 3 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 36 | 0 | 1 | 13 | 13 | 8 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 35 | 0 | 0 | 13 | 13 | 7 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 29 | 0 | 1 | 3 | 9 | 12 | 1 | 2 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 30 | 0 | 0 | 9 | 11 | 5 | 4 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 23 | 0 | 0 | 2 | 8 | 10 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 15 | 0 | 0 | 1 | 6 | 7 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 12 | 0 | 0 | 0 | 0 | 9 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 8 | 0 | 0 | 0 | 0 | 6 | 0 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 4 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2002 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 22 | 14 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 54 | 9 | 43 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 61 | 2 | 40 | 16 | 3 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 75 | 5 | 28 | 36 | 6 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 62 | 4 | 19 | 28 | 10 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 54 | 1 | 9 | 28 | 16 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 47 | 1 | 12 | 21 | 10 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|----|---|----|---|---|---|---|
| 2003 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 30 | 0 | 4 | 11 | 8 | 3 | 4 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 38 | 0 | 7 | 15 | 7 | 6 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 29 | 0 | 4 | 11 | 6 | 5 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 23 | 0 | 1 | 9 | 5 | 5 | 1 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 23 | 0 | 0 | 8 | 7 | 3 | 4 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 22 | 0 | 0 | 6 | 7 | 2 | 5 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 12 | 0 | 0 | 0 | 6 | 4 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 18 | 0 | 0 | 0 | 3 | 4 | 9 | 1 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 7 | 0 | 0 | 0 | 3 | 1 | 1 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 8 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2003 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 4 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 11 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 27 | 4 | 14 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 24 | 2 | 8 | 13 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 36 | 2 | 15 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 31 | 0 | 13 | 13 | 4 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 24 | 1 | 7 | 8 | 5 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 14 | 0 | 3 | 9 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 21 | 0 | 2 | 13 | 5 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 22 | 0 | 4 | 5 | 8 | 5 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 27 | 0 | 5 | 6 | 4 | 7 | 4 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 28 | 0 | 2 | 1 | 9 | 11 | 1 | 3 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 17 | 0 | 0 | 2 | 9 | 4 | 0 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|---|----|---|---|---|---|---|---|
| 2004 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 19 | 0 | 0 | 1 | 3 | 8 | 1 | 5 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 16 | 0 | 0 | 0 | 1 | 9 | 3 | 2 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 6 | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 6 | 0 | 0 | 1 | 0 | 3 | 0 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2004 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 4 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 14 | 0 | 9 | 3 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 8 | 0 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 6 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 4 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 4 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2005 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 13 | 1 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 28 | 0 | 7 | 15 | 6 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 17 | 0 | 8 | 4 | 5 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 14 | 0 | 7 | 6 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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| 2006 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 6 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 12 | 0 | 0 | 5 | 6 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 16 | 0 | 4 | 8 | 2 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 7 | 0 | 0 | 4 | 1 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 6 | 0 | 0 | 3 | 2 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 7 | 0 | 0 | 0 | 5 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 9 | 0 | 0 | 0 | 3 | 1 | 3 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2006 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 3 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 12 | 0 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 23 | 0 | 11 | 6 | 6 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 26 | 0 | 3 | 7 | 13 | 2 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 35 | 0 | 1 | 14 | 14 | 5 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 41 | 0 | 7 | 7 | 13 | 7 | 6 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 22 | 0 | 0 | 3 | 8 | 8 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 15 | 0 | 1 | 2 | 4 | 5 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 6 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 11 | 0 | 0 | 2 | 2 | 4 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 9 | 0 | 0 | 0 | 1 | 5 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 5 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2007 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 11 | 11 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 12 | 12 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 22 | 10 | 11 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 28 | 3 | 23 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|----|----|----|---|---|---|---|
| 2008 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 31 | 0 | 25 | 4 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 52 | 3 | 28 | 12 | 9 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 50 | 0 | 21 | 14 | 9 | 5 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 46 | 2 | 17 | 7 | 10 | 2 | 7 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 43 | 1 | 8 | 10 | 9 | 10 | 4 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 31 | 0 | 5 | 7 | 10 | 7 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 16 | 0 | 1 | 5 | 6 | 3 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 22 | 0 | 6 | 4 | 4 | 6 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 13 | 0 | 0 | 3 | 5 | 2 | 2 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 13 | 0 | 0 | 1 | 4 | 4 | 3 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 8 | 0 | 1 | 1 | 0 | 3 | 1 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 9 | 0 | 0 | 3 | 5 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 8 | 0 | 0 | 0 | 0 | 2 | 4 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2008 | 1 | 3 | 0 | 2 | 2 | 32 | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 8 | 0 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 17 | 0 | 9 | 5 | 3 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 11 | 0 | 4 | 5 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 23 | 0 | 2 | 12 | 7 | 1 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 16 | 0 | 1 | 3 | 8 | 2 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 13 | 0 | 2 | 0 | 6 | 2 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|------|---|---|---|---|---|----|----|----|---|----|----|---|---|---|---|---|---|
| 2009 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 5 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 4 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2009 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 10 | 3 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 14 | 3 | 3 | 6 | 1 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 25 | 0 | 12 | 8 | 3 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 26 | 0 | 3 | 7 | 9 | 2 | 4 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 20 | 0 | 0 | 4 | 8 | 4 | 2 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 23 | 0 | 2 | 10 | 4 | 3 | 0 | 2 | 1 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 19 | 0 | 0 | 6 | 6 | 3 | 2 | 0 | 1 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 17 | 0 | 2 | 1 | 8 | 2 | 2 | 1 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 14 | 0 | 0 | 1 | 5 | 1 | 5 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 19 | 0 | 0 | 0 | 4 | 4 | 4 | 5 | 2 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 7 | 0 | 0 | 1 | 2 | 1 | 1 | 2 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 14 | 0 | 0 | 3 | 6 | 2 | 2 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 6 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|-------|---|---|---|---|---|----|----|----|---|----|---|----|---|---|---|---|---|
| 2010 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2010 | 1 | 3 | 0 | 2 | 2 | 33 | 33 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 13 | 13 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 14 | 14 | 19 | 1 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 15 | 15 | 36 | 1 | 33 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 16 | 16 | 41 | 0 | 35 | 3 | 2 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 17 | 17 | 30 | 1 | 21 | 4 | 3 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 18 | 18 | 33 | 0 | 13 | 7 | 8 | 3 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 19 | 19 | 29 | 0 | 2 | 6 | 10 | 8 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 20 | 20 | 20 | 0 | 6 | 2 | 4 | 7 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 21 | 21 | 12 | 0 | 0 | 2 | 4 | 4 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 22 | 22 | 15 | 0 | 2 | 2 | 2 | 6 | 3 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 23 | 23 | 6 | 0 | 0 | 3 | 1 | 0 | 2 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 24 | 24 | 9 | 0 | 0 | 1 | 1 | 2 | 5 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 25 | 25 | 9 | 0 | 0 | 1 | 1 | 2 | 4 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 26 | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 27 | 27 | 7 | 0 | 0 | 0 | 3 | 2 | 1 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 28 | 28 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 29 | 29 | 4 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 30 | 30 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| 2011 | 1 | 3 | 0 | 2 | 2 | 31 | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 2 | 2 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 3 | 3 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 4 | 4 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |

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|-------|---|---|---|---|---|----|----|------|----|-----|-----|-----|-----|----|----|----|---|
| -2011 | 1 | 4 | 0 | 1 | 2 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 6 | 6 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 7 | 7 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 8 | 8 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 9 | 9 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 10 | 10 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 11 | 11 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 12 | 12 | 7 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 13 | 13 | 14 | 3 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 14 | 14 | 102 | 45 | 55 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 15 | 15 | 352 | 89 | 258 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 16 | 16 | 665 | 77 | 559 | 24 | 5 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 17 | 17 | 797 | 54 | 537 | 169 | 35 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 18 | 18 | 974 | 42 | 487 | 343 | 87 | 14 | 1 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 19 | 19 | 1019 | 20 | 409 | 377 | 171 | 35 | 7 | 0 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 20 | 20 | 994 | 10 | 272 | 360 | 252 | 59 | 34 | 7 | 0 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 21 | 21 | 838 | 4 | 163 | 300 | 222 | 105 | 33 | 9 | 1 | 1 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 22 | 22 | 765 | 0 | 104 | 283 | 218 | 108 | 36 | 11 | 3 | 2 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 23 | 23 | 742 | 0 | 58 | 232 | 234 | 144 | 57 | 7 | 6 | 4 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 24 | 24 | 685 | 0 | 43 | 202 | 215 | 142 | 57 | 15 | 9 | 2 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 25 | 25 | 744 | 0 | 27 | 180 | 231 | 172 | 92 | 26 | 16 | 0 |
| | 0 | 0 | 0 | | | | | | | | | | | | | | |
| -2011 | 1 | 4 | 0 | 1 | 2 | 26 | 26 | 692 | 1 | 7 | 123 | 244 | 164 | 90 | 41 | 17 | 4 |
| | 1 | 0 | 0 | | | | | | | | | | | | | | |

0 #_N_MeanSize-at-Age_obs
 0 #_N_ environ_variables
 0 #_N_sizefreq_methods_to_read
 0 #_N_super_periods
 0 #_no_tag_data
 0 #_no_morphcomp_data

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ENDDATA