

**Trends in Relative Abundance and  
Size of Selected Finfishes and  
Shellfishes Along the Texas Coast:  
November 1975-December 1996**

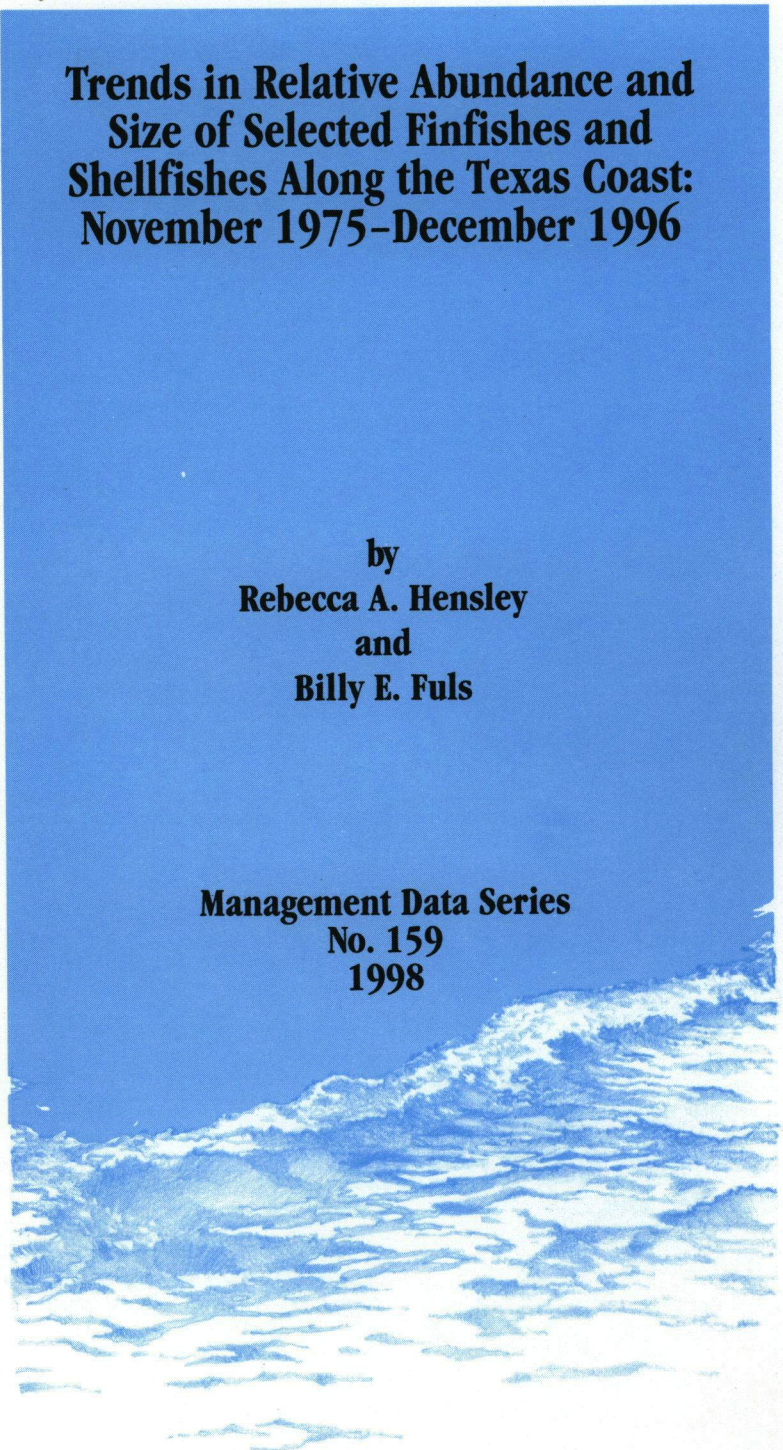
by  
**Rebecca A. Hensley  
and  
Billy E. Fuls**

**Management Data Series  
No. 159  
1998**



**COASTAL FISHERIES DIVISION**

4200 Smith School Road  
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## ABSTRACT

The objective of coastal monitoring projects is to determine the status of marine resources for management and harvest purposes. Trends in relative abundance and size of finfishes and shellfishes have been monitored since 1975 using a standardized fishery-independent sampling program in Texas bay systems. Data were collected with bag seines along bay shorelines, gill nets along bay shorelines, and trawls in coastal bay and Texas Territorial Sea waters. Oyster dredges were used to sample bay oyster reefs.

Data comparisons were made between 1995 and 1996 for coastwide catch rates for all gears. Coastwide spring and fall gill net catch rates for red drum increased with a record high catch rate during the spring of 1996. Spotted seatrout and black drum gill net catch rates increased slightly for both the spring and fall. Coastwide seasonal bay bag seine catch rates increased for Atlantic croaker and blue crab and decreased for red drum, spotted seatrout, black drum, brown shrimp and white shrimp; all were above average. Coastwide annual bay trawl catch rates increased for blue crab and decreased for Atlantic croaker, brown shrimp, pink shrimp and white shrimp. Coastwide annual Gulf trawl catch rates increased for Atlantic croaker and white shrimp and decreased for brown shrimp and blue crab. Coastwide annual catch rates for Eastern oyster spat, small oysters and market oysters increased to record highs in 1996. Data collected during 1996 were used to make resource and harvest management decisions.

## INTRODUCTION

Fishery independent monitoring data are used to determine relative abundance and size of finfishes and shellfishes in Texas coastal waters to regulate and allocate harvest in Texas jurisdictional waters. To collect these data, Texas Parks and Wildlife (TPW) has used various gears systematically in Texas estuaries and the Gulf of Mexico since 1975 (Appendix A, Tables A.1-5). TPW initiated a standardized fishery independent monitoring program in 1975 using gill nets, in 1977 using bag seines, in 1982 using trawls in bays, in 1984 using oyster dredges on bay oyster reefs and in 1985 using trawls in the Gulf to monitor and assess relative trends in abundance and size of finfishes and shellfishes. Monitoring of blue crab populations in Texas Bays was initiated in 1977 (Hammerschmidt 1982). Gill nets set during spring (April-June) and fall (September-November), and monthly bag seine, trawl and oyster dredge samples provide a statistically consistent and cost efficient method for obtaining population trend information on juvenile, sub-adult, and adult finfish and shellfish.

The objectives of the present study were to:

1. monitor and determine trends in species composition, size and relative abundance of selected finfishes and shellfishes in Texas coastal bay systems and in the gulf off Texas.
2. publish the results in a report which will assist resource managers to effectively manage finfishes and shellfishes.

Differences in the information in this report compared to previous reports are due to updating the data base. The present report should be considered the most accurate to date.

## MATERIALS AND METHODS

Bag seines, trawls and monofilament gill nets (Appendix A) were used in each of the 9 Texas bay systems: Sabine Lake, Galveston, East Matagorda, Matagorda, San Antonio, Aransas, Corpus Christi, upper Laguna Madre and lower Laguna Madre. Trawls, identical to those used in the bays, were used in five gulf areas of the Texas Territorial Sea (TTS)  $\leq 16.7$  km from shore: 24.1 km either side of each of the Sabine Pass jetties (Sabine), Galveston jetties (Galveston), Matagorda jetties (Port O'Connor), Aransas Pass jetties (Port Aransas), and 48.2 km north from the Texas-Mexico border (Port Isabel) (Figure 1). Oyster dredges (Appendix A) were used in the Galveston, Matagorda, San Antonio and Aransas bay systems.

Gill net and bag seines sites were randomly selected from grids (1 minute latitude by 1 minute longitude) that contained  $\geq 15.2$  m of shoreline.

Each selected grid was subdivided into 144 5-second "gridlets". All "gridlets" that contained  $\geq 15.2$  m of shoreline were used to randomly choose sample sites.

Gill net sets were conducted overnight during each spring and fall season (Appendix A). The spring season began with the 2nd full week in April and extended for 10 full weeks. The fall season began with the 2nd full week in September and extended for 10 full weeks. Between three and five nets were set each week in each bay, except in East Matagorda Bay where only two overnight sets were made during each week. On no more than six nights during each season could three nets be set in a bay system. Each sampling week extended from 1 h before sunset on Sunday through 4 h after sunrise the following Sunday. Gill nets were set perpendicular to shore with the smallest mesh shoreward. Nets were set within 1 h before sunset and were retrieved within 4 h after the following sunrise. Total fishing time was recorded (nearest 0.1 h).

One half of the monthly bay bag seine samples were collected during each of two periods (1-15 and 16-31) of the month (Appendix A). Bay bag seines were pulled parallel to the shoreline for 15.2 m. The surface area sampled (nearest 0.01 ha) was estimated using distance pulled and length of extension of the bag seine. No grid was sampled more than once in a month.

Trawls were used in bays which were stratified into two zones: Zone 1 (upper bay nearest mouths of rivers) and Zone 2 (lower bay farthest from rivers). Trawl sites in Zones 1 and 2 were randomly selected from bay grids (1 minute latitude by 1 minute longitude) that contained water  $\geq 1$  m deep in at least 1/3 of the grid and which were known to be free of obstructions. One half of the monthly trawl samples in each zone in each bay system were collected during each of two periods (1-15 and 16-31) of the month (Appendix A). In East Matagorda Bay all water was designated as Zone 1; in each of Sabine Lake, upper and lower Laguna Madre all water was designated as Zone 2. In Zones 1 and 2, trawls were towed in a circular motion near the center of each grid. All trawl tows within bays were 10 minutes in duration. No grid was duplicated in a month.

Gulf trawl sites in each area were randomly selected from Gulf grids (1 minute latitude by 1 minute longitude) in the TTS (Figure 1) that contained water  $\geq 1.8$  m deep in at least 1/3 of the grid and which was known to be free of obstructions. One half of the samples in each area were collected during each of two periods (1-15 and 16-31) of the month (Appendix A). Trawls were towed linearly, parallel to the fathom curve; direction of tow (north or south) was randomly chosen for the initial tow and alternated on subsequent tows. All tows were 10 minutes in duration. No grid was duplicated in a month.

Trawls were used during daylight in the gulf off Sabine Pass, Galveston, Port O'Connor, Port Aransas, and Port Isabel during June and November 1996 in conjunction with the Southeast Area Monitoring and Assessment Program (SEAMAP). Detailed descriptions of the gear, sample stations, and sample procedures are reported by Stuntz et al. (1985).

In each major oyster producing bay (Galveston Bay, Matagorda Bay, San Antonio Bay and Aransas Bay) oyster reef areas were mapped; areas in which Eastern oysters form reefs which are  $\geq 0.2$  m higher than adjacent bottom for a

continuous distance of >91.4 m long and 0.4 m wide. Oyster dredge sites were randomly selected from bay grids containing defined oyster reefs. Each selected grid was divided into 144 5-second "gridlets". All gridlets that contained defined oyster reefs were used to randomly choose sample sites. One half of the oyster samples were collected during each of the 1st-15th and 16th-31st of the month (Appendix A). Dredges were pulled linearly for 30 seconds. Stations were not duplicated within a month.

Sample catch rates for each species, or category of species, were calculated by dividing total number captured by either total hours fished (gill net, trawl, and oyster dredge) or ha sampled (bag seine). Catch rates for each bay system were then calculated by month, year or season. Bay specific catch rates were weighted for coastwide estimates (Appendix A). Fish greater than 204 mm long were eliminated from bag seine catch rate calculations based on the findings of McEachron and Green (1986). Live Eastern oysters were grouped into spat (5-25 mm), small oysters (26-75 mm), and market oysters (>76 mm).

Lengths (total or standard) of animals caught were recorded. In gill nets, up to 19 individuals of each species, within each mesh size, were measured on each sampling day. In trawls, 50 shrimp (length from tip of rostrum to tip of telson) of each species (brown, white, pink), 35 blue crabs (carapace width between spine tips) and up to 19 individuals of all other species were measured in each sample. For all other gears, up to 19 specimens were measured for each species in each sample collected.

Mean total lengths of individual species in gill nets were calculated for each of the four mesh sizes. Mean lengths for the combined meshes were calculated by weighting individual species mean lengths in each mesh by the number of each species caught in each mesh. For all other gears, mean lengths of individual species were calculated from individuals measured in each sample. Coastwide total mean lengths for each species in all gears were weighted according to the catch rate in each bay system, and by bay specific and gear specific weighting factors used for coastwide catch rates.

Surface salinity (ppt), water temperature (°C) and turbidity [Nephelometric Units (NTU)] were measured at the set and pickup for each gill net and prior to each bag seine and beach seine sample (Appendix B). Bottom salinity, water temperature, and turbidity were measured prior to each trawl and oyster dredge sample (Appendix B).

## RESULTS

### Gill Net

Coastwide spring red drum (Sciaenops ocellatus) catch rate increased in 1996 (1.4/h) (Table 1; Figure 2). This was the highest catch rate on record. The lowest catch rates were during 1977-79 (0.3/h). Average size increased to 500 mm TL in 1996 (Table 1; Figure 4).

Coastwide fall red drum catch rate increased slightly in 1996 (0.8/h). The highest fall coastwide catch rate for red drum (1.0/h) occurred in 1979 and 1993, with lowest catch rates (0.5/h) in 1982 and 1983 (Table 2; Figure 3). Average size increased slightly to 468 mm TL in 1996 (Table 2; Figure 5).

Coastwide spring spotted seatrout (Cynoscion nebulosus) catch rate increased in 1996 (0.8/h). The highest spring coastwide spotted seatrout catch rate (1.1/h) occurred in 1976, with lowest catch rates in 1979 and 1984 (0.3/h) (Table 1; Figure 2). Average size decreased to 446 mm TL in 1996 (Table 1; Figure 4).

Coastwide fall spotted seatrout catch rate increased slightly in 1996 (0.5/h). The highest fall coastwide spotted seatrout catch rate (0.7/h) occurred in 1976, with lowest catch rate in 1979 (0.2/h) (Table 2; Figure 3). Average size decreased to 432 mm TL in 1996 (Table 2; Figure 5).

Coastwide spring black drum (Pogonias cromis) catch rate increased in 1996 (1.4/h). The highest spring coastwide black drum catch rate (1.5/h) occurred in 1994 with the lowest in 1978 (0.3/h) (Table 1; Figure 2). Average size increased to 444 mm TL in 1996 (Table 1; Figure 4).

Coastwide fall black drum catch rate increased in 1996 (1.5/h). The highest fall coastwide black drum catch rate occurred in 1993 (1.6/h), with lowest in 1979 and 1984 (0.3/h) (Table 2; Figure 3). Average size remained the same at 438 mm TL in 1996 (Table 2; Figure 5).

Spring and fall coastwide southern flounder (Paralichthys lethostigma) and sheephead (Archosargus probatocephalus) catch rates varied little over the past 10 years (<0.1-0.1/h), but are generally down from pre-1983 years (0.1-0.3/h) (Tables 1 and 2).

Coastwide spring Atlantic croaker (Micropogonias undulatus) catch rates have remained low at <0.1/h since 1978 (Table 1, Figure 2). The fall catch in 1996 equaled that in 1995 (0.3/h). The highest fall catch rate on record (0.5/h) was in 1993; lowest catch rate occurred in 1975 (0.1/h) (Table 2; Figure 3).

Coastwide 1996 catch rates for total finfish increased in the spring (7.9/h) and fall (6.5/h) (Tables 1 and 2).

Spring and fall coastwide catch rates of blue crab (Callinectes sapidus) have remained at <0.1/h over the past 7-8 years, but are generally down from pre-1987 years (0.1-0.2/h) (Table 1 and 2). Average size decreased in 1996 to 145 mm in spring and increased to 159 mm in fall.

#### Bay Bag Seine

Annual (calendar year) bag seine catches varied by species and bay (Table 3). Seasonal trends in catch rates and mean lengths are presented for the following select species:

Coastwide seasonal red drum catch rates decreased in 1996; they were highest during November 1990-March 1991 and lowest during November 1989-March 1990 (Figure 6). Mean coastwide lengths fluctuated between 46 and 58 mm TL (Figure 7).

Coastwide seasonal spotted seatrout catch rates decreased in 1996; they were highest during July through November 1991 and lowest during 1984-86 (Figure 6). Mean coastwide lengths fluctuated between 44 and 56 mm TL (Figure 7).

Coastwide seasonal black drum catch rates decreased in 1996; they were highest in 1979 and 1990 (Figure 6). Mean coastwide lengths fluctuated between 54 and 93 mm TL (Figure 7).

Coastwide seasonal Atlantic croaker catch rates increased in 1996; they were highest in 1982 and lowest in 1989 (Figure 6). Mean coastwide lengths fluctuated between 49 and 57 mm TL (Figure 7).

Coastwide seasonal brown shrimp (Penaeus aztecus) catch rates decreased in 1996; they were highest in 1987 and lowest in 1979 (Figure 8). Mean coastwide lengths fluctuated between 54 and 64 mm TL (Figure 9).

Coastwide seasonal white shrimp (P. setiferus) catch rates decreased in 1996; they were highest in 1982 and lowest in 1985 (Figure 8). Coastwide mean lengths fluctuated between 52 and 59 mm TL (Figure 9).

Coastwide seasonal blue crab catch rates increased in 1996; they were highest in 1985 and lowest in 1989 (Figure 8). Coastwide mean lengths fluctuated between 23 and 28 mm TL (Figure 9).

#### Bay Trawl

Annual coastwide bay trawl catch rates for total finfish decreased in 1996 (201/h); ranging from 134/h in 1984 to 318/h in 1991 (Table 4).

Coastwide brown shrimp catch rates decreased in 1996 (23/h) to the second lowest on record. Catch rates ranged from 21/h in 1983 to 49/h in 1989 (Table 4; Figure 10). Coastwide mean length increased in 1996 to 91 mm TL, and in previous years ranged from 83-97 mm (Table 4; Figure 11).

Coastwide white shrimp catch rates decreased to a record low in 1996 (14/h); They have ranged up to 46/h in 1982 (Table 4; Figure 10). Mean coastwide length increased in 1996 to 100 mm TL, and in previous years ranged from 84-101 mm (Table 4; Figure 11).

Coastwide annual blue crab bay trawl catch rates increased slightly in 1996 (12/h) from the 1995 record low. Catch rates range from 10/h in 1995 to 24/h in 1992 and 1994 (Table 4; Figure 10). Coastwide mean length increased to 73 mm TL in 1996 (Table 4; Figure 11).

Coastwide Atlantic croaker catch rates decreased in 1996 (52/h). They ranged from 27/h in 1985 to 112/h in 1992 (Table 4; Figure 10). Coastwide

mean length increased in 1996 to 114 mm TL (Table 4; Figure 11).

Coastwide pink shrimp (*P. duorarum*) catch rates decreased in 1996 (3/h). They were highest in 1991 and 1995 (5/h) and lowest in 1982, 1984 and 1993 (1/h) (Table 4).

Annual catch rates of other major species caught in bay trawls varied by species and bay (Table 4).

#### Gulf Trawl

Annual coastwide Gulf trawl catch rates for total finfish increased in 1996 (397/h), and have ranged from 174/h in 1985 to 406/h in 1992 (Table 5).

Coastwide brown shrimp catch rates decreased to a record low in 1996 (4/h). They ranged up to 59/h in 1989 (Table 5; Figure 12). Coastwide mean length decreased slightly in 1996 (99 mm TL) and has ranged from 97 (1992) to 109 (1985) mm TL (Table 5; Figure 13).

Coastwide annual white shrimp catch rates increased in 1996 (21/h). They ranged from 10/h in 1990 and 1994 to 24/h in 1985 and 1986 (Table 5; Figure 12). Mean coastwide length decreased in 1996 (105 mm TL) equaling previous record lows of 1986 and 1992. They ranged up to 115 mm TL during 1985 and 1990 (Table 5; Figure 13).

Coastwide blue crab catch rates decreased in 1996 (1/h) to lows seen in 1987-89. They ranged up to 6/h in 1991 (Table 5; Figure 12). Coastwide mean length continued to decrease from 127 mm (carapace width) in 1985, to a record low in 1996 of 67 mm (Table 5; Figure 13).

Coastwide Atlantic croaker catch rates increased in 1996 to 77/h. They ranged from 23/h in 1985 to 162/h in 1993 (Table 5; Figure 12). Mean coastwide length increased in 1996 to 121 mm TL, but in previous years had decreased from 142 mm in 1985 to 113 mm in 1993 (Table 5; Figure 13).

Coastwide annual pink shrimp catch rates decreased to 1/h in 1996; they ranged from 1-4/h in past years (Table 5). Mean coastwide length was variable and ranged from 104 to 116 mm TL.

Annual catch rates of other major species caught in Gulf trawls varied by species and Gulf area (Table 5).

#### Oyster Dredge

Coastwide catch rates of Eastern oyster (*Crassostrea virginica*) spat increased to a record high in 1996 (4,740/h). They previously ranged from 491/h in 1984 to 1,880/h in 1989 (Table 6; Figure 14).

Coastwide catch rates of small Eastern oysters increased to a record high in 1996 (2,714/h). The previous low occurred in 1986 at 1,001/h (Table

6; Figure 14). Mean coastwide length decreased in 1996 and previously ranged from 46-54 mm TL (Table 6; Figure 15).

Coastwide catch rates of market Eastern oysters increased to a record high in 1996 (811/h). The record low occurred in 1990 at 215/h (Table 6; Figure 14). Coastwide mean length decreased in 1996 (88 mm TL) (Table 6; Figure 15).

#### Hydrologic Data

Hydrologic data varied among years, among bay systems and among gulf areas (Appendix B). Coastwide annual salinity increased during 1996 in coastal bays and in Gulf waters (Appendix B; Tables B.1, B.4, B.7, B.10, B.13 and B.16). Bay salinities were generally higher in upper Laguna Madre than in any other bay. Gulf salinities were highest off Port Isabel and Port Aransas. Water temperatures followed seasonal trends. Coastwide annual bay and gulf bottom water temperatures were similar to 1995 values (Appendix B; Tables B.2, B.5, B.8, B.11, B.4 and B.17).

#### SEAMAP

##### Summer (June)

Catch rates of brown shrimp by depth zone ranged from 332/h in 19-37 m to 10/h in 38-95 m during 1996 (Appendix C, Table C.1). Historically, brown shrimp are predominately caught in water 19-37 m deep.

White shrimp were caught primarily in water  $\leq 18$  m deep during all years (Appendix C, Table C.1). At these depths, catch rates have ranged from 4/h-41/h in all years.

Pink shrimp were captured in waters  $\leq 55$  m deep (0-195/h) during all years (Appendix C, Table C.1). They were caught predominately in waters  $\leq 37$  m deep.

Blue crab are caught primarily in the 0-18 m zone (Appendix C, Table C.1). Catch rates at these depths ranged from 3-20/h in all years.

##### Fall (November)

Brown shrimp were caught in all depth zones, with highest catch rates at water depths generally  $> 18$  m (Appendix C, Table C.2). White shrimp, pink shrimp and blue crab were predominately caught in waters  $\leq 37$  m deep.



## OVERVIEW

TPW is mandated by the Texas Legislature and the TPW Commission to annually investigate population trends, habitat variability, socio-economics, commercial and recreational fishing impacts and any other factors or conditions which may result in increases or decreases of finfishes and shellfishes in Texas waters. Long-term trend data based on independent standardized monitoring programs are necessary to assess changes in relative abundance of these populations. Shrimp data were used to recommend dates for the annual closure of Texas gulf waters to shrimping. Oyster data were used to establish the oyster transplant season in Galveston Bay. Finfish data were used to recommend changes in fishing regulations. These data were used to develop management plans for shrimp, oysters, and blue crabs as mandated by the Texas Legislature. Additionally, these data are used routinely by "outside" scientists in the private and public sector, especially the Gulf of Mexico Fisheries Management Council and the Gulf States Marine Fisheries Commission. TPW data base was used extensively by both the Galveston Bay, and Corpus Christi Bay National Estuary Programs to determine status and trends of populations. Data in the present report are used to determine long-term trends in abundance and stability of finfishes and shellfish populations in Texas coastal waters and to implement management regulations.

Effective management of marine species populations requires knowledge of the relationship between spawning and subsequent adult abundance (Cushing 1970, Gulland 1977). Since it has been possible to detect changes in annual abundances with bag seines and gill nets, it may be possible to determine stock-recruitment relationships utilizing these gears. To determine these relationships, it is imperative that the standardized monitoring program used by TPW be maintained.

To determine effects of natural or man induced events in Texas coastal ecosystems, standardized monitoring programs used by TPW should be maintained. The following "meta events" affecting coastal waters were documented in 1996. Other unreported events may have occurred.

- 1) The Texas Closure (1 June-15 July; 45 days) for shrimping in state offshore Gulf waters (<9 nautical miles) was coordinated with NMFS for a combined closure out to 200 nautical miles offshore (Exclusive Economic Zone) to increase yield and value for the shrimping industry.
- 2) There were 511 sea turtle strandings (202 loggerheads, 123 Kemp's Ridleys, 120 greens, 11 leatherbacks, 41 hawksbills, 14 unknown) during 1996. The number of strandings were highest from July through November and occurred in conjunction with Gulf nearshore shrimp trawling effort.
- 3) Fish production for bay stockings were predominately from Perry R. Bass Marine Fisheries Research Station and the G.C.C.A./C.P.L Marine Development Center. Sea Center was not on-line for production. Total red drum stocked were 25,516,148 fingerlings and 146,364,414 fry. Total spotted seatrout stocked were 2,289,279 fingerlings and 61,570,096 fry. Atlantic croaker fry were stocked in small numbers (N=1,242,928). Distribution was greatly enhanced by the use of boats for some of the stockings in Texas bay ecosystems.

- 4) During 1996, two 4-pile jackets in High Island A-341 and one 8-pile jacket in High Island A-355, were donated to two Artificial Reef Program's deep water reef sites. These two donations resulted in an increase of \$591,850 to the Artificial Reef fund. The 8-pile jacket in High Island A-355 was severed to 90 ft by abrasive cutters, rather than using explosives, to obtain the maximum biological profile in the water column within current safe navigation allowances. Basco's Reef, a nearshore artificial reef site, was enhanced on 28 May 1996 by the U.S. Coast Guard, Group Galveston on the Cutter Papaw, when eight more concrete anchor sinkers were placed at the site.
- 5) Airplane flights on the opening day of the spring (15 May-15 July) and fall (15 August-15 December) bay shrimping seasons revealed the Texas bay commercial shrimping fleet was active from Galveston to Corpus Christi Bay. Only 471 shrimp vessels, compared to 833 in 1995, were counted on 15 May: 207 shrimp vessels were in Galveston Bay, 57 in Matagorda Bay, 26 in East Matagorda, 63 in San Antonio Bay, 55 in Aransas Bay, and 58 in Corpus Christi Bay. On 15 August, 844 vessels were counted: 324 in Galveston Bay, 344 in Matagorda Bay, 64 in San Antonio Bay, 63 in Aransas Bay, and 49 in Corpus Christi Bay.
- 6) A red tide bloom (Gymnodinium breve) occurred in Texas waters from 11 September to 1 November 1996. The event was first noticed off of Mustang Island in the Gulf of Mexico and eventually occurred in both bay and gulf waters south of Matagorda Bay and Pass Cavallo. A total of 3 million fish were killed, with 2% of recreational or commercial importance. The bay fish kill was 93,000 fish, while 2.9 million were killed in the Gulf. The top three species killed were: 23% Atlantic thread herring, Opisthonema oglinum, 23% Gulf menhaden, Brevoortia patronus, and 19% striped mullet, Mugil cephalus. Primary management concerns were from 12,000 brooder red drum that died in the Gulf off of Saint Joseph and Matagorda Islands during their spawning period. In Aransas and Corpus Christi Bays, bag seine catch rates for recruiting juveniles were ~65% below the long term mean. In addition, oyster harvest was closed in some mid-coast bays for up to 120 days, by the Texas Department of Health Seafood Safety Division, due to unsafe levels of red tide (Gymnodinium breve) and brevetoxin. These bays included: San Antonio and Aransas (except Copano) Systems closed into 1997; West Matagorda (Tres Palacios, Lavaca and Carancahua Bays) closed until 2 December; Matagorda Bay and Powderhorn Lake closed until 9 December; and Copano Bay closed until 19 December.
- 7) Aquaculture facilities continue to flourish along the coast. However, an outbreak of Taura virus in August (near Port Bay) and September (in 2 ponds in Man Tai shrimp farms) caused die-offs in private shrimp aquaculture ponds containing Penaeus vannamei. Mortality and financial loss in 1996 was lower than 1995.
- 8) A 100 square mile area of reddish discolored water was observed during June, 10-12 miles offshore from Sabine Pass, in the Gulf of Mexico. Dissolved oxygen ranged from 11.0 (at surface) to 6.0 ppm (at the bottom).
- 9) A state record spotted seatrout was caught in February and may have triggered a tremendous increase in fishing pressure directed toward trophy spotted seatrout in the upper Laguna Madre-Baffin Bay complex as well as

in other Coastal Bend areas. Large numbers of >28 inch spotted seatrout were landed during the spring and summer in the upper Laguna Madre. Increased sales and use of live croaker for bait was seen in part due to the effectiveness of this bait on large spotted seatrout.

- 10) The Limited Entry Program for the Texas Bay Shrimp Fishery initiated the first buyback program in 1996. There were 30 licenses (17 Bay, 13 Bait) purchased from 202 applicants. Shrimp vessel buybacks averaged \$3,394/vessel with a total of \$101,820 spent during 1996.
- 11) A seine survey of several bayous in the Houston area resulted in >136 kg of grass carp collected. Of 18 fish checked, all were diploid and sizes indicate spawning in the area. These fish would have ample opportunity to spawn in Bray's Bayou. Other species seen in Bray's bayou were Rio Grande cichlids and Plecostomus spp., striped bass hybrid, koi and goldfish.
- 12) Low water temperatures (February, March and December) and drought showed lower and delayed catches of shrimp and finfish, coastwide. Brown shrimp bag seine catches were both delayed and decreased while white shrimp showed the lowest bag seine catch rates since 1990. Even though a 25% reduction of finfish was observed in 1996 from the lower Laguna Madre, this was a record high year for juvenile snook in the Rio Grande River.
- 13) A ten-month drought affected the state of Texas and will go down as the worst this century for central Texas. Crop production fell in 1996 (as much as 82%) compared to 1995. Late rains did not fall in enough quantity to recharge aquifers (i.e., Edwards), reservoirs, or deep soil moisture. In the Coastal Bend area, Condition II water rationing was initiated and threats to increase to Condition III were curbed when rain fell in August and September. Rainfall of 8.6 inches in August for Corpus Christi, made August 1996 the third wettest month on record (behind 1980 and 1953). Drought persisted in the upper Laguna Madre area with salinities rising over 60 ppt in parts of the Baffin Bay complex and over 45 ppt in upper Laguna Madre. Due to the higher salinities caused by the drought, oyster drills and the oyster parasite (Perkinsus marinus) were very prevalent in the Galveston area. Oyster drills were found on reefs that had not been prone to this infection, historically. Even during this period of drought, oyster dredge samples indicated that 1996 was an all time high for production of spat, small and market size oysters.
- 14) Two tropical storms, Dolly and Josephine, may have affected Texas marine resources. The close passage (up to 100 miles from Brownsville) of Josephine caused high tides (>3-4 ft above normal), flood waters and heavy rains for parts of the Texas coast, especially the southern portions. Heavy rains received by Tropical Storm Dolly prompted flooding in southeast Texas (Sabine) during August.
- 15) An unusual amount of seismic activity for oil/gas exploration occurred in several bay systems. Most of the Baffin Bay complex, upper Laguna Madre (north of Pure Oil Channel), east end of West Matagorda Bay, and Nueces Bay had activity reported. Fish kills were observed in Nueces Bay and prompted monitoring by both Coastal Fisheries and Resource Protection Divisions. Concerns over impacts to oyster reefs with air gun use in seismic surveys were also investigated. No short term mortality was

observed in oysters under the immediate shot point.

- 16) Brown tide persisted in the Laguna Madre (upper and lower) for the seventh consecutive year. No open bay mortalities were observed with these blooms, but fingerling production at the TPW fish hatchery at Flour Bluff was adversely affected; low dissolved oxygen was recorded in ponds. It was reported that clearer water was seen in some areas of Baffin Bay and upper Laguna Madre during short periods.
- 17) Commercial black drum landings increased to record highs along the Texas Coast. About 4.3 million pounds were reported landed by trotline fishermen. Most (92%) landings came from the lower coast (upper Laguna Madre = 2.0 million; lower Laguna Madre and Corpus Christ Bay = 1.9 million lbs).
- 18) Kill Investigations:

Copano Bay: Gaping oysters were picked up in December at a rate of 10-20%. The area was free from red tide influence. Long dead oysters were also found at Long Reef with Perkinsus marinus believed to be the culprit.

San Antonio Bay experienced higher than normal fall oyster mortality. Fresh dead gapers with meat and without meat were analyzed. Causes were not confirmed but may be related to red tide, high salinities and low river flow.

Cold:

Due to record low temperatures during February, Sabine Lake noted a minor fish kill (20 striped mullet), while the lower Laguna Madre noted about 1,000 fish killed (600 snook, 150 gray snapper, and 125 burrfish). Additional fish were killed in a canal at DOW, in Freeport: 8 tarpon (37-48 inches), 12 skipjacks, 3 Atlantic spadefish and 12 gafftopsail catfish.

The cold snap in February accounted for a high number of green sea turtle strandings (N=62).

Red Tide (Gymnodinium breve bloom in individual ecosystems):

West Matagorda Bay saw red tide blooms through October with little to no impact on fish populations.

In San Antonio Bay, fish mortality was observed in all areas of the bay from September through the end of the year.

By mid September the bloom was present in Aransas Bay and Rockport (cells >20,000/ml) and numbers of animals in resource samples declined. Mortality estimates in Aransas Bay were 1.5 million fish.

The red tide bloom entered Corpus Christi Bay and the northern portion of the upper Laguna Madre system by the end of September and October, respectively. Mortality was light with mostly pinfish and striped mullet affected.

Red Tide was present in the lower Laguna Madre from October through the first of November. A moderate kill of striped mullet, Atlantic needlefish and hardhead catfish occurred near Green Island. Cell counts were as high as 48,000/ml.

19) Low DO's/ drought-related episodes

Low Dissolved Oxygen levels during May and June:

Upper Laguna Madre-Developed channel kill: Tropic Isles (Padre Island), no estimates.

Rockport: Two canals experienced minor kills of menhaden. Menhaden kills continued through June with estimates of 1 million fish by the second week of June.

West Matagorda Bay: An estimated 1.5 million menhaden reported in Lynn Bayou.

Galveston Bay: Primarily menhaden kills reported in marinas and dead end canals.

July: Vincent's Slough experienced a drought related fish kill of thousands of adult red drum, black drum and mullet. Reports of "blind drum" were also made.

October: Two fish kills were reported in the back marshes of Texas Bayou (50 flounder, some over 500 mm TL) and in the ten-mile cut area of Keith Lake marsh (unknown number of red drum). Low DO's (<2.0 ppm) are probably responsible for both fish kills.

20) Strandings

Three neonate dolphins were stranded the first week of April in Aransas Bay.

21) OIL CHEMICAL/ SPILLS

Sabine Lake

26 June: A broken pipeline spilled 200 barrels of oil into the Neches River and Lake Bayou.

November: A natural gas well spilled as much as 80 barrels of brine per day into Bessie Heights marsh. No associated fish kill observed.

Galveston Bay

March: A barge ruptured near the Bolivar Ferry landing and spilled about 5,000 barrels of heavy fuel oil. Strong outgoing tides carried the majority offshore (as far as 50 miles), but the infauna associated with the jetties was impacted, as well as several cases of oiled wildlife. Oil from this spill eventually washed ashore on beaches of Matagorda, Mustang and San Jose Islands, and Padre Island National Seashore.

May: A barge spilled 1,000 barrels of heavy fuel oil near Kemah. Most of the oil was blown onto shell and sand beaches on Atkinson Island and La Porte, minimizing impacts to oysters and nearby marsh habitat.

Corpus Christi Bay

Small crude oil/condensate spills investigated by Resource Protection Division:

January: fish kill-CC Inner Harbor

February: Petroleum at CC Inner Harbor  
 May: Condensate at La Quinta Channel  
 June: (2) Crude; Corpus Christi at Inner Harbor, Crude/condensate at Port Aransas Ferry Landing  
 October: Crude/condensate; south of Dagger Island

#### Upper Laguna Madre

April: Buffalo 292 oil spill, Gulf Beaches

December: (2) crude/condensate at Pure Oil Channel, oil/condensate at Marker 89 & 90

#### Lower Laguna Madre

A freighter in the Brownsville Ship Channel leaked ~8,400 gallons of diesel fuel. Most of the fuel was recovered. A small area was contained and then evaporated. One brown pelican was killed and the responsible party was fined by USFWS.

## 22) Regulations and Legislation

### Adopted 11 June:

State-wide hunting and fishing regulations- (TPW Commission adopted the repeal of 31 TAC 65.71-65.91 and a new 31 TAC 65.71-65.91 regarding Subchapter A. Fishing Provisions): which provides the Commission with the authority to establish wildlife resource regulations for the state.

### Regulation 57.801 concerning EEZ:

This rule will allow better and more timely management of species which migrate between state and federal waters off Texas and improve law enforcement while reducing confusion for Gulf anglers. Per implementation of S.B. 733 by the 74th Legislature, the item allows the Commission to authorize the executive director to modify state coastal fisheries regulations when necessary to make them consistent with federal regulations (> 9 nautical miles off the Texas coast).

### Senate Bill 733:

Texas Parks and Wildlife implemented Proclamation 57.801 which removed cobia, king mackerel, Spanish mackerel and wahoo from the list of commercially protected finfish.

### Senate Bill 814:

This bill redefines "commercial fisherman" to include a person who unloads, in Texas, aquatic products taken from waters outside this state for commercial purposes; creates a commercial shrimp boat captain's license; requires a captain who operates a licensed shrimp boat to hold a shrimp boat captain's license; establishes a resident and a non-resident fee for a shrimp boat license; exempts a person holding a licensed commercial shrimp boat, oyster boat or bait dealer from holding a general commercial fisherman's license; exempts a person holding a shrimp boat captain's license and each paid crew member from the commercial finfish fisherman's or bait dealer's licenses requirements when catching or unloading finfish taken incidental to lawful shrimping operations; allows only the holder of a commercial shrimp boat license to sell shrimp and other aquatic products taken in legal shrimping operations, allows a wholesale or retail fish dealer or restaurant to purchase aquatic products from the holder of a commercial shrimp boat

captain's license and requires the appropriate commercial license number to be included on an aquatic cash sale ticket.

House Bill 1785:

This bill allows the Commission to waive the fee or license requirement or establish a lower fee for a resident who is older than 65 years (born after August 31, 1930) or under 17 years of age.

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Table 1. Mean catch rates (No./h) and mean total lengths (mm) of selected fishes and blue crab caught with gill nets (all meshes combined) by bay system during spring 1976-96. Blank indicates no measurement taken; ND = no data.

| Species<br>Year         | Sabine Lake |        | Galveston |        | East  |        | Matagorda |        | San Antonio |        | Aransas |        | Corpus Christi |        | Upper Laguna Madre |        | Lower Laguna Madre |        | Coastwide |        |  |
|-------------------------|-------------|--------|-----------|--------|-------|--------|-----------|--------|-------------|--------|---------|--------|----------------|--------|--------------------|--------|--------------------|--------|-----------|--------|--|
|                         | No./h       | Length | No./h     | Length | No./h | Length | No./h     | Length | No./h       | Length | No./h   | Length | No./h          | Length | No./h              | Length | No./h              | Length | No./h     | Length |  |
| <b>Red drum</b>         |             |        |           |        |       |        |           |        |             |        |         |        |                |        |                    |        |                    |        |           |        |  |
| 1976                    | ND          | 310    | 0.1       | 310    | ND    | 418    | 1.0       | 429    | 1.0         | 410    | 1.0     | 451    | 0.6            | 412    | 0.1                | 509    | 1.2                | 458    | 0.7       | 435    |  |
| 1977                    | ND          | 450    | 0.3       | 450    | 0.2   | 418    | 0.1       | 467    | 0.3         | 380    | 0.4     | 409    | 0.4            | 401    | 0.1                | 438    | 0.5                | 442    | 0.3       | 426    |  |
| 1978                    | ND          | 394    | 0.1       | 394    | 0.4   | 429    | 0.5       | 485    | 0.2         | 400    | 0.2     | 444    | 0.3            | 461    | 0.2                | 495    | 0.5                | 462    | 0.3       | 448    |  |
| 1979                    | ND          | 480    | 0.2       | 480    | 0.1   | 466    | 0.2       | 414    | 0.2         | 421    | 0.4     | 423    | 0.3            | 479    | 0.2                | 477    | 0.3                | 452    | 0.3       | 448    |  |
| 1980                    | ND          | 449    | 0.4       | 449    | 0.4   | 451    | 1.1       | 387    | 0.7         | 400    | 0.4     | 373    | 1.0            | 430    | 0.8                | 415    | 0.6                | 438    | 0.8       | 418    |  |
| 1981                    | ND          | 431    | 0.2       | 431    | 0.2   | 465    | 0.2       | 408    | 0.6         | 396    | 0.4     | 399    | 0.3            | 424    | 0.3                | 412    | 1.0                | 438    | 0.4       | 420    |  |
| 1982                    | ND          | 474    | 0.4       | 474    | 0.4   | 436    | 0.5       | 425    | 0.4         | 408    | 0.4     | 430    | 0.5            | 469    | 0.3                | 496    | 1.0                | 497    | 0.6       | 464    |  |
| 1983                    | ND          | 474    | 1.0       | 474    | 1.0   | 475    | 0.6       | 411    | 0.7         | 402    | 0.5     | 385    | 0.4            | 427    | 0.2                | 479    | 0.8                | 479    | 0.6       | 444    |  |
| 1984                    | ND          | 482    | 0.7       | 482    | 0.7   | 446    | 0.1       | 430    | 0.2         | 513    | 0.3     | 419    | 0.8            | 457    | 0.3                | 436    | 0.7                | 514    | 0.5       | 473    |  |
| 1985                    | ND          | 538    | 0.6       | 538    | 0.5   | 514    | 0.2       | 457    | 0.2         | 465    | 0.4     | 463    | 0.6            | 457    | 0.3                | 505    | 0.6                | 508    | 0.4       | 500    |  |
| 1986                    | 0.4         | 520    | 1.4       | 497    | 0.8   | 456    | 0.8       | 463    | 0.6         | 454    | 0.6     | 395    | 0.7            | 463    | 0.3                | 474    | 1.0                | 493    | 0.8       | 474    |  |
| 1987                    | 0.2         | 516    | 0.6       | 497    | 0.6   | 501    | 0.9       | 465    | 0.7         | 451    | 0.6     | 459    | 0.6            | 463    | 0.4                | 519    | 1.1                | 508    | 0.7       | 483    |  |
| 1988                    | 0.3         | 498    | 0.7       | 492    | 0.9   | 473    | 0.7       | 434    | 1.1         | 470    | 0.5     | 436    | 0.6            | 495    | 0.6                | 550    | 1.2                | 499    | 0.8       | 481    |  |
| 1989                    | 0.5         | 480    | 0.7       | 478    | 1.7   | 492    | 0.6       | 452    | 0.7         | 438    | 0.7     | 438    | 0.5            | 469    | 0.4                | 545    | 0.9                | 517    | 0.7       | 476    |  |
| 1990                    | 0.5         | 509    | 0.5       | 529    | 0.8   | 568    | 0.4       | 483    | 0.3         | 474    | 0.5     | 494    | 1.0            | 505    | 0.2                | 538    | 0.8                | 534    | 0.5       | 515    |  |
| 1991                    | 0.5         | 581    | 0.7       | 548    | 0.5   | 532    | 0.3       | 495    | 0.3         | 447    | 0.4     | 472    | 0.9            | 476    | 0.3                | 544    | 1.2                | 509    | 0.5       | 504    |  |
| 1992                    | 0.7         | 470    | 1.2       | 465    | 2.1   | 456    | 1.3       | 397    | 1.3         | 429    | 1.6     | 402    | 1.2            | 481    | 0.7                | 544    | 1.2                | 509    | 1.3       | 450    |  |
| 1993                    | 0.4         | 529    | 1.2       | 529    | 2.6   | 514    | 0.9       | 426    | 1.6         | 439    | 1.2     | 462    | 1.1            | 509    | 0.6                | 555    | 1.3                | 511    | 1.1       | 490    |  |
| 1994                    | 0.4         | 507    | 0.5       | 536    | 1.6   | 528    | 0.6       | 470    | 1.3         | 458    | 1.2     | 471    | 0.6            | 529    | 0.8                | 572    | 1.8                | 549    | 0.9       | 511    |  |
| 1995                    | 0.5         | 456    | 0.7       | 486    | 2.4   | 517    | 0.9       | 459    | 1.4         | 447    | 0.8     | 445    | 0.6            | 488    | 0.4                | 568    | 0.9                | 542    | 0.9       | 483    |  |
| 1996                    | 1.2         | 542    | 1.4       | 523    | 4.4   | 526    | 1.1       | 483    | 2.2         | 477    | 2.2     | 473    | 1.5            | 502    | 0.6                | 547    | 0.7                | 513    | 1.4       | 500    |  |
| <b>Spotted seatrout</b> |             |        |           |        |       |        |           |        |             |        |         |        |                |        |                    |        |                    |        |           |        |  |
| 1976                    | ND          | 530    | <1        | 530    | ND    | 434    | 0.3       | 422    | 0.5         | 382    | 3.3     | 465    | 0.4            | 365    | <1                 | 405    | 3.4                | 457    | 1.1       | 453    |  |
| 1977                    | ND          | 516    | 0.2       | 516    | 2.0   | 434    | 0.2       | 381    | 0.9         | 392    | 1.0     | 422    | 0.4            | 372    | 1.2                | 472    | 1.5                | 422    | 0.8       | 422    |  |
| 1978                    | ND          | 523    | 0.4       | 523    | 0.4   | 441    | 0.6       | 409    | 1.4         | 408    | 0.1     | 435    | 0.5            | 437    | 0.9                | 474    | 1.4                | 503    | 0.7       | 456    |  |
| 1979                    | ND          | 515    | 0.4       | 515    | 0.4   | 426    | 0.3       | 490    | 0.1         | 436    | 0.4     | 507    | 0.3            | 524    | 0.4                | 442    | 0.6                | 525    | 0.7       | 495    |  |
| 1980                    | ND          | 419    | 0.1       | 419    | 0.8   | 402    | 0.6       | 426    | 0.9         | 402    | 0.2     | 468    | 0.3            | 506    | 0.5                | 473    | 0.9                | 497    | 0.5       | 449    |  |
| 1981                    | ND          | 483    | 0.4       | 483    | 1.8   | 416    | 0.4       | 406    | 0.7         | 453    | 0.8     | 468    | 0.5            | 445    | 0.4                | 423    | 2.2                | 471    | 0.8       | 456    |  |
| 1982                    | ND          | 491    | 0.9       | 491    | 0.9   | 454    | 0.5       | 456    | 0.8         | 440    | 0.7     | 435    | 0.8            | 489    | 0.8                | 481    | 2.5                | 485    | 0.9       | 476    |  |
| 1983                    | ND          | 510    | 0.4       | 510    | 1.7   | 441    | 0.7       | 452    | 0.8         | 444    | 0.6     | 447    | 0.7            | 478    | 0.7                | 509    | 1.3                | 500    | 0.7       | 472    |  |
| 1984                    | ND          | 498    | 0.3       | 498    | 0.7   | 468    | 0.3       | 424    | 0.3         | 483    | 0.2     | 435    | 0.2            | 473    | <1                 | 483    | 0.7                | 475    | 0.3       | 472    |  |
| 1985                    | 0.3         | 460    | 0.6       | 467    | 0.6   | 467    | 0.3       | 424    | 0.3         | 457    | 0.4     | 430    | 0.4            | 471    | 0.1                | 427    | 1.4                | 485    | 0.5       | 473    |  |
| 1986                    | 0.2         | 449    | 0.5       | 449    | 1.0   | 432    | 0.5       | 441    | 0.4         | 426    | 0.4     | 430    | 1.0            | 471    | 0.4                | 449    | 1.5                | 488    | 0.7       | 456    |  |
| 1987                    | 0.2         | 339    | 0.6       | 339    | 0.7   | 436    | 0.4       | 434    | 0.4         | 447    | 0.5     | 456    | 0.9            | 478    | 0.4                | 490    | 1.9                | 508    | 0.7       | 474    |  |
| 1988                    | 0.2         | 386    | 0.7       | 459    | 0.8   | 456    | 0.5       | 430    | 0.5         | 435    | 0.5     | 458    | 0.8            | 478    | 0.4                | 507    | 1.6                | 498    | 0.7       | 470    |  |
| 1989                    | 0.2         | 441    | 0.6       | 481    | 0.5   | 494    | 0.5       | 428    | 0.6         | 459    | 0.6     | 463    | 0.7            | 487    | 0.4                | 514    | 1.1                | 485    | 0.6       | 474    |  |
| 1990                    | 0.1         | 441    | 0.5       | 457    | 0.6   | 510    | 0.3       | 432    | 0.6         | 480    | 0.5     | 442    | 1.1            | 447    | 0.2                | 468    | 1.3                | 455    | 0.6       | 454    |  |
| 1991                    | 0.1         | 467    | 0.5       | 449    | 0.3   | 498    | 0.4       | 431    | 0.8         | 440    | 1.0     | 467    | 1.0            | 460    | 0.6                | 447    | 1.3                | 461    | 0.8       | 455    |  |
| 1992                    | 0.2         | 406    | 0.7       | 446    | 0.4   | 511    | 0.4       | 440    | 0.4         | 449    | 0.7     | 443    | 1.3            | 463    | 0.6                | 529    | 1.9                | 483    | 0.8       | 467    |  |
| 1993                    | 0.3         | 415    | 0.5       | 460    | 0.5   | 501    | 0.6       | 428    | 0.7         | 477    | 0.6     | 456    | 1.1            | 440    | 0.5                | 507    | 1.9                | 459    | 0.8       | 459    |  |
| 1994                    | 0.3         | 408    | 0.7       | 460    | 0.8   | 496    | 0.7       | 418    | 0.8         | 438    | 0.9     | 447    | 1.0            | 454    | 0.9                | 465    | 1.8                | 483    | 0.9       | 458    |  |
| 1995                    | 0.1         | 462    | 0.7       | 455    | 0.5   | 490    | 0.4       | 431    | 0.9         | 446    | 0.6     | 448    | 0.9            | 471    | 0.6                | 452    | 1.0                | 467    | 0.7       | 455    |  |
| 1996                    | 0.2         | 411    | 0.7       | 438    | 0.6   | 514    | 0.6       | 414    | 1.3         | 429    | 1.0     | 425    | 0.8            | 457    | 0.5                | 493    | 1.4                | 473    | 0.8       | 446    |  |
| <b>Black drum</b>       |             |        |           |        |       |        |           |        |             |        |         |        |                |        |                    |        |                    |        |           |        |  |
| 1976                    | ND          | 290    | 0.2       | 290    | ND    | 362    | 0.8       | 418    | 1.0         | 306    | 0.9     | 389    | 0.6            | 360    | 0.5                | 352    | 0.9                | 387    | 0.7       | 366    |  |
| 1977                    | ND          | 388    | 0.4       | 388    | 0.3   | 262    | 0.5       | 519    | 1.0         | 314    | 1.2     | 316    | 0.5            | 347    | 0.4                | 377    | 0.9                | 428    | 0.7       | 374    |  |
| 1978                    | ND          | 439    | 0.2       | 439    | 0.4   | 345    | 0.2       | 300    | 0.4         | 306    | 0.4     | 358    | 0.4            | 325    | 0.1                | 398    | 0.8                | 395    | 0.3       | 373    |  |
| 1979                    | ND          | 292    | 0.3       | 292    | 0.7   | 328    | 0.5       | 315    | <1          | 370    | 0.3     | 323    | 0.1            | 375    | 0.3                | 371    | 0.9                | 413    | 0.4       | 371    |  |
| 1980                    | ND          | 314    | 0.4       | 314    | 1.0   | 272    | 0.9       | 355    | 0.5         | 263    | 1.0     | 320    | 0.3            | 352    | 0.7                | 384    | 0.4                | 452    | 0.6       | 341    |  |
| 1981                    | ND          | 418    | 0.8       | 418    | 0.8   | 312    | 0.3       | 301    | 0.4         | 352    | 0.8     | 362    | 0.1            | 379    | 1.1                | 390    | 0.9                | 391    | 0.7       | 381    |  |
| 1982                    | ND          | 337    | 0.8       | 337    | 0.8   | 294    | 0.5       | 363    | 0.7         | 317    | 1.1     | 300    | 0.4            | 339    | 1.0                | 374    | 1.2                | 400    | 0.8       | 374    |  |
| 1983                    | ND          | 337    | 0.9       | 337    | 2.7   | 365    | 0.6       | 355    | 0.6         | 323    | 1.2     | 340    | 0.9            | 371    | 1.0                | 400    | 1.6                | 441    | 1.0       | 372    |  |
| 1984                    | ND          | 373    | 1.0       | 391    | 1.0   | 391    | 0.2       | 368    | 0.2         | 460    | 0.1     | 559    | 0.5            | 414    | 0.6                | 442    | 0.6                | 459    | 0.4       | 417    |  |
| 1985                    | ND          | 346    | 0.4       | 313    | 0.4   | 313    | 0.2       | 402    | 0.1         | 426    | 0.2     | 396    | 0.2            | 342    | 0.8                | 361    | 0.4                | 372    | 0.4       | 374    |  |
| 1986                    | 0.3         | 383    | 0.5       | 383    | 0.6   | 345    | 0.3       | 402    | 0.1         | 313    | 0.4     | 315    | 0.6            | 369    | 0.7                | 418    | 0.4                | 464    | 0.4       | 387    |  |
| 1987                    | 0.1         | 399    | 0.5       | 368    | 0.6   | 320    | 0.4       | 366    | 0.2         | 392    | 0.5     | 382    | 0.5            | 459    | 1.1                | 453    | 0.5                | 458    | 0.7       | 409    |  |
| 1988                    | 0.1         | 410    | 0.4       | 380    | 0.7   | 376    | 0.4       | 390    | 0.4         | 339    | 0.4     | 375    | 0.8            | 444    | 0.3                | 397    | 0.3                | 451    | 0.5       | 396    |  |
| 1989                    | 0.2         | 326    | 0.6       | 350    | 1.8   | 378    | 0.4       | 412    | 0.3         | 363    | 0.6     | 371    | 0.4            | 406    | 1.0                | 426    | 0.5                | 408    | 0.6       | 386    |  |
| 1990                    | 0.2         | 378    | 0.5       | 378    | 1.5   | 393    | 0.8       | 341    | 0.3         | 330    | 0.7     | 336    | 0.6            | 411    | 1.4                | 418    | 0.7                | 410    | 0.7       | 381    |  |
| 1991                    | 0.3         | 318    | 0.6       | 356    | 1.4   | 347    | 0.8       | 354    | 0.5         | 294    | 1.1     | 308    | 0.4            | 361    | 3.0                | 366    | 1.2                | 369    | 1.0       | 350    |  |
| 1992                    | 0.2         | 366    | 0.5       | 370    | 1.3   | 391    | 0.4       | 339    | 0.8         | 388    | 0.7     | 335    | 1.6            | 374    | 3.0                | 349    | 2.3                | 408    | 1.2       | 372    |  |
| 1993                    | 0.3         | 360    | 0.4       | 377    | 0.4   | 345    | 0.4       | 374    | 1.8         | 449    | 1.6     | 417    | 3.4            | 400    | 2.4                | 376    | 2.2                | 397    | 1.4       | 401    |  |

Table 1. (Cont.)

| Species<br>Year           | Sabine Lake |        |     | Galveston |        |     | East<br>Matagorda |        |     | Matagorda |        |     | San Antonio |        |     | Aransas |        |     | Corpus<br>Christi |        |  | Upper Laguna<br>Madre |        |  | Lower Laguna<br>Madre |        |  | Coastwide |        |  |  |  |  |  |
|---------------------------|-------------|--------|-----|-----------|--------|-----|-------------------|--------|-----|-----------|--------|-----|-------------|--------|-----|---------|--------|-----|-------------------|--------|--|-----------------------|--------|--|-----------------------|--------|--|-----------|--------|--|--|--|--|--|
|                           | No./h       | Length |     | No./h     | Length |     | No./h             | Length |     | No./h     | Length |     | No./h       | Length |     | No./h   | Length |     | No./h             | Length |  | No./h                 | Length |  | No./h                 | Length |  | No./h     | Length |  |  |  |  |  |
| <b>Black drum (cont.)</b> |             |        |     |           |        |     |                   |        |     |           |        |     |             |        |     |         |        |     |                   |        |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1994                      | 0.4         | 376    | 0.4 | 415       | 0.1    | 363 | 0.6               | 418    | 1.2 | 489       | 1.0    | 469 | 2.1         | 431    | 4.3 | 398     | 3.2    | 429 | 1.5               | 427    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1995                      | 0.2         | 330    | 0.4 | 381       | 0.3    | 332 | 0.9               | 418    | 0.7 | 395       | 1.1    | 444 | 1.0         | 454    | 4.2 | 420     | 1.8    | 442 | 1.2               | 424    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1996                      | 0.5         | 381    | 0.5 | 378       | 0.3    | 375 | 0.7               | 391    | 1.2 | 395       | 1.1    | 383 | 1.5         | 474    | 3.3 | 451     | 2.7    | 508 | 1.4               | 444    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| <b>Sheepshead</b>         |             |        |     |           |        |     |                   |        |     |           |        |     |             |        |     |         |        |     |                   |        |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1976                      | ND          |        | 0.0 |           | ND     |     | 0.1               | 420    | 0.3 | 341       | 0.6    | 342 | 0.0         |        | 0.3 | 367     | 0.3    | 318 | 0.2               | 345    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1977                      | ND          |        | <.1 | 338       | <.1    | 234 | 0.1               | 280    | 0.2 | 308       | <.1    | 232 | 0.1         | 294    | 0.1 | 380     | 0.1    | 336 | 0.1               | 311    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1978                      | ND          |        | 0.0 | 305       | 0.4    | 296 | <.1               | 278    | 0.2 | 313       | <.1    | 354 | 0.2         | 356    | 0.2 | 394     | 0.2    | 358 | 0.1               | 350    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1979                      | ND          |        | 0.0 | 305       | 0.1    | 297 | 0.1               | 291    | <.1 | 402       | 0.2    | 354 | 0.5         | 362    | 0.1 | 370     | 0.2    | 358 | 0.1               | 350    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1980                      | ND          |        | <.1 | 393       | 0.3    | 347 | 0.1               | 334    | 0.1 | 320       | 0.2    | 352 | 0.2         | 322    | 0.2 | 369     | 0.3    | 343 | 0.2               | 345    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1981                      | ND          |        | <.1 | 393       | 0.2    | 326 | <.1               | 453    | 0.6 | 335       | 0.3    | 349 | 0.1         | 319    | 0.2 | 390     | 0.6    | 325 | 0.2               | 342    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1982                      | ND          |        | 0.1 | 332       | 0.0    | 326 | 0.1               | 453    | 0.6 | 354       | <.1    | 326 | 0.2         | 343    | 0.6 | 326     | 0.6    | 326 | 0.2               | 336    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1983                      | ND          |        | 0.1 | 313       | 0.4    | 311 | 0.1               | 373    | 0.2 | 372       | 0.1    | 349 | 0.3         | 370    | 0.2 | 392     | 0.4    | 342 | 0.2               | 354    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1984                      | ND          |        | 0.1 | 351       | 0.3    | 354 | 0.1               | 387    | 0.2 | 378       | <.1    | 401 | 0.2         | 379    | 0.1 | 385     | 0.4    | 348 | 0.1               | 370    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1985                      | ND          |        | <.1 | 352       | 0.2    | 372 | <.1               | 337    | 0.1 | 409       | <.1    | 382 | 0.1         | 424    | <.1 | 427     | 0.1    | 353 | 0.1               | 382    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1986                      | ND          |        | <.1 | 372       | 0.2    | 356 | <.1               | 369    | 0.1 | 417       | <.1    | 305 | 0.1         | 388    | <.1 | 427     | 0.1    | 370 | 0.1               | 382    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1987                      | <.1         | 364    | <.1 | 405       | 0.2    | 314 | <.1               | 340    | <.1 | 447       | <.1    | 342 | <.1         | 350    | <.1 | 403     | 0.2    | 372 | 0.1               | 366    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1988                      | 0.0         |        | <.1 | 405       | 0.1    | 350 | <.1               | 357    | 0.1 | 348       | 0.1    | 348 | 0.1         | 371    | <.1 | 371     | 0.2    | 369 | 0.1               | 366    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1989                      | <.0         | 529    | 0.1 | 384       | 0.3    | 324 | <.1               | 371    | <.1 | 379       | <.1    | 350 | 0.2         | 412    | <.1 | 371     | 0.2    | 371 | 0.1               | 374    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1990                      | <.1         | 364    | <.1 | 378       | 0.3    | 364 | 0.1               | 400    | <.1 | 444       | <.1    | 372 | 0.2         | 388    | <.1 | 358     | 0.1    | 396 | 0.1               | 387    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1991                      | <.1         | 354    | <.1 | 381       | 0.2    | 343 | 0.1               | 359    | <.1 | 444       | <.1    | 372 | 0.2         | 367    | <.1 | 358     | 0.1    | 386 | 0.1               | 382    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1992                      | <.1         | 278    | <.1 | 346       | 0.1    | 356 | 0.1               | 367    | 0.1 | 415       | <.1    | 348 | 0.1         | 436    | <.1 | 406     | 0.1    | 379 | 0.1               | 390    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1993                      | <.1         | 343    | <.1 | 376       | 0.2    | 360 | 0.1               | 408    | 0.1 | 455       | <.1    | 348 | 0.1         | 434    | <.1 | 427     | 0.1    | 394 | 0.1               | 392    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1994                      | <.1         | 353    | <.1 | 374       | 0.2    | 413 | <.1               | 372    | <.1 | 374       | <.1    | 344 | <.1         | 435    | <.1 | 426     | 0.1    | 375 | 0.1               | 376    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1995                      | <.1         | 309    | <.1 | 389       | 0.1    | 428 | 0.1               | 407    | 0.3 | 359       | 0.1    | 363 | 0.3         | 446    | <.1 | 426     | 0.1    | 372 | 0.1               | 393    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1996                      | <.1         | 362    | <.1 | 383       | 0.5    | 438 | 0.2               | 403    | 0.7 | 401       | 0.1    | 367 | 0.2         | 452    | <.1 | 397     | 0.1    | 371 | 0.1               | 402    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| <b>Southern flounder</b>  |             |        |     |           |        |     |                   |        |     |           |        |     |             |        |     |         |        |     |                   |        |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1976                      | ND          |        | 0.0 |           | ND     |     | 0.0               | 328    | 0.1 | 335       | 0.0    | 358 | 0.0         |        | 0.0 | 350     | 0.2    | 350 | 0.2               | 345    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1977                      | ND          |        | <.1 | 351       | 0.1    | 358 | <.1               | 330    | <.1 | 208       | 0.1    | 338 | <.1         | 430    | 0.0 | 345     | <.1    | 345 | <.1               | 347    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1978                      | ND          |        | <.1 | 249       | 0.1    | 352 | 0.1               | 290    | 0.1 | 279       | <.1    | 291 | 0.1         | 338    | 0.0 | 345     | 0.1    | 344 | 0.1               | 354    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1979                      | ND          |        | <.1 | 451       | 0.1    | 348 | 0.1               | 290    | 0.1 | 388       | <.1    | 291 | 0.1         | 373    | 0.1 | 320     | 0.2    | 366 | 0.1               | 354    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1980                      | ND          |        | 0.1 | 344       | 0.1    | 325 | 0.1               | 307    | <.1 | 292       | 0.1    | 292 | 0.1         | 316    | 0.1 | 364     | 0.1    | 364 | 0.1               | 330    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1981                      | ND          |        | <.1 | 244       | <.1    | 340 | <.1               | 270    | 0.1 | 291       | <.1    | 368 | 0.1         | 332    | 0.1 | 348     | 0.1    | 338 | 0.1               | 322    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1982                      | ND          |        | <.1 | 343       | 0.1    | 319 | 0.1               | 307    | 0.1 | 305       | 0.1    | 299 | 0.1         | 361    | 0.1 | 337     | 0.1    | 350 | 0.1               | 332    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1983                      | ND          |        | 0.1 | 366       | 0.1    | 318 | 0.1               | 327    | <.1 | 333       | <.1    | 329 | 0.1         | 385    | 0.1 | 359     | 0.1    | 371 | 0.1               | 357    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1984                      | ND          |        | 0.1 | 338       | 0.1    | 388 | <.1               | 317    | <.1 | 321       | <.1    | 310 | 0.1         | 377    | <.1 | 344     | <.1    | 355 | 0.1               | 342    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1985                      | ND          |        | 0.1 | 349       | 0.1    | 348 | <.1               | 346    | 0.1 | 329       | 0.1    | 347 | 0.1         | 353    | 0.1 | 346     | 0.1    | 336 | 0.1               | 344    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1986                      | <.1         | 294    | 0.1 | 345       | 0.2    | 329 | <.1               | 358    | 0.1 | 316       | 0.1    | 357 | <.1         | 395    | 0.1 | 354     | 0.1    | 370 | 0.1               | 354    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1987                      | <.1         | 364    | 0.1 | 338       | 0.1    | 330 | <.1               | 304    | 0.1 | 345       | <.1    | 336 | <.1         | 333    | 0.1 | 407     | 0.1    | 401 | 0.1               | 353    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1988                      | <.1         | 292    | 0.1 | 367       | 0.1    | 349 | 0.1               | 354    | 0.1 | 350       | <.1    | 334 | <.1         | 353    | 0.1 | 400     | <.1    | 360 | 0.1               | 359    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1989                      | <.1         | 288    | 0.1 | 347       | 0.1    | 362 | <.1               | 318    | <.1 | 317       | <.1    | 340 | <.1         | 381    | <.1 | 402     | 0.1    | 392 | <.1               | 349    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1990                      | <.1         | 309    | <.1 | 351       | 0.1    | 360 | <.1               | 354    | <.1 | 350       | <.1    | 311 | <.1         | 347    | <.1 | 333     | 0.1    | 410 | <.1               | 358    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1991                      | <.1         | 329    | 0.1 | 322       | 0.1    | 365 | <.1               | 322    | 0.1 | 348       | 0.1    | 326 | 0.1         | 343    | 0.1 | 363     | 0.1    | 358 | 0.1               | 346    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1992                      | <.1         | 319    | 0.1 | 371       | 0.1    | 366 | <.1               | 346    | <.1 | 373       | <.1    | 355 | <.1         | 377    | <.1 | 384     | 0.1    | 394 | <.1               | 374    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1993                      | <.1         | 364    | <.1 | 360       | 0.1    | 395 | <.1               | 369    | <.1 | 357       | <.1    | 417 | 0.1         | 398    | <.1 | 438     | 0.1    | 380 | <.1               | 374    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1994                      | <.1         | 334    | <.1 | 343       | 0.1    | 378 | <.1               | 273    | <.1 | 362       | <.1    | 332 | <.1         | 388    | <.1 | 432     | <.1    | 349 | <.1               | 352    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1995                      | <.1         | 315    | <.1 | 331       | 0.1    | 400 | <.1               | 369    | <.1 | 369       | <.1    | 370 | <.1         | 398    | <.1 | 362     | <.1    | 379 | <.1               | 367    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1996                      | <.1         | 369    | 0.1 | 373       | 0.1    | 380 | <.1               | 360    | <.1 | 381       | 0.1    | 377 | 0.1         | 392    | <.1 | 341     | 0.1    | 402 | <.1               | 377    |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| <b>Atlantic croaker</b>   |             |        |     |           |        |     |                   |        |     |           |        |     |             |        |     |         |        |     |                   |        |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |
| 1976                      | ND          |        | 0.2 | 288       | 0.2    | 255 | 0.1               | 277    | 0.0 | 332       | 0.0    | 285 | 1.0         | 277    | 0.0 | 333     | 0.8    | 333 |                   |        |  |                       |        |  |                       |        |  |           |        |  |  |  |  |  |

Table 1. (Cont.)

| Species<br>Year                 | Sabine Lake |        | Galveston |        | East<br>Matagorda |        | Matagorda |        | San Antonio |        | Arkansas |        | Upper Laguna<br>Madre |        | Lower Laguna<br>Madre |        | Coastwide |        |
|---------------------------------|-------------|--------|-----------|--------|-------------------|--------|-----------|--------|-------------|--------|----------|--------|-----------------------|--------|-----------------------|--------|-----------|--------|
|                                 | No./h       | Length | No./h     | Length | No./h             | Length | No./h     | Length | No./h       | Length | No./h    | Length | No./h                 | Length | No./h                 | Length | No./h     | Length |
| <b>Atlantic croaker (cont.)</b> |             |        |           |        |                   |        |           |        |             |        |          |        |                       |        |                       |        |           |        |
| 1989                            | 0.1         | 264    | 0.1       | 264    | 0.1               | 280    | <1        | 250    | 0.0         | 262    | <1       | 262    | <1                    | 342    | <1                    | 283    | <1        | 274    |
| 1990                            | <1          | 269    | 0.1       | 269    | 0.1               | 268    | <1        | 268    | <1          | 276    | <1       | 276    | <1                    | 245    | <1                    | 272    | <1        | 269    |
| 1991                            | 0.1         | 297    | 0.1       | 262    | <1                | 256    | <1        | 237    | 0.1         | 239    | <1       | 261    | <1                    | 269    | 0.1                   | 267    | 0.1       | 263    |
| 1992                            | 0.1         | 263    | 0.2       | 253    | 0.2               | 270    | <1        | 257    | 0.0         | 232    | <1       | 204    | <1                    | 290    | 0.1                   | 266    | 0.1       | 261    |
| 1993                            | 0.1         | 286    | 0.2       | 256    | 0.1               | 259    | <1        | 237    | <1          | 277    | <1       | 265    | 0.1                   | 295    | 0.1                   | 272    | 0.1       | 264    |
| 1994                            | 0.1         | 297    | 0.1       | 267    | 0.1               | 272    | <1        | 266    | 0.1         | 263    | <1       | 279    | <1                    | 328    | <1                    | 298    | 0.1       | 279    |
| 1995                            | <1          | 278    | 0.2       | 262    | 0.1               | 281    | <1        | 289    | <1          | 276    | <1       | 300    | <1                    | 382    | <1                    | 321    | <1        | 275    |
| 1996                            | 0.1         | 268    | 0.3       | 277    | 0.1               | 255    | <1        | 249    | 0.1         | 275    | <1       | 294    | <1                    | 355    | <1                    | 273    | 0.1       | 277    |
| <b>Gafftopsail catfish</b>      |             |        |           |        |                   |        |           |        |             |        |          |        |                       |        |                       |        |           |        |
| 1976                            | ND          | 504    | 6.4       | 504    | ND                | 494    | 0.5       | 494    | 2.3         | 456    | 0.0      | 506    | 0.0                   | 0.0    | 0.0                   | 0.0    | 1.8       | 496    |
| 1977                            | ND          | 480    | 0.2       | 480    | 0.4               | 506    | 0.9       | 556    | 3.3         | 538    | 3.1      | 506    | 0.0                   | 0.0    | 0.0                   | 0.0    | 1.0       | 524    |
| 1978                            | ND          | 539    | 0.1       | 539    | 0.1               | 546    | 1.1       | 546    | 1.8         | 496    | 0.1      | 545    | 0.0                   | 0.0    | 0.0                   | 0.0    | 0.5       | 521    |
| 1979                            | ND          | 534    | 0.3       | 520    | 0.5               | 534    | 0.4       | 553    | 0.4         | 534    | 0.5      | 544    | 0.0                   | 0.0    | 0.0                   | 0.0    | 0.3       | 539    |
| 1980                            | ND          | 511    | 0.2       | 511    | 0.2               | 566    | 0.5       | 554    | 1.2         | 547    | 0.4      | 552    | 0.0                   | 0.0    | 0.0                   | 0.0    | 0.3       | 546    |
| 1981                            | ND          | 514    | 0.3       | 514    | 0.3               | 480    | 0.8       | 541    | 0.5         | 537    | 1.4      | 541    | 0.1                   | 577    | 0.0                   | 0.0    | 0.4       | 536    |
| 1982                            | ND          | 513    | 0.2       | 513    | 0.2               | 496    | 0.4       | 544    | 1.4         | 540    | 0.9      | 542    | 0.3                   | 550    | <1                    | 372    | 0.5       | 535    |
| 1983                            | ND          | 544    | 0.4       | 544    | <1                | 580    | 0.3       | 537    | 2.0         | 530    | 0.9      | 537    | 0.1                   | 575    | 0.0                   | 0.0    | 0.5       | 534    |
| 1984                            | ND          | 527    | 0.2       | 527    | <1                | 580    | 1.0       | 529    | 1.1         | 530    | 0.6      | 550    | 0.2                   | 472    | <1                    | 211    | 0.4       | 533    |
| 1985                            | ND          | 532    | 0.3       | 532    | <1                | 467    | 0.4       | 517    | 0.8         | 537    | 0.1      | 557    | 0.1                   | 413    | <1                    | 388    | 0.2       | 530    |
| 1986                            | 0.2         | 490    | 0.4       | 515    | 0.3               | 468    | 0.3       | 533    | 0.5         | 554    | 0.4      | 529    | 0.4                   | 374    | 0.0                   | 0.0    | 0.3       | 528    |
| 1987                            | <1          | 509    | 0.4       | 552    | 0.1               | 507    | 0.2       | 559    | 0.1         | 565    | 0.2      | 567    | 0.2                   | 550    | <1                    | 518    | 0.2       | 551    |
| 1988                            | 0.1         | 538    | 0.2       | 511    | 0.1               | 550    | 0.5       | 551    | 0.3         | 563    | 0.2      | 582    | 0.2                   | 550    | <1                    | 428    | 0.2       | 537    |
| 1989                            | <1          | 494    | 0.3       | 536    | 0.1               | 535    | 0.6       | 530    | 0.4         | 557    | 0.1      | 569    | 0.1                   | 533    | 0.0                   | 0.0    | 0.2       | 539    |
| 1990                            | <1          | 518    | 0.8       | 528    | 0.2               | 460    | 0.8       | 534    | 0.6         | 555    | 0.4      | 546    | 0.4                   | 534    | 0.0                   | 0.0    | 0.4       | 537    |
| 1991                            | <1          | 520    | 0.2       | 528    | 0.2               | 528    | 0.5       | 531    | 0.7         | 527    | 0.4      | 565    | 0.4                   | 546    | <1                    | 454    | 0.3       | 532    |
| 1992                            | <1          | 519    | 0.1       | 521    | 0.2               | 556    | 0.3       | 530    | 0.6         | 578    | 0.1      | 559    | 0.2                   | 530    | 0.0                   | 0.0    | 0.2       | 549    |
| 1993                            | <1          | 457    | 0.5       | 494    | 0.2               | 581    | 0.5       | 543    | 0.8         | 563    | 0.3      | 576    | 0.2                   | 503    | <1                    | 405    | 0.3       | 535    |
| 1994                            | <1          | 518    | 0.1       | 485    | 0.2               | 589    | 0.8       | 545    | 1.2         | 571    | 0.2      | 581    | 0.2                   | 547    | 0.0                   | 0.0    | 0.3       | 534    |
| 1995                            | <1          | 508    | 0.4       | 498    | 0.3               | 543    | 0.3       | 517    | 0.7         | 537    | 0.2      | 572    | 0.1                   | 529    | <1                    | 210    | 0.3       | 533    |
| 1996                            | <1          | 377    | 0.3       | 496    | 0.1               | 569    | 0.5       | 494    | 0.6         | 537    | 0.2      | 534    | 0.0                   | 0.0    | <1                    | 456    | 0.3       | 513    |
| <b>Gulf menhaden</b>            |             |        |           |        |                   |        |           |        |             |        |          |        |                       |        |                       |        |           |        |
| 1976                            | ND          | 261    | 0.2       | 261    | ND                | 250    | 0.1       | 250    | 0.1         | 275    | 0.0      | 247    | 0.0                   | 282    | 0.0                   | 229    | 0.1       | 261    |
| 1977                            | ND          | 251    | 0.7       | 299    | 0.1               | 245    | 0.1       | 245    | 0.1         | 233    | 0.3      | 247    | 0.6                   | 255    | 0.0                   | 239    | 0.9       | 253    |
| 1978                            | ND          | 242    | <1        | 194    | 0.2               | 245    | 0.2       | 245    | 1.2         | 258    | 0.1      | 241    | <1                    | 263    | <1                    | 246    | 0.4       | 256    |
| 1979                            | ND          | 193    | 0.0       | 0.0    | 0.0               | 271    | <1        | 252    | <1          | 187    | <1       | 211    | <1                    | 251    | 0.0                   | 253    | 0.3       | 251    |
| 1980                            | ND          | 251    | 0.0       | 0.0    | 0.0               | 252    | <1        | 252    | 0.1         | 282    | <1       | 254    | 0.1                   | 269    | <1                    | 253    | 0.1       | 265    |
| 1981                            | ND          | 260    | 0.0       | 0.0    | 0.0               | 254    | 0.2       | 254    | 0.1         | 252    | 0.2      | 254    | 0.1                   | 243    | 0.1                   | 244    | 0.2       | 255    |
| 1982                            | ND          | 254    | 0.4       | 260    | 0.0               | 249    | <1        | 248    | 0.3         | 252    | 0.1      | 249    | <1                    | 250    | 0.4                   | 268    | 0.2       | 257    |
| 1983                            | ND          | 252    | 0.0       | 252    | 0.0               | 251    | 0.2       | 251    | 0.2         | 243    | 0.1      | 244    | 0.1                   | 248    | 0.1                   | 304    | 0.2       | 252    |
| 1984                            | ND          | 254    | 0.0       | 254    | 0.0               | 251    | 0.1       | 251    | 0.2         | 279    | 0.2      | 246    | 0.1                   | 257    | 0.1                   | 252    | 0.2       | 256    |
| 1985                            | ND          | 253    | <1        | 281    | 0.5               | 242    | 0.5       | 242    | 0.3         | 243    | 0.4      | 250    | 0.6                   | 250    | <1                    | 284    | 0.5       | 252    |
| 1986                            | <1          | 279    | 1.3       | 226    | <1                | 241    | <1        | 241    | 0.0         | 244    | 0.2      | 245    | 0.4                   | 258    | <1                    | 252    | 0.4       | 251    |
| 1987                            | <1          | 348    | 1.2       | 245    | <1                | 227    | <1        | 242    | 0.0         | 226    | 0.2      | 242    | <1                    | 240    | <1                    | 253    | 0.3       | 245    |
| 1988                            | <1          | 278    | 0.1       | 244    | 0.0               | 244    | 0.2       | 244    | <1          | 278    | <1       | 236    | 0.1                   | 253    | <1                    | 290    | 0.1       | 249    |
| 1989                            | <1          | 259    | 1.4       | 249    | 0.0               | 237    | 0.1       | 237    | <1          | 226    | 0.0      | 187    | 0.1                   | 235    | 0.0                   | 290    | 0.1       | 248    |
| 1990                            | <1          | 270    | 1.6       | 242    | <1                | 237    | 0.1       | 236    | <1          | 263    | <1       | 255    | <1                    | 237    | <1                    | 308    | 0.3       | 248    |
| 1991                            | <1          | 253    | 0.3       | 252    | <1                | 216    | 0.1       | 216    | 0.1         | 239    | <1       | 281    | 0.1                   | 255    | <1                    | 239    | 0.4       | 242    |
| 1992                            | <1          | 266    | 0.7       | 257    | 0.0               | 207    | <1        | 207    | 0.1         | 245    | <1       | 251    | 0.1                   | 252    | <1                    | 241    | 0.1       | 247    |
| 1993                            | <1          | 256    | 1.5       | 247    | 0.0               | 257    | 0.1       | 257    | <1          | 217    | 0.0      | 262    | <1                    | 312    | <1                    | 282    | 0.2       | 257    |
| 1994                            | 0.1         | 267    | 0.5       | 260    | 0.0               | 235    | 0.1       | 235    | <1          | 254    | <1       | 262    | 0.1                   | 242    | <1                    | 295    | 0.1       | 258    |
| 1995                            | 0.1         | 275    | 0.2       | 257    | <1                | 252    | 0.3       | 254    | <1          | 255    | 0.1      | 265    | <1                    | 207    | 0.1                   | 269    | 0.1       | 257    |
| 1996                            | <1          | 256    | 0.4       | 252    | <1                | 241    | 0.1       | 241    | <1          | 269    | <1       | 243    | <1                    | 253    | <1                    | 306    | 0.1       | 251    |
| <b>Striped mullet</b>           |             |        |           |        |                   |        |           |        |             |        |          |        |                       |        |                       |        |           |        |
| 1976                            | ND          | 385    | 0.1       | 385    | ND                | 322    | 0.2       | 322    | 0.2         | 338    | 0.6      | 366    | 0.0                   | 375    | 0.0                   | 345    | 0.2       | 358    |
| 1977                            | ND          | 322    | 0.0       | 322    | 0.0               | 314    | 0.9       | 314    | 0.9         | 317    | 0.8      | 327    | 0.1                   | 368    | 0.2                   | 354    | 0.3       | 323    |
| 1978                            | ND          | 0.0    | 0.0       | 0.0    | 0.0               | 336    | 0.4       | 336    | 0.2         | 334    | 0.2      | 327    | 0.2                   | 366    | 0.1                   | 354    | 0.2       | 338    |
| 1979                            | ND          | 0.2    | 320       | 0.2    | 320               | 0.1    | 341       | 0.1    | 341         | 0.7    | 343      | 0.2    | 339                   | 0.1    | 404                   | 0.1    | 354       | 0.2    |
| 1980                            | ND          | 0.1    | 343       | <1     | 338               | 0.4    | 335       | 0.4    | 335         | 0.2    | 328      | 0.1    | 337                   | 0.1    | 379                   | 0.2    | 356       | 0.2    |
| 1981                            | ND          | 0.1    | 318       | <1     | 345               | <1     | 336       | <1     | 341         | 0.1    | 336      | 0.1    | 336                   | 0.1    | 353                   | 0.2    | 353       | 0.1    |
| 1982                            | ND          | 0.2    | 344       | 0.2    | 295               | 0.2    | 326       | 0.2    | 330         | 0.2    | 333      | 0.2    | 344                   | 0.2    | 359                   | 0.2    | 341       | 0.2    |
| 1983                            | ND          | 0.2    | 350       | 0.1    | 346               | 0.1    | 346       | 0.1    | 341         | 0.2    | 341      | 0.2    | 341                   | 0.1    | 367                   | 0.2    | 368       | 0.2    |

Table 1. (Cont.)

| Species<br>Year        | Sabine Lake |        | Galveston |        | East<br>Matagorda |        | Matagorda |        | San Antonio |        | Arkansas |        | Corpus<br>Christi |        | Upper Laguna<br>Madre |        | Lower Laguna<br>Madre |        | Coastwide |        |
|------------------------|-------------|--------|-----------|--------|-------------------|--------|-----------|--------|-------------|--------|----------|--------|-------------------|--------|-----------------------|--------|-----------------------|--------|-----------|--------|
|                        | No./h       | Length | No./h     | Length | No./h             | Length | No./h     | Length | No./h       | Length | No./h    | Length | No./h             | Length | No./h                 | Length | No./h                 | Length | No./h     | Length |
| Striped mullet (cont.) |             |        |           |        |                   |        |           |        |             |        |          |        |                   |        |                       |        |                       |        |           |        |
| 1984                   | ND          |        | 0.2       | 344    | 0.2               | 340    | 0.3       | 328    | 0.2         | 337    | 0.4      | 337    | 0.1               | 336    | 0.6                   | 352    | 0.5                   | 347    | 0.3       | 342    |
| 1985                   | ND          |        | 0.2       | 340    | 0.2               | 339    | 0.3       | 332    | 0.1         | 328    | 0.3      | 340    | 0.1               | 338    | 0.2                   | 380    | 0.1                   | 339    | 0.2       | 342    |
| 1986                   | 0.1         | 326    | 0.2       | 350    | 0.2               | 321    | 0.2       | 330    | 0.1         | 328    | 0.2      | 336    | 0.1               | 340    | 0.1                   | 368    | 0.1                   | 341    | 0.1       | 340    |
| 1987                   | <.1         | 312    | 0.2       | 366    | 0.1               | 319    | 0.2       | 343    | 0.2         | 348    | 0.2      | 354    | 0.1               | 336    | 0.1                   | 402    | 0.2                   | 359    | 0.2       | 357    |
| 1988                   | <.1         | 327    | 0.1       | 344    | 0.2               | 333    | 0.1       | 323    | 0.1         | 348    | 0.1      | 343    | 0.1               | 350    | 0.1                   | 371    | 0.1                   | 364    | 0.1       | 348    |
| 1989                   | <.1         | 323    | 0.2       | 348    | 0.4               | 339    | 0.2       | 337    | 0.1         | 356    | 0.2      | 356    | 0.1               | 344    | 0.1                   | 400    | 0.1                   | 372    | 0.2       | 354    |
| 1990                   | <.1         | 325    | 0.2       | 341    | 0.3               | 342    | 0.4       | 342    | 0.2         | 357    | 0.2      | 340    | 0.2               | 340    | 0.5                   | 389    | 0.4                   | 353    | 0.3       | 354    |
| 1991                   | <.1         | 325    | 0.1       | 347    | 0.2               | 341    | 0.2       | 347    | 0.2         | 343    | 0.3      | 335    | 0.1               | 343    | 0.2                   | 386    | 0.2                   | 377    | 0.2       | 350    |
| 1992                   | <.1         | 310    | 0.1       | 352    | 0.3               | 340    | 0.3       | 341    | 0.2         | 342    | 0.4      | 352    | 0.2               | 355    | 0.2                   | 386    | 0.2                   | 374    | 0.2       | 355    |
| 1993                   | <.1         | 331    | 0.1       | 358    | 0.3               | 371    | 0.2       | 333    | 0.3         | 347    | 0.4      | 356    | 0.2               | 355    | 0.2                   | 379    | 0.1                   | 354    | 0.2       | 353    |
| 1994                   | 0.1         | 343    | 0.1       | 347    | 0.1               | 381    | 0.3       | 343    | 0.3         | 359    | 0.2      | 368    | 0.1               | 359    | 0.2                   | 386    | 0.2                   | 383    | 0.2       | 362    |
| 1995                   | <.1         | 341    | 0.3       | 356    | 0.2               | 366    | 0.5       | 347    | 0.3         | 364    | 0.2      | 366    | 0.1               | 359    | 0.2                   | 403    | 0.1                   | 376    | 0.3       | 361    |
| 1996                   | 0.1         | 336    | 0.3       | 348    | 0.2               | 349    | 0.3       | 352    | 0.2         | 355    | 0.2      | 364    | 0.1               | 361    | 0.2                   | 385    | 0.1                   | 364    | 0.2       | 358    |
| Total finfishes        |             |        |           |        |                   |        |           |        |             |        |          |        |                   |        |                       |        |                       |        |           |        |
| 1976                   | ND          |        | 11.1      | 429    | 7.6               | 391    | 5.2       | 394    | 7.6         | 391    | 9.5      | 415    | 6.2               | 332    | 1.1                   | 378    | 7.1                   | 419    | 7.3       | 408    |
| 1977                   | ND          |        | 8.8       | 316    | 4.3               | 395    | 5.9       | 442    | 8.2         | 428    | 8.1      | 428    | 7.6               | 297    | 3.8                   | 366    | 4.3                   | 395    | 6.7       | 377    |
| 1978                   | ND          |        | 5.0       | 357    | 2.4               | 359    | 4.8       | 437    | 7.7         | 409    | 2.0      | 406    | 3.4               | 343    | 4.6                   | 365    | 5.0                   | 406    | 4.6       | 390    |
| 1979                   | ND          |        | 6.8       | 345    | 2.5               | 396    | 3.4       | 409    | 3.2         | 453    | 3.2      | 433    | 2.7               | 393    | 2.2                   | 360    | 3.2                   | 411    | 3.8       | 387    |
| 1980                   | ND          |        | 5.0       | 380    | 4.2               | 347    | 5.4       | 428    | 5.2         | 422    | 3.1      | 405    | 2.8               | 387    | 3.9                   | 368    | 3.5                   | 419    | 4.3       | 400    |
| 1981                   | ND          |        | 4.6       | 369    | 5.5               | 363    | 5.3       | 408    | 6.1         | 417    | 6.0      | 432    | 2.8               | 634    | 4.2                   | 353    | 6.5                   | 406    | 5.2       | 396    |
| 1982                   | ND          |        | 8.1       | 378    | 4.7               | 368    | 5.3       | 435    | 6.8         | 411    | 5.8      | 417    | 4.6               | 400    | 4.5                   | 367    | 8.8                   | 394    | 6.4       | 397    |
| 1983                   | ND          |        | 9.0       | 369    | 7.6               | 384    | 4.5       | 417    | 7.2         | 422    | 5.5      | 404    | 5.5               | 397    | 5.0                   | 373    | 7.5                   | 409    | 6.6       | 394    |
| 1984                   | ND          |        | 6.2       | 389    | 3.7               | 397    | 4.3       | 449    | 5.6         | 431    | 3.9      | 432    | 4.8               | 397    | 3.2                   | 369    | 4.6                   | 412    | 4.7       | 410    |
| 1985                   | ND          |        | 7.6       | 381    | 3.8               | 408    | 5.2       | 446    | 4.1         | 479    | 3.6      | 452    | 5.0               | 368    | 3.6                   | 350    | 5.2                   | 384    | 5.1       | 404    |
| 1986                   | 4.9         | 432    | 9.3       | 377    | 5.4               | 384    | 5.0       | 446    | 3.5         | 422    | 3.2      | 418    | 5.7               | 371    | 2.9                   | 357    | 5.2                   | 425    | 5.3       | 398    |
| 1987                   | 2.0         | 517    | 8.7       | 373    | 4.3               | 384    | 4.0       | 430    | 2.9         | 420    | 3.4      | 431    | 3.8               | 420    | 3.0                   | 432    | 5.9                   | 432    | 4.8       | 408    |
| 1988                   | 2.5         | 472    | 6.7       | 385    | 4.6               | 401    | 4.5       | 411    | 4.7         | 444    | 3.0      | 436    | 6.4               | 390    | 3.2                   | 407    | 5.4                   | 436    | 4.8       | 411    |
| 1989                   | 2.6         | 474    | 9.0       | 365    | 7.4               | 396    | 5.1       | 428    | 6.4         | 437    | 4.2      | 403    | 4.4               | 402    | 2.8                   | 432    | 4.7                   | 425    | 5.5       | 403    |
| 1990                   | 2.5         | 485    | 10.5      | 367    | 8.2               | 403    | 6.6       | 432    | 6.1         | 448    | 5.1      | 410    | 6.8               | 410    | 3.5                   | 405    | 5.2                   | 424    | 6.5       | 405    |
| 1991                   | 3.1         | 474    | 6.9       | 367    | 11.7              | 358    | 6.4       | 415    | 6.1         | 437    | 6.0      | 400    | 5.8               | 405    | 5.3                   | 381    | 7.2                   | 409    | 6.4       | 398    |
| 1992                   | 2.6         | 445    | 8.4       | 395    | 8.8               | 423    | 6.3       | 407    | 5.9         | 448    | 7.1      | 412    | 7.0               | 410    | 5.7                   | 409    | 8.4                   | 431    | 7.0       | 414    |
| 1993                   | 2.4         | 480    | 9.8       | 387    | 8.7               | 459    | 7.0       | 424    | 8.6         | 467    | 6.9      | 453    | 9.7               | 419    | 4.8                   | 427    | 8.3                   | 428    | 7.8       | 425    |
| 1994                   | 2.7         | 451    | 6.6       | 394    | 6.8               | 467    | 7.2       | 419    | 9.0         | 444    | 7.2      | 438    | 7.4               | 425    | 7.7                   | 428    | 9.7                   | 454    | 7.5       | 429    |
| 1995                   | 2.3         | 463    | 8.4       | 390    | 7.4               | 460    | 7.8       | 400    | 9.9         | 422    | 6.8      | 411    | 6.7               | 421    | 7.2                   | 417    | 6.3                   | 435    | 7.5       | 412    |
| 1996                   | 5.1         | 493    | 7.9       | 397    | 9.1               | 460    | 8.2       | 393    | 10.9        | 417    | 8.4      | 411    | 7.4               | 433    | 6.0                   | 441    | 7.1                   | 454    | 7.9       | 420    |
| Blue crab              |             |        |           |        |                   |        |           |        |             |        |          |        |                   |        |                       |        |                       |        |           |        |
| 1983                   | ND          |        | 0.2       | 151    | 0.3               | 154    | 0.1       | 151    | 0.2         | 142    | 0.3      | 142    | 0.2               | 151    | 0.1                   | 156    | 0.2                   | 145    | 0.2       | 147    |
| 1984                   | ND          |        | 0.2       | 150    | 0.4               | 135    | 0.1       | 143    | 0.2         | 137    | 0.2      | 142    | 0.3               | 147    | 0.3                   | 145    | 0.2                   | 142    | 0.2       | 144    |
| 1985                   | ND          |        | 0.3       | 149    | 0.5               | 151    | 0.2       | 144    | 0.3         | 136    | 0.2      | 141    | 0.2               | 149    | 0.3                   | 141    | 0.2                   | 158    | 0.2       | 145    |
| 1986                   | 0.2         | 146    | 0.3       | 151    | 0.6               | 133    | 0.2       | 140    | 0.1         | 135    | 0.1      | 144    | 0.1               | 154    | <.1                   | 147    | 0.1                   | 148    | 0.2       | 147    |
| 1987                   | 0.3         | 152    | 0.3       | 139    | 0.3               | 138    | 0.1       | 138    | 0.2         | 140    | 0.1      | 155    | 0.1               | 151    | <.1                   | 137    | 0.1                   | 142    | 0.1       | 141    |
| 1988                   | 0.3         | 154    | 0.1       | 148    | 0.1               | 139    | <.1       | 135    | 0.1         | 141    | 0.1      | 150    | 0.1               | 145    | <.1                   | 115    | 0.1                   | 152    | 0.1       | 147    |
| 1989                   | 0.2         | 157    | 0.1       | 148    | 0.4               | 128    | <.1       | 136    | <.1         | 128    | <.1      | 131    | <.1               | 149    | <.1                   | 72     | <.1                   | 147    | 0.1       | 136    |
| 1990                   | 0.2         | 154    | 0.2       | 141    | 0.2               | 129    | <.1       | 138    | 0.2         | 135    | 0.1      | 135    | 0.2               | 140    | <.1                   | 114    | 0.1                   | 139    | 0.1       | 138    |
| 1991                   | 0.1         | 141    | 0.2       | 132    | 0.4               | 135    | <.1       | 144    | 0.1         | 136    | 0.1      | 144    | 0.1               | 140    | <.1                   | 105    | 0.1                   | 152    | 0.1       | 138    |
| 1992                   | 0.1         | 151    | 0.2       | 153    | 0.1               | 135    | <.1       | 144    | 0.1         | 133    | 0.1      | 142    | 0.3               | 150    | 0.4                   | 146    | 0.1                   | 146    | 0.1       | 147    |
| 1993                   | 0.2         | 161    | 0.1       | 144    | 0.2               | 162    | 0.1       | 147    | 0.1         | 148    | 0.1      | 152    | 0.2               | 148    | 0.1                   | 147    | <.1                   | 136    | 0.1       | 149    |
| 1994                   | 0.1         | 155    | <.1       | 144    | 0.1               | 160    | <.1       | 143    | 0.1         | 134    | <.1      | 149    | 0.1               | 158    | <.1                   | 102    | <.1                   | 129    | <.1       | 140    |
| 1995                   | 0.1         | 164    | 0.1       | 147    | 0.3               | 165    | <.1       | 151    | <.1         | 161    | <.1      | 167    | <.1               | 152    | <.1                   | 141    | <.1                   | 107    | <.1       | 153    |
| 1996                   | 0.2         | 150    | 0.1       | 136    | 0.2               | 152    | 0.1       | 138    | <.1         | 163    | <.1      | 161    | <.1               | 161    | <.1                   | 141    | <.1                   | 149    | 0.1       | 145    |



Table 2. (Cont.)

| Species<br>Year    | Sabine Lake |        |       | Galveston |        |       | East<br>Matagorda |       |        | Matagorda |        |       | San Antonio |       |        | Aransas |        |       | Corpus<br>Christi |       |        | Upper Laguna<br>Madre |        |       | Lower Laguna<br>Madre |       |        | Coastwide |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|-------------|--------|-------|-----------|--------|-------|-------------------|-------|--------|-----------|--------|-------|-------------|-------|--------|---------|--------|-------|-------------------|-------|--------|-----------------------|--------|-------|-----------------------|-------|--------|-----------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                    | No./h       | Length | No./h | No./h     | Length | No./h | Length            | No./h | Length | No./h     | Length | No./h | Length      | No./h | Length | No./h   | Length | No./h | Length            | No./h | Length | No./h                 | Length | No./h | Length                | No./h | Length | No./h     | Length |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Black drum (cont.) |             |        |       |           |        |       |                   |       |        |           |        |       |             |       |        |         |        |       |                   |       |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991               | 0.3         | 347    | 0.5   | 382       | 1.0    | 364   | 0.6               | 375   | 1.3    | 369       | 0.7    | 321   | 0.9         | 340   | 2.2    | 359     | 1.8    | 367   | 1.0               | 361   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1992               | 0.4         | 373    | 0.5   | 402       | 1.1    | 422   | 0.7               | 394   | 0.3    | 352       | 0.9    | 372   | 0.8         | 372   | 1.4    | 363     | 2.2    | 366   | 0.9               | 375   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1993               | 0.3         | 372    | 0.6   | 400       | 1.0    | 456   | 0.8               | 430   | 1.0    | 449       | 1.6    | 439   | 1.7         | 424   | 3.8    | 422     | 2.7    | 401   | 1.6               | 421   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994               | 0.5         | 370    | 0.5   | 415       | 0.3    | 442   | 0.7               | 438   | 0.9    | 453       | 0.9    | 429   | 0.9         | 432   | 4.9    | 430     | 2.2    | 445   | 1.4               | 433   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1995               | 1.0         | 347    | 0.6   | 358       | 0.5    | 461   | 0.6               | 354   | 0.7    | 398       | 1.1    | 408   | 1.5         | 472   | 4.5    | 461     | 2.3    | 480   | 1.4               | 438   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996               | 0.6         | 410    | 0.4   | 381       | 0.5    | 401   | 1.0               | 394   | 1.4    | 404       | 1.4    | 414   | 1.3         | 454   | 4.1    | 451     | 2.2    | 492   | 1.5               | 438   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheepshead         |             |        |       |           |        |       |                   |       |        |           |        |       |             |       |        |         |        |       |                   |       |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1975               | 0.0         |        | <.1   | 362       | ND     |       | 0.1               | 316   | 0.3    | 291       | 1.1    | 296   | 0.2         | 376   | 0.3    | 409     | 0.1    | 352   | 0.3               | 323   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976               | ND          |        | <.1   | 331       | 0.2    | 308   | 0.2               | 273   | 0.4    | 329       | 1.0    | 255   | 0.2         | 328   | 0.1    | 360     | 0.4    | 341   | 0.3               | 297   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977               | ND          |        | 0.1   | 342       | 0.3    | 316   | 0.1               | 314   | 0.2    | 321       | 0.5    | 267   | 0.2         | 335   | 0.2    | 406     | 0.3    | 356   | 0.2               | 323   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978               | ND          |        | 0.1   | 308       | 0.2    | 307   | 0.1               | 342   | 0.5    | 371       | 0.6    | 306   | 0.2         | 361   | 0.3    | 376     | 0.1    | 300   | 0.2               | 337   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1979               | ND          |        | 0.1   | 335       | 0.2    | 352   | 0.1               | 312   | 0.5    | 362       | 0.8    | 318   | 0.2         | 339   | 0.1    | 395     | 0.2    | 349   | 0.2               | 338   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1980               | ND          |        | 0.1   | 283       | 0.1    | 309   | <.1               | 353   | 0.7    | 296       | 0.6    | 307   | 0.2         | 361   | 0.2    | 382     | 0.4    | 330   | 0.3               | 316   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1981               | ND          |        | 0.1   | 321       | 0.1    | 277   | 0.2               | 322   | 0.3    | 335       | 0.2    | 322   | 0.1         | 343   | 0.1    | 382     | 0.3    | 332   | 0.2               | 327   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1982               | ND          |        | 0.1   | 330       | 0.3    | 332   | 0.1               | 313   | 0.1    | 296       | 0.2    | 350   | 0.1         | 365   | 0.1    | 383     | 0.3    | 330   | 0.1               | 339   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1983               | ND          |        | 0.1   | 342       | 0.5    | 345   | 0.1               | 338   | 0.2    | 302       | 0.2    | 355   | 0.1         | 361   | 0.2    | 395     | 0.3    | 340   | 0.2               | 346   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1984               | ND          |        | 0.1   | 369       | 0.3    | 383   | <.1               | 369   | <.1    | 427       | <.1    | 436   | <.1         | 383   | 0.1    | 417     | 0.1    | 333   | 0.1               | 379   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1985               | ND          |        | 0.1   | 359       | 0.3    | 383   | <.1               | 369   | <.1    | 427       | <.1    | 436   | <.1         | 383   | 0.1    | 417     | 0.1    | 333   | 0.1               | 379   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1986               | ND          |        | 0.1   | 359       | 0.2    | 379   | <.1               | 336   | 0.1    | 362       | <.1    | 326   | <.1         | 352   | 0.1    | 435     | 0.1    | 369   | 0.1               | 369   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1987               | ND          |        | 0.1   | 359       | 0.2    | 297   | 0.1               | 336   | 0.1    | 329       | 0.1    | 304   | 0.1         | 359   | 0.1    | 407     | 0.1    | 351   | 0.1               | 336   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1988               | 0.0         | 340    | <.1   | 381       | 0.1    | 366   | 0.1               | 352   | 0.1    | 371       | 0.2    | 360   | 0.1         | 340   | 0.1    | 398     | 0.2    | 342   | 0.1               | 355   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1989               | <.1         | 299    | 0.1   | 371       | 0.2    | 343   | <.1               | 324   | 0.2    | 341       | 0.1    | 329   | 0.1         | 354   | 0.1    | 398     | 0.2    | 342   | 0.1               | 359   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1990               | <.1         | 303    | 0.1   | 418       | 0.3    | 354   | <.1               | 332   | 0.1    | 417       | <.1    | 329   | 0.1         | 367   | 0.1    | 422     | 0.2    | 371   | 0.1               | 385   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991               | <.1         | 336    | <.1   | 435       | 0.1    | 392   | <.1               | 359   | 0.1    | 365       | <.1    | 353   | <.1         | 413   | 0.1    | 446     | 0.1    | 384   | <.1               | 387   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1992               | <.1         | 367    | <.1   | 362       | 0.1    | 392   | 0.2               | 368   | <.1    | 320       | 0.1    | 307   | <.1         | 379   | <.1    | 445     | 0.1    | 398   | 0.1               | 363   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1993               | <.1         | 329    | <.1   | 372       | 0.2    | 389   | 0.1               | 363   | <.1    | 328       | 0.1    | 315   | <.1         | 407   | <.1    | 445     | 0.1    | 412   | 0.1               | 369   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994               | <.1         | 310    | 0.1   | 426       | 0.2    | 410   | 0.1               | 364   | 0.2    | 371       | 0.1    | 377   | <.1         | 406   | <.1    | 453     | 0.1    | 377   | 0.1               | 383   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1995               | 0.1         | 341    | 0.1   | 356       | 0.2    | 412   | 0.1               | 357   | 0.1    | 377       | 0.1    | 377   | <.1         | 406   | <.1    | 453     | 0.1    | 377   | 0.1               | 383   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1996               | <.1         | 371    | 0.1   | 347       | 0.2    | 398   | 0.1               | 386   | 0.3    | 363       | 0.1    | 373   | 0.1         | 365   | <.1    | 469     | 0.1    | 360   | 0.1               | 369   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Southern flounder  |             |        |       |           |        |       |                   |       |        |           |        |       |             |       |        |         |        |       |                   |       |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1975               | 0.1         | 337    | <.1   | 317       | ND     |       | 0.1               | 323   | 0.1    | 250       | 0.1    | 309   | 0.2         | 380   | 0.1    | 448     | 0.1    | 338   | 0.1               | 342   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1976               | ND          |        | <.1   | 365       | 0.5    | 321   | 0.1               | 296   | 0.2    | 363       | 0.1    | 304   | 0.3         | 351   | 0.1    | 347     | 0.1    | 389   | 0.1               | 348   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1977               | ND          |        | 0.2   | 331       | 0.3    | 342   | <.1               | 310   | 0.2    | 312       | 0.2    | 368   | 0.1         | 383   | 0.1    | 491     | 0.1    | 353   | 0.1               | 342   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1978               | ND          |        | 0.1   | 359       | 0.1    | 354   | 0.1               | 310   | 0.1    | 310       | 0.1    | 377   | 0.2         | 372   | 0.1    | 354     | 0.1    | 335   | 0.1               | 352   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1979               | ND          |        | 0.1   | 348       | 0.1    | 331   | 0.1               | 338   | 0.2    | 388       | 0.1    | 336   | 0.1         | 347   | 0.1    | 396     | 0.2    | 366   | 0.2               | 363   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1980               | ND          |        | 0.2   | 345       | 0.3    | 369   | 0.2               | 330   | 0.1    | 325       | 0.1    | 339   | 0.2         | 367   | 0.1    | 383     | 0.2    | 366   | 0.2               | 363   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1981               | ND          |        | 0.1   | 326       | 0.1    | 351   | 0.1               | 335   | 0.1    | 311       | 0.1    | 356   | 0.1         | 348   | 0.1    | 387     | 0.1    | 358   | 0.1               | 346   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1982               | ND          |        | 0.2   | 345       | 0.3    | 354   | 0.1               | 350   | 0.1    | 311       | 0.1    | 360   | 0.1         | 353   | 0.1    | 349     | 0.2    | 354   | 0.2               | 346   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1983               | ND          |        | 0.1   | 348       | 0.2    | 350   | 0.1               | 324   | 0.2    | 342       | 0.1    | 335   | 0.1         | 367   | 0.1    | 345     | 0.1    | 389   | 0.1               | 351   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1984               | ND          |        | 0.1   | 341       | 0.3    | 364   | 0.1               | 328   | 0.1    | 322       | 0.1    | 323   | 0.1         | 328   | 0.1    | 326     | 0.2    | 326   | 0.1               | 329   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1985               | ND          |        | 0.1   | 340       | 0.2    | 370   | 0.1               | 333   | 0.1    | 330       | 0.1    | 336   | 0.1         | 337   | 0.1    | 347     | 0.2    | 347   | 0.1               | 339   |        |                       |        |       |                       |       |        |           |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Table 2. (Cont.)

| Species Year             | Sabine Lake |        |       | Galveston |        |       | East Matagorda |        |       | Matagorda |       |        | San Antonio |        |       | Arkansas |       |        | Corpus Christi |        |       | Upper Laguna Madre |       |        | Lower Laguna Madre |        |       | Coastwide |  |  |  |  |  |  |  |  |  |  |
|--------------------------|-------------|--------|-------|-----------|--------|-------|----------------|--------|-------|-----------|-------|--------|-------------|--------|-------|----------|-------|--------|----------------|--------|-------|--------------------|-------|--------|--------------------|--------|-------|-----------|--|--|--|--|--|--|--|--|--|--|
|                          | No./h       | Length | No./h | No./h     | Length | No./h | No./h          | Length | No./h | Length    | No./h | Length | No./h       | Length | No./h | Length   | No./h | Length | No./h          | Length | No./h | Length             | No./h | Length | No./h              | Length | No./h | Length    |  |  |  |  |  |  |  |  |  |  |
| Atlantic croaker (cont.) |             |        |       |           |        |       |                |        |       |           |       |        |             |        |       |          |       |        |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1982                     | ND          |        | 0.4   | 282       | 0.1    | 277   | 0.2            | 278    | 0.4   | 328       | 1.0   | 327    | 0.4         | 338    | 0.3   | 330      | 0.4   | 310    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1983                     | ND          |        | 0.3   | 275       | 0.2    | 269   | 0.5            | 286    | 0.3   | 309       | 1.0   | 320    | 0.1         | 312    | 0.5   | 314      | 0.4   | 299    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1984                     | ND          |        | 0.2   | 274       | 0.2    | 259   | 0.2            | 252    | 0.1   | 261       | 0.5   | 274    | 0.1         | 264    | 0.2   | 270      | 0.2   | 268    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1985                     | ND          |        | 0.6   | 272       | 0.1    | 254   | 0.1            | 261    | 0.3   | 268       | 0.6   | 279    | 0.2         | 307    | 0.3   | 281      | 0.3   | 274    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1986                     | 0.2         | 296    | 0.4   | 281       | 0.2    | 253   | 0.2            | 256    | 0.3   | 280       | 1.4   | 305    | 0.1         | 322    | 0.3   | 299      | 0.4   | 289    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1987                     | 0.1         | 287    | 0.8   | 288       | 0.1    | 252   | 0.3            | 253    | 0.2   | 283       | 1.5   | 323    | 0.1         | 321    | 0.3   | 322      | 0.4   | 298    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1988                     | 0.2         | 276    | 0.1   | 291       | 0.1    | 257   | 0.1            | 255    | 0.3   | 301       | 0.8   | 317    | 0.1         | 357    | 0.3   | 318      | 0.3   | 295    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1989                     | 0.1         | 284    | 0.6   | 271       | 0.2    | 250   | 0.2            | 262    | 0.2   | 266       | 0.3   | 317    | 0.1         | 324    | 0.1   | 308      | 0.2   | 273    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1990                     | 0.2         | 283    | 0.4   | 286       | 0.2    | 270   | 0.1            | 261    | 0.1   | 261       | 0.3   | 290    | 0.1         | 298    | 0.1   | 264      | 0.2   | 280    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1991                     | 0.1         | 271    | 0.1   | 274       | 0.1    | 290   | 0.2            | 251    | 0.2   | 262       | 0.4   | 283    | 0.1         | 269    | 1.4   | 279      | 0.3   | 275    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1992                     | 0.2         | 293    | 0.4   | 269       | 0.1    | 258   | 0.1            | 268    | 0.3   | 278       | 1.0   | 299    | 0.1         | 269    | 0.7   | 291      | 0.3   | 286    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1993                     | 0.1         | 286    | 1.4   | 273       | 0.2    | 276   | 0.1            | 267    | 0.1   | 281       | 1.0   | 313    | 0.1         | 306    | 0.3   | 300      | 0.5   | 282    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1994                     | 0.1         | 277    | 0.3   | 283       | 0.1    | 270   | 0.2            | 265    | 0.1   | 293       | 1.0   | 310    | 0.1         | 336    | 0.1   | 324      | 0.2   | 294    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1995                     | 0.1         | 272    | 0.4   | 284       | 0.3    | 301   | 0.1            | 271    | 0.4   | 285       | 0.6   | 343    | 0.1         | 331    | 0.1   | 321      | 0.3   | 297    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1996                     | 0.1         | 278    | 0.5   | 268       | 0.1    | 286   | 0.3            | 272    | 0.4   | 285       | 0.6   | 343    | 0.1         | 331    | 0.1   | 321      | 0.3   | 297    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1996                     | 0.1         | 278    | 0.5   | 268       | 0.1    | 286   | 0.3            | 272    | 0.4   | 285       | 0.6   | 343    | 0.1         | 331    | 0.1   | 321      | 0.3   | 297    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| Gafftopsail catfish      |             |        |       |           |        |       |                |        |       |           |       |        |             |        |       |          |       |        |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1975                     | <.1         | 530    | 0.0   | 482       | 0.1    | 571   | <.1            | 493    | <.1   | 552       | 0.1   | 575    | 0.0         | 556    | 0.0   | 551      | <.1   | 567    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1976                     | ND          |        | 0.1   | 482       | 0.2    | 526   | 0.4            | 498    | 0.1   | 587       | <.1   | 475    | 0.0         | 529    | 0.0   | 475      | 0.1   | 509    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1977                     | ND          |        | <.1   | 516       | <.1    | 499   | 0.2            | 526    | <.1   | 585       | 0.0   | 600    | 0.0         | 529    | 0.0   | 600      | 0.1   | 516    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1978                     | ND          |        | 0.0   | 516       | <.1    | 514   | 0.0            | 543    | 0.0   | 533       | 0.0   | 551    | 0.0         |        | 0.0   | 551      | <.1   | 534    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1979                     | ND          |        | 0.0   |           | 0.0    |       | 0.1            | 499    | <.1   | 533       | 0.0   | 517    | 0.0         |        | <.1   | 517      | 0.1   | 511    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1980                     | ND          |        | 0.1   | 550       | <.1    | 478   | 0.3            | 509    | <.1   | 522       | 0.1   | 517    | 0.0         |        | 0.0   | 517      | 0.1   | 525    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1981                     | ND          |        | 0.1   | 492       | 0.0    | 505   | 0.1            | 547    | 0.1   | 511       | 0.1   | 523    | 0.0         |        | 0.0   | 523      | 0.1   | 507    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1982                     | ND          |        | <.1   | 423       | <.1    | 520   | 0.3            | 527    | 0.1   | 533       | 0.1   | 545    | 0.0         |        | 0.0   | 545      | 0.1   | 517    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1983                     | ND          |        | <.1   | 492       | 0.1    | 498   | 0.3            | 514    | 0.1   | 544       | 0.1   | 532    | 0.0         |        | 0.0   | 532      | 0.1   | 514    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1984                     | ND          |        | <.1   | 517       | 0.1    | 473   | 0.1            | 474    | 0.1   | 521       | <.1   | 488    | 0.0         |        | 0.0   | 488      | 0.1   | 514    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1985                     | ND          |        | 0.1   | 525       | 0.1    | 482   | 0.1            | 482    | 0.1   | 556       | 0.1   | 519    | 0.0         |        | 0.0   | 519      | 0.1   | 509    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1986                     | 0.1         | 462    | <.1   | 521       | <.1    | 474   | 0.2            | 485    | 0.1   | 532       | 0.1   | 519    | 0.0         |        | 0.0   | 519      | 0.1   | 528    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1987                     | <.1         | 423    | 0.1   | 491       | 0.1    | 512   | <.1            | 485    | 0.1   | 542       | 0.1   | 524    | 0.0         |        | 0.0   | 524      | 0.1   | 495    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1988                     | <.1         | 370    | <.1   | 515       | 0.1    | 534   | 0.1            | 514    | 0.1   | 538       | 0.1   | 521    | <.1         |        | 0.0   | 521      | <.1   | 514    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1989                     | <.1         | 321    | <.1   | 480       | <.1    | 509   | 0.1            | 549    | 0.1   | 547       | 0.1   | 384    | 0.0         |        | 0.0   | 384      | 0.1   | 524    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1990                     | <.1         | 465    | 0.1   | 504       | 0.1    | 499   | 0.2            | 509    | 0.2   | 549       | 0.1   | 549    | <.1         |        | 0.0   | 549      | 0.1   | 524    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1991                     | <.1         | 469    | <.1   | 502       | 0.1    | 476   | <.1            | 562    | <.1   | 583       | 0.1   | 472    | 0.0         |        | 0.0   | 472      | 0.1   | 513    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1992                     | <.1         | 464    | 0.1   | 544       | 0.1    | 519   | 0.1            | 555    | <.1   | 541       | <.1   | 496    | <.1         |        | 0.0   | 496      | <.1   | 513    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1993                     | 0.0         |        | 0.1   | 513       | 0.1    | 501   | 0.3            | 538    | <.1   | 541       | <.1   | 496    | <.1         |        | 0.0   | 496      | <.1   | 513    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1994                     | 0.1         | 409    | 0.1   | 513       | 0.1    | 501   | 0.2            | 541    | 0.2   | 585       | 0.1   | 473    | 0.0         |        | 0.0   | 473      | 0.1   | 524    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1995                     | <.1         | 380    | 0.1   | 408       | 0.2    | 511   | 0.2            | 541    | 0.2   | 565       | 0.1   | 462    | 0.0         |        | 0.0   | 462      | 0.1   | 498    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1996                     | <.1         | 490    | 0.1   | 422       | <.1    | 483   | 0.2            | 517    | 0.2   | 565       | 0.1   | 462    | 0.0         |        | 0.0   | 462      | 0.1   | 498    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1996                     | <.1         | 490    | 0.1   | 422       | <.1    | 483   | 0.2            | 517    | 0.2   | 565       | 0.1   | 462    | 0.0         |        | 0.0   | 462      | 0.1   | 498    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| Gulf menhaden            |             |        |       |           |        |       |                |        |       |           |       |        |             |        |       |          |       |        |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1975                     | 0.0         |        | 0.5   | 272       | 1.7    | 302   | 0.4            | 221    | 0.2   | 307       | 0.5   | 284    | 0.3         | 280    | 0.1   | 312      | 0.5   | 286    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1976                     | ND          |        | 2.7   | 240       | 0.3    | 246   | 0.3            | 275    | 0.1   | 267       | 0.5   | 275    | 0.2         | 304    | 0.1   | 275      | 0.8   | 255    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1977                     | ND          |        | 3.0   | 246       | 0.2    | 244   | 0.1            | 240    | <.1   | 237       | 2.0   | 254    | 1.4         | 258    | 0.1   | 211      | 1.1   | 249    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1978                     | ND          |        | 0.6   | 249       | 0.1    | 241   | 0.1            | 239    | 0.6   | 242       | 1.4   | 250    | 0.2         | 254    | 0.0   | 211      | 0.4   | 248    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1979                     | ND          |        | 0.1   | 249       | 0.4    | 250   | <.1            | 235    | 0.1   | 251       | 0.1   | 251    | 0.1         | 261    | 0.1   | 294      | 0.2   | 252    |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |
| 1980                     | ND          |        | 0.3   | 253       | 0.0    | 260   | 0.1            | 255    | 0.1   | 245       | <.1   | 243    | 0.6         | 249    |       |          |       |        |                |        |       |                    |       |        |                    |        |       |           |  |  |  |  |  |  |  |  |  |  |

Table 2. (Cont.)

| Species<br>Year | Sabine Lake |        | Galveston |        | East<br>Matagorda |        | Matagorda |        | San Antonio |        | Aransas |        | Corpus<br>Christi |        | Upper Laguna<br>Madre |        | Lower Laguna<br>Madre |        | Coastwide |        |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
|-----------------|-------------|--------|-----------|--------|-------------------|--------|-----------|--------|-------------|--------|---------|--------|-------------------|--------|-----------------------|--------|-----------------------|--------|-----------|--------|--|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|------|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-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|                 | No./h       | Length | No./h     | Length | No./h             | Length | No./h     | Length | No./h       | Length | No./h   | Length | No./h             | Length | No./h                 | Length | No./h                 | Length | No./h     | Length |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     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| Striped mullet  |             |        |           |        |                   |        |           |        |             |        |         |        |                   |        |                       |        |                       |        |           |        |  | 1975 | <1 | 390 | 0.3 | 331 | ND  |     | 0.4 | 347 | 0.6 | 322 | 2.5 | 328 | 1.0 | 382 | 0.3 | 358 | 0.5 | 345 | 0.7 | 339 | 1976 | ND |  | 0.3 | 346 | 0.2 | 320 | 0.3 | 349 | 1.7 | 331 | 0.5 | 360 | 0.3 | 342 | 0.6 | 402 | 2.0 | 397 | 0.7 | 367 | 1977 | ND |  | 0.2 | 345 | 0.2 | 380 | 0.4 | 330 | 0.9 | 343 | 0.3 | 321 | 0.4 | 371 | 0.3 | 396 | 0.6 | 354 | 0.4 | 348 | 1978 | ND  |     | 0.2 | 423 | 0.6 | 330 | 0.7 | 342 | 0.5 | 322 | 1.1 | 336 | 0.1 | 336 | 0.1 | 364 | 0.3 | 387 | 0.4 | 347 | 1979 | ND  |     | 0.1 | 351 | 0.1 | 338 | 0.3 | 340 | 0.7 | 344 | 0.7 | 344 | 0.3 | 353 | 0.6 | 410 | 0.3 | 365 | 0.4 | 357 | 1980 | ND  |     | 0.2 | 363 | <1  | 319 | 0.2 | 343 | 0.6 | 357 | 0.6 | 357 | 0.3 | 340 | 0.3 | 360 | 0.5 | 346 | 0.3 | 353 | 1981 | ND  |     | 0.1 | 395 | 0.1 | 349 | 0.1 | 332 | 0.6 | 341 | 0.5 | 334 | 0.3 | 353 | 0.3 | 364 | 0.9 | 363 | 0.4 | 352 | 1982 | ND  |     | 0.2 | 376 | 0.4 | 329 | 0.3 | 330 | 0.4 | 341 | 0.8 | 331 | 0.2 | 345 | 0.1 | 348 | 0.4 | 372 | 0.4 | 347 | 1983 | ND  |     | 0.2 | 370 | 0.2 | 335 | 0.2 | 339 | 0.3 | 334 | 0.5 | 350 | 0.3 | 347 | 0.5 | 383 | 0.6 | 375 | 0.3 | 358 | 1984 | ND  |     | 0.4 | 362 | 0.7 | 328 | 0.3 | 331 | 0.5 | 350 | 0.6 | 342 | 0.4 | 357 | 0.3 | 376 | 0.4 | 356 | 0.5 | 352 | 1985 | ND  |     | 0.2 | 338 | 0.2 | 326 | 0.2 | 323 | 0.5 | 355 | 0.3 | 343 | 0.2 | 342 | 0.3 | 397 | 0.3 | 375 | 0.3 | 354 | 1986 | <1  | 328 | 0.1 | 377 | 0.3 | 328 | 0.1 | 337 | 0.4 | 369 | 0.2 | 356 | 0.2 | 358 | 0.1 | 370 | 0.7 | 359 | 0.2 | 359 | 1987 | <1  | 325 | 0.1 | 375 | 0.4 | 333 | 0.7 | 319 | 1.1 | 360 | 0.6 | 348 | 0.3 | 338 | 0.2 | 391 | 0.4 | 382 | 0.5 | 351 | 1988 | 0.1 | 331 | 0.2 | 362 | 0.4 | 344 | 0.4 | 326 | 0.4 | 347 | 0.4 | 365 | 0.3 | 370 | 0.4 | 409 | 0.4 | 396 | 0.3 | 366 | 1989 | <1 | 329 | 0.2 | 349 | 0.2 | 334 | 0.2 | 328 | 0.3 | 350 | 0.4 | 348 | 0.2 | 359 | 0.3 | 394 | 0.5 | 366 | 0.3 | 357 | 1990 | 0.1 | 334 | 0.2 | 341 | 0.3 | 368 | 0.2 | 344 | 0.8 | 369 | 0.7 | 358 | 0.2 | 353 | 0.2 | 387 | 0.4 | 383 | 0.4 | 361 | 1991 | 0.1 | 331 | 0.2 | 333 | 0.6 | 366 | 0.1 | 343 | 0.8 | 364 | 0.5 | 351 | 0.3 | 368 | 0.1 | 383 | 0.4 | 401 | 0.3 | 363 | 1992 | <1 | 328 | 0.3 | 376 | 0.3 | 387 | 0.4 | 330 | 0.2 | 350 | 0.7 | 364 | 0.4 | 360 | 0.2 | 389 | 0.3 | 383 | 0.4 | 362 | 1993 | 0.6 | 328 | 0.9 | 364 | 0.7 | 377 | 0.5 | 352 | 0.7 | 374 | 0.9 | 365 | 0.4 | 376 | 0.6 | 422 | 0.4 | 402 | 0.7 | 373 | 1994 | 0.1 | 353 | 0.6 | 372 | 0.4 | 384 | 0.6 | 347 | 0.3 | 358 | 0.7 | 365 | 0.2 | 379 | 0.1 | 398 | 0.2 | 400 | 0.4 | 367 | 1995 | 0.2 | 353 | 0.4 | 371 | 0.3 | 397 | 0.4 | 356 | 0.2 | 347 | 0.5 | 370 | 0.3 | 368 | 0.4 | 421 | 0.2 | 375 | 0.3 | 374 | 1996 | 0.1 | 358 | 0.3 | 358 | 0.2 | 401 | 0.4 | 355 | 0.4 | 368 | 0.4 | 360 | 0.3 | 393 | 0.8 | 432 | 0.3 | 403 | 0.4 | 385 | Total finfishes | 3.0 | 383 | 5.1 | 396 | ND |  | 6.6 | 355 | 4.9 | 339 | 7.9 | 345 | 5.7 | 343 | 4.3 | 374 | 4.8 | 394 | 5.5 | 365 | 1975 | ND |  | 7.2 | 334 | 4.0 | 385 | 4.9 | 388 | 9.1 | 365 | 5.0 | 363 | 5.0 | 349 | 5.1 | 383 | 11.1 | 400 | 6.8 | 369 | 1976 | ND |  | 6.2 | 334 | 3.2 | 362 | 5.4 | 389 | 6.2 | 348 | 3.6 | 344 | 5.8 | 346 | 5.2 | 343 | 6.5 | 381 | 5.5 | 353 | 1977 | ND |  | 4.0 | 342 | 4.0 | 325 | 5.0 | 359 | 5.1 | 393 | 5.2 | 341 | 3.8 | 332 | 3.6 | 358 | 3.1 | 395 | 4.3 | 355 | 1978 | ND |  | 3.5 | 367 | 2.9 | 372 | 4.3 | 350 | 5.6 | 368 | 3.8 | 372 | 3.5 | 337 | 2.6 | 367 | 3.5 | 393 | 3.7 | 365 | 1979 | ND |  | 4.0 | 371 | 2.9 | 375 | 3.3 | 346 | 6.1 | 342 | 4.8 | 350 | 5.0 | 336 | 2.5 | 354 | 4.2 | 390 | 4.3 | 357 | 1980 | ND |  | 3.5 | 380 | 3.3 | 355 | 3.0 | 384 | 4.8 | 358 | 4.4 | 350 | 4.8 | 364 | 3.1 | 373 | 5.5 | 388 | 4.2 | 369 | 1981 | ND |  | 4.2 | 357 | 3.3 | 354 | 3.7 | 372 | 5.1 | 360 | 4.5 | 366 | 5.1 | 338 | 3.5 | 362 | 5.9 | 381 | 5.0 | 360 | 1982 | ND |  | 6.2 | 346 | 6.2 | 341 | 4.0 | 378 | 3.3 | 352 | 3.9 | 396 | 5.8 | 356 | 3.0 | 362 | 5.5 | 399 | 4.9 | 367 | 1983 | ND |  | 6.0 | 350 | 6.2 | 341 | 4.4 | 369 | 3.9 | 362 | 3.8 | 349 | 4.2 | 347 | 4.2 | 373 | 4.2 | 406 | 4.6 | 364 | 1984 | ND |  | 6.5 | 364 | 5.7 | 379 | 4.4 | 369 | 4.2 | 376 | 3.3 | 396 | 4.0 | 358 | 3.4 | 362 | 4.6 | 390 | 4.6 | 364 | 1985 | ND |  | 7.1 | 335 | 4.5 | 366 | 3.7 | 380 | 4.2 | 376 | 4.0 | 378 | 4.0 | 347 | 2.2 | 381 | 5.2 | 404 | 4.6 | 377 | 1986 | 2.6 | 395 | 6.0 | 349 | 4.4 | 390 | 4.6 | 379 | 4.7 | 408 | 4.0 | 378 | 4.3 | 347 | 1.6 | 406 | 4.6 | 444 | 4.4 | 374 | 1987 | 2.2 | 430 | 5.8 | 334 | 4.7 | 330 | 5.0 | 323 | 5.2 | 428 | 3.3 | 391 | 4.9 | 353 | 3.1 | 396 | 5.7 | 410 | 5.2 | 374 | 1988 | 2.5 | 371 | 6.2 | 346 | 5.2 | 398 | 5.5 | 361 | 5.8 | 393 | 4.3 | 382 | 5.0 | 358 | 2.9 | 417 | 5.2 | 408 | 5.0 | 382 | 1989 | 2.2 | 384 | 6.8 | 363 | 5.2 | 387 | 4.3 | 361 | 5.6 | 402 | 4.7 | 374 | 5.4 | 388 | 2.7 | 433 | 4.5 | 431 | 4.4 | 384 | 1990 | 2.4 | 401 | 5.2 | 343 | 4.9 | 387 | 4.2 | 345 | 5.5 | 399 | 4.5 | 400 | 4.5 | 398 | 2.7 | 433 | 4.5 | 431 | 4.4 | 372 | 1991 | 3.1 | 389 | 5.4 | 341 | 5.4 | 376 | 4.9 | 382 | 6.5 | 389 | 4.9 | 373 | 6.3 | 371 | 4.0 | 397 | 7.6 | 389 | 5.5 | 391 | 1992 | 2.7 | 439 | 6.1 | 356 | 6.1 | 439 | 5.6 | 366 | 6.0 | 408 | 6.2 | 419 | 7.3 | 377 | 3.4 | 425 | 7.3 | 399 | 5.7 | 407 | 1993 | 2.7 | 379 | 6.9 | 347 | 7.1 | 457 | 5.8 | 380 | 7.5 | 430 | 6.4 | 455 | 7.3 | 394 | 6.3 | 443 | 7.9 | 425 | 6.7 | 403 | 1994 | 3.1 | 374 | 6.4 | 372 | 6.1 | 428 | 5.2 | 381 | 6.4 | 404 | 5.4 | 402 | 5.5 | 386 | 7.0 | 444 | 6.1 | 443 | 5.9 | 403 | 1995 | 3.9 | 391 | 7.1 | 333 | 7.2 | 417 | 6.0 | 361 | 5.9 | 374 | 6.4 | 383 | 5.8 | 403 | 6.5 | 443 | 5.7 | 435 | 6.2 | 383 | 1996 | 3.8 | 398 | 7.3 | 355 | 5.7 | 431 | 5.8 | 376 | 8.0 | 408 | 6.7 | 393 | 5.2 | 403 | 6.9 | 433 | 5.8 | 438 | 6.5 | 396 | Blue crab |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1983 | ND |  | 0.1 | 136 | 0.3 | 153 | 0.1 | 151 | 0.1 | 138 | 0.2 | 146 | 0.2 | 146 | 0.3 | 146 | 0.3 | 146 | 0.2 | 144 | 1984 | ND |  | 0.1 | 151 | 0.1 | 140 | 0.1 | 147 | 0.1 | 147 | 0.2 | 145 | 0.2 | 141 | 0.2 | 138 | 0.2 | 148 | 0.1 | 145 | 1985 | ND |  | 0.1 | 149 | 0.1 | 154 | <1 | 142 | 0.1 | 139 | 0.1 | 141 | 0.1 | 143 | 0.2 | 147 | 0.1 | 148 | 0.1 | 145 | 1986 | 0.2 | 150 | <1 | 146 | <1 | 144 | <1 | 161 | 0.1 | 146 | <1 | 138 | 0.1 | 144 | <1 | 147 | 0.1 | 149 | 0.1 | 147 | 1987 | 0.2 | 154 | 0.1 | 140 | 0.2 | 158 | 0.2 | 154 | 0.3 | 153 | 0.1 | 158 | 0.1 | 157 | 0.3 | 157 | 0.1 | 152 | 0.2 | 153 | 1988 | 0.2 | 155 | 0.1 | 144 | 0.2 | 150 | 0.1 | 137 | 0.1 | 138 | 0.1 | 145 | 0.1 | 147 | <1 | 129 | 0.1 | 152 | 0.1 | 147 | 1989 | 0.1 | 157 | <1 | 136 | <1 | 144 | <1 | 139 | <1 | 133 | <1 | 148 | <1 | 159 | 0.0 | 129 | 0.1 | 152 | <1 | 143 | 1990 | 0.2 | 146 | <1 | 149 | 0.1 | 144 | 0.2 | 144 | 0.1 | 144 | 0.1 | 149 | 0.1 | 159 | 0.0 | 129 | 0.2 | 142 | 0.1 | 144 | 1991 | 0.1 | 152 | <1 | 151 | 0.1 | 152 | 0.1 | 131 | 0.2 | 150 | <1 | 136 | 0.1 | 158 | 0.1 | 139 | 0.2 | 148 | 0.1 | 146 | 1992 | 0.1 | 161 | <1 | 143 | 0.1 | 156 | <1 | 153 | 0.1 | 146 | <1 | 140 | 0.1 | 155 | 0.1 | 157 | 0.1 | 152 | 0.1 | 144 | 1993 | 0.1 | 169 | <1 | 145 | 0.1 | 150 | <1 | 156 | <1 | 150 | <1 | 160 | 0.1 | 147 | <1 | 157 | <1 | 142 | <1 | 153 | 1994 | 0.1 | 163 | <1 | 152 | 0.1 | 151 | <1 | 155 | <1 | 150 | <1 | 154 | <1 | 150 | <1 | 147 | <1 | 142 | <1 | 151 | 1995 | 0.1 | 158 | <1 | 146 | 0.1 | 151 | <1 | 127 | 0.1 | 154 | <1 | 144 | <1 | 150 | <1 | 124 | 0.1 | 136 | <1 | 142 | 1996 | <1 | 155 | <1 | 185 | <1 | 154 | <1 | 147 | <1 | 159 | <1 | 140 | <1 | 144 | <1 | 139 | <1 | 148 | <1 | 159 |
| 1975            | <1          | 390    | 0.3       | 331    | ND                |        | 0.4       | 347    | 0.6         | 322    | 2.5     | 328    | 1.0               | 382    | 0.3                   | 358    | 0.5                   | 345    | 0.7       | 339    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1976            | ND          |        | 0.3       | 346    | 0.2               | 320    | 0.3       | 349    | 1.7         | 331    | 0.5     | 360    | 0.3               | 342    | 0.6                   | 402    | 2.0                   | 397    | 0.7       | 367    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1977            | ND          |        | 0.2       | 345    | 0.2               | 380    | 0.4       | 330    | 0.9         | 343    | 0.3     | 321    | 0.4               | 371    | 0.3                   | 396    | 0.6                   | 354    | 0.4       | 348    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1978            | ND          |        | 0.2       | 423    | 0.6               | 330    | 0.7       | 342    | 0.5         | 322    | 1.1     | 336    | 0.1               | 336    | 0.1                   | 364    | 0.3                   | 387    | 0.4       | 347    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1979            | ND          |        | 0.1       | 351    | 0.1               | 338    | 0.3       | 340    | 0.7         | 344    | 0.7     | 344    | 0.3               | 353    | 0.6                   | 410    | 0.3                   | 365    | 0.4       | 357    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     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|  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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| 1980            | ND          |        | 0.2       | 363    | <1                | 319    | 0.2       | 343    | 0.6         | 357    | 0.6     | 357    | 0.3               | 340    | 0.3                   | 360    | 0.5                   | 346    | 0.3       | 353    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |    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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1981            | ND          |        | 0.1       | 395    | 0.1               | 349    | 0.1       | 332    | 0.6         | 341    | 0.5     | 334    | 0.3               | 353    | 0.3                   | 364    | 0.9                   | 363    | 0.4       | 352    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1982            | ND          |        | 0.2       | 376    | 0.4               | 329    | 0.3       | 330    | 0.4         | 341    | 0.8     | 331    | 0.2               | 345    | 0.1                   | 348    | 0.4                   | 372    | 0.4       | 347    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     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|     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1983            | ND          |        | 0.2       | 370    | 0.2               | 335    | 0.2       | 339    | 0.3         | 334    | 0.5     | 350    | 0.3               | 347    | 0.5                   | 383    | 0.6                   | 375    | 0.3       | 358    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 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 |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1984            | ND          |        | 0.4       | 362    | 0.7               | 328    | 0.3       | 331    | 0.5         | 350    | 0.6     | 342    | 0.4               | 357    | 0.3                   | 376    | 0.4                   | 356    | 0.5       | 352    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1985            | ND          |        | 0.2       | 338    | 0.2               | 326    | 0.2       | 323    | 0.5         | 355    | 0.3     | 343    | 0.2               | 342    | 0.3                   | 397    | 0.3                   | 375    | 0.3       | 354    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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| 1986            | <1          | 328    | 0.1       | 377    | 0.3               | 328    | 0.1       | 337    | 0.4         | 369    | 0.2     | 356    | 0.2               | 358    | 0.1                   | 370    | 0.7                   | 359    | 0.2       | 359    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1987            | <1          | 325    | 0.1       | 375    | 0.4               | 333    | 0.7       | 319    | 1.1         | 360    | 0.6     | 348    | 0.3               | 338    | 0.2                   | 391    | 0.4                   | 382    | 0.5       | 351    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1988            | 0.1         | 331    | 0.2       | 362    | 0.4               | 344    | 0.4       | 326    | 0.4         | 347    | 0.4     | 365    | 0.3               | 370    | 0.4                   | 409    | 0.4                   | 396    | 0.3       | 366    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     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 |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     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| 1989            | <1          | 329    | 0.2       | 349    | 0.2               | 334    | 0.2       | 328    | 0.3         | 350    | 0.4     | 348    | 0.2               | 359    | 0.3                   | 394    | 0.5                   | 366    | 0.3       | 357    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1990            | 0.1         | 334    | 0.2       | 341    | 0.3               | 368    | 0.2       | 344    | 0.8         | 369    | 0.7     | 358    | 0.2               | 353    | 0.2                   | 387    | 0.4                   | 383    | 0.4       | 361    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |    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|     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1991            | 0.1         | 331    | 0.2       | 333    | 0.6               | 366    | 0.1       | 343    | 0.8         | 364    | 0.5     | 351    | 0.3               | 368    | 0.1                   | 383    | 0.4                   | 401    | 0.3       | 363    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     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| 1992            | <1          | 328    | 0.3       | 376    | 0.3               | 387    | 0.4       | 330    | 0.2         | 350    | 0.7     | 364    | 0.4               | 360    | 0.2                   | 389    | 0.3                   | 383    | 0.4       | 362    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1993            | 0.6         | 328    | 0.9       | 364    | 0.7               | 377    | 0.5       | 352    | 0.7         | 374    | 0.9     | 365    | 0.4               | 376    | 0.6                   | 422    | 0.4                   | 402    | 0.7       | 373    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |    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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1994            | 0.1         | 353    | 0.6       | 372    | 0.4               | 384    | 0.6       | 347    | 0.3         | 358    | 0.7     | 365    | 0.2               | 379    | 0.1                   | 398    | 0.2                   | 400    | 0.4       | 367    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     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|  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1995            | 0.2         | 353    | 0.4       | 371    | 0.3               | 397    | 0.4       | 356    | 0.2         | 347    | 0.5     | 370    | 0.3               | 368    | 0.4                   | 421    | 0.2                   | 375    | 0.3       | 374    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1996            | 0.1         | 358    | 0.3       | 358    | 0.2               | 401    | 0.4       | 355    | 0.4         | 368    | 0.4     | 360    | 0.3               | 393    | 0.8                   | 432    | 0.3                   | 403    | 0.4       | 385    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| Total finfishes | 3.0         | 383    | 5.1       | 396    | ND                |        | 6.6       | 355    | 4.9         | 339    | 7.9     | 345    | 5.7               | 343    | 4.3                   | 374    | 4.8                   | 394    | 5.5       | 365    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1975            | ND          |        | 7.2       | 334    | 4.0               | 385    | 4.9       | 388    | 9.1         | 365    | 5.0     | 363    | 5.0               | 349    | 5.1                   | 383    | 11.1                  | 400    | 6.8       | 369    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1976            | ND          |        | 6.2       | 334    | 3.2               | 362    | 5.4       | 389    | 6.2         | 348    | 3.6     | 344    | 5.8               | 346    | 5.2                   | 343    | 6.5                   | 381    | 5.5       | 353    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1977            | ND          |        | 4.0       | 342    | 4.0               | 325    | 5.0       | 359    | 5.1         | 393    | 5.2     | 341    | 3.8               | 332    | 3.6                   | 358    | 3.1                   | 395    | 4.3       | 355    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1978            | ND          |        | 3.5       | 367    | 2.9               | 372    | 4.3       | 350    | 5.6         | 368    | 3.8     | 372    | 3.5               | 337    | 2.6                   | 367    | 3.5                   | 393    | 3.7       | 365    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |    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|     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1979            | ND          |        | 4.0       | 371    | 2.9               | 375    | 3.3       | 346    | 6.1         | 342    | 4.8     | 350    | 5.0               | 336    | 2.5                   | 354    | 4.2                   | 390    | 4.3       | 357    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     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|  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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| 1980            | ND          |        | 3.5       | 380    | 3.3               | 355    | 3.0       | 384    | 4.8         | 358    | 4.4     | 350    | 4.8               | 364    | 3.1                   | 373    | 5.5                   | 388    | 4.2       | 369    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1981            | ND          |        | 4.2       | 357    | 3.3               | 354    | 3.7       | 372    | 5.1         | 360    | 4.5     | 366    | 5.1               | 338    | 3.5                   | 362    | 5.9                   | 381    | 5.0       | 360    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |    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|     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1982            | ND          |        | 6.2       | 346    | 6.2               | 341    | 4.0       | 378    | 3.3         | 352    | 3.9     | 396    | 5.8               | 356    | 3.0                   | 362    | 5.5                   | 399    | 4.9       | 367    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     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 |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     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|  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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| 1983            | ND          |        | 6.0       | 350    | 6.2               | 341    | 4.4       | 369    | 3.9         | 362    | 3.8     | 349    | 4.2               | 347    | 4.2                   | 373    | 4.2                   | 406    | 4.6       | 364    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1984            | ND          |        | 6.5       | 364    | 5.7               | 379    | 4.4       | 369    | 4.2         | 376    | 3.3     | 396    | 4.0               | 358    | 3.4                   | 362    | 4.6                   | 390    | 4.6       | 364    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |    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|     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1985            | ND          |        | 7.1       | 335    | 4.5               | 366    | 3.7       | 380    | 4.2         | 376    | 4.0     | 378    | 4.0               | 347    | 2.2                   | 381    | 5.2                   | 404    | 4.6       | 377    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1986            | 2.6         | 395    | 6.0       | 349    | 4.4               | 390    | 4.6       | 379    | 4.7         | 408    | 4.0     | 378    | 4.3               | 347    | 1.6                   | 406    | 4.6                   | 444    | 4.4       | 374    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1987            | 2.2         | 430    | 5.8       | 334    | 4.7               | 330    | 5.0       | 323    | 5.2         | 428    | 3.3     | 391    | 4.9               | 353    | 3.1                   | 396    | 5.7                   | 410    | 5.2       | 374    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1988            | 2.5         | 371    | 6.2       | 346    | 5.2               | 398    | 5.5       | 361    | 5.8         | 393    | 4.3     | 382    | 5.0               | 358    | 2.9                   | 417    | 5.2                   | 408    | 5.0       | 382    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     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|  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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| 1989            | 2.2         | 384    | 6.8       | 363    | 5.2               | 387    | 4.3       | 361    | 5.6         | 402    | 4.7     | 374    | 5.4               | 388    | 2.7                   | 433    | 4.5                   | 431    | 4.4       | 384    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1990            | 2.4         | 401    | 5.2       | 343    | 4.9               | 387    | 4.2       | 345    | 5.5         | 399    | 4.5     | 400    | 4.5               | 398    | 2.7                   | 433    | 4.5                   | 431    | 4.4       | 372    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1991            | 3.1         | 389    | 5.4       | 341    | 5.4               | 376    | 4.9       | 382    | 6.5         | 389    | 4.9     | 373    | 6.3               | 371    | 4.0                   | 397    | 7.6                   | 389    | 5.5       | 391    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1992            | 2.7         | 439    | 6.1       | 356    | 6.1               | 439    | 5.6       | 366    | 6.0         | 408    | 6.2     | 419    | 7.3               | 377    | 3.4                   | 425    | 7.3                   | 399    | 5.7       | 407    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |    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|     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1993            | 2.7         | 379    | 6.9       | 347    | 7.1               | 457    | 5.8       | 380    | 7.5         | 430    | 6.4     | 455    | 7.3               | 394    | 6.3                   | 443    | 7.9                   | 425    | 6.7       | 403    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1994            | 3.1         | 374    | 6.4       | 372    | 6.1               | 428    | 5.2       | 381    | 6.4         | 404    | 5.4     | 402    | 5.5               | 386    | 7.0                   | 444    | 6.1                   | 443    | 5.9       | 403    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1995            | 3.9         | 391    | 7.1       | 333    | 7.2               | 417    | 6.0       | 361    | 5.9         | 374    | 6.4     | 383    | 5.8               | 403    | 6.5                   | 443    | 5.7                   | 435    | 6.2       | 383    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1996            | 3.8         | 398    | 7.3       | 355    | 5.7               | 431    | 5.8       | 376    | 8.0         | 408    | 6.7     | 393    | 5.2               | 403    | 6.9                   | 433    | 5.8                   | 438    | 6.5       | 396    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| Blue crab       |             |        |           |        |                   |        |           |        |             |        |         |        |                   |        |                       |        |                       |        |           |        |  | 1983 | ND |     | 0.1 | 136 | 0.3 | 153 | 0.1 | 151 | 0.1 | 138 | 0.2 | 146 | 0.2 | 146 | 0.3 | 146 | 0.3 | 146 | 0.2 | 144 | 1984 | ND |  | 0.1 | 151 | 0.1 | 140 | 0.1 | 147 | 0.1 | 147 | 0.2 | 145 | 0.2 | 141 | 0.2 | 138 | 0.2 | 148 | 0.1 | 145 | 1985 | ND |  | 0.1 | 149 | 0.1 | 154 | <1  | 142 | 0.1 | 139 | 0.1 | 141 | 0.1 | 143 | 0.2 | 147 | 0.1 | 148 | 0.1 | 145 | 1986 | 0.2 | 150 | <1  | 146 | <1  | 144 | <1  | 161 | 0.1 | 146 | <1  | 138 | 0.1 | 144 | <1  | 147 | 0.1 | 149 | 0.1 | 147 | 1987 | 0.2 | 154 | 0.1 | 140 | 0.2 | 158 | 0.2 | 154 | 0.3 | 153 | 0.1 | 158 | 0.1 | 157 | 0.3 | 157 | 0.1 | 152 | 0.2 | 153 | 1988 | 0.2 | 155 | 0.1 | 144 | 0.2 | 150 | 0.1 | 137 | 0.1 | 138 | 0.1 | 145 | 0.1 | 147 | <1  | 129 | 0.1 | 152 | 0.1 | 147 | 1989 | 0.1 | 157 | <1  | 136 | <1  | 144 | <1  | 139 | <1  | 133 | <1  | 148 | <1  | 159 | 0.0 | 129 | 0.1 | 152 | <1  | 143 | 1990 | 0.2 | 146 | <1  | 149 | 0.1 | 144 | 0.2 | 144 | 0.1 | 144 | 0.1 | 149 | 0.1 | 159 | 0.0 | 129 | 0.2 | 142 | 0.1 | 144 | 1991 | 0.1 | 152 | <1  | 151 | 0.1 | 152 | 0.1 | 131 | 0.2 | 150 | <1  | 136 | 0.1 | 158 | 0.1 | 139 | 0.2 | 148 | 0.1 | 146 | 1992 | 0.1 | 161 | <1  | 143 | 0.1 | 156 | <1  | 153 | 0.1 | 146 | <1  | 140 | 0.1 | 155 | 0.1 | 157 | 0.1 | 152 | 0.1 | 144 | 1993 | 0.1 | 169 | <1  | 145 | 0.1 | 150 | <1  | 156 | <1  | 150 | <1  | 160 | 0.1 | 147 | <1  | 157 | <1  | 142 | <1  | 153 | 1994 | 0.1 | 163 | <1  | 152 | 0.1 | 151 | <1  | 155 | <1  | 150 | <1  | 154 | <1  | 150 | <1  | 147 | <1  | 142 | <1  | 151 | 1995 | 0.1 | 158 | <1  | 146 | 0.1 | 151 | <1  | 127 | 0.1 | 154 | <1  | 144 | <1  | 150 | <1  | 124 | 0.1 | 136 | <1  | 142 | 1996 | <1  | 155 | <1  | 185 | <1  | 154 | <1  | 147 | <1  | 159 | <1  | 140 | <1  | 144 | <1  | 139 | <1  | 148 | <1  | 159 |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |   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 |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1983            | ND          |        | 0.1       | 136    | 0.3               | 153    | 0.1       | 151    | 0.1         | 138    | 0.2     | 146    | 0.2               | 146    | 0.3                   | 146    | 0.3                   | 146    | 0.2       | 144    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1984            | ND          |        | 0.1       | 151    | 0.1               | 140    | 0.1       | 147    | 0.1         | 147    | 0.2     | 145    | 0.2               | 141    | 0.2                   | 138    | 0.2                   | 148    | 0.1       | 145    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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| 1985            | ND          |        | 0.1       | 149    | 0.1               | 154    | <1        | 142    | 0.1         | 139    | 0.1     | 141    | 0.1               | 143    | 0.2                   | 147    | 0.1                   | 148    | 0.1       | 145    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     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 |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     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|  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1986            | 0.2         | 150    | <1        | 146    | <1                | 144    | <1        | 161    | 0.1         | 146    | <1      | 138    | 0.1               | 144    | <1                    | 147    | 0.1                   | 149    | 0.1       | 147    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1987            | 0.2         | 154    | 0.1       | 140    | 0.2               | 158    | 0.2       | 154    | 0.3         | 153    | 0.1     | 158    | 0.1               | 157    | 0.3                   | 157    | 0.1                   | 152    | 0.2       | 153    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     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 |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1988            | 0.2         | 155    | 0.1       | 144    | 0.2               | 150    | 0.1       | 137    | 0.1         | 138    | 0.1     | 145    | 0.1               | 147    | <1                    | 129    | 0.1                   | 152    | 0.1       | 147    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1989            | 0.1         | 157    | <1        | 136    | <1                | 144    | <1        | 139    | <1          | 133    | <1      | 148    | <1                | 159    | 0.0                   | 129    | 0.1                   | 152    | <1        | 143    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1990            | 0.2         | 146    | <1        | 149    | 0.1               | 144    | 0.2       | 144    | 0.1         | 144    | 0.1     | 149    | 0.1               | 159    | 0.0                   | 129    | 0.2                   | 142    | 0.1       | 144    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1991            | 0.1         | 152    | <1        | 151    | 0.1               | 152    | 0.1       | 131    | 0.2         | 150    | <1      | 136    | 0.1               | 158    | 0.1                   | 139    | 0.2                   | 148    | 0.1       | 146    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1992            | 0.1         | 161    | <1        | 143    | 0.1               | 156    | <1        | 153    | 0.1         | 146    | <1      | 140    | 0.1               | 155    | 0.1                   | 157    | 0.1                   | 152    | 0.1       | 144    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     | 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|     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1993            | 0.1         | 169    | <1        | 145    | 0.1               | 150    | <1        | 156    | <1          | 150    | <1      | 160    | 0.1               | 147    | <1                    | 157    | <1                    | 142    | <1        | 153    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    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    |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1994            | 0.1         | 163    | <1        | 152    | 0.1               | 151    | <1        | 155    | <1          | 150    | <1      | 154    | <1                | 150    | <1                    | 147    | <1                    | 142    | <1        | 151    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1995            | 0.1         | 158    | <1        | 146    | 0.1               | 151    | <1        | 127    | 0.1         | 154    | <1      | 144    | <1                | 150    | <1                    | 124    | 0.1                   | 136    | <1        | 142    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
| 1996            | <1          | 155    | <1        | 185    | <1                | 154    | <1        | 147    | <1          | 159    | <1      | 140    | <1                | 144    | <1                    | 139    | <1                    | 148    | <1        | 159    |  |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                 |     |     |     |     |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |  |     |     |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |    |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |     |     |    |     |    |     |    |     |    |     |    |     |    |     |     |     |     |     |    |     |      |     |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |     |     |    |     |     |     |     |     |     |     |     |     |      |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |     |    |     |     |     |    |     |     |     |    |     |    |     |    |     |     |     |    |     |      |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |



Table 3. Annual mean catch rate (No./ha) and mean total lengths (mm) of selected fishes and shellfishes caught with 18.3-m bag seines by bay system during 1977-96. Blank indicates no measurement taken; ND = no data.

| Species Year           | Sabine Lake |        | Galveston |        | East Matagorda  |        | Matagorda |        | San Antonio |        | Aransas |        | Corpus Christi |        | Upper Laguna Madre |        | Lower Laguna Madre |        | Coastwide       |        |  |
|------------------------|-------------|--------|-----------|--------|-----------------|--------|-----------|--------|-------------|--------|---------|--------|----------------|--------|--------------------|--------|--------------------|--------|-----------------|--------|--|
|                        | No./ha      | Length | No./ha    | Length | No./ha          | Length | No./ha    | Length | No./ha      | Length | No./ha  | Length | No./ha         | Length | No./ha             | Length | No./ha             | Length | No./ha          | Length |  |
| <b>FINFISHES</b>       |             |        |           |        |                 |        |           |        |             |        |         |        |                |        |                    |        |                    |        |                 |        |  |
| Red drum 1977*         | ND          |        | 20        | 35     | ND              |        | 8         | 51     | 85          | 51     | 14      | 44     | 1              | 41     | 0                  |        | 1                  | 39     | 18              | 46     |  |
| 1978                   | ND          |        | 3         | 67     | ND              |        | 4         | 43     | 13          | 51     | 4       | 94     | 3              | 67     | 11                 | 58     | 17                 | 52     | 7               | 58     |  |
| 1979                   | ND          |        | 17        | 62     | ND              |        | 6         | 92     | 11          | 67     | 5       | 92     | 18             | 85     | 27                 | 66     | 15                 | 64     | 14              | 70     |  |
| 1980                   | ND          |        | 59        | 74     | ND              |        | 8         | 68     | 28          | 50     | 8       | 88     | 16             | 75     | 8                  | 82     | 15                 | 72     | 23              | 70     |  |
| 1981                   | ND          |        | 26        | 52     | ND              |        | 9         | 86     | 29          | 53     | 30      | 38     | 40             | 46     | 5                  | 46     | 45                 | 56     | 26              | 52     |  |
| 1982                   | ND          |        | 53        | 62     | ND              |        | 9         | 76     | 19          | 102    | 26      | 103    | 21             | 62     | 1                  | 55     | 16                 | 89     | 24              | 76     |  |
| 1983                   | ND          |        | 47        | 67     | 11 <sup>b</sup> | 66     | 4         | 70     | 7           | 99     | 12      | 98     | 7              | 88     | 2                  | 59     | 41                 | 92     | 20 <sup>b</sup> | 78     |  |
| 1984                   | ND          |        | 13        | 66     | 6               | 70     | 2         | 105    | 12          | 56     | 4       | 100    | 4              | 80     | 2                  | 52     | 6                  | 73     | 6               | 69     |  |
| 1985                   | ND          |        | 3         | 131    | 10              | 106    | 7         | 96     | 7           | 114    | 19      | 82     | 9              | 67     | 1                  | 61     | 17                 | 69     | 9               | 86     |  |
| 1986                   | 19          | 66     | 7         | 87     | 8               | 86     | 2         | 78     | 6           | 105    | 1       | 117    | 4              | 98     | 3                  | 84     | 22                 | 94     | 7               | 90     |  |
| 1987                   | 6           | 99     | 45        | 58     | 47              | 61     | 16        | 88     | 15          | 89     | 9       | 59     | 7              | 71     | 2                  | 117    | 32                 | 63     | 21              | 66     |  |
| 1988                   | 13          | 78     | 8         | 78     | 3               | 114    | 3         | 114    | 6           | 89     | 10      | 78     | 9              | 49     | 4                  | 66     | 21                 | 63     | 10              | 73     |  |
| 1989                   | 61          | 44     | 3         | 59     | 24              | 47     | 4         | 92     | 10          | 82     | 8       | 65     | 4              | 83     | 1                  | 54     | 18                 | 69     | 9               | 63     |  |
| 1990                   | 5           | 62     | 17        | 53     | 27              | 50     | 14        | 51     | 19          | 50     | 43      | 40     | 20             | 57     | 4                  | 32     | 25                 | 39     | 20              | 46     |  |
| 1991                   | 6           | 97     | 14        | 73     | 30              | 53     | 30        | 81     | 36          | 79     | 25      | 61     | 28             | 72     | 5                  | 88     | 43                 | 61     | 24              | 71     |  |
| 1992                   | 5           | 71     | 9         | 85     | 23              | 56     | 15        | 77     | 22          | 84     | 23      | 83     | 7              | 74     | 14                 | 51     | 13                 | 70     | 14              | 76     |  |
| 1993                   | 11          | 73     | 28        | 58     | 40              | 48     | 11        | 66     | 17          | 58     | 13      | 60     | 12             | 73     | 9                  | 53     | 23                 | 62     | 18              | 60     |  |
| 1994                   | 7           | 72     | 22        | 59     | 31              | 55     | 6         | 58     | 13          | 69     | 29      | 58     | 53             | 55     | 11                 | 61     | 26                 | 70     | 21              | 61     |  |
| 1995                   | 20          | 69     | 12        | 48     | 18              | 54     | 7         | 69     | 15          | 76     | 15      | 62     | 26             | 62     | 17                 | 86     | 29                 | 62     | 15              | 63     |  |
| 1996                   | 9           | 76     | 16        | 48     | 21              | 56     | 16        | 49     | 27          | 63     | 5       | 65     | 8              | 76     | 11                 | 60     | 14                 | 66     | 14              | 58     |  |
| Spotted seatrout 1977* | ND          |        | 34        | 87     | ND              |        | 39        | 84     | 50          | 73     | 1       | 99     | 7              | 84     | 16                 | 83     | 5                  | 85     | 23              | 82     |  |
| 1978                   | ND          |        | 35        | 52     | ND              |        | 6         | 86     | 11          | 69     | 8       | 80     | 4              | 59     | 14                 | 93     | 2                  | 52     | 14              | 61     |  |
| 1979                   | ND          |        | 37        | 73     | ND              |        | 3         | 83     | 12          | 70     | 7       | 68     | 12             | 53     | 13                 | 80     | 2                  | 86     | 14              | 75     |  |
| 1980                   | ND          |        | 17        | 72     | ND              |        | 3         | 84     | 21          | 71     | 11      | 74     | 11             | 79     | 3                  | 56     | <1                 | 60     | 10              | 73     |  |
| 1981                   | ND          |        | 16        | 85     | ND              |        | 7         | 110    | 9           | 68     | 13      | 70     | 12             | 65     | 4                  | 73     | 6                  | 84     | 10              | 80     |  |
| 1982                   | ND          |        | 37        | 82     | ND              |        | 7         | 99     | 19          | 62     | 15      | 76     | 4              | 75     | 5                  | 78     | 3                  | 76     | 15              | 79     |  |
| 1983                   | ND          |        | 26        | 84     | 4 <sup>b</sup>  | 101    | 4         | 73     | 8           | 72     | 14      | 81     | 4              | 79     | 5                  | 101    | 4                  | 80     | 11 <sup>b</sup> | 82     |  |
| 1984                   | ND          |        | 7         | 71     | 2               | 85     | 3         | 77     | 1           | 83     | 10      | 74     | 1              | 54     | 1                  | 88     | 5                  | 98     | 4               | 77     |  |
| 1985                   | ND          |        | 5         | 80     | 24              | 73     | 11        | 87     | 4           | 84     | 24      | 61     | 3              | 50     | 9                  | 70     | 2                  | 78     | 9               | 70     |  |
| 1986                   | 2           | 67     | 2         | 85     | 17              | 66     | 5         | 71     | 5           | 78     | 12      | 60     | 4              | 68     | 1                  | 72     | 2                  | 58     | 5               | 68     |  |
| 1987                   | 2           | 92     | 22        | 73     | 14              | 68     | 3         | 82     | 19          | 70     | 13      | 69     | 10             | 76     | 1                  | 104    | 3                  | 63     | 11              | 72     |  |
| 1988                   | 7           | 88     | 6         | 88     | 14              | 75     | 5         | 96     | 7           | 67     | 28      | 68     | 7              | 65     | 5                  | 65     | 3                  | 87     | 9               | 74     |  |
| 1989                   | 5           | 63     | 6         | 79     | 14              | 80     | 6         | 69     | 20          | 61     | 16      | 71     | 6              | 71     | 4                  | 50     | 2                  | 56     | 8               | 68     |  |
| 1990                   | 3           | 69     | 5         | 56     | 10              | 74     | 8         | 66     | 8           | 61     | 14      | 61     | 13             | 65     | 2                  | 54     | <1                 | 86     | 7               | 63     |  |
| 1991                   | 1           | 67     | 16        | 63     | 13              | 71     | 15        | 70     | 34          | 59     | 20      | 65     | 8              | 72     | 6                  | 63     | 2                  | 59     | 14              | 64     |  |
| 1992                   | 2           | 73     | 6         | 73     | 4               | 82     | 10        | 59     | 42          | 52     | 12      | 68     | 8              | 69     | 18                 | 50     | 2                  | 54     | 12              | 58     |  |
| 1993                   | 5           | 84     | 6         | 61     | 19              | 71     | 6         | 62     | 15          | 54     | 12      | 68     | 7              | 69     | 14                 | 59     | 7                  | 49     | 9               | 61     |  |
| 1994                   | 3           | 73     | 5         | 64     | 13              | 78     | 13        | 68     | 12          | 66     | 28      | 76     | 7              | 69     | 5                  | 79     | 1                  | 51     | 10              | 71     |  |
| 1995                   | 17          | 70     | 5         | 77     | 23              | 76     | 17        | 63     | 16          | 77     | 33      | 68     | 5              | 89     | 19                 | 73     | 3                  | 75     | 14              | 71     |  |
| 1996                   | 3           | 92     | 6         | 52     | 17              | 93     | 11        | 69     | 16          | 67     | 12      | 79     | 3              | 76     | 9                  | 74     | 2                  | 74     | 8               | 71     |  |
| Black drum 1977*       | ND          |        | 0         |        | ND              |        | 11        | 147    | 6           | 179    | 1       | 142    | 1              | 150    | 0                  |        | 0                  |        | 3               | 156    |  |
| 1978                   | ND          |        | 36        | 95     | ND              |        | 9         | 112    | 22          | 110    | 2       | 165    | 1              | 122    | 4                  | 106    | 0                  |        | 13              | 102    |  |
| 1979                   | ND          |        | 40        | 83     | ND              |        | 12        | 106    | 5           | 97     | 1       | 85     | 8              | 89     | 6                  | 140    | 18                 | 98     | 15              | 92     |  |
| 1980                   | ND          |        | 4         | 93     | ND              |        | 4         | 102    | 0           | 102    | 2       | 100    | 2              | 75     | 3                  | 95     | 1                  | 142    | 15              | 97     |  |
| 1981                   | ND          |        | 12        | 122    | ND              |        | 11        | 110    | 2           | 141    | 5       | 141    | 2              | 113    | 11                 | 44     | 6                  | 130    | 8               | 108    |  |
| 1982                   | ND          |        | 4         | 124    | ND              |        | 5         | 138    | 9           | 90     | 7       | 94     | 1              | 109    | <1                 | 155    | 2                  | 117    | 4               | 110    |  |
| 1983                   | ND          |        | 23        | 91     | 3 <sup>b</sup>  | 123    | 3         | 118    | 1           | 132    | 2       | 145    | 2              | 108    | <1                 | 107    | <1                 | 141    | 7 <sup>b</sup>  | 98     |  |
| 1984                   | ND          |        | 8         | 108    | 1               | 103    | 3         | 156    | 0           | 140    | <1      | 140    | 0              | 108    | 1                  | 82     | 0                  | 91     | 2               | 115    |  |
| 1985                   | ND          |        | 4         | 141    | 3               | 83     | 3         | 113    | 1           | 122    | <1      | 124    | 1              | 68     | 6                  | 86     | <1                 | 86     | 2               | 112    |  |
| 1986                   | 2           | 141    | 2         | 107    | 5               | 85     | 0         | 130    | 1           | 149    | 0       | 0      | <1             | 96     | 2                  | 68     | 1                  | 145    | 1               | 110    |  |
| 1987                   | 0           |        | 1         | 106    | 0               |        | 4         | 130    | 1           | 118    | 0       | 0      | 6              | 74     | 44                 | 63     | 1                  | 89     | 6               | 72     |  |
| 1988                   | 2           | 146    | 5         | 107    | 5               | 94     | 6         | 126    | 2           | 132    | 2       | 128    | 2              | 112    | 2                  | 90     | 2                  | 138    | 4               | 114    |  |
| 1989                   | 0           |        | 4         | 124    | 8               | 87     | 3         | 109    | 1           | 125    | 3       | 116    | 1              | 110    | 11                 | 77     | 4                  | 150    | 4               | 108    |  |
| 1990                   | 3           | 128    | 4         | 99     | 41              | 75     | 14        | 117    | 6           | 123    | 2       | 127    | 15             | 164    | 833                | 45     | 7                  | 126    | 102             | 49     |  |

Table 3. (Cont.)

| Species Year       | Sabine Lake |        |        |        | Galveston      |                 |        |        | East Matagorda |        |        |        | Matagorda |        |        |        | San Antonio |        |                |        | Arkansas |        |        |        | Corpus Christi |        |        |        | Upper Laguna Madre |        |        |        | Lower Laguna Madre |        |  |  | Coastwide |  |  |  |
|--------------------|-------------|--------|--------|--------|----------------|-----------------|--------|--------|----------------|--------|--------|--------|-----------|--------|--------|--------|-------------|--------|----------------|--------|----------|--------|--------|--------|----------------|--------|--------|--------|--------------------|--------|--------|--------|--------------------|--------|--|--|-----------|--|--|--|
|                    | No./ha      | Length | No./ha | Length | No./ha         | Length          | No./ha | Length | No./ha         | Length | No./ha | Length | No./ha    | Length | No./ha | Length | No./ha      | Length | No./ha         | Length | No./ha   | Length | No./ha | Length | No./ha         | Length | No./ha | Length | No./ha             | Length | No./ha | Length | No./ha             | Length |  |  |           |  |  |  |
| Black drum (cont.) |             |        |        |        |                |                 |        |        |                |        |        |        |           |        |        |        |             |        |                |        |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1991               | 1           | 124    | 3      | 111    | 10             | 99              | 7      | 155    | 2              | 113    | <1     | 174    | <1        | 112    | 61     | 77     | 1           | 171    | 9              | 92     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1992               | <1          | 123    | <1     | 142    | 3              | 114             | 1      | 146    | 3              | 23     | 0      | 0      | <1        | 70     | 6      | 59     | 4           | 118    | 2              | 80     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1993               | 2           | 129    | 1      | 109    | 3              | 99              | <1     | 122    | <1             | 158    | <1     | 99     | 1         | 67     | 1      | 39     | <1          | 203    | 1              | 94     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1994               | 2           | 119    | 5      | 119    | 31             | 84              | 13     | 171    | 8              | 95     | 6      | 74     | 4         | 78     | 4      | 38     | 1           | 101    | 6              | 76     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1995               | 1           | 160    | 1      | 119    | 4              | 76              | 3      | 100    | 3              | 115    | 4      | 111    | 1         | 99     | 77     | 72     | 1           | 161    | 10             | 78     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1996               | 1           | 148    | 5      | 77     | 2              | 104             | 1      | 95     | 1              | 86     | 1      | 77     | <1        | 106    | 51     | 63     | 1           | 131    | 8              | 68     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| Sheepshead         |             |        |        |        |                |                 |        |        |                |        |        |        |           |        |        |        |             |        |                |        |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1977               | ND          | ND     | 0      | 0      | ND             | ND              | 1      | 128    | 0              | 68     | 0      | 54     | 0         | 59     | 0      | 122    | 0           | 61     | <1             | 128    |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1978               | ND          | ND     | 0      | 66     | ND             | ND              | <1     | 86     | <1             | 63     | 1      | 56     | 13        | 41     | 0      | 0      | 1           | 50     | 1              | 70     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1979               | ND          | ND     | 15     | 114    | ND             | ND              | 1      | 163    | 1              | 41     | 1      | 51     | 0         | 0      | 0      | 0      | 1           | 60     | 6              | 61     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1980               | ND          | ND     | 1      | 158    | ND             | ND              | 2      | 68     | 0              | 67     | 1      | 95     | 1         | 41     | 0      | 0      | 1           | 60     | 1              | 86     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1981               | ND          | ND     | 1      | 174    | ND             | ND              | 0      | 0      | 3              | 67     | <1     | 67     | <1        | 50     | 0      | 0      | 1           | 92     | 1              | 101    |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1982               | ND          | ND     | 1      | 23     | <1             | <1 <sup>b</sup> | <1     | 50     | 1              | 102    | <1     | 36     | <1        | 30     | 0      | 0      | 3           | 52     | 1 <sup>b</sup> | 52     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1983               | ND          | ND     | 0      | 20     | <1             | <1              | <1     | 90     | 1              | 30     | <1     | 35     | 0         | 0      | 0      | 0      | 2           | 57     | 1              | 43     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1984               | ND          | ND     | 2      | 114    | <1             | <1              | <1     | 157    | 3              | 39     | 1      | 50     | 0         | 0      | 0      | 0      | 2           | 73     | 1              | 80     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1985               | 0           | 0      | <1     | 60     | 1              | 58              | <1     | 203    | 1              | 48     | 1      | 50     | 0         | 0      | 0      | 0      | 1           | 47     | <1             | 64     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1986               | 0           | 0      | <1     | 59     | 2              | 69              | <1     | 94     | <1             | 53     | 0      | 55     | 3         | 35     | 0      | 0      | 1           | 47     | <1             | 64     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1987               | 0           | 0      | <1     | 126    | <1             | <1              | <1     | 124    | 2              | 58     | 0      | 55     | 3         | 35     | 0      | 0      | <1          | 40     | 1              | 56     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1988               | 0           | 0      | <1     | 55     | <1             | <1              | <1     | 79     | 25             | 40     | 0      | 55     | 0         | 0      | 0      | 0      | <1          | 89     | 3              | 44     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1989               | 1           | 91     | 0      | 147    | 1              | 33              | 1      | 36     | 5              | 39     | <1     | 66     | <1        | 40     | 0      | 0      | 1           | 63     | 1              | 49     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1990               | <1          | 153    | 0      | 126    | 0              | 0               | <1     | 101    | 1              | 81     | <1     | 115    | 0         | 0      | 0      | 0      | <1          | 89     | <1             | 86     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1991               | <1          | 146    | 0      | 55     | 1              | 33              | 1      | 36     | 5              | 39     | <1     | 66     | <1        | 40     | 0      | 0      | 1           | 63     | 1              | 49     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1992               | <1          | 97     | 0      | 147    | 1              | 33              | 1      | 36     | 5              | 39     | <1     | 66     | <1        | 40     | 0      | 0      | 1           | 63     | 1              | 49     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1993               | <1          | 50     | <1     | 147    | 1              | 33              | 1      | 36     | 5              | 39     | <1     | 66     | <1        | 40     | 0      | 0      | 1           | 63     | 1              | 49     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1994               | <1          | 106    | <1     | 86     | 0              | 0               | 2      | 71     | 1              | 150    | 2      | 69     | <1        | 51     | <1     | 32     | 0           | 59     | 1              | 54     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1995               | <1          | 74     | 1      | 86     | 0              | 0               | 2      | 71     | 1              | 150    | 2      | 69     | <1        | 51     | <1     | 32     | 0           | 59     | 1              | 54     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1996               | <1          | 55     | <1     | 37     | 3              | 38              | <1     | 167    | 3              | 42     | 1      | 54     | <1        | 38     | 0      | 0      | 1           | 89     | 1              | 54     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| Southern flounder  |             |        |        |        |                |                 |        |        |                |        |        |        |           |        |        |        |             |        |                |        |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1977               | ND          | ND     | 0      | 40     | ND             | ND              | 1      | 171    | 0              | 37     | 0      | 98     | 0         | 44     | 0      | 128    | 0           | 46     | <1             | 171    |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1978               | ND          | ND     | 9      | 85     | ND             | ND              | <1     | 43     | 3              | 85     | <1     | 0      | <1        | 122    | 2      | 46     | 1           | 38     | 1              | 42     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1979               | ND          | ND     | 10     | 54     | ND             | ND              | <1     | 135    | 2              | 85     | 0      | 0      | 0         | 1      | 122    | 2      | 46          | 1      | 38             | 1      | 42       |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1980               | ND          | ND     | 5      | 57     | ND             | ND              | 1      | 79     | 2              | 55     | 0      | 90     | 3         | 64     | 1      | 66     | 5           | 38     | 4              | 51     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1981               | ND          | ND     | 9      | 67     | ND             | ND              | 3      | 82     | 6              | 56     | 18     | 37     | 2         | 62     | 0      | 53     | 11          | 55     | 4              | 64     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1982               | ND          | ND     | 9      | 46     | 1 <sup>b</sup> | 1 <sup>b</sup>  | 2      | 54     | 3              | 58     | 6      | 39     | 1         | 34     | 0      | 53     | 13          | 39     | 8              | 51     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1983               | ND          | ND     | 2      | 83     | 2              | 69              | 2      | 78     | 1              | 67     | 3      | 62     | 3         | 45     | 1      | 86     | 2           | 45     | 4              | 46     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1984               | ND          | ND     | 4      | 58     | 5              | 78              | 2      | 112    | 1              | 43     | 7      | 55     | 5         | 55     | <1     | 71     | 2           | 67     | 3              | 69     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1985               | ND          | ND     | 4      | 83     | 6              | 70              | 19     | 66     | 2              | 78     | 4      | 64     | 2         | 54     | <1     | 69     | 12          | 44     | 6              | 63     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1986               | 2           | 83     | 4      | 83     | 9              | 54              | 3      | 85     | 3              | 44     | 5      | 48     | 1         | 65     | <1     | 69     | 5           | 60     | 6              | 63     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1987               | 2           | 47     | 21     | 51     | 3              | 76              | 1      | 62     | 3              | 69     | 5      | 48     | 1         | 65     | <1     | 69     | 5           | 60     | 6              | 63     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1988               | 15          | 66     | 14     | 61     | 3              | 76              | 3      | 85     | 3              | 69     | 24     | 38     | 8         | 53     | <1     | 106    | 2           | 62     | 7              | 50     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1989               | 10          | 74     | 3      | 62     | 10             | 60              | 3      | 67     | 10             | 51     | 24     | 38     | 8         | 53     | <1     | 106    | 2           | 62     | 7              | 50     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1990               | 12          | 68     | 22     | 59     | 12             | 55              | 15     | 48     | 11             | 50     | 3      | 55     | 12        | 47     | 4      | 67     | 9           | 51     | 12             | 44     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1991               | 7           | 58     | 5      | 34     | 7              | 56              | 3      | 53     | 2              | 94     | 1      | 55     | 2         | 46     | <1     | 27     | 2           | 60     | 3              | 49     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1992               | 7           | 65     | 3      | 41     | 3              | 41              | 6      | 46     | 3              | 48     | 1      | 41     | 5         | 44     | <1     | 22     | <1          | 56     | 4              | 55     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1993               | 4           | 95     | 6      | 56     | 5              | 45              | 6      | 46     | 3              | 47     | 2      | 57     | 3         | 69     | <1     | 130    | 2           | 54     | 2              | 46     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1994               | 2           | 94     | 4      | 62     | 3              | 31              | 3      | 58     | 3              | 46     | 5      | 54     | 6         | 42     | <1     | 58     | 2           | 78     | 3              | 56     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1995               | 4           | 65     | 4      | 59     | 3              | 63              | 3      | 55     | 1              | 42     | 5      | 41     | 5         | 47     | <1     | 58     | <1          | 93     | 3              | 53     |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |
| 1996               | 5           | 85     | 9      | 45     | 5              |                 |        |        |                |        |        |        |           |        |        |        |             |        |                |        |          |        |        |        |                |        |        |        |                    |        |        |        |                    |        |  |  |           |  |  |  |

Table 3. (Cont.)

| Species<br>Year          | Sabine Lake |        | Galveston |        | East<br>Matagorda |        | Matagorda |        | San Antonio |        | Aransas |        | Corpus<br>Christi |        | Upper Laguna<br>Madre |        | Lower Laguna<br>Madre |        | Coastwide          |        |
|--------------------------|-------------|--------|-----------|--------|-------------------|--------|-----------|--------|-------------|--------|---------|--------|-------------------|--------|-----------------------|--------|-----------------------|--------|--------------------|--------|
|                          | No./ha      | Length | No./ha    | Length | No./ha            | Length | No./ha    | Length | No./ha      | Length | No./ha  | Length | No./ha            | Length | No./ha                | Length | No./ha                | Length | No./ha             | Length |
| Atlantic croaker (cont.) |             |        |           |        |                   |        |           |        |             |        |         |        |                   |        |                       |        |                       |        |                    |        |
| 1987                     | 79          | 70     | 335       | 54     | 110               | 56     | 207       | 78     | 33          | 47     | 9       | 81     | 4                 | 40     | <1                    | 60     | 10                    | 62     | 113                | 61     |
| 1988                     | 154         | 68     | 485       | 53     | 160               | 51     | 60        | 80     | 13          | 66     | 3       | 50     | 8                 | 50     | 0                     | 63     | 15                    | 63     | 125                | 56     |
| 1989                     | 111         | 56     | 36        | 77     | 190               | 45     | 22        | 56     | 49          | 49     | 18      | 62     | 10                | 61     | 0                     | 38     | 9                     | 38     | 27                 | 59     |
| 1990                     | 97          | 46     | 316       | 51     | 117               | 46     | 82        | 68     | 24          | 32     | 58      | 65     | 14                | 59     | 2                     | 78     | 46                    | 62     | 103                | 55     |
| 1991                     | 208         | 57     | 635       | 52     | 343               | 47     | 1,035     | 58     | 156         | 57     | 63      | 63     | 35                | 66     | 11                    | 36     | 169                   | 46     | 353                | 55     |
| 1992                     | 225         | 56     | 505       | 47     | 450               | 47     | 626       | 48     | 430         | 47     | 215     | 44     | 95                | 50     | 13                    | 54     | 157                   | 44     | 326                | 47     |
| 1993                     | 232         | 41     | 358       | 50     | 421               | 44     | 216       | 47     | 48          | 47     | 25      | 66     | 25                | 53     | 2                     | 67     | 195                   | 40     | 165                | 48     |
| 1994                     | 255         | 52     | 229       | 49     | 186               | 58     | 302       | 43     | 59          | 46     | 74      | 39     | 25                | 37     | 6                     | 44     | 123                   | 46     | 143                | 46     |
| 1995                     | 357         | 57     | 112       | 48     | 247               | 50     | 110       | 57     | 37          | 59     | 36      | 69     | 24                | 35     | 2                     | 58     | 179                   | 41     | 95                 | 50     |
| 1996                     | 765         | 59     | 453       | 47     | 290               | 50     | 147       | 63     | 37          | 54     | 35      | 60     | 6                 | 44     | 3                     | 65     | 112                   | 44     | 179                | 51     |
| Sand seatrout            |             |        |           |        |                   |        |           |        |             |        |         |        |                   |        |                       |        |                       |        |                    |        |
| 1977*                    | ND          | ND     | 0         | 0      | ND                | ND     | 11        | 61     | 0           | 0      | 0       | 0      | 0                 | 0      | 0                     | 0      | 0                     | 0      | 2                  | 61     |
| 1978                     | ND          | ND     | 13        | 58     | ND                | ND     | 3         | 59     | 0           | 0      | 0       | 0      | <1                | 54     | 0                     | 0      | 0                     | 0      | 4                  | 58     |
| 1979                     | ND          | ND     | 35        | 58     | ND                | ND     | 14        | 70     | 2           | 75     | <1      | 33     | 1                 | 77     | 0                     | 0      | 0                     | 0      | 10                 | 61     |
| 1980                     | ND          | ND     | 8         | 61     | ND                | ND     | 7         | 82     | <1          | 64     | <1      | 89     | 0                 | 0      | 0                     | 0      | 0                     | 0      | 3                  | 69     |
| 1981                     | ND          | ND     | 21        | 60     | ND                | ND     | 2         | 72     | 0           | 0      | 1       | 76     | 1                 | 76     | 0                     | 0      | <1                    | 78     | 5                  | 61     |
| 1982                     | ND          | ND     | 47        | 57     | ND                | ND     | 12        | 67     | <1          | 35     | <1      | 76     | <1                | 73     | 0                     | 0      | <1                    | 65     | 13                 | 58     |
| 1983                     | ND          | ND     | 47        | 53     | 10 <sup>b</sup>   | 59     | 30        | 64     | <1          | 47     | 1       | 70     | 2                 | 53     | 0                     | 0      | 0                     | 0      | 15 <sup>b</sup>    | 56     |
| 1984                     | ND          | ND     | 11        | 55     | 7                 | 66     | 22        | 54     | 0           | 0      | 0       | 0      | 0                 | 0      | 0                     | 0      | 0                     | 0      | 15                 | 54     |
| 1985                     | ND          | ND     | 11        | 60     | 8                 | 59     | 12        | 71     | 0           | 0      | <1      | 67     | 1                 | 82     | 0                     | 0      | <1                    | 60     | 15                 | 65     |
| 1986                     | 6           | 71     | 9         | 50     | 4                 | 60     | 19        | 64     | 0           | 0      | 0       | 0      | <1                | 57     | 0                     | 0      | 0                     | 0      | 3                  | 57     |
| 1987                     | 4           | 63     | 16        | 58     | 11                | 61     | 14        | 65     | 1           | 61     | 0       | 0      | 0                 | 0      | 0                     | 0      | 0                     | 0      | 6                  | 61     |
| 1988                     | 5           | 54     | 5         | 53     | 38                | 40     | 6         | 66     | <1          | 69     | 0       | 0      | 0                 | 0      | 0                     | 0      | 0                     | 0      | 3                  | 52     |
| 1989                     | 9           | 54     | 43        | 55     | 7                 | 66     | 4         | 68     | <1          | 31     | 0       | 0      | <1                | 106    | 0                     | 0      | 0                     | 0      | 10                 | 56     |
| 1990                     | 24          | 52     | 75        | 46     | 10                | 59     | 13        | 56     | 1           | 36     | 0       | 0      | 0                 | 0      | 0                     | 0      | 0                     | 0      | 19                 | 47     |
| 1991                     | 7           | 48     | 76        | 55     | 25                | 59     | 39        | 56     | <1          | 76     | 3       | 50     | 2                 | 42     | 0                     | 0      | <1                    | 65     | 23                 | 55     |
| 1992                     | 7           | 54     | 30        | 53     | 10                | 52     | 36        | 54     | 0           | 0      | 0       | 0      | 1                 | 61     | 0                     | 0      | 0                     | 0      | 12                 | 53     |
| 1993                     | 7           | 58     | 53        | 48     | 19                | 53     | 88        | 53     | 4           | 64     | <1      | 96     | 1                 | 57     | 0                     | 0      | 2                     | 54     | 26                 | 51     |
| 1994                     | 4           | 61     | 34        | 48     | 16                | 70     | 29        | 56     | <1          | 70     | <1      | 64     | 0                 | 0      | 0                     | 0      | <1                    | 53     | 12                 | 52     |
| 1995                     | 14          | 50     | 59        | 44     | 53                | 38     | 37        | 59     | <1          | 56     | <1      | 64     | 0                 | 0      | 0                     | 0      | 1                     | 57     | 20                 | 48     |
| 1996                     | 16          | 63     | 18        | 50     | 18                | 51     | 6         | 57     | 0           | 0      | 0       | 0      | 1                 | 62     | 0                     | 0      | 0                     | 0      | 6                  | 52     |
| Gulf menhaden            |             |        |           |        |                   |        |           |        |             |        |         |        |                   |        |                       |        |                       |        |                    |        |
| 1977*                    | ND          | ND     | 21        | 76     | ND                | ND     | 0         | 0      | 0           | 64     | 0       | 0      | 1                 | 58     | 0                     | 0      | 0                     | 0      | 5                  | 76     |
| 1978                     | ND          | ND     | 533       | 31     | ND                | ND     | 3,963     | 47     | 169         | 64     | 3,310   | 44     | 1                 | 41     | 44                    | 42     | 71                    | 29     | 1,249              | 44     |
| 1979                     | ND          | ND     | 122       | 53     | ND                | ND     | 867       | 43     | 0           | 0      | 817     | 38     | 335               | 38     | 6                     | 37     | 1                     | 31     | 312                | 41     |
| 1980                     | ND          | ND     | 14,717    | 46     | ND                | ND     | 115       | 50     | 24          | 52     | 48      | 30     | 7                 | 49     | 4                     | 40     | 54                    | 31     | 3,343              | 46     |
| 1981                     | ND          | ND     | 196       | 45     | ND                | ND     | 348       | 51     | 52          | 41     | 355     | 48     | 8                 | 41     | 721                   | 42     | 11                    | 38     | 246                | 45     |
| 1982                     | ND          | ND     | 4,788     | 50     | ND                | ND     | 820       | 48     | 1,008       | 37     | 137     | 33     | 1,068             | 36     | 9                     | 31     | 130                   | 32     | 1,466              | 47     |
| 1983                     | ND          | ND     | 4,971     | 66     | 1,32 <sup>a</sup> | 44     | 809       | 44     | 67          | 42     | 16      | 34     | 619               | 33     | 2                     | 30     | 5                     | 47     | 1,312 <sup>b</sup> | 62     |
| 1984                     | ND          | ND     | 1,839     | 44     | 470               | 48     | 1,260     | 45     | 1,084       | 42     | 866     | 39     | 553               | 52     | 128                   | 49     | 69                    | 56     | 928                | 44     |
| 1985                     | ND          | ND     | 486       | 42     | 243               | 43     | 3,819     | 50     | 868         | 45     | 48      | 39     | 122               | 37     | 62                    | 44     | 20                    | 49     | 819                | 48     |
| 1986                     | 3,049       | 48     | 3,024     | 38     | 1,502             | 37     | 10,076    | 53     | 612         | 36     | 27      | 34     | 11                | 46     | 36                    | 44     | 12                    | 36     | 2,333              | 48     |
| 1987                     | 633         | 47     | 264       | 50     | 755               | 49     | 3,550     | 60     | 35          | 40     | 68      | 36     | 11                | 34     | 32                    | 63     | 18                    | 27     | 637                | 57     |
| 1988                     | 600         | 40     | 2,625     | 45     | 438               | 41     | 1,873     | 60     | <1          | 43     | 80      | 30     | <1                | 44     | 14                    | 31     | 81                    | 35     | 660                | 45     |
| 1989                     | 526         | 48     | 781       | 42     | 386               | 41     | 187       | 45     | 53          | 37     | 37      | 37     | 24                | 43     | 2                     | 45     | 71                    | 39     | 245                | 43     |
| 1990                     | 774         | 49     | 5,106     | 43     | 640               | 44     | 527       | 56     | 797         | 71     | 943     | 35     | 869               | 32     | 21                    | 38     | <1                    | 38     | 1,487              | 44     |
| 1991                     | 270         | 41     | 4,298     | 40     | 1,258             | 42     | 3,044     | 42     | 296         | 42     | 569     | 41     | 244               | 38     | 123                   | 36     | 0                     | 0      | 1,533              | 41     |
| 1992                     | 593         | 45     | 6,025     | 37     | 2,591             | 36     | 1,919     | 38     | 1,810       | 35     | 259     | 33     | 434               | 46     | 4                     | 30     | 21                    | 40     | 1,815              | 37     |
| 1993                     | 1,878       | 48     | 7,341     | 40     | 509               | 36     | 4,92      | 46     | 191         | 38     | 634     | 66     | 158               | 38     | 13                    | 39     | 108                   | 35     | 1,827              | 42     |
| 1994                     | 72          | 51     | 5,203     | 48     | 222               | 41     | 418       | 57     | 138         | 39     | 263     | 33     | 15                | 45     | 33                    | 33     | <1                    | 49     | 1,212              | 48     |
| 1995                     | 399         | 46     | 6,155     | 39     | 2,382             | 50     | 718       | 36     | 140         | 48     | 373     | 37     | 83                | 40     | 133                   | 34     | 4                     | 48     | 1,570              | 39     |
| 1996                     | 1,489       | 44     | 7,928     | 39     | 554               | 36     | 1,484     | 40     | 202         | 33     | 179     | 41     | 459               | 31     | 68                    | 30     | 3                     | 32     | 2,039              | 39     |
| Pinfish                  |             |        |           |        |                   |        |           |        |             |        |         |        |                   |        |                       |        |                       |        |                    |        |
| 1977*                    | ND          | ND     | 0         | 0      | ND                | ND     | 32        | 114    | 24          | 105    | 22      | 105    | 66                | 93     | 167                   | 102    | 13                    | 101    | 39                 | 103    |
| 1978                     | ND          | ND     | 116       | 55     | ND                | ND     | 24        | 61     | 77          | 75     | 54      | 74     | 133               | 69     | 41                    | 84     | 7                     | 64     | 65                 | 65     |
| 1979                     | ND          | ND     | 73        | 75     | ND                | ND     | 43        | 79     | 47          | 85     | 47      | 85     | 81                | 61     | 13                    | 122    | 1                     | 107    | 47                 | 77     |
| 1980                     | ND          | ND     | 151       | 38     | ND                | ND     | 16        | 50     | 363         | 57     | 167     | 66     | 250               | 61     | 17                    | 88     | 153                   | 59     | 152                | 55     |
| 1981                     | ND          | ND     | 270       | 55     | ND                | ND     | 68        | 69     | 131         | 70     | 107     | 85     | 267               | 67     | 100                   | 84     | 132                   | 75     | 131                | 66     |
| 1982                     | ND          | ND     | 144       | 67     | ND                | ND     | 34        | 66     | 590         | 55     | 448     | 67     | 265               | 62     | 100                   | 73     | 349                   | 57     | 260                | 61     |

Table 3. (Cont..)

| Species<br>Year        | Sabine Lake |        | Galveston |        | East            |        | San Antonio |        | Aransas |        | Corpus Christi |        | Upper Laguna Madre |        | Lower Laguna Madre |        | Coastwide        |        |  |
|------------------------|-------------|--------|-----------|--------|-----------------|--------|-------------|--------|---------|--------|----------------|--------|--------------------|--------|--------------------|--------|------------------|--------|--|
|                        | No./ha      | Length | No./ha    | Length | No./ha          | Length | No./ha      | Length | No./ha  | Length | No./ha         | Length | No./ha             | Length | No./ha             | Length | No./ha           | Length |  |
| <b>Pinfish (cont.)</b> |             |        |           |        |                 |        |             |        |         |        |                |        |                    |        |                    |        |                  |        |  |
| 1983                   | ND          |        | 138       | 65     | 61 <sup>b</sup> | 79     | 115         | 80     | 510     | 49     | 642            | 68     | 25                 | 82     | 211                | 58     | 279 <sup>b</sup> | 64     |  |
| 1984                   | ND          |        | 247       | 59     | 180             | 64     | 107         | 71     | 172     | 66     | 471            | 62     | 146                | 79     | 120                | 77     | 214              | 64     |  |
| 1985                   | ND          |        | 362       | 55     | 401             | 65     | 209         | 71     | 396     | 55     | 676            | 66     | 133                | 68     | 261                | 66     | 280              | 62     |  |
| 1986                   | 64          | 74     | 183       | 61     | 676             | 64     | 117         | 58     | 161     | 66     | 294            | 59     | 245                | 62     | 329                | 63     | 287              | 61     |  |
| 1987                   | 8           | 72     | 50        | 64     | 227             | 57     | 44          | 68     | 412     | 63     | 321            | 67     | 42                 | 56     | 339                | 64     | 206              | 63     |  |
| 1988                   | 7           | 84     | 128       | 61     | 373             | 62     | 43          | 77     | 482     | 63     | 589            | 62     | 312                | 59     | 660                | 60     | 357              | 60     |  |
| 1989                   | 24          | 75     | 182       | 62     | 359             | 58     | 308         | 53     | 607     | 61     | 300            | 63     | 60                 | 70     | 251                | 61     | 254              | 60     |  |
| 1990                   | 37          | 75     | 182       | 58     | 499             | 60     | 251         | 68     | 552     | 52     | 609            | 55     | 392                | 62     | 666                | 60     | 415              | 58     |  |
| 1991                   | 8           | 79     | 138       | 58     | 307             | 60     | 39          | 68     | 248     | 65     | 435            | 63     | 240                | 69     | 696                | 57     | 243              | 61     |  |
| 1992                   | 12          | 73     | 136       | 46     | 371             | 55     | 67          | 49     | 431     | 53     | 545            | 59     | 174                | 59     | 531                | 58     | 293              | 55     |  |
| 1993                   | 27          | 78     | 309       | 49     | 139             | 59     | 150         | 53     | 368     | 60     | 564            | 56     | 307                | 59     | 452                | 60     | 344              | 56     |  |
| 1994                   | 12          | 86     | 164       | 50     | 285             | 66     | 125         | 57     | 174     | 58     | 463            | 58     | 102                | 56     | 358                | 56     | 237              | 57     |  |
| 1995                   | 12          | 86     | 159       | 49     | 284             | 52     | 73          | 51     | 308     | 59     | 333            | 64     | 165                | 59     | 247                | 60     | 212              | 57     |  |
| 1996                   | 77          | 74     | 88        | 51     | 71              | 53     | 35          | 53     | 243     | 50     | 248            | 59     | 755                | 59     | 471                | 54     | 272              | 55     |  |
| <b>Spot</b>            |             |        |           |        |                 |        |             |        |         |        |                |        |                    |        |                    |        |                  |        |  |
| 1977*                  | ND          |        | 56        | 100    | ND              |        | 23          | 118    | 0       | 48     | 2              | 170    | 0                  | 59     | 1                  | 125    | 18               | 105    |  |
| 1978                   | ND          |        | 407       | 52     | ND              |        | 182         | 49     | 361     | 48     | 80             | 55     | 227                | 59     | 149                | 52     | 253              | 51     |  |
| 1979                   | ND          |        | 352       | 42     | ND              |        | 21          | 64     | 201     | 44     | 58             | 60     | 103                | 70     | 57                 | 59     | 156              | 49     |  |
| 1980                   | ND          |        | 269       | 57     | ND              |        | 76          | 56     | 256     | 51     | 101            | 61     | 86                 | 59     | 165                | 48     | 160              | 55     |  |
| 1981                   | ND          |        | 331       | 52     | ND              |        | 154         | 57     | 135     | 64     | 97             | 54     | 115                | 63     | 220                | 67     | 185              | 58     |  |
| 1982                   | ND          |        | 404       | 62     | ND              |        | 143         | 58     | 467     | 52     | 623            | 54     | 180                | 60     | 340                | 66     | 350              | 58     |  |
| 1983                   | ND          |        | 459       | 57     | 50 <sup>b</sup> | 64     | 95          | 58     | 169     | 47     | 350            | 56     | 57                 | 60     | 526                | 63     | 273 <sup>b</sup> | 58     |  |
| 1984                   | ND          |        | 238       | 53     | 96              | 61     | 146         | 58     | 247     | 46     | 659            | 56     | 493                | 66     | 948                | 67     | 433              | 60     |  |
| 1985                   | ND          |        | 179       | 62     | 158             | 59     | 216         | 59     | 274     | 44     | 254            | 64     | 80                 | 77     | 169                | 54     | 197              | 58     |  |
| 1986                   | 118         | 65     | 135       | 68     | 319             | 56     | 825         | 51     | 102     | 58     | 258            | 51     | 114                | 55     | 614                | 54     | 314              | 54     |  |
| 1987                   | 19          | 80     | 264       | 60     | 383             | 60     | 116         | 64     | 203     | 49     | 476            | 58     | 17                 | 70     | 307                | 47     | 239              | 55     |  |
| 1988                   | 44          | 82     | 229       | 69     | 210             | 66     | 173         | 59     | 132     | 54     | 361            | 59     | 212                | 54     | 270                | 59     | 209              | 62     |  |
| 1989                   | 96          | 52     | 87        | 63     | 256             | 58     | 330         | 57     | 264     | 62     | 253            | 53     | 271                | 50     | 151                | 64     | 183              | 58     |  |
| 1990                   | 16          | 70     | 222       | 62     | 525             | 54     | 330         | 57     | 691     | 51     | 566            | 52     | 684                | 57     | 854                | 55     | 525              | 54     |  |
| 1991                   | 22          | 65     | 270       | 56     | 304             | 59     | 131         | 49     | 198     | 69     | 295            | 53     | 174                | 53     | 950                | 51     | 54               | 54     |  |
| 1992                   | 27          | 70     | 211       | 55     | 89              | 61     | 63          | 53     | 194     | 59     | 164            | 53     | 219                | 58     | 347                | 54     | 204              | 54     |  |
| 1993                   | 35          | 80     | 164       | 56     | 288             | 55     | 123         | 53     | 149     | 50     | 185            | 59     | 221                | 62     | 341                | 53     | 197              | 56     |  |
| 1994                   | 55          | 78     | 369       | 49     | 161             | 61     | 99          | 61     | 127     | 56     | 310            | 62     | 66                 | 60     | 369                | 54     | 231              | 55     |  |
| 1995                   | 15          | 104    | 171       | 50     | 199             | 56     | 254         | 49     | 77      | 65     | 191            | 59     | 145                | 59     | 218                | 57     | 184              | 55     |  |
| 1996                   | 185         | 69     | 827       | 43     | 394             | 44     | 340         | 48     | 321     | 50     | 245            | 55     | 223                | 54     | 272                | 56     | 417              | 48     |  |
| <b>Striped mullet</b>  |             |        |           |        |                 |        |             |        |         |        |                |        |                    |        |                    |        |                  |        |  |
| 1977*                  | ND          |        | 31        | 140    | ND              |        | 129         | 106    | 129     | 117    | 27             | 132    | 15                 | 158    | 62                 | 103    | 74               | 126    |  |
| 1978                   | ND          |        | 56        | 120    | ND              |        | 26          | 124    | 126     | 66     | 68             | 103    | 53                 | 94     | 105                | 81     | 74               | 90     |  |
| 1979                   | ND          |        | 135       | 89     | ND              |        | 93          | 99     | 273     | 66     | 152            | 103    | 16                 | 102    | 383                | 53     | 174              | 81     |  |
| 1980                   | ND          |        | 90        | 117    | ND              |        | 15          | 107    | 41      | 121    | 61             | 102    | 57                 | 70     | 95                 | 85     | 61               | 100    |  |
| 1981                   | ND          |        | 229       | 57     | ND              |        | 41          | 92     | 249     | 84     | 205            | 81     | 31                 | 63     | 161                | 98     | 152              | 76     |  |
| 1982                   | ND          |        | 128       | 66     | ND              |        | 553         | 118    | 179     | 77     | 177            | 85     | 29                 | 86     | 43                 | 94     | 174              | 98     |  |
| 1983                   | ND          |        | 85        | 94     | ND              | 104    | 26          | 136    | 57      | 64     | 110            | 106    | 15                 | 99     | 44                 | 84     | 57 <sup>b</sup>  | 94     |  |
| 1984                   | ND          |        | 52        | 95     | 33              | 110    | 34          | 53     | 69      | 73     | 102            | 57     | 154                | 68     | 255                | 96     | 106              | 77     |  |
| 1985                   | ND          |        | 75        | 110    | 199             | 89     | 49          | 92     | 22      | 134    | 95             | 58     | 119                | 81     | 119                | 81     | 106              | 77     |  |
| 1986                   | 84          | 103    | 34        | 134    | 20              | 144    | 23          | 86     | 37      | 193    | 22             | 91     | 22                 | 57     | 41                 | 66     | 35               | 92     |  |
| 1987                   | 48          | 98     | 244       | 75     | 60              | 89     | 33          | 96     | 63      | 115    | 127            | 73     | 94                 | 37     | 72                 | 103    | 116              | 76     |  |
| 1988                   | 42          | 80     | 115       | 115    | 69              | 90     | 44          | 64     | 16      | 116    | 84             | 50     | 64                 | 62     | 27                 | 125    | 74               | 80     |  |
| 1989                   | 41          | 68     | 41        | 96     | 40              | 61     | 24          | 82     | 81      | 147    | 77             | 47     | 61                 | 33     | 78                 | 58     | 55               | 61     |  |
| 1990                   | 63          | 88     | 194       | 71     | 151             | 81     | 21          | 71     | 47      | 100    | 156            | 41     | 283                | 50     | 114                | 89     | 144              | 63     |  |
| 1991                   | 83          | 78     | 234       | 80     | 162             | 78     | 79          | 65     | 283     | 73     | 40             | 88     | 283                | 50     | 44                 | 126    | 133              | 71     |  |
| 1992                   | 23          | 94     | 149       | 79     | 97              | 78     | 132         | 80     | 72      | 81     | 132            | 80     | 50                 | 33     | 44                 | 99     | 95               | 75     |  |
| 1993                   | 74          | 84     | 105       | 83     | 84              | 74     | 133         | 41     | 62      | 71     | 67             | 86     | 133                | 39     | 78                 | 74     | 91               | 71     |  |
| 1994                   | 56          | 75     | 102       | 66     | 29              | 70     | 53          | 75     | 35      | 92     | 62             | 47     | 62                 | 42     | 21                 | 42     | 91               | 57     |  |
| 1995                   | 63          | 99     | 45        | 71     | 23              | 70     | 23          | 70     | 20      | 123    | 57             | 45     | 20                 | 57     | 29                 | 49     | 35               | 68     |  |
| 1996                   | 92          | 70     | 166       | 43     | 217             | 44     | 30          | 67     | 7       | 135    | 17             | 73     | 24                 | 75     | 36                 | 58     | 71               | 52     |  |
| <b>Total finfishes</b> |             |        |           |        |                 |        |             |        |         |        |                |        |                    |        |                    |        |                  |        |  |
| 1977*                  | ND          |        | 959       | 59     | ND              |        | 489         | 88     | 3,106   | 52     | 1,383          | 64     | 2,788              | 60     | 830                | 59     | 1,464            | 61     |  |
| 1978                   | ND          |        | 4,103     | 53     | ND              |        | 4,855       | 67     | 1,671   | 65     | 5,038          | 64     | 1,515              | 66     | 908                | 54     | 3,030            | 61     |  |

Table 3. (Cont.)

| Species<br>Year         | Sabine Lake |        | Galveston |        | East<br>Matagorda  |        | Matagorda |        | San Antonio |        | Aransas |        | Corpus Christi |        | Upper Laguna<br>Madre |        | Lower Laguna<br>Madre |        | Coastwide          |        |
|-------------------------|-------------|--------|-----------|--------|--------------------|--------|-----------|--------|-------------|--------|---------|--------|----------------|--------|-----------------------|--------|-----------------------|--------|--------------------|--------|
|                         | No./ha      | Length | No./ha    | Length | No./ha             | Length | No./ha    | Length | No./ha      | Length | No./ha  | Length | No./ha         | Length | No./ha                | Length | No./ha                | Length | No./ha             | Length |
| Total finfishes (cont.) |             |        |           |        |                    |        |           |        |             |        |         |        |                |        |                       |        |                       |        |                    |        |
| 1979                    | ND          |        | 60        |        | ND                 |        | 1,635     | 71     | 3,375       | 57     | 3,096   | 60     | 2,191          | 70     | 1,354                 | 69     | 2,368                 | 72     | 2,518              | 64     |
| 1980                    | ND          |        | 86        |        | ND                 |        | 632       | 77     | 1,879       | 67     | 1,407   | 68     | 1,490          | 67     | 2,116                 | 63     | 1,070                 | 59     | 5,241              | 82     |
| 1981                    | ND          |        | 63        |        | ND                 |        | 1,093     | 83     | 1,781       | 61     | 2,020   | 66     | 2,213          | 64     | 1,792                 | 58     | 1,267                 | 70     | 2,028              | 65     |
| 1982                    | ND          |        | 68        |        | ND                 |        | 2,077     | 78     | 4,321       | 56     | 5,021   | 57     | 2,596          | 66     | 1,355                 | 54     | 1,342                 | 61     | 4,194              | 65     |
| 1983                    | ND          |        | 71        |        | 2,078 <sup>b</sup> | 63     | 1,857     | 80     | 2,147       | 55     | 4,059   | 63     | 2,160          | 59     | 1,734                 | 61     | 1,378                 | 68     | 3,528 <sup>b</sup> | 68     |
| 1984                    | ND          |        | 59        |        | 1,617              | 66     | 2,625     | 82     | 2,687       | 58     | 3,574   | 62     | 3,353          | 52     | 1,817                 | 60     | 1,906                 | 71     | 3,044              | 60     |
| 1985                    | 69          |        | 63        |        | 1,921              | 68     | 5,152     | 82     | 2,200       | 65     | 2,514   | 60     | 1,389          | 56     | 1,908                 | 55     | 1,458                 | 60     | 2,383              | 68     |
| 1986                    | 3,776       |        | 71        |        | 3,329              | 63     | 14,493    | 73     | 1,849       | 60     | 2,294   | 57     | 841            | 62     | 1,554                 | 51     | 1,672                 | 61     | 4,146              | 66     |
| 1987                    | 1,153       | 67     | 64        |        | 2,484              | 63     | 4,312     | 79     | 1,344       | 65     | 2,030   | 58     | 2,357          | 55     | 1,012                 | 46     | 1,575                 | 60     | 2,073              | 66     |
| 1988                    | 1,143       | 62     | 71        |        | 2,024              | 63     | 913       | 83     | 1,391       | 58     | 3,150   | 54     | 2,344          | 56     | 2,271                 | 50     | 2,144                 | 65     | 2,464              | 63     |
| 1989                    | 1,243       | 62     | 67        |        | 2,057              | 59     | 1,362     | 69     | 1,997       | 62     | 2,079   | 55     | 2,006          | 56     | 2,360                 | 45     | 2,341                 | 56     | 2,020              | 59     |
| 1990                    | 1,319       | 67     | 58        |        | 2,951              | 59     | 2,106     | 68     | 3,470       | 57     | 3,968   | 55     | 3,913          | 52     | 2,993                 | 48     | 2,993                 | 59     | 4,209              | 57     |
| 1991                    | 1,143       | 62     | 62        |        | 3,452              | 63     | 4,982     | 69     | 3,090       | 63     | 2,300   | 59     | 2,273          | 60     | 2,971                 | 50     | 4,012                 | 54     | 4,138              | 61     |
| 1992                    | 1,143       | 56     | 54        |        | 1,924              | 57     | 3,414     | 57     | 4,687       | 53     | 2,622   | 57     | 2,373          | 52     | 2,971                 | 47     | 2,893                 | 55     | 4,188              | 54     |
| 1993                    | 2,526       | 62     | 64        |        | 2,536              | 54     | 1,700     | 60     | 2,284       | 54     | 2,839   | 65     | 2,393          | 53     | 4,103                 | 48     | 2,752                 | 54     | 4,050              | 60     |
| 1994                    | 617         | 62     | 54        |        | 1,538              | 63     | 1,985     | 63     | 1,183       | 60     | 2,496   | 57     | 1,972          | 58     | 2,941                 | 44     | 2,846                 | 50     | 3,126              | 54     |
| 1995                    | 1,350       | 65     | 59        |        | 5,029              | 69     | 1,949     | 58     | 1,555       | 64     | 2,937   | 59     | 1,815          | 57     | 3,602                 | 48     | 3,002                 | 49     | 3,559              | 57     |
| 1996                    | 3,242       | 61     | 54        |        | 2,586              | 52     | 2,693     | 62     | 1,606       | 55     | 1,352   | 60     | 2,171          | 50     | 3,320                 | 46     | 2,214                 | 49     | 3,949              | 54     |
| <b>SHRIMP</b>           |             |        |           |        |                    |        |           |        |             |        |         |        |                |        |                       |        |                       |        |                    |        |
| Blue crab               |             |        |           |        |                    |        |           |        |             |        |         |        |                |        |                       |        |                       |        |                    |        |
| 1977*                   | ND          |        | 43        |        | ND                 |        | 31        | 46     | 51          | 46     | 95      | 56     | 56             | 38     | 16                    | 58     | 8                     | 63     | 56                 | 47     |
| 1978                    | ND          |        | 52        |        | ND                 |        | 10        | 38     | 52          | 51     | 57      | 62     | 33             | 43     | 98                    | 61     | 19                    | 60     | 48                 | 55     |
| 1979                    | ND          |        | 52        |        | ND                 |        | 27        | 51     | 76          | 49     | 84      | 62     | 152            | 43     | 90                    | 48     | 176                   | 46     | 83                 | 51     |
| 1980                    | ND          |        | 54        |        | ND                 |        | 24        | 56     | 119         | 45     | 65      | 52     | 80             | 38     | 65                    | 40     | 176                   | 46     | 95                 | 48     |
| 1981                    | ND          |        | 53        |        | ND                 |        | 43        | 44     | 51          | 54     | 85      | 45     | 86             | 40     | 42                    | 58     | 74                    | 44     | 44                 | 44     |
| 1982                    | ND          |        | 48        |        | ND                 |        | 31        | 51     | 107         | 42     | 193     | 48     | 52             | 49     | 35                    | 54     | 175                   | 42     | 102                | 46     |
| 1983                    | ND          |        | 43        |        | 15                 | 77     | 35        | 34     | 105         | 40     | 145     | 43     | 48             | 40     | 36                    | 59     | 112                   | 33     | 94                 | 41     |
| 1984                    | ND          |        | 58        |        | 58                 | 60     | 46        | 46     | 42          | 46     | 63      | 50     | 62             | 42     | 37                    | 61     | 80                    | 46     | 64                 | 51     |
| 1985                    | ND          |        | 49        |        | 107                | 54     | 56        | 46     | 41          | 42     | 141     | 38     | 184            | 37     | 73                    | 52     | 152                   | 34     | 113                | 42     |
| 1986                    | 37          |        | 55        |        | 86                 | 55     | 53        | 53     | 62          | 46     | 30      | 48     | 77             | 40     | 23                    | 45     | 91                    | 41     | 63                 | 49     |
| 1987                    | 23          | 68     | 41        |        | 87                 | 38     | 36        | 51     | 64          | 55     | 35      | 35     | 80             | 47     | 50                    | 59     | 72                    | 44     | 77                 | 45     |
| 1988                    | 44          | 64     | 46        |        | 138                | 31     | 29        | 36     | 48          | 42     | 34      | 35     | 89             | 44     | 38                    | 43     | 78                    | 37     | 78                 | 42     |
| 1989                    | 50          | 45     | 48        |        | 121                | 30     | 45        | 25     | 74          | 31     | 56      | 34     | 72             | 43     | 22                    | 41     | 31                    | 35     | 59                 | 38     |
| 1990                    | 67          | 47     | 44        |        | 94                 | 46     | 75        | 31     | 98          | 30     | 83      | 35     | 150            | 42     | 37                    | 51     | 68                    | 40     | 94                 | 39     |
| 1991                    | 46          | 56     | 36        |        | 92                 | 44     | 48        | 26     | 198         | 38     | 107     | 35     | 158            | 40     | 49                    | 45     | 107                   | 43     | 117                | 42     |
| 1992                    | 36          | 55     | 36        |        | 54                 | 37     | 45        | 26     | 117         | 30     | 140     | 34     | 164            | 38     | 105                   | 58     | 129                   | 35     | 103                | 37     |
| 1993                    | 36          | 59     | 35        |        | 89                 | 27     | 51        | 23     | 89          | 35     | 652     | 41     | 176            | 42     | 67                    | 55     | 78                    | 36     | 166                | 39     |
| 1994                    | 28          | 51     | 38        |        | 176                | 26     | 96        | 22     | 27          | 34     | 91      | 27     | 210            | 39     | 113                   | 47     | 130                   | 32     | 102                | 34     |
| 1995                    | 43          | 46     | 32        |        | 194                | 27     | 64        | 22     | 32          | 30     | 56      | 34     | 122            | 37     | 62                    | 40     | 97                    | 31     | 102                | 32     |
| 1996                    | 84          | 41     | 35        |        | 136                | 25     | 39        | 27     | 39          | 30     | 38      | 33     | 119            | 33     | 48                    | 39     | 100                   | 27     | 73                 | 33     |
| Brown shrimp            |             |        |           |        |                    |        |           |        |             |        |         |        |                |        |                       |        |                       |        |                    |        |
| 1977*                   | ND          |        | 46        |        | ND                 |        | 64        | 52     | 200         | 49     | 229     | 54     | 99             | 58     | 9                     | 63     | 200                   | 53     | 137                | 51     |
| 1978                    | ND          |        | 50        |        | ND                 |        | 167       | 63     | 102         | 63     | 152     | 60     | 258            | 56     | 188                   | 68     | 120                   | 53     | 245                | 56     |
| 1979                    | ND          |        | 58        |        | ND                 |        | 194       | 66     | 69          | 63     | 438     | 63     | 499            | 61     | 53                    | 59     | 155                   | 59     | 285                | 61     |
| 1980                    | ND          |        | 52        |        | ND                 |        | 143       | 68     | 553         | 60     | 386     | 60     | 183            | 62     | 64                    | 64     | 234                   | 56     | 314                | 58     |
| 1981                    | ND          |        | 57        |        | ND                 |        | 137       | 74     | 310         | 64     | 355     | 60     | 679            | 53     | 102                   | 76     | 1,008                 | 58     | 490                | 59     |
| 1982                    | ND          |        | 64        |        | ND                 |        | 207       | 64     | 599         | 51     | 505     | 54     | 428            | 57     | 62                    | 63     | 565                   | 61     | 510                | 60     |
| 1983                    | ND          |        | 60        |        | ND                 |        | 248       | 66     | 310         | 57     | 740     | 66     | 295            | 56     | 57                    | 65     | 532                   | 50     | 360                | 58     |
| 1984                    | ND          |        | 64        |        | 76                 |        | 197       | 56     | 244         | 66     | 66      | 60     | 291            | 58     | 82                    | 61     | 389                   | 63     | 396                | 64     |
| 1985                    | ND          |        | 60        |        | 413                | 59     | 364       | 67     | 306         | 56     | 755     | 61     | 370            | 55     | 288                   | 70     | 1,007                 | 56     | 525                | 59     |
| 1986                    | 605         | 74     | 58        |        | 558                | 63     | 524       | 67     | 137         | 65     | 231     | 63     | 204            | 58     | 193                   | 66     | 827                   | 54     | 318                | 62     |
| 1987                    | 401         | 70     | 58        |        | 387                | 56     | 445       | 64     | 158         | 60     | 464     | 63     | 293            | 60     | 193                   | 66     | 961                   | 58     | 416                | 59     |
| 1988                    | 248         | 61     | 62        |        | 570                | 57     | 208       | 61     | 206         | 53     | 394     | 64     | 293            | 64     | 156                   | 73     | 461                   | 62     | 416                | 63     |
| 1989                    | 110         | 70     | 59        |        | 889                | 56     | 369       | 54     | 739         | 55     | 726     | 51     | 522            | 54     | 167                   | 58     | 411                   | 59     | 493                | 56     |
| 1990                    | 127         | 68     | 56        |        | 723                | 61     | 477       | 61     | 482         | 56     | 1,005   | 60     | 592            | 62     | 77                    | 74     | 2,128                 | 59     | 694                | 59     |
| 1991                    | 14          | 68     | 57        |        | 790                | 61     | 453       | 60     | 624         | 56     | 511     | 67     | 660            | 70     | 248                   | 56     | 1,064                 | 63     | 591                | 61     |
| 1992                    | 245         | 71     | 57        |        | 455                | 55     | 270       | 52     | 726         | 52     | 455     | 62     | 629            | 58     | 328                   | 62     | 826                   | 55     | 565                | 57     |
| 1993                    | 102         | 63     | 58        |        | 560                | 54     | 232       | 55     | 321         | 54     | 568     | 64     | 636            | 59     | 279                   | 58     | 891                   | 59     | 482                | 59     |
| 1994                    | 302         | 62     | 60        |        | 480                | 56     | 403       | 61     | 165         | 57     | 513     | 62     | 713            | 63     | 239                   | 58     | 841                   | 59     | 477                | 60     |

Table 3. (Cont.)

| Species<br>Year      | Sabine Lake |        | Galveston |        | East<br>Matagorda |        | Matagorda |        | San Antonio |        | Aransas |        | Corpus<br>Christi |        | Upper Laguna<br>Madre |        | Lower Laguna<br>Madre |        | Coastwide |        |  |
|----------------------|-------------|--------|-----------|--------|-------------------|--------|-----------|--------|-------------|--------|---------|--------|-------------------|--------|-----------------------|--------|-----------------------|--------|-----------|--------|--|
|                      | No./ha      | Length | No./ha    | Length | No./ha            | Length | No./ha    | Length | No./ha      | Length | No./ha  | Length | No./ha            | Length | No./ha                | Length | No./ha                | Length | No./ha    | Length |  |
| Brown shrimp (cont.) |             |        |           |        |                   |        |           |        |             |        |         |        |                   |        |                       |        |                       |        |           |        |  |
| 1995                 | 83          | 68     | 331       | 54     | 392               | 50     | 344       | 57     | 290         | 57     | 359     | 57     | 498               | 60     | 477                   | 59     | 728                   | 59     | 406       | 57     |  |
| 1996                 | 1,164       | 65     | 363       | 58     | 419               | 52     | 277       | 55     | 382         | 55     | 386     | 60     | 266               | 58     | 273                   | 56     | 518                   | 56     | 390       | 58     |  |
| Pink shrimp          |             |        |           |        |                   |        |           |        |             |        |         |        |                   |        |                       |        |                       |        |           |        |  |
| 1977                 | ND          |        | 0         |        | ND                |        | 0         |        | 12          | 41     | 0       |        | 0                 |        | 48                    | 77     | 0                     |        | 7         | 69     |  |
| 1978                 | ND          |        | 0         |        | ND                |        | 0         |        | <1          | 100    | <1      | 63     | 0                 |        | 26                    | 77     | 0                     |        | 3         | 77     |  |
| 1979                 | ND          |        | 0         |        | ND                |        | 0         |        | 0           |        | 0       |        | 58                | 51     | 12                    | 78     | <1                    | 106    | 7         | 57     |  |
| 1980                 | ND          |        | 0         |        | ND                |        | 0         |        | 6           | 51     | 13      | 50     | 58                | 55     | 10                    | 60     | 2                     | 75     | 10        | 55     |  |
| 1981                 | ND          |        | 0         |        | ND                |        | 0         |        | 28          | 54     | 87      | 44     | 67                | 54     | 8                     | 62     | 5                     | 49     | 24        | 49     |  |
| 1982                 | ND          |        | 0         |        | ND                |        | 0         |        | 0           |        | 124     | 47     | 67                | 46     | 7                     | 61     | 3                     | 52     | 25        | 48     |  |
| 1983                 | ND          |        | 0         |        | ND                |        | 0         |        | 9           | 51     | 50      | 56     | 31                | 47     | 12                    | 54     | 0                     |        | 12        | 53     |  |
| 1984                 | ND          |        | 0         |        | 0                 |        | <1        | 25     | 1           | 73     | 16      | 48     | 26                | 48     | 14                    | 65     | <1                    | 79     | 6         | 53     |  |
| 1985                 | ND          |        | 0         |        | 0                 |        | 0         |        | 0           |        | 17      | 59     | 7                 | 49     | 8                     | 76     | 0                     |        | 4         | 61     |  |
| 1986                 | 0           |        | 0         |        | <1                | 73     | 0         |        | <1          | 68     | 11      | 39     | 25                | 49     | 6                     | 43     | 3                     | 65     | 5         | 46     |  |
| 1987                 | 0           |        | 0         |        | 0                 |        | <1        | 32     | 0           |        | 11      | 52     | 60                | 52     | 14                    | 50     | 0                     |        | 8         | 52     |  |
| 1988                 | 0           |        | 0         |        | 0                 |        | 0         |        | <1          | 38     | 135     | 49     | 106               | 50     | <1                    | 55     | 6                     | 54     | 28        | 50     |  |
| 1989                 | 0           |        | 0         |        | 0                 |        | 0         |        | 1           | 52     | 45      | 42     | 64                | 46     | 20                    | 59     | 0                     |        | 14        | 47     |  |
| 1990                 | 0           |        | 0         |        | <1                | 131    | <1        | 72     | <1          | 36     | 99      | 49     | 106               | 48     | 4                     | 48     | 15                    | 51     | 25        | 49     |  |
| 1991                 | 0           |        | 0         |        | <1                | 142    | 0         |        | <1          | 110    | 61      | 52     | 25                | 46     | 31                    | 42     | 1                     | 52     | 14        | 49     |  |
| 1992                 | 0           |        | <1        | 59     | 0                 |        | 0         |        | 1           | 40     | 32      | 53     | 77                | 54     | 38                    | 55     | 176                   | 59     | 38        | 57     |  |
| 1993                 | 0           |        | <1        | 34     | 0                 |        | 0         |        | 1           | 44     | 58      | 47     | 53                | 50     | 32                    | 55     | 140                   | 56     | 34        | 53     |  |
| 1994                 | 0           |        | 2         | 40     | 52                | 56     | 3         | 38     | <1          | 35     | 103     | 49     | 150               | 53     | 9                     | 39     | 235                   | 59     | 61        | 54     |  |
| 1995                 | 0           |        | 1         | 37     | 16                | 41     | 5         | 33     | 4           | 46     | 88      | 50     | 53                | 50     | 7                     | 45     | 179                   | 57     | 42        | 53     |  |
| 1996                 | 0           |        | 0         |        | <1                | 32     | <1        | 35     | 17          | 54     | 35      | 53     | 25                | 52     | 24                    | 51     | 154                   | 56     | 31        | 55     |  |
| White shrimp         |             |        |           |        |                   |        |           |        |             |        |         |        |                   |        |                       |        |                       |        |           |        |  |
| 1977                 | ND          |        | 1,586     | 55     | ND                |        | 1,054     | 102    | 115         | 47     | 26      | 63     | 84                | 57     | 36                    | 85     | 23                    |        | 553       | 69     |  |
| 1978                 | ND          |        | 858       | 66     | ND                |        | 554       | 70     | 130         | 61     | 92      | 49     | 62                | 52     | 21                    | 55     | 130                   |        | 335       | 65     |  |
| 1979                 | ND          |        | 1,720     | 61     | ND                |        | 543       | 70     | 212         | 56     | 99      | 64     | 817               | 52     | 5                     | 53     | 143                   |        | 608       | 61     |  |
| 1980                 | ND          |        | 1,571     | 64     | ND                |        | 522       | 68     | 291         | 57     | 133     | 61     | 141               | 69     | 62                    | 71     | 18                    |        | 288       | 64     |  |
| 1981                 | ND          |        | 1,393     | 62     | ND                |        | 805       | 59     | 66          | 64     | 183     | 50     | 173               | 51     | 19                    | 56     | 264                   |        | 61        | 60     |  |
| 1982                 | ND          |        | 3,560     | 58     | ND                |        | 1,750     | 64     | 650         | 51     | 297     | 43     | 369               | 54     | 14                    | 51     | 326                   |        | 50        | 58     |  |
| 1983                 | ND          |        | 1,524     | 50     | 348               | 70     | 1,394     | 65     | 135         | 64     | 129     | 53     | 135               | 42     | 17                    | 58     | 218                   |        | 52        | 53     |  |
| 1984                 | ND          |        | 1,557     | 59     | 409               | 65     | 1,438     | 71     | 166         | 56     | 415     | 53     | 311               | 63     | 17                    | 58     | 625                   |        | 58        | 628    |  |
| 1985                 | ND          |        | 307       | 61     | 552               | 61     | 584       | 63     | 37          | 44     | 239     | 44     | 33                | 53     | 6                     | 73     | 204                   |        | 54        | 58     |  |
| 1986                 | 308         | 73     | 1,389     | 62     | 173               | 65     | 675       | 66     | 140         | 66     | 287     | 44     | 101               | 58     | 2                     | 48     | 175                   |        | 49        | 61     |  |
| 1987                 | 682         | 68     | 972       | 53     | 577               | 61     | 579       | 67     | 90          | 54     | 111     | 65     | 152               | 61     | 7                     | 37     | 121                   |        | 61        | 58     |  |
| 1988                 | 796         | 63     | 482       | 66     | 429               | 66     | 341       | 68     | 168         | 52     | 425     | 47     | 155               | 61     | 73                    | 51     | 534                   |        | 73        | 63     |  |
| 1989                 | 615         | 61     | 559       | 55     | 76                | 59     | 384       | 78     | 145         | 52     | 631     | 60     | 372               | 59     | 2                     | 68     | 194                   |        | 54        | 60     |  |
| 1990                 | 425         | 65     | 1,698     | 54     | 690               | 57     | 451       | 63     | 335         | 58     | 821     | 50     | 537               | 67     | 35                    | 40     | 368                   |        | 49        | 55     |  |
| 1991                 | 385         | 71     | 1,723     | 50     | 273               | 51     | 624       | 58     | 236         | 55     | 361     | 71     | 445               | 62     | 77                    | 49     | 381                   |        | 61        | 55     |  |
| 1992                 | 463         | 68     | 924       | 54     | 264               | 62     | 643       | 60     | 115         | 68     | 211     | 71     | 167               | 66     | 32                    | 58     | 85                    |        | 52        | 58     |  |
| 1993                 | 324         | 68     | 526       | 56     | 449               | 62     | 585       | 61     | 132         | 68     | 96      | 56     | 876               | 69     | 137                   | 58     | 750                   |        | 60        | 61     |  |
| 1994                 | 510         | 73     | 985       | 53     | 618               | 55     | 512       | 62     | 327         | 63     | 447     | 64     | 395               | 71     | 55                    | 55     | 200                   |        | 59        | 59     |  |
| 1995                 | 789         | 70     | 563       | 53     | 613               | 57     | 607       | 60     | 368         | 75     | 218     | 57     | 268               | 70     | 19                    | 51     | 378                   |        | 57        | 60     |  |
| 1996                 | 824         | 61     | 746       | 55     | 439               | 63     | 455       | 62     | 248         | 54     | 94      | 60     | 216               | 71     | 13                    | 51     | 356                   |        | 55        | 58     |  |

Data for October - December only.  
East Matagorda Bay data are only for February-September 1983. Coastwide values do not include East Matagorda Bay data.

Table 4. Annual mean catch rate (No./h) and mean total lengths (mm) of select fishes and shellfishes caught with 6.1-m trawls in Texas bay systems during 1982-96. Blank indicates no measurement taken; ND = no data.

| Species                    | Year | Sabine Lake |                 | Galveston |                 | East Matagorda |        | San Antonio |        | Aransas Christi |        | Upper Laguna Madre |        | Lower Laguna Madre |        | Coastwide |        |
|----------------------------|------|-------------|-----------------|-----------|-----------------|----------------|--------|-------------|--------|-----------------|--------|--------------------|--------|--------------------|--------|-----------|--------|
|                            |      | No./h       | Length          | No./h     | Length          | No./h          | Length | No./h       | Length | No./h           | Length | No./h              | Length | No./h              | Length | No./h     | Length |
| <b>FINFISHES</b>           |      |             |                 |           |                 |                |        |             |        |                 |        |                    |        |                    |        |           |        |
| <b>Atlantic croaker</b>    |      |             |                 |           |                 |                |        |             |        |                 |        |                    |        |                    |        |           |        |
| 1982 <sup>a</sup>          | ND   | 43          | ND              | ND        | ND              | ND             | ND     | ND          | ND     | 75              | 110    | ND                 | ND     | 28                 | ND     | 62        | 75     |
| 1983                       | ND   | 30          | 131             | ND        | 117             | 31             | 117    | 18          | 110    | 44              | 106    | 15                 | 157    | 32                 | 154    | 30        | 127    |
| 1984                       | ND   | 15          | 126             | ND        | 104             | 30             | 104    | 22          | 87     | 52              | 83     | 15                 | 137    | 44                 | 138    | 35        | 119    |
| 1985                       | ND   | 20          | 184             | ND        | 110             | 41             | 110    | 17          | 105    | 33              | 101    | 13                 | 151    | 24                 | 148    | 27        | 112    |
| 1986                       | ND   | 157         | 139             | ND        | 123             | 52             | 123    | 44          | 105    | 57              | 96     | 14                 | 139    | 28                 | 153    | 43        | 117    |
| 1987                       | 25   | 139         | 17 <sup>c</sup> | 133       | 126             | 126            | 103    | 146         | 96     | 87              | 100    | 7                  | 152    | 44                 | 122    | 70        | 106    |
| 1988                       | 45   | 135         | 98              | 13        | 131             | 43             | 121    | 90          | 109    | 100             | 102    | 5                  | 137    | 21                 | 138    | 55        | 109    |
| 1989                       | 45   | 115         | 36              | 4         | 98              | 75             | 120    | 88          | 102    | 71              | 99     | 2                  | 158    | 19                 | 131    | 52        | 115    |
| 1990                       | 40   | 113         | 36              | 12        | 113             | 79             | 118    | 50          | 97     | 45              | 92     | 12                 | 129    | 66                 | 123    | 50        | 112    |
| 1991                       | 31   | 115         | 41              | 8         | 135             | 106            | 106    | 175         | 93     | 223             | 93     | 14                 | 127    | 34                 | 132    | 94        | 103    |
| 1992                       | 40   | 139         | 54              | 4         | 120             | 211            | 100    | 155         | 84     | 238             | 87     | 17                 | 140    | 37                 | 140    | 112       | 98     |
| 1993                       | 70   | 131         | 90              | 15        | 128             | 120            | 104    | 48          | 104    | 123             | 98     | 2                  | 141    | 27                 | 141    | 79        | 106    |
| 1994                       | 34   | 144         | 73              | 17        | 148             | 99             | 116    | 146         | 78     | 55              | 106    | 2                  | 137    | 21                 | 147    | 72        | 106    |
| 1995                       | 22   | 117         | 87              | 24        | 123             | 108            | 103    | 88          | 99     | 87              | 117    | 2                  | 162    | 51                 | 146    | 64        | 106    |
| 1996                       | 51   | 120         | 68              | 16        | 111             | 54             | 118    | 26          | 113    | 60              | 108    | 7                  | 140    | 59                 | 150    | 52        | 114    |
| <b>Black drum</b>          |      |             |                 |           |                 |                |        |             |        |                 |        |                    |        |                    |        |           |        |
| 1982 <sup>a</sup>          | ND   | <1          | 259             | ND        | 0               | 0              | 199    | <1          | 221    | <1              | 166    | 2                  | 235    | 0                  | 264    | <1        | 238    |
| 1983                       | ND   | <1          | 274             | ND        | <1              | <1             | 192    | <1          | 192    | <1              | 201    | 1                  | 347    | <1                 | 266    | <1        | 283    |
| 1984                       | ND   | <1          | 168             | ND        | 0               | 0              | 0      | 0           | 0      | <1              | 251    | <1                 | 341    | <1                 | 202    | <1        | 288    |
| 1985                       | ND   | <1          | 242             | ND        | 0               | 0              | 0      | 0           | 0      | <1              | 403    | <1                 | 334    | 0                  | 280    | <1        | 268    |
| 1986                       | <1   | 226         | <1              | 233       | 0               | 0              | 0      | 0           | 200    | 0               | 0      | <1                 | 186    | <1                 | 247    | <1        | 231    |
| 1987                       | <1   | 278         | <1              | 246       | 0               | 0              | 170    | <1          | 154    | <1              | 204    | <1                 | 299    | 0                  | 197    | <1        | 256    |
| 1988                       | 1    | 271         | <1              | 271       | <1              | 192            | 0      | <1          | 267    | <1              | 170    | 2                  | 356    | <1                 | 212    | <1        | 258    |
| 1989                       | 2    | 260         | <1              | 274       | <1              | <1             | 930    | <1          | 114    | <1              | 173    | 97                 | 109    | <1                 | 169    | 5         | 115    |
| 1990                       | 1    | 272         | <1              | 254       | <1              | <1             | 0      | <1          | 194    | <1              | 247    | 71                 | 109    | <1                 | 229    | 4         | 160    |
| 1991                       | 2    | 288         | <1              | 313       | 1               | 218            | 0      | <1          | 212    | <1              | 183    | 10                 | 170    | 1                  | 229    | 1         | 236    |
| 1992                       | 2    | 320         | <1              | 210       | <1              | <1             | 280    | <1          | 282    | <1              | 223    | 3                  | 359    | <1                 | 233    | 1         | 236    |
| 1993                       | 3    | 283         | <1              | 275       | <1              | 309            | 0      | <1          | 379    | <1              | 223    | 3                  | 291    | <1                 | 357    | <1        | 297    |
| 1994                       | 2    | 324         | <1              | 291       | 1               | 259            | <1     | <1          | 184    | <1              | 259    | <1                 | 401    | <1                 | 360    | <1        | 301    |
| 1995                       | 1    | 306         | <1              | 229       | 1               | 257            | 0      | 1           | 221    | <1              | 346    | 3                  | 325    | 0                  | 408    | <1        | 301    |
| 1996                       | 2    | 292         | <1              | 359       | 1               | 314            | 0      | 2           | 271    | <1              | 565    | <1                 | 325    | <1                 | 397    | 1         | 283    |
| <b>Garftopsall catfish</b> |      |             |                 |           |                 |                |        |             |        |                 |        |                    |        |                    |        |           |        |
| 1982 <sup>a</sup>          | ND   | <1          | ND              | ND        | 4               | 4              | ND     | 3           | ND     | 3               | ND     | 1                  | 138    | 0                  | 193    | 2         | 141    |
| 1983                       | ND   | <1          | 137             | ND        | 1               | 1              | 132    | 2           | 123    | 2               | 135    | <1                 | 175    | 0                  | 0      | 1         | 133    |
| 1984                       | ND   | <1          | 139             | ND        | 1               | 1              | 144    | 5           | 121    | 2               | 109    | <1                 | 218    | <1                 | 131    | 1         | 126    |
| 1985                       | ND   | <1          | 154             | ND        | 2               | 2              | 137    | 2           | 128    | 3               | 128    | 1                  | 150    | <1                 | 196    | 1         | 134    |
| 1986                       | 0    | 174         | 1               | 126       | 2               | 2              | 134    | 5           | 128    | 2               | 121    | <1                 | 192    | 0                  | 158    | 1         | 128    |
| 1987                       | <1   | 145         | 1 <sup>c</sup>  | 145       | 1               | 1              | 138    | 9           | 122    | 2               | 124    | <1                 | 132    | <1                 | 183    | 2         | 127    |
| 1988                       | 0    | 199         | <1              | 149       | 3               | 3              | 14     | 3           | 131    | 3               | 127    | <1                 | 14     | 0                  | 0      | 1         | 124    |
| 1989                       | <1   | 126         | <1              | 126       | 1               | 1              | 134    | 4           | 136    | 4               | 139    | 0                  | 156    | 0                  | 0      | 1         | 137    |
| 1990                       | 0    | 199         | 1               | 127       | 1               | 1              | 137    | 4           | 130    | 2               | 143    | <1                 | 173    | 0                  | 0      | 1         | 159    |
| 1991                       | 0    | 215         | 1               | 145       | 2               | 2              | 145    | 5           | 127    | 3               | 141    | <1                 | 206    | 0                  | 0      | 2         | 137    |
| 1992                       | <1   | 144         | <1              | 161       | 2               | 2              | 125    | 5           | 132    | 10              | 117    | <1                 | 126    | <1                 | 203    | 2         | 127    |
| 1993                       | 0    | 199         | 1               | 139       | 2               | 2              | 129    | 4           | 123    | 4               | 118    | <1                 | 180    | <1                 | 185    | 2         | 133    |
| 1994                       | 0    | 127         | <1              | 127       | 2               | 2              | 129    | 3           | 119    | 2               | 145    | <1                 | 180    | 0                  | 181    | 2         | 131    |
| 1995                       | <1   | 275         | 2               | 139       | 1               | 1              | 137    | 4           | 129    | 3               | 142    | 1                  | 200    | <1                 | 207    | 2         | 141    |
| 1996                       | <1   | 289         | <1              | 167       | 2               | 2              | 129    | 1           | 141    | 1               | 153    | <1                 | 225    | <1                 | 185    | 1         | 145    |
| <b>Gulf menhaden</b>       |      |             |                 |           |                 |                |        |             |        |                 |        |                    |        |                    |        |           |        |
| 1982 <sup>a</sup>          | ND   | 12          | ND              | ND        | 10              | 10             | ND     | 11          | ND     | 24              | ND     | 2                  | ND     | <1                 | ND     | 10        | ND     |
| 1983                       | ND   | 7           | 103             | ND        | 10              | 10             | 109    | 17          | 76     | 3               | 89     | 3                  | 104    | 0                  | 87     | 8         | 96     |
| 1984                       | ND   | 3           | 98              | ND        | 3               | 3              | 93     | 23          | 58     | 45              | 44     | 4                  | 82     | <1                 | 76     | 9         | 61     |
| 1985                       | ND   | 18          | 112             | ND        | 10              | 10             | 109    | 27          | 79     | 12              | 92     | 2                  | 119    | 0                  | 106    | 14        | 101    |
| 1986                       | <1   | 121         | 17              | 95        | 4               | 4              | 79     | 18          | 64     | 8               | 55     | 1                  | 156    | 0                  | 49     | 9         | 84     |
| 1987                       | 3    | 101         | 20              | 95        | 15 <sup>c</sup> | 15             | 101    | 34          | 77     | 22              | 62     | 1                  | 128    | 0                  | 92     | 16        | 88     |
| 1988                       | 3    | 94          | 22              | 80        | 1               | 1              | 96     | 11          | 99     | 4               | 106    | 1                  | 124    | <1                 | 110    | 13        | 88     |
| 1989                       | 3    | 79          | 14              | 107       | 7               | 7              | 97     | 21          | 103    | 3               | 65     | 7                  | 115    | <1                 | 58     | 9         | 105    |
| 1990                       | 5    | 68          | 11              | 94        | 2               | 2              | 94     | 24          | 85     | 19              | 102    | 2                  | 97     | <1                 | 85     | 11        | 95     |
| 1991                       | 6    | 83          | 21              | 87        | 4               | 4              | 121    | 34          | 92     | 16              | 88     | 2                  | 111    | <1                 | 111    | 10        | 91     |
| 1992                       | 2    | 95          | 22              | 103       | 31              | 31             | 103    | 17          | 94     | 38              | 87     | 3                  | 102    | <1                 | 107    | 17        | 91     |

Table 4. (Cont.)

| Species               | Sabine Lake |        | Galveston      |        | East Matagorda |        | Matagorda |        | San Antonio |        | Arkansas |        | Corpus Christi |        | Upper Laguna Madre |        | Lower Laguna Madre |        | Coastwide <sup>a</sup> |        |  |
|-----------------------|-------------|--------|----------------|--------|----------------|--------|-----------|--------|-------------|--------|----------|--------|----------------|--------|--------------------|--------|--------------------|--------|------------------------|--------|--|
|                       | No./h       | Length | No./h          | Length | No./h          | Length | No./h     | Length | No./h       | Length | No./h    | Length | No./h          | Length | No./h              | Length | No./h              | Length | No./h                  | Length |  |
| Gulf menhaden (cont.) |             |        |                |        |                |        |           |        |             |        |          |        |                |        |                    |        |                    |        |                        |        |  |
| 1993                  | 79          |        | 39             | 84     | 5              | 44     | 10        | 104    | 12          | 68     | 16       | 75     | 4              | 98     | <1                 | 119    | <1                 | 136    | 18                     | 85     |  |
| 1994                  | 84          |        | 30             | 91     | 4              | 46     | 7         | 120    | 13          | 74     | 3        | 117    | 5              | 91     | <1                 | 187    | <1                 | 132    | 14                     | 93     |  |
| 1995                  | 68          |        | 23             | 103    | 2              | 48     | 3         | 105    | 19          | 45     | 7        | 71     | 2              | 131    | <1                 | 108    | <1                 | 126    | 11                     | 90     |  |
| 1996                  | 55          |        | 14             | 101    | 29             | 33     | 6         | 91     | 8           | 79     | 41       | 37     | 2              | 111    | <1                 | 74     | <1                 | 141    | 11                     | 76     |  |
| Pinfish               |             |        |                |        |                |        |           |        |             |        |          |        |                |        |                    |        |                    |        |                        |        |  |
| 1982*                 | ND          |        | 1              | ND     | ND             |        | 7         | ND     | 5           | ND     | 2        | ND     | 85             | ND     | 44                 | ND     | 39                 | ND     | 19                     | ND     |  |
| 1983                  | ND          |        | 1              | 121    | ND             |        | 6         | 110    | 14          | 106    | 38       | 106    | 119            | 124    | 20                 | 133    | 45                 | 109    | 24                     | 119    |  |
| 1984                  | ND          |        | 1              | 121    | ND             |        | 6         | 107    | 7           | 96     | 39       | 96     | 25             | 113    | 67                 | 108    | 73                 | 111    | 15                     | 107    |  |
| 1985                  | ND          |        | 1              | 120    | ND             |        | 9         | 111    | 23          | 104    | 53       | 110    | 48             | 118    | 18                 | 133    | 48                 | 110    | 18                     | 113    |  |
| 1986                  | 4           | 117    | 2              | 118    | ND             |        | 10        | 101    | 18          | 98     | 55       | 103    | 100            | 116    | 32                 | 109    | 95                 | 108    | 27                     | 109    |  |
| 1987                  | <1          |        | 1              | 122    | 5 <sup>c</sup> | 113    | 13        | 103    | 32          | 121    | 83       | 106    | 130            | 121    | 12                 | 131    | 136                | 113    | 32                     | 112    |  |
| 1988                  | 4           | 126    | 1              | 114    | 5              | 107    | 18        | 111    | 139         | 100    | 272      | 115    | 20             | 112    | 65                 | 100    | 65                 | 100    | 59                     | 109    |  |
| 1989                  | 1           | 117    | 2              | 121    | 9              | 98     | 16        | 113    | 53          | 103    | 82       | 103    | 117            | 16     | 110                | 81     | 104                | 104    | 75                     | 114    |  |
| 1990                  | 1           | 109    | 5              | 107    | 34             | 103    | 34        | 109    | 64          | 101    | 109      | 101    | 184            | 107    | 104                | 77     | 282                | 101    | 61                     | 102    |  |
| 1991                  | 3           | 111    | 4              | 120    | 8              | 100    | 6         | 116    | 26          | 102    | 32       | 109    | 247            | 111    | 81                 | 105    | 278                | 107    | 52                     | 109    |  |
| 1992                  | 1           | 111    | 2              | 127    | 1              | 112    | 5         | 112    | 10          | 103    | 23       | 101    | 159            | 110    | 48                 | 117    | 130                | 109    | 31                     | 110    |  |
| 1993                  | 3           | 119    | 4              | 114    | 3              | 110    | 5         | 103    | 34          | 102    | 91       | 106    | 136            | 117    | 46                 | 105    | 139                | 103    | 37                     | 110    |  |
| 1994                  | 1           | 128    | 9              | 109    | 2              | 125    | 9         | 101    | 27          | 103    | 39       | 118    | 77             | 127    | 42                 | 114    | 97                 | 106    | 26                     | 115    |  |
| 1995                  | <1          |        | 2              | 137    | 2              | 119    | 6         | 106    | 38          | 97     | 69       | 114    | 138            | 127    | 25                 | 115    | 116                | 105    | 34                     | 117    |  |
| 1996                  | 17          | 131    | 3              | 107    | 4              | 114    | 4         | 106    | 19          | 106    | 52       | 106    | 164            | 120    | 55                 | 83     | 108                | 105    | 35                     | 112    |  |
| Red drum              |             |        |                |        |                |        |           |        |             |        |          |        |                |        |                    |        |                    |        |                        |        |  |
| 1982*                 | ND          |        | 0              |        | ND             |        | <1        | ND     | <1          | 230    | <1       | 102    | <1             | 649    | <1                 | 619    | 0                  | 280    | <1                     | 402    |  |
| 1983                  | ND          |        | 0              |        | ND             |        | 0         | 319    | <1          | 319    | <1       | 224    | 0              | 280    | <1                 | 0      | <1                 | 401    | <1                     | 304    |  |
| 1984                  | ND          |        | <1             | 583    | ND             |        | <1        | 344    | <1          | 344    | <1       | 142    | <1             | 81     | <1                 | 241    | <1                 | 90     | <1                     | 292    |  |
| 1985                  | ND          |        | 0              |        | ND             |        | 0         | 56     | <1          | 35     | <1       | 78     | 0              | 276    | <1                 | 630    | <1                 | 340    | <1                     | 289    |  |
| 1986                  | <1          | 212    | 0              |        | ND             |        | 0         | 0      | <1          | 0      | <1       | 0      | <1             | 399    | <1                 | 0      | 0                  | 0      | <1                     | 134    |  |
| 1987                  | <1          | 405    | <1             | 34     | 0 <sup>c</sup> | 0      | <1        | 0      | 0           | 0      | <1       | 23     | 0              | 525    | <1                 | <1     | <1                 | 308    | <1                     | 72     |  |
| 1988                  | <1          | 272    | <1             | 53     | 0              | 0      | <1        | 42     | 0           | 0      | 0        | 0      | 0              | 68     | <1                 | 40     | <1                 | 342    | <1                     | 72     |  |
| 1989                  | <1          | 254    | <1             | 44     | 0              | 0      | 0         | 0      | <1          | 53     | 0        | 0      | 0              | 264    | <1                 | 383    | <1                 | 256    | <1                     | 211    |  |
| 1990                  | 0           |        | <1             | 320    | 0              | 0      | <1        | 0      | <1          | 75     | <1       | 0      | <1             | 117    | 0                  | 415    | <1                 | 271    | <1                     | 207    |  |
| 1991                  | 0           |        | <1             | 135    | 0              | 0      | <1        | 63     | <1          | 349    | <1       | 369    | 0              | 0      | <1                 | 303    | <1                 | 303    | <1                     | 306    |  |
| 1992                  | 0           |        | <1             | 197    | 0              | 0      | <1        | 0      | <1          | 250    | <1       | 412    | 0              | 0      | <1                 | 271    | <1                 | 271    | <1                     | 306    |  |
| 1993                  | <1          | 575    | 0              |        | <1             | 360    | 0         | 0      | <1          | 170    | <1       | 70     | 0              | 188    | <1                 | 125    | <1                 | 329    | <1                     | 306    |  |
| 1994                  | 0           |        | <1             | 433    | 0              | 72     | 0         | 0      | <1          | 281    | 0        | 0      | <1             | 0      | <1                 | 320    | <1                 | 382    | <1                     | 306    |  |
| 1995                  | <1          | 246    | 0              |        | 0              | 0      | 0         | 0      | <1          | 93     | <1       | 436    | <1             | 224    | <1                 | 330    | <1                 | 266    | <1                     | 227    |  |
| 1996                  | 0           |        | 0              |        | <1             | 400    | 0         | 0      | <1          | 93     | <1       | 436    | <1             | 224    | <1                 | 330    | <1                 | 266    | <1                     | 227    |  |
| Sand seatrout         |             |        |                |        |                |        |           |        |             |        |          |        |                |        |                    |        |                    |        |                        |        |  |
| 1982*                 | ND          |        | 4              |        | ND             |        | 5         | 185    | <1          | 141    | 3        | 126    | 14             | 147    | 1                  | 201    | 6                  | 164    | 5                      | 161    |  |
| 1983                  | ND          |        | 3              | 134    | ND             |        | 4         | 132    | <1          | 108    | 3        | 111    | 9              | 158    | <1                 | 196    | 1                  | 164    | 3                      | 140    |  |
| 1984                  | ND          |        | 2              | 147    | ND             |        | 1         | 121    | <1          | 115    | 1        | 107    | 4              | 141    | 0                  | 0      | 1                  | 161    | 1                      | 138    |  |
| 1985                  | ND          |        | 4              | 127    | ND             |        | 3         | 126    | <1          | 136    | 1        | 119    | 7              | 144    | 1                  | 160    | 1                  | 117    | 3                      | 131    |  |
| 1986                  | 1           | 152    | 3              | 141    | ND             |        | 2         | 117    | <1          | 112    | <1       | 133    | 5              | 148    | 0                  | 0      | <1                 | 154    | 2                      | 137    |  |
| 1987                  | 2           | 121    | 3              | 110    | 2              | 112    | 5         | 114    | 1           | 99     | 1        | 94     | 9              | 134    | <1                 | 156    | <1                 | 160    | 3                      | 118    |  |
| 1988                  | 1           | 140    | 3              | 107    | 2              | 117    | 2         | 126    | <1          | 123    | 2        | 107    | 3              | 125    | <1                 | 109    | <1                 | 128    | 2                      | 115    |  |
| 1989                  | 2           | 102    | 10             | 96     | <1             | 117    | 3         | 111    | 1           | 110    | 4        | 85     | 12             | 143    | 0                  | 2      | 2                  | 152    | 6                      | 109    |  |
| 1990                  | 1           | 110    | 5              | 109    | 1              | 96     | 3         | 119    | <1          | 117    | 1        | 113    | 3              | 124    | 0                  | 0      | 2                  | 102    | 3                      | 113    |  |
| 1991                  | 1           | 118    | 7              | 130    | 1              | 103    | 2         | 123    | 1           | 119    | 4        | 128    | 5              | 143    | 0                  | 2      | 2                  | 140    | 4                      | 130    |  |
| 1992                  | 2           | 113    | 6              | 113    | <1             | 113    | 6         | 113    | 2           | 104    | 4        | 128    | 2              | 142    | <1                 | 209    | 2                  | 155    | 4                      | 117    |  |
| 1993                  | 6           | 108    | 6              | 110    | 3              | 107    | 4         | 119    | 1           | 109    | 5        | 103    | 5              | 125    | 1                  | 146    | 1                  | 126    | 4                      | 113    |  |
| 1994                  | 1           | 176    | 8              | 107    | 3              | 124    | 3         | 119    | <1          | 123    | 2        | 130    | 3              | 143    | <1                 | 253    | 2                  | 157    | 4                      | 114    |  |
| 1995                  | 1           | 101    | 8              | 121    | 2              | 104    | 8         | 111    | 1           | 105    | 4        | 126    | 3              | 148    | 0                  | 2      | 2                  | 160    | 5                      | 120    |  |
| 1996                  | 7           | 151    | 2              | 116    | 3              | 94     | 3         | 119    | <1          | 139    | 3        | 106    | 2              | 172    | 0                  | <1     | <1                 | 169    | 2                      | 127    |  |
| Sheepshead            |             |        |                |        |                |        |           |        |             |        |          |        |                |        |                    |        |                    |        |                        |        |  |
| 1982*                 | ND          |        | <1             | 295    | ND             |        | 0         |        | <1          | 119    | <1       | 85     | <1             | 345    | 1                  | 366    | 1                  | 241    | <1                     | 290    |  |
| 1983                  | ND          |        | <1             | 344    | ND             |        | 0         |        | <1          | 113    | <1       | 138    | <1             | 365    | 1                  | 358    | <1                 | 248    | <1                     | 323    |  |
| 1984                  | ND          |        | <1             | 339    | ND             |        | <1        | 147    | <1          | 0      | <1       | 157    | <1             | 342    | <1                 | 402    | <1                 | 300    | <1                     | 314    |  |
| 1985                  | ND          |        | 1              | 341    | ND             |        | 0         | 102    | <1          | 112    | <1       | 143    | <1             | 259    | <1                 | 412    | <1                 | 80     | <1                     | 242    |  |
| 1986                  | 1           | 215    | <1             | 451    | ND             |        | 0         | 0      | <1          | 122    | <1       | 288    | <1             | 288    | 1                  | 160    | 1                  | 160    | <1                     | 228    |  |
| 1987                  | <1          | 279    | 0 <sup>c</sup> | 356    | 0              | 0      | <1        | 111    | <1          | 124    | <1       | 115    | <1             | 299    | <1                 | 377    | <1                 | 156    | <1                     | 255    |  |
| 1988                  | <1          | 332    | 0              | 423    | 0              | 0      | <1        | 112    | <1          | 80     | <1       | 95     | <1             | 155    | <1                 | 247    | <1                 | 152    | <1                     | 238    |  |
| 1989                  | 1           | 252    | <1             | 253    | <1             | 104    | <1        | 120    | <1          | 120    | <1       | 116    | <1             | 251    | <1                 | 518    | <1                 | 366    | <1                     | 240    |  |
| 1990                  | 3           | 248    | <1             | 343    | 0              | 0      | 0         | 89     | <1          | 89     | <1       | 99     | 0              | 251    | 0                  | <1     | <1                 | 234    | <1                     | 274    |  |



Table 4. (Cont.)

| Species            | Year  | Sabine Lake |        | Galveston       |        | East Matagorda  |                 | Matagorda |        | San Antonio |        | Aransas |        | Corpus Christi |        | Upper Laguna Madre |        | Lower Laguna Madre |        | Coastwide <sup>b</sup> |        |     |
|--------------------|-------|-------------|--------|-----------------|--------|-----------------|-----------------|-----------|--------|-------------|--------|---------|--------|----------------|--------|--------------------|--------|--------------------|--------|------------------------|--------|-----|
|                    |       | No./h       | Length | No./h           | Length | No./h           | Length          | No./h     | Length | No./h       | Length | No./h   | Length | No./h          | Length | No./h              | Length | No./h              | Length | No./h                  | Length |     |
| Sheepshead (cont.) | 1991  | 2           | 300    | <1              | 339    | <1              | 192             | 0         | 0      | <1          | 145    | <1      | 145    | <1             | 229    | 0                  | <1     | <1                 | 136    | <1                     | 295    |     |
|                    | 1992  | 3           | 267    | 0               | 354    | <1              | 286             | <1        | 65     | 1           | 121    | <1      | 149    | <1             | 164    | <1                 | <1     | <1                 | 187    | <1                     | 242    |     |
|                    | 1993  | 5           | 257    | 1               | 311    | 0               | 286             | 0         | 0      | 1           | 134    | <1      | 101    | <1             | 203    | <1                 | 1      | 1                  | 156    | <1                     | 227    |     |
|                    | 1994  | 2           | 281    | 1               | 287    | 1               | 309             | 0         | 0      | <1          | 187    | <1      | 133    | <1             | 165    | <1                 | 509    | 1                  | 225    | <1                     | 256    |     |
|                    | 1995  | 3           | 244    | <1              | 322    | <1              | 301             | <1        | 123    | 1           | 177    | <1      | 139    | <1             | 158    | <1                 | 181    | 1                  | 161    | <1                     | 221    |     |
|                    | 1996  | 2           | 300    | 1               | 403    | 1               | 328             | 0         | 0      | 1           | 181    | <1      | 116    | <1             | 253    | <1                 | 464    | 1                  | 115    | <1                     | 274    |     |
|                    | 1982* | ND          | ND     | ND              | 158    | <1              | 192             | <1        | 169    | <1          | 155    | 1       | 186    | 1              | 181    | 2                  | 203    | <1                 | 296    | 1                      | 176    |     |
| Southern flounder  | 1983  | ND          | ND     | ND              | 175    | <1              | 196             | <1        | 196    | <1          | 120    | 1       | 180    | <1             | 242    | <1                 | 203    | <1                 | 161    | <1                     | 180    |     |
|                    | 1984  | ND          | ND     | ND              | 194    | ND              | 194             | <1        | 194    | <1          | 153    | 2       | 148    | <1             | 175    | <1                 | 145    | <1                 | 168    | <1                     | 160    |     |
|                    | 1985  | ND          | ND     | ND              | 234    | <1              | 202             | <1        | 202    | <1          | 147    | 1       | 152    | 1              | 221    | 1                  | 197    | <1                 | 261    | <1                     | 191    |     |
|                    | 1986  | <1          | 141    | ND              | 161    | <1              | 165             | <1        | 165    | <1          | 141    | 1       | 144    | 1              | 184    | 1                  | 262    | <1                 | 212    | 1                      | 166    |     |
|                    | 1987  | <1          | 168    | <1 <sup>c</sup> | 231    | 154             | 154             | <1        | 191    | <1          | 160    | <1      | 167    | <1             | 171    | 0                  | 262    | <1                 | 183    | <1                     | 181    |     |
|                    | 1988  | <1          | 144    | <1              | 195    | <1              | 132             | <1        | 148    | <1          | 118    | <1      | 168    | <1             | 214    | <1                 | 226    | <1                 | 205    | <1                     | 157    |     |
|                    | 1989  | <1          | 173    | <1              | 166    | <1              | 181             | <1        | 194    | <1          | 130    | <1      | 169    | <1             | 193    | <1                 | 348    | <1                 | 211    | <1                     | 168    |     |
|                    | 1990  | <1          | 119    | <1              | 174    | <1              | 161             | <1        | 166    | <1          | 121    | <1      | 136    | <1             | 167    | 1                  | 190    | <1                 | 211    | <1                     | 145    |     |
|                    | 1991  | <1          | 152    | <1              | 160    | <1              | 147             | <1        | 242    | <1          | 148    | <1      | 190    | <1             | 228    | <1                 | 266    | <1                 | 229    | <1                     | 180    |     |
|                    | 1992  | <1          | 185    | <1              | 184    | <1              | 186             | <1        | 210    | <1          | 191    | <1      | 135    | 0              | 232    | 0                  | 266    | <1                 | 205    | <1                     | 188    |     |
|                    | 1993  | <1          | 198    | <1              | 155    | <1              | 177             | <1        | 142    | <1          | 126    | <1      | 140    | <1             | 323    | <1                 | 416    | <1                 | 391    | <1                     | 184    |     |
|                    | 1994  | 1           | 214    | 1               | 160    | <1              | 230             | <1        | 142    | <1          | 226    | <1      | 189    | <1             | 323    | <1                 | 236    | <1                 | 223    | <1                     | 186    |     |
|                    | 1995  | 1           | 138    | 1               | 192    | 0               | 192             | <1        | 225    | <1          | 170    | <1      | 220    | <1             | 111    | <1                 | 332    | 0                  | 223    | <1                     | 186    |     |
|                    | 1996  | 1           | 214    | <1              | 197    | <1              | 162             | <1        | 151    | 1           | 156    | <1      | 181    | <1             | 210    | <1                 | 163    | 1                  | 221    | <1                     | 173    |     |
|                    | Spot  | 1982*       | ND     | ND              | ND     | 173             | ND              | ND        | 26     | 17          | 5      | ND      | 68     | ND             | 33     | ND                 | 10     | ND                 | 4      | ND                     | 19     | ND  |
|                    |       | 1983        | ND     | ND              | ND     | 288             | ND              | 122       | 34     | 34          | 5      | 112     | 18     | 118            | ND     | 36                 | 2      | 163                | 6      | 135                    | 12     | 127 |
|                    |       | 1984        | ND     | ND              | ND     | 418             | ND              | 107       | 74     | 107         | 74     | 84      | 131    | 91             | 91     | 112                | 82     | 118                | 10     | 108                    | 39     | 103 |
|                    |       | 1985        | ND     | ND              | ND     | 286             | ND              | 121       | 20     | 20          | 118    | 110     | 60     | 116            | 116    | 215                | 132    | 24                 | 137    | 19                     | 129    | 41  |
| 1986               |       | 6           | 120    | 6               | 120    | ND              | 29              | 121       | 29     | 121         | 99     | 92      | 106    | 106            | 115    | 129                | 6      | 118                | 5      | 135                    | 35     | 119 |
| 1987               |       | 9           | 134    | 11              | 127    | 12              | 119             | 38        | 38     | 115         | 97     | 86      | 117    | 122            | 125    | 4                  | 158    | 13                 | 112    | 37                     | 119    |     |
| 1988               |       | 24          | 113    | 14              | 117    | 5               | 107             | 42        | 127    | 116         | 108    | 151     | 116    | 116            | 235    | 4                  | 140    | 18                 | 118    | 66                     | 120    |     |
| 1989               |       | 19          | 130    | 11              | 123    | 6               | 111             | 85        | 118    | 173         | 105    | 97      | 127    | 127            | 240    | 6                  | 129    | 18                 | 119    | 68                     | 125    |     |
| 1990               |       | 6           | 130    | 8               | 117    | 12              | 95              | 94        | 119    | 117         | 96     | 165     | 101    | 164            | 113    | 71                 | 110    | 104                | 104    | 78                     | 109    |     |
| 1991               |       | 6           | 124    | 9               | 120    | 6               | 108             | 44        | 124    | 39          | 105    | 52      | 108    | 206            | 116    | 24                 | 130    | 82                 | 117    | 50                     | 116    |     |
| 1992               |       | 10          | 137    | 19              | 125    | 2               | 125             | 78        | 128    | 20          | 119    | 78      | 100    | 206            | 116    | 9                  | 149    | 25                 | 133    | 40                     | 123    |     |
| 1993               |       | 32          | 119    | 16              | 135    | 4               | 131             | 86        | 112    | 30          | 101    | 63      | 102    | 167            | 118    | 4                  | 134    | 11                 | 134    | 54                     | 125    |     |
| 1994               |       | 25          | 129    | 24              | 116    | 23              | 122             | 23        | 122    | 39          | 103    | 61      | 119    | 56             | 135    | 1                  | 161    | 9                  | 137    | 30                     | 120    |     |
| 1995               |       | 6           | 127    | 17              | 127    | 4               | 119             | 38        | 119    | 53          | 110    | 75      | 124    | 41             | 146    | 1                  | 141    | 15                 | 139    | 32                     | 124    |     |
| 1996               |       | 39          | 121    | 8               | 125    | 39              | 112             | 39        | 112    | 23          | 119    | 90      | 107    | 107            | 147    | 4                  | 129    | 12                 | 130    | 40                     | 123    |     |
| Spotted seatrout   |       | 1982*       | ND     | ND              | ND     | 173             | ND              | ND        | 0      | 0           | <1     | 232     | <1     | 163            | <1     | 187                | 1      | 166                | <1     | 142                    | <1     | 171 |
|                    |       | 1983        | ND     | ND              | ND     | 288             | ND              | 155       | <1     | <1          | <1     | 168     | 2      | 207            | <1     | 327                | 2      | 188                | <1     | 200                    | <1     | 212 |
|                    |       | 1984        | ND     | ND              | ND     | 418             | ND              | 174       | <1     | <1          | <1     | 252     | <1     | 237            | <1     | 385                | <1     | 351                | <1     | 236                    | <1     | 329 |
|                    |       | 1985        | <1     | 187             | <1     | 286             | ND              | 171       | <1     | <1          | <1     | 156     | 1      | 156            | 1      | 171                | 1      | 146                | <1     | 218                    | <1     | 188 |
|                    |       | 1986        | <1     | 187             | <1     | 259             | ND              | 193       | <1     | <1          | <1     | 170     | <1     | 162            | 1      | 176                | <1     | 151                | 1      | 196                    | <1     | 201 |
|                    |       | 1987        | <1     | 147             | <1     | 134             | <1 <sup>c</sup> | 143       | 1      | 166         | 1      | 166     | 1      | 164            | <1     | 163                | <1     | 206                | <1     | 198                    | <1     | 167 |
|                    | 1988  | <1          | 189    | <1              | 172    | <1              | 249             | <1        | <1     | <1          | 159    | 2       | 166    | <1             | 175    | <1                 | 176    | <1                 | 95     | <1                     | 172    |     |
|                    | 1989  | <1          | 227    | <1              | 142    | <1              | 174             | <1        | <1     | <1          | 190    | 1       | 168    | <1             | 214    | 1                  | 186    | 1                  | 139    | <1                     | 173    |     |
|                    | 1990  | <1          | 334    | <1              | 118    | 0               | 128             | <1        | 0      | <1          | 119    | <1      | 176    | <1             | 123    | <1                 | 114    | 0                  | 139    | <1                     | 173    |     |
|                    | 1991  | <1          | 251    | <1              | 118    | 0               | 184             | <1        | 0      | <1          | 119    | <1      | 176    | <1             | 123    | <1                 | 114    | 0                  | 139    | <1                     | 173    |     |
|                    | 1992  | <1          | 194    | <1              | 155    | <1              | 150             | <1        | <1     | <1          | 136    | 1       | 154    | <1             | 161    | 1                  | 124    | 1                  | 177    | <1                     | 155    |     |
|                    | 1993  | <1          | 196    | <1              | 161    | <1              | 133             | <1        | <1     | <1          | 149    | 2       | 182    | <1             | 219    | 2                  | 175    | 1                  | 185    | 1                      | 170    |     |
| 1994               | <1    | 142         | <1     | 145             | <1     | 220             | 0               | 0         | 0      | 127         | <1     | 199     | <1     | 235            | 1      | 167                | <1     | 216                | <1     | 168                    |        |     |
| 1995               | <1    | 172         | <1     | 145             | <1     | 190             | <1              | 182       | <1     | 156         | <1     | 193     | <1     | 218            | 1      | 167                | 1      | 157                | <1     | 159                    |        |     |
| 1996               | <1    | 180         | <1     | 152             | <1     | 174             | <1              | 140       | <1     | 167         | 1      | 192     | <1     | 235            | 1      | 180                | <1     | 184                | <1     | 178                    |        |     |
| Striped mullet     | 1982* | ND          | ND     | ND              | 173    | ND              | ND              | 0         | 0      | <1          | 232    | <1      | 163    | <1             | 187    | 1                  | 166    | <1                 | 142    | <1                     | 171    |     |
|                    | 1983  | ND          | ND     | ND              | 288    | ND              | 155             | <1        | <1     | <1          | 168    | 2       | 207    | <1             | 327    | 2                  | 188    | <1                 | 200    | <1                     | 212    |     |
|                    | 1984  | ND          | ND     | ND              | 418    | ND              | 174             | <1        | <1     | <1          | 252    | <1      | 237    | <1             | 385    | <1                 | 351    | <1                 | 236    | <1                     | 329    |     |
|                    | 1985  | <1          | 187    | <1              | 286    | ND              | 171             | <1        | <1     | <1          | 156    | 1       | 156    | 1              | 171    | 1                  | 146    | <1                 | 218    | <1                     | 188    |     |
|                    | 1986  | <1          | 187    | <1              | 259    | ND              | 193             | <1        | <1     | <1          | 170    | <1      | 162    | 1              | 176    | <1                 | 151    | 1                  | 196    | <1                     | 201    |     |
|                    | 1987  | <1          | 147    | <1              | 134    | <1 <sup>c</sup> | 143             | 1         | 166    | 1           | 166    | 1       | 164    | <1             | 163    | <1                 | 206    | <1                 | 198    | <1                     | 167    |     |
|                    | 1988  | <1          | 189    | <1              | 172    | <1              | 249             | <1        | <1     | <1          | 159    | 2       | 166    | <1             | 175    | <1                 | 176    | <1                 | 95     | <1                     | 172    |     |
|                    | 1989  | <1          | 227    | <1              | 142    | <1              | 174             | <1        | <1     | <1          | 190    | 1       | 168    | <1             | 214    | 1                  | 186    | 1                  | 139    | <1                     | 173    |     |

Table 4. (Cont.)

| Species                | Year            | Sabine Lake       |        | Galveston |                | East Matagorda  |        | Matagorda |        | San Antonio |        | Arkansas Christi |        | Upper Laguna Madre |        | Lower Laguna Madre |        | Coastwide <sup>a</sup> |        |  |
|------------------------|-----------------|-------------------|--------|-----------|----------------|-----------------|--------|-----------|--------|-------------|--------|------------------|--------|--------------------|--------|--------------------|--------|------------------------|--------|--|
|                        |                 | No./h             | Length | No./h     | Length         | No./h           | Length | No./h     | Length | No./h       | Length | No./h            | Length | No./h              | Length | No./h              | Length | No./h                  | Length |  |
| Striped mullet (cont.) | 1989            | 5                 | 183    | 249       | 1              | 237             | 188    | <1        | 187    | 2           | 206    | 0                | <1     | 365                | <1     | 2                  | 234    |                        |        |  |
|                        | 1990            | <1                | 234    | 192       | <1             | 141             | 136    | <1        | 155    | <1          | 239    | <1               | 292    | <1                 | 0      | <1                 | 180    |                        |        |  |
|                        | 1991            | 4                 | 174    | 213       | 3              | 178             | 141    | 2         | 141    | 2           | 216    | 2                | 279    | <1                 | 276    | 2                  | 181    |                        |        |  |
|                        | 1992            | 6                 | 232    | 232       | 0              | 129             | 145    | 4         | 143    | 1           | 213    | <1               | 178    | <1                 | 178    | 3                  | 206    |                        |        |  |
|                        | 1993            | 1                 | 209    | 260       | <1             | 157             | 148    | 1         | 168    | 1           | 219    | <1               | 240    | <1                 | 240    | 1                  | 214    |                        |        |  |
|                        | 1994            | 4                 | 261    | 189       | <1             | 207             | 144    | 3         | 184    | 1           | 260    | <1               | 354    | <1                 | 244    | 1                  | 204    |                        |        |  |
|                        | 1995            | 1                 | 190    | 261       | <1             | 333             | 134    | 2         | 191    | 3           | 196    | 0                | 220    | <1                 | 220    | 2                  | 234    |                        |        |  |
|                        | 1996            | 2                 | 209    | 274       | 1              | 181             | 220    | 3         | 243    | 1           | 176    | <1               | 350    | 0                  | 220    | 5                  | 268    |                        |        |  |
|                        | Total finfishes | 1982 <sup>a</sup> | ND     | 88        | 199            | ND              | 193    | 179       | 270    | 119         | 371    | 166              | 313    | 232                | 183    | 152                | 171    | 167                    |        |  |
|                        |                 | 1983              | ND     | 63        | 126            | ND              | 162    | 107       | 174    | 108         | 308    | 139              | 170    | 115                | 139    | 143                | 139    | 116                    |        |  |
|                        |                 | 1984              | 46     | 123       | 133            | ND              | 111    | 104       | 194    | 124         | 294    | 124              | 197    | 123                | 130    | 169                | 134    | 108                    |        |  |
|                        |                 | 1985              | 82     | 117       | 117            | ND              | 115    | 114       | 236    | 99          | 380    | 129              | 96     | 127                | 149    | 128                | 143    | 117                    |        |  |
|                        |                 | 1986              | 28     | 151       | 122            | ND              | 127    | 112       | 261    | 104         | 378    | 132              | 86     | 109                | 188    | 132                | 151    | 117                    |        |  |
|                        |                 | 1987              | 53     | 136       | 96             | 64 <sup>b</sup> | 117    | 302       | 100    | 354         | 101    | 370              | 131    | 64                 | 117    | 157                | 200    | 112                    |        |  |
|                        |                 | 1988              | 101    | 131       | 101            | 49              | 122    | 186       | 363    | 512         | 108    | 630              | 127    | 76                 | 104    | 167                | 119    | 259                    |        |  |
|                        |                 | 1989              | 111    | 138       | 111            | 44              | 105    | 265       | 106    | 347         | 109    | 857              | 133    | 53                 | 103    | 197                | 121    | 272                    |        |  |
| 1990                   |                 | 85                | 122    | 116       | 41             | 108             | 282    | 118       | 464    | 123         | 368    | 88               | 88     | 564                | 119    | 259                | 113    |                        |        |  |
| 1991                   |                 | 72                | 127    | 106       | 41             | 109             | 347    | 102       | 423    | 102         | 614    | 122              | 208    | 125                | 524    | 318                | 109    |                        |        |  |
| 1992                   |                 | 94                | 152    | 166       | 23             | 102             | 435    | 98        | 443    | 97          | 315    | 111              | 106    | 130                | 305    | 129                | 281    |                        |        |  |
| 1993                   |                 | 156               | 142    | 201       | 55             | 132             | 297    | 108       | 365    | 110         | 433    | 131              | 87     | 113                | 269    | 198                | 252    |                        |        |  |
| 1994                   |                 | 82                | 152    | 194       | 54             | 150             | 229    | 92        | 266    | 104         | 288    | 123              | 85     | 106                | 203    | 130                | 218    |                        |        |  |
| 1995                   |                 | 59                | 128    | 216       | 69             | 130             | 371    | 99        | 338    | 120         | 331    | 134              | 53     | 122                | 278    | 132                | 273    |                        |        |  |
| 1996                   |                 | 166               | 123    | 150       | 85             | 104             | 177    | 106       | 320    | 109         | 432    | 136              | 90     | 107                | 257    | 201                | 120    |                        |        |  |
| SHELLFISHES            |                 | Blue crab         |        |           |                |                 |        |           |        |             |        |                  |        |                    |        |                    |        |                        |        |  |
|                        |                 | 1982 <sup>a</sup> | ND     | 28        | 91             | ND              | 5      | 99        | 81     | 66          | 7      | 97               | 9      | 148                | 100    | 17                 | 89     |                        |        |  |
|                        |                 | 1983              | ND     | 24        | 88             | ND              | 10     | 86        | 21     | 80          | 2      | 96               | 7      | 113                | 12     | 18                 | 86     |                        |        |  |
|                        |                 | 1984              | ND     | 13        | 92             | ND              | 4      | 88        | 8      | 82          | 31     | 81               | 8      | 106                | 50     | 15                 | 90     |                        |        |  |
|                        |                 | 1985              | ND     | 30        | 79             | ND              | 10     | 85        | 19     | 75          | 23     | 72               | 5      | 103                | 36     | 21                 | 81     |                        |        |  |
|                        | 1986            | 6                 | 132    | 28        | 79             | 13              | 85     | 19        | 85     | 25          | 78     | 14               | 88     | 15                 | 85     | 19                 | 83     |                        |        |  |
|                        | 1987            | 5                 | 135    | 19        | 78             | 10              | 77     | 40        | 93     | 18          | 84     | 6                | 88     | 15                 | 88     | 17                 | 86     |                        |        |  |
|                        | 1988            | 9                 | 137    | 9         | 71             | 3               | 77     | 89        | 75     | 57          | 63     | 7                | 98     | 18                 | 84     | 22                 | 74     |                        |        |  |
|                        | 1989            | 5                 | 135    | 25        | 66             | 51              | 63     | 6         | 74     | 24          | 68     | 2                | 107    | 9                  | 77     | 19                 | 72     |                        |        |  |
|                        | 1990            | 6                 | 98     | 31        | 72             | 15              | 79     | 39        | 74     | 17          | 71     | 14               | 93     | 33                 | 91     | 21                 | 76     |                        |        |  |
|                        | 1991            | 7                 | 117    | 10        | 64             | 26              | 76     | 68        | 58     | 51          | 58     | 7                | 102    | 5                  | 105    | 35                 | 89     |                        |        |  |
|                        | 1992            | 7                 | 139    | 8         | 77             | 6               | 65     | 105       | 38     | 56          | 10     | 81               | 26     | 110                | 27     | 98                 | 24     | 65                     |        |  |
|                        | 1993            | 5                 | 131    | 16        | 70             | 3               | 82     | 50        | 35     | 78          | 10     | 96               | 16     | 114                | 22     | 88                 | 20     | 81                     |        |  |
|                        | 1994            | 4                 | 146    | 16        | 74             | 3               | 90     | 80        | 35     | 78          | 10     | 96               | 20     | 83                 | 25     | 93                 | 24     | 67                     |        |  |
|                        | 1995            | 2                 | 133    | 8         | 58             | 3               | 111    | 25        | 11     | 67          | 4      | 69               | 11     | 76                 | 17     | 84                 | 10     | 64                     |        |  |
|                        | 1996            | 9                 | 107    | 14        | 60             | 6               | 107    | 14        | 10     | 72          | 5      | 78               | 4      | 86                 | 12     | 87                 | 12     | 73                     |        |  |
|                        | Brown shrimp    | 1982              | ND     | 23        | 90             | ND              | 25     | 94        | 17     | 101         | 40     | 90               | 40     | 101                | 61     | 27                 | 91     |                        |        |  |
|                        |                 | 1983              | ND     | 12        | 99             | ND              | 26     | 100       | 31     | 99          | 8      | 99               | 8      | 102                | 6      | 66                 | 21     | 97                     |        |  |
|                        |                 | 1984              | ND     | 13        | 102            | ND              | 7      | 102       | 58     | 107         | 80     | 50               | 103    | 25                 | 108    | 6                  | 30     | 94                     |        |  |
|                        |                 | 1985              | ND     | 33        | 75             | ND              | 29     | 89        | 27     | 90          | 67     | 81               | 24     | 96                 | 16     | 63                 | 30     | 83                     |        |  |
| 1986                   |                 | <1                | 99     | 15        | 94             | 24              | 99     | 69        | 98     | 111         | 42     | 95               | 7      | 108                | 15     | 64                 | 34     | 96                     |        |  |
| 1987                   |                 | 4                 | 92     | 24        | 7 <sup>c</sup> | 47              | 91     | 93        | 85     | 101         | 66     | 8                | 8      | 100                | 5      | 70                 | 46     | 89                     |        |  |
| 1988                   |                 | 3                 | 85     | 24        | 10             | 32              | 100    | 124       | 91     | 139         | 86     | 17               | 89     | 3                  | 73     | 44                 | 90     |                        |        |  |
| 1989                   |                 | 8                 | 84     | 29        | 47             | 39              | 91     | 156       | 90     | 105         | 90     | 17               | 88     | 5                  | 63     | 49                 | 89     |                        |        |  |
| 1990                   |                 | 1                 | 113    | 11        | 98             | 40              | 100    | 104       | 92     | 78          | 90     | 28               | 88     | 12                 | 79     | 32                 | 90     |                        |        |  |
| 1991                   |                 | 1                 | 93     | 13        | 87             | 63              | 96     | 51        | 89     | 158         | 91     | 29               | 91     | 8                  | 80     | 32                 | 90     |                        |        |  |
| 1992                   |                 | 3                 | 83     | 38        | 82             | 23              | 82     | 65        | 65     | 81          | 30     | 92               | 40     | 110                | 7      | 73                 | 37     | 88                     |        |  |
| 1993                   |                 | 9                 | 79     | 18        | 85             | 43              | 94     | 45        | 82     | 95          | 22     | 87               | 13     | 103                | 5      | 67                 | 32     | 88                     |        |  |
| 1994                   |                 | 9                 | 83     | 29        | 99             | 51              | 95     | 101       | 88     | 37          | 10     | 88               | 18     | 103                | 54     | 58                 | 41     | 91                     |        |  |
| 1995                   |                 | 1                 | 91     | 12        | 83             | 9               | 84     | 100       | 75     | 108         | 23     | 90               | 15     | 14                 | 14     | 70                 | 41     | 91                     |        |  |
| 1996                   |                 | 8                 | 89     | 14        | 95             | 25              | 63     | 36        | 89     | 80          | 19     | 94               | 13     | 82                 | 7      | 86                 | 23     | 91                     |        |  |
| Pink shrimp            |                 | 1982 <sup>a</sup> | ND     | <1        | 94             | ND              | <1     | 113       | <1     | 89          | 2      | 100              | 1      | 96                 | 0      | 1                  | 94     |                        |        |  |
|                        | 1983            | ND                | <1     | 95        | ND             | 1               | 112    | 5         | 94     | 2           | 103    | 1                | 113    | 1                  | 88     | 2                  | 99     |                        |        |  |

Table 4. (Cont.)

| Species             | Year         | Sabine Lake |        | Galveston |        | East Matagorda  |        | Matagorda |        | San Antonio |        | Aranzas |        | Corpus Christi |        | Upper Laguna Madre |        | Lower Laguna Madre |        | Coastwide <sup>b</sup> |        |
|---------------------|--------------|-------------|--------|-----------|--------|-----------------|--------|-----------|--------|-------------|--------|---------|--------|----------------|--------|--------------------|--------|--------------------|--------|------------------------|--------|
|                     |              | No./h       | Length | No./h     | Length | No./h           | Length | No./h     | Length | No./h       | Length | No./h   | Length | No./h          | Length | No./h              | Length | No./h              | Length | No./h                  | Length |
| Pink shrimp (cont.) | 1985         | ND          |        | <1        | 88     | ND              |        | <1        | 104    | 3           | 98     | 4       | 100    | 5              | 96     | 4                  | 107    | 1                  | 98     | 2                      | 99     |
|                     | 1986         | 0           |        | <1        | 118    | ND              |        | 2         | 114    | 4           | 103    | 11      | 101    | 12             | 103    | 1                  | 109    | <1                 | 70     | 3                      | 104    |
|                     | 1987         | 0           |        | <1        | 111    | 2 <sup>c</sup>  | 102    | 5         | 95     | 2           | 92     | 6       | 84     | 12             | 101    | 2                  | 107    | 2                  | 72     | 3                      | 95     |
|                     | 1988         | 0           |        | 1         | 79     | <1              | 110    | 2         | 89     | 6           | 86     | 20      | 82     | 8              | 93     | <1                 | 76     | 2                  | 77     | 4                      | 85     |
|                     | 1989         | 0           |        | <1        | 90     | <1              | 94     | 1         | 102    | 8           | 93     | 14      | 91     | 8              | 95     | 1                  | 80     | 1                  | 80     | 3                      | 93     |
|                     | 1990         | 0           |        | <1        | 84     | 0               |        | <1        | 106    | 8           | 97     | 23      | 88     | 4              | 97     | 3                  | 71     | 3                  | 85     | 3                      | 90     |
|                     | 1991         | 0           |        | <1        | 101    | 1               | 115    | 2         | 102    | 8           | 84     | 27      | 88     | 8              | 97     | 4                  | 103    | 4                  | 79     | 5                      | 90     |
|                     | 1992         | 0           |        | <1        | 58     | <1              | 101    | <1        | 100    | <1          | 87     | 7       | 77     | 10             | 95     | 20                 | 82     | 20                 | 82     | 3                      | 89     |
|                     | 1993         | 0           |        | <1        | 87     | 0               |        | <1        | 100    | 1           | 86     | 5       | 76     | 4              | 91     | 1                  | 98     | 4                  | 79     | 1                      | 85     |
|                     | 1994         | 0           |        | <1        | 92     | <1              | 89     | 3         | 104    | 5           | 78     | 6       | 85     | 5              | 89     | 4                  | 93     | 15                 | 63     | 3                      | 84     |
|                     | 1995         | 0           |        | <1        | 89     | 2               | 80     | 10        | 97     | 6           | 82     | 4       | 90     | 13             | 100    | 4                  | 95     | 7                  | 70     | 5                      | 94     |
|                     | 1996         | 0           |        | 1         | 101    | 2               | 90     | 1         | 113    | 7           | 92     | 4       | 91     | 5              | 100    | 3                  | 88     | 5                  | 63     | 3                      | 94     |
|                     | White shrimp | 1982        | ND     |           | 88     | 93              | ND     |           | 39     | 86          | 14     | 99      | 16     | 95             | 26     | 101                | 17     | 110                | 4      | 61                     | 46     |
| 1983                |              | ND          |        | 78        | 98     | ND              |        | 20        | 102    | 13          | 96     | 18      | 100    | 14             | 111    | 6                  | 112    | 2                  | 86     | 36                     | 95     |
| 1984                |              | ND          |        | 60        | 98     | ND              |        | 15        | 99     | 8           | 99     | 38      | 106    | 24             | 106    | 11                 | 126    | 10                 | 109    | 32                     | 101    |
| 1985                |              | ND          |        | 62        | 99     | ND              |        | 21        | 110    | 23          | 91     | 17      | 106    | 22             | 104    | 6                  | 120    | 1                  | 105    | 33                     | 101    |
| 1986                |              | 14          | 105    | 45        | 95     | ND              |        | 60        | 98     | 15          | 96     | 13      | 101    | 19             | 98     | 3                  | 108    | 5                  | 57     | 34                     | 87     |
| 1987                |              | 23          | 101    | 37        | 97     | 22 <sup>c</sup> | 92     | 16        | 97     | 42          | 87     | 10      | 94     | 15             | 99     | 2                  | 105    | 2                  | 76     | 24                     | 95     |
| 1988                |              | 39          | 107    | 21        | 91     | 8               | 95     | 16        | 98     | 41          | 93     | 16      | 91     | 12             | 95     | 3                  | 102    | <1                 | 79     | 20                     | 94     |
| 1989                |              | 29          | 87     | 29        | 89     | 11              | 98     | 9         | 98     | 43          | 99     | 7       | 98     | 9              | 100    | 3                  | 97     | <1                 | 114    | 20                     | 93     |
| 1990                |              | 50          | 90     | 14        | 98     | 14              | 103    | 16        | 115    | 47          | 97     | 13      | 108    | 22             | 98     | 21                 | 100    | 1                  | 113    | 21                     | 100    |
| 1991                |              | 17          | 91     | 76        | 97     | 7               | 99     | 11        | 95     | 27          | 94     | 30      | 89     | 24             | 121    | 14                 | 113    | 1                  | 107    | 37                     | 98     |
| 1992                |              | 37          | 88     | 59        | 93     | 5               | 99     | 31        | 96     | 24          | 95     | 53      | 93     | 5              | 111    | 6                  | 114    | 1                  | 104    | 35                     | 94     |
| 1993                |              | 11          | 81     | 38        | 91     | 31              | 83     | 17        | 97     | 18          | 88     | 21      | 95     | 10             | 90     | 14                 | 96     | 2                  | 97     | 23                     | 92     |
| 1994                |              | 45          | 96     | 95        | 80     | 15              | 97     | 9         | 107    | 44          | 87     | 6       | 101    | 34             | 91     | 10                 | 109    | 2                  | 94     | 45                     | 84     |
| 1995                | 4            | 93          | 55     | 90        | 34     | 87              | 11     | 101       | 28     | 86          | 9      | 98      | 6      | 103            | 7      | 104                | 8      | 93                 | 26     | 92                     |        |
| 1996                | 31           | 97          | 18     | 98        | 87     | 89              | 14     | 109       | 18     | 95          | 5      | 105     | 3      | 109            | 3      | 105                | 1      | 99                 | 14     | 100                    |        |

<sup>a</sup>Values include May-Dec. only.<sup>b</sup>1986 values include Sabine Lake; 1987 values include East Matagorda.<sup>c</sup>Values include Apr.-Dec. only.

Table 5. Annual mean catch rates (No./h) and mean total lengths (mm) of select fishes and shellfishes caught with 6.1-m trawls in the Texas Territorial Sea during 1985-96. Blank indicates no measurement taken; ND = no data.

| Species                    | Year  | Sabine          |        | Galveston |        | Port O'Connor |        | Port Aransas |        | Port Isabel |        | Coastwide |        |
|----------------------------|-------|-----------------|--------|-----------|--------|---------------|--------|--------------|--------|-------------|--------|-----------|--------|
|                            |       | No./h           | Length | No./h     | Length | No./h         | Length | No./h        | Length | No./h       | Length | No./h     | Length |
| <b>FINFISHES</b>           |       |                 |        |           |        |               |        |              |        |             |        |           |        |
| <b>Atlantic croaker</b>    |       |                 |        |           |        |               |        |              |        |             |        |           |        |
|                            | 1985* | ND              | 134    | 22        | 145    | 42            | 139    | 17           | 145    | 9           | 149    | 23        | 142    |
|                            | 1986  | 44 <sup>b</sup> | 126    | 45        | 98     | 98            | 136    | 43           | 130    | 9           | 132    | 49        | 132    |
|                            | 1987  | 9               | 114    | 110       | 119    | 65            | 131    | 28           | 134    | <1          | 157    | 44        | 124    |
|                            | 1988  | 79              | 122    | 78        | 118    | 89            | 132    | 23           | 130    | 2           | 128    | 55        | 125    |
|                            | 1989  | 64              | 115    | 117       | 117    | 75            | 128    | 28           | 128    | 6           | 137    | 60        | 121    |
|                            | 1990  | 175             | 117    | 139       | 111    | 69            | 135    | 65           | 131    | 4           | 119    | 91        | 119    |
|                            | 1991  | 272             | 111    | 153       | 114    | 201           | 121    | 81           | 129    | 4           | 162    | 145       | 117    |
|                            | 1992  | 437             | 110    | 228       | 116    | 153           | 116    | 81           | 106    | 6           | 144    | 142       | 113    |
|                            | 1993  | 200             | 111    | 200       | 110    | 74            | 123    | 10           | 121    | 10          | 144    | 162       | 113    |
|                            | 1994  | 140             | 115    | 109       | 126    | 75            | 141    | 2            | 143    | 14          | 121    | 69        | 126    |
|                            | 1995  | 80              | 116    | 33        | 123    | 112           | 119    | 20           | 133    | 1           | 121    | 50        | 119    |
|                            | 1996  | 253             | 118    | 88        | 128    | 29            | 117    | 7            | 117    | 8           | 143    | 77        | 121    |
| <b>Black drum</b>          |       |                 |        |           |        |               |        |              |        |             |        |           |        |
|                            | 1985* | ND              | 0      | 0         | 0      | 0             | 900    | <1           | 825    | 0           | 0      | <1        | 825    |
|                            | 1986  | 0 <sup>b</sup>  | 0      | <1        | 760    | <1            | 680    | 0            | 680    | 0           | 0      | <1        | 900    |
|                            | 1987  | <1              | 851    | <1        | 752    | 0             | 506    | 0            | 0      | 0           | 0      | <1        | 741    |
|                            | 1988  | 0               | 698    | 0         | 528    | 0             | 0      | 0            | 0      | 0           | 0      | <1        | 752    |
|                            | 1989  | 0               | 0      | <1        | 970    | 0             | 889    | 0            | 0      | 0           | 0      | <1        | 631    |
|                            | 1990  | 0               | 0      | 0         | 825    | 0             | 0      | 0            | 0      | 0           | 0      | <1        | 538    |
|                            | 1991  | 0               | 0      | <1        | 843    | 0             | 0      | 0            | 0      | 0           | 0      | <1        | 970    |
|                            | 1992  | <1              | 146    | 0         | 142    | 0             | 0      | 0            | 0      | 0           | 0      | <1        | 889    |
|                            | 1993  | 0               | 871    | 0         | 0      | 0             | 0      | 0            | 0      | 0           | 0      | <1        | 632    |
|                            | 1994  | 0               | 0      | 0         | 0      | 0             | 0      | 0            | 0      | 0           | 0      | <1        | 843    |
|                            | 1995  | <1              | 0      | 0         | 0      | 0             | 0      | 0            | 0      | 0           | 0      | <1        | 496    |
|                            | 1996  | 0               | 0      | 0         | 0      | 0             | 0      | 0            | 0      | 0           | 0      | <1        | 0      |
| <b>Gafftopsail catfish</b> |       |                 |        |           |        |               |        |              |        |             |        |           |        |
|                            | 1985* | ND              | 121    | <1        | 165    | <1            | 156    | <1           | 136    | 0           | 0      | <1        | 160    |
|                            | 1986  | 13 <sup>b</sup> | 116    | <1        | 118    | <1            | 115    | <1           | 176    | 0           | 0      | 3         | 121    |
|                            | 1987  | 3               | 118    | 0         | 169    | <1            | 158    | <1           | 134    | 0           | 0      | 1         | 118    |
|                            | 1988  | 2               | 144    | <1        | 123    | <1            | 168    | 0            | 180    | <1          | 0      | <1        | 126    |
|                            | 1989  | 2               | 119    | <1        | 170    | <1            | 546    | <1           | 187    | <1          | 0      | <1        | 143    |
|                            | 1990  | 3               | 145    | <1        | 123    | 0             | 0      | 0            | 0      | 0           | 0      | 1         | 119    |
|                            | 1991  | 1               | 145    | <1        | 170    | <1            | 181    | <1           | 178    | 0           | 0      | <1        | 150    |
|                            | 1992  | 12              | 125    | 1         | 148    | <1            | 148    | <1           | 209    | 0           | 0      | 3         | 127    |
|                            | 1993  | 6               | 123    | <1        | 129    | <1            | 182    | <1           | 145    | 0           | 0      | 1         | 127    |
|                            | 1994  | 6               | 131    | 2         | 152    | <1            | 239    | 1            | 204    | 0           | 0      | 2         | 143    |
|                            | 1995  | 5               | 131    | 1         | 141    | 0             | 0      | 1            | 155    | 0           | 0      | 1         | 135    |
|                            | 1996  | 5               | 122    | 1         | 137    | <1            | 238    | 1            | 190    | 0           | 0      | 1         | 138    |
| <b>Gulf menhaden</b>       |       |                 |        |           |        |               |        |              |        |             |        |           |        |
|                            | 1985* | ND              | 125    | 2         | 150    | 1             | 159    | 1            | 151    | 0           | 0      | 1         | 152    |
|                            | 1986  | 4 <sup>b</sup>  | 132    | 5         | 147    | <1            | 180    | <1           | 197    | 0           | 0      | 1         | 135    |
|                            | 1987  | 3               | 146    | 2         | 135    | <1            | 146    | <1           | 159    | 0           | 0      | 2         | 136    |
|                            | 1988  | 5               | 124    | 10        | 57     | 6             | 107    | <1           | 122    | 0           | 0      | 4         | 87     |
|                            | 1989  | 1               | 137    | 1         | 144    | <1            | 131    | <1           | 177    | <1          | 51     | 1         | 138    |
|                            | 1990  | 2               | 133    | 4         | 136    | 1             | 122    | <1           | 162    | 0           | 0      | 1         | 134    |
|                            | 1991  | 7               | 134    | 1         | 144    | 1             | 130    | <1           | 148    | 0           | 0      | 2         | 135    |
|                            | 1992  | 4               | 141    | 14        | 116    | 1             | 139    | 1            | 145    | 0           | 0      | 4         | 123    |
|                            | 1993  | 5               | 142    | 3         | 129    | <1            | 159    | 0            | 116    | 0           | 0      | 1         | 141    |
|                            | 1994  | 6               | 131    | 3         | 132    | 3             | 117    | <1           | 157    | <1          | 157    | 2         | 129    |
|                            | 1995  | 5               | 137    | 4         | 137    | 1             | 159    | <1           | 163    | <1          | 131    | 2         | 141    |
|                            | 1996  | 9               | 141    | 1         | 136    | 1             | 155    | 1            | 146    | <1          | 205    | 2         | 142    |
| <b>King mackerel</b>       |       |                 |        |           |        |               |        |              |        |             |        |           |        |
|                            | 1985* | ND              | 173    | <1        | 173    | 0             | 0      | <1           | 124    | 0           | 0      | <1        | 142    |
|                            | 1986  | 0 <sup>b</sup>  | 159    | <1        | 159    | 0             | 0      | 0            | 200    | 0           | 0      | <1        | 159    |
|                            | 1987  | 0               | 0      | <1        | 0      | <1            | 120    | <1           | 0      | 0           | 0      | 0         | 131    |
|                            | 1988  | 0               | 0      | 0         | 0      | 0             | 0      | 0            | 164    | 0           | 0      | 0         | 162    |
|                            | 1989  | 0               | 0      | <1        | 161    | <1            | 161    | <1           | 0      | 0           | 0      | <1        | 0      |

Table 5. (Cont.)

| Species               | Year              | Sabine            |                | Galveston |        | Port O'Connor |        | Port Aransas |        | Port Isabel |        | Coastwide |        |     |
|-----------------------|-------------------|-------------------|----------------|-----------|--------|---------------|--------|--------------|--------|-------------|--------|-----------|--------|-----|
|                       |                   | No./h             | Length         | No./h     | Length | No./h         | Length | No./h        | Length | No./h       | Length | No./h     | Length |     |
| King mackerel (cont.) | 1990              | 0                 |                | <1        | 201    | <1            | 223    | 0            |        | 0           |        | <1        | 210    |     |
|                       | 1991              | 0                 |                | <1        | 172    | <1            | 157    | <1           | 99     | 0           |        | <1        | 132    |     |
|                       | 1992              | 0                 |                | <1        | 149    | <1            | 152    | <1           | 136    | <1          | 192    | <1        | 144    |     |
|                       | 1993              | 0                 |                | 0         |        | 0             |        | <1           | 169    | 0           |        | <1        | 169    |     |
|                       | 1994              | 0                 |                | 0         |        | 0             |        | <1           | 167    | 0           |        | <1        | 167    |     |
|                       | 1995              | 0                 |                | <1        | 173    | <1            | 108    | <1           | 177    | 0           |        | <1        | 170    |     |
|                       | 1996              | 0                 |                | 0         |        | 0             |        | <1           | 195    | 0           |        | <1        | 195    |     |
| Pinfish               | 1985 <sup>a</sup> | ND                |                | <1        | 124    | 3             | 109    | 4            | 110    | 1           | 135    | 2         | 112    |     |
|                       | 1986              | <1 <sup>b</sup>   | 98             | <1        | 104    | 2             | 105    | 4            | 107    | 2           | 103    | 2         | 105    |     |
|                       | 1987              | 0                 |                | <1        | 100    | 3             | 111    | 3            | 115    | <1          | 112    | 1         | 113    |     |
|                       | 1988              | <1                | 93             | <1        | 112    | 8             | 105    | 8            | 110    | 3           | 105    | 4         | 107    |     |
|                       | 1989              | <1                | 100            | <1        | 108    | 3             | 116    | 7            | 110    | 6           | 105    | 3         | 109    |     |
|                       | 1990              | <1                | 86             | 1         | 111    | 4             | 110    | 18           | 105    | 2           | 98     | 5         | 105    |     |
|                       | 1991              | <1                | 121            | 1         | 132    | 2             | 116    | 18           | 113    | 2           | 118    | 4         | 114    |     |
|                       | 1992              | <1                | 115            | 2         | 121    | 3             | 110    | 6            | 103    | 3           | 107    | 3         | 108    |     |
|                       | 1993              | <1                | 72             | <1        | 102    | 3             | 105    | 6            | 110    | 2           | 111    | 3         | 108    |     |
|                       | 1994              | <1                | 131            | 1         | 111    | 5             | 107    | 4            | 107    | 6           | 107    | 3         | 107    |     |
|                       | 1995              | 0                 |                | 1         | 117    | 3             | 101    | 4            | 121    | 7           | 115    | 3         | 114    |     |
|                       | 1996              | 1                 | 120            | <1        | 126    | 1             | 121    | 4            | 116    | 7           | 110    | 3         | 114    |     |
|                       | Red drum          | 1985 <sup>a</sup> | ND             |           | 0      |               | 0      |              | <1     | 84          | 0      |           | <1     | 84  |
|                       |                   | 1986              | 0 <sup>b</sup> |           | 0      |               | 0      |              | 0      |             | 0      |           | 0      |     |
|                       |                   | 1987              | 0              |           | 0      |               | <1     | 948          | 0      |             | <1     | 42        | <1     | 520 |
|                       |                   | 1988              | 0              |           | 0      |               | 0      |              | 0      |             | 0      |           | 0      |     |
| 1989                  |                   | 0                 |                | <1        | 1,110  | 0             |        | 0            |        | 0           |        | <1        | 1,110  |     |
| 1990                  |                   | 0                 |                | <1        | 61     | 0             |        | 0            |        | 0           |        | <1        | 61     |     |
| 1991                  |                   | 0                 |                | 0         |        | 0             |        | 0            |        | 0           |        | 0         |        |     |
| 1992                  |                   | 0                 |                | 0         |        | 0             |        | 0            |        | <1          | 95     | <1        | 95     |     |
| 1993                  |                   | 0                 |                | <1        | 1,013  | 0             |        | 0            |        | 0           |        | <1        | 1,013  |     |
| 1994                  |                   | 0                 |                | 0         |        | 0             |        | 0            |        | 0           |        | 0         |        |     |
| 1995                  |                   | 0                 |                | 0         |        | 0             |        | 811          | <1     | 1,037       | 0      | <1        | 922    |     |
| 1996                  |                   | 0                 |                | <1        | 964    | 0             |        | <1           | 930    | <1          | 124    | <1        | 467    |     |
| Red snapper           |                   | 1985 <sup>a</sup> | ND             |           | 0      |               | 0      |              | 2      | 85          | 7      | 89        | 2      | 88  |
|                       | 1986              | 0 <sup>b</sup>    |                | 0         |        | <1            | 152    | 1            | 95     | <1          | 103    | <1        | 100    |     |
|                       | 1987              | 0                 |                | 0         | 68     | <1            | 88     | 1            | 122    | <1          | 83     | <1        | 107    |     |
|                       | 1988              | 0                 |                | 0         |        | 0             |        | 1            | 111    | 1           | 106    | <1        | 109    |     |
|                       | 1989              | 0                 |                | <1        | 74     | 2             | 87     | 4            | 87     | 3           | 90     | 2         | 88     |     |
|                       | 1990              | 0                 |                | 0         |        | <1            | 94     | 3            | 105    | 2           | 113    | 1         | 106    |     |
|                       | 1991              | 0                 |                | 0         |        | 0             |        | 0            | 80     | 2           | 106    | 2         | 84     |     |
|                       | 1992              | 0                 |                | 0         |        | 79            | 2      | 77           | 9      | 99          | 2      | 81        | 81     |     |
|                       | 1993              | 0                 |                | <1        | 126    | 1             | 76     | 2            | 77     | 3           | 98     | 2         | 88     |     |
|                       | 1994              | 0                 |                | 0         |        | 89            | 3      | 89           | 3      | 103         | 5      | 97        | 96     |     |
|                       | 1995              | 0                 |                | 0         |        | 70            | 5      | 89           | 6      | 89          | 8      | 84        | 84     |     |
|                       | 1996              | 0                 |                | 0         |        | 95            | <1     | 95           | 2      | 90          | 1      | 101       | 93     |     |
|                       | Sand seatrout     | 1985 <sup>a</sup> | ND             |           | 10     | 141           | 6      | 168          | 3      | 140         | <1     | 221       | 5      | 150 |
| 1986                  |                   | 5 <sup>b</sup>    | 164            | 4         | 141    | 3             | 151    | 1            | 174    | 0           |        | 3         | 154    |     |
| 1987                  |                   | 7                 | 131            | 6         | 133    | 5             | 134    | 2            | 162    | <1          | 108    | 4         | 135    |     |
| 1988                  |                   | 3                 | 148            | 11        | 114    | 11            | 129    | 1            | 184    | <1          | 137    | 4         | 130    |     |
| 1989                  |                   | 22                | 133            | 41        | 110    | 16            | 127    | 7            | 155    | 2           | 123    | 18        | 122    |     |
| 1990                  |                   | 50                | 136            | 8         | 126    | 7             | 159    | 2            | 130    | 1           | 118    | 14        | 135    |     |
| 1991                  |                   | 28                | 130            | 12        | 143    | 7             | 146    | 12           | 129    | 1           | 153    | 12        | 135    |     |
| 1992                  |                   | 41                | 132            | 11        | 138    | 6             | 148    | 5            | 131    | <1          | 161    | 13        | 135    |     |
| 1993                  |                   | 45                | 129            | 7         | 131    | 15            | 116    | 10           | 112    | 2           | 121    | 16        | 124    |     |
| 1994                  |                   | 82                | 132            | 3         | 149    | 5             | 148    | 2            | 125    | 1           | 130    | 18        | 134    |     |
| 1995                  |                   | 23                | 126            | 18        | 129    | 111           | 106    | 16           | 125    | 6           | 88     | 36        | 112    |     |
| 1996                  |                   | 11                | 138            | 5         | 141    | 8             | 163    | 2            | 130    | 9           | 102    | 7         | 136    |     |

Table 5. (Cont.)

| Species           | Year              | Sabine            |                  | Galveston |        | Port O'Connor |        | Port Aransas |        | Port Isabel |        | Coastwide |        |     |
|-------------------|-------------------|-------------------|------------------|-----------|--------|---------------|--------|--------------|--------|-------------|--------|-----------|--------|-----|
|                   |                   | No./h             | Length           | No./h     | Length | No./h         | Length | No./h        | Length | No./h       | Length | No./h     | Length |     |
| Southern flounder | 1985 <sup>a</sup> | ND                |                  | 0         |        | <1            | 280    | <1           | 137    | 0           |        | <1        | 199    |     |
|                   | 1986              | 1 <sup>b</sup>    | 162              | <1        | 255    | <1            | 184    | <1           | 311    | 0           |        | <1        | 173    |     |
|                   | 1987              | <1                | 256              | <1        | 197    | 0             |        | <1           | 179    | <1          | 168    | <1        | 191    |     |
|                   | 1988              | <1                | 204              | 0         | 214    | <1            | 225    | <1           | 298    | 0           |        | <1        | 214    |     |
|                   | 1989              | 0                 |                  | 0         | 210    | <1            | 210    | <1           | 298    | 0           |        | <1        | 239    |     |
|                   | 1990              | <1                | 187              | <1        | 212    | <1            | 164    | <1           | 164    | <1          | 250    | <1        | 197    |     |
|                   | 1991              | <1                | 286              | <1        | 194    | <1            | 188    | <1           | 188    | 0           |        | <1        | 220    |     |
|                   | 1992              | <1                | 143              | <1        | 240    | 0             |        | <1           | 284    | <1          | 418    | <1        | 270    |     |
|                   | 1993              | <1                | 124              | <1        | 180    | 0             |        | <1           | 279    | 0           |        | <1        | 201    |     |
|                   | 1994              | <1                | 171              | <1        |        | <1            | 215    | 0            | 0      | <1          | 286    | <1        | 205    |     |
|                   | 1995              | 0                 |                  | 0         |        | <1            | 262    | 0            | 0      | <1          |        | <1        | 262    |     |
|                   | 1996              | <1                | 196              | <1        | 437    | <1            | 0      |              | 0      | <1          |        | <1        | 280    |     |
|                   | Spanish mackerel  | 1985 <sup>a</sup> | ND               |           | 0      |               | 0      |              | 0      |             |        |           | 0      | 200 |
|                   |                   | 1986              | <1               | 200       | 0      | 183           | 0      |              | 0      | 258         | 0      |           | <1     | 203 |
| 1987              |                   | <1                | 93               | <1        | 178    | <1            | 182    | <1           | 110    | <1          | 200    | <1        | 180    |     |
| 1988              |                   | <1                | 166              | <1        | 172    | <1            | 175    | <1           | 175    | 0           |        | <1        | 182    |     |
| 1989              |                   | <1                | 206              | <1        | 176    | <1            | 225    | <1           | 192    | 0           |        | <1        | 180    |     |
| 1990              |                   | <1                | 174              | 1         | 163    | <1            | 134    | <1           | 134    | 0           |        | <1        | 168    |     |
| 1991              |                   | 1                 | 184              | 1         | 144    | <1            | 181    | <1           | 164    | 0           |        | <1        | 168    |     |
| 1992              |                   | <1                | 158              | <1        | 188    | 0             |        | <1           | 237    | 0           |        | <1        | 190    |     |
| 1993              |                   | 1                 | 167              | 0         |        | <1            | 170    | <1           | 170    | 0           |        | <1        | 170    |     |
| 1994              |                   | 0                 |                  | 0         | 186    | <1            | 135    | <1           | 242    | 0           |        | <1        | 192    |     |
| 1995              |                   | <1                | 194              | <1        | 460    | 0             |        |              | 0      |             |        | <1        | 348    |     |
| 1996              |                   | <1                | 289              | <1        |        | 0             |        |              |        |             |        | <1        |        |     |
| Spot              |                   | 1985 <sup>a</sup> | ND               |           | 3      | 132           | 20     | 130          | 21     | 141         | 1      | 142       | 11     | 136 |
|                   |                   | 1986              | 3 <sup>b</sup>   | 124       | 8      | 128           | 7      | 124          | 25     | 123         | 2      | 125       | 9      | 124 |
|                   | 1987              | 5                 | 140              | 9         | 126    | 4             | 125    | 22           | 129    | <1          | 170    | 8         | 129    |     |
|                   | 1988              | 4                 | 115              | 7         | 116    | 23            | 128    | 12           | 122    | 3           | 110    | 12        | 123    |     |
|                   | 1989              | 6                 | 120              | 27        | 108    | 18            | 124    | 48           | 121    | 4           | 121    | 21        | 118    |     |
|                   | 1990              | 9                 | 123              | 25        | 121    | 102           | 125    | 93           | 117    | 4           | 112    | 47        | 125    |     |
|                   | 1991              | 18                | 117              | 67        | 122    | 37            | 122    | 37           | 127    | 4           | 129    | 26        | 123    |     |
|                   | 1992              | 5                 | 127              | 12        | 126    | 6             | 122    | 10           | 126    | 2           | 117    | 7         | 125    |     |
|                   | 1993              | 4                 | 125              | 14        | 119    | 4             | 126    | 19           | 125    | 4           | 138    | 9         | 124    |     |
|                   | 1994              | 13                | 125              | 4         | 131    | 13            | 125    | 4            | 131    | 4           | 129    | 8         | 127    |     |
|                   | 1995              | 7                 | 115              | 3         | 135    | 30            | 132    | 7            | 150    | 4           | 125    | 10        | 132    |     |
|                   | 1996              | 9                 | 116              | 4         | 130    | 18            | 137    | 13           | 124    | 5           | 120    | 10        | 128    |     |
|                   | Spotted seatrout  | 1985 <sup>a</sup> | ND               |           | 0      |               | 0      |              | <1     | 140         | 0      |           | <1     | 140 |
|                   |                   | 1986              | <1               | 163       | <1     | 172           | <1     | 165          | 0      | 0           | 0      |           | <1     | 165 |
| 1987              |                   | <1                | 178              | 0         | 65     | <1            | 110    | 0            | 0      | 0           |        | <1        | 178    |     |
| 1988              |                   | 0                 |                  | <1        | 98     | <1            | 173    | 0            | 0      | 0           |        | <1        | 88     |     |
| 1989              |                   | <1                | 110              | <1        | 160    | <1            | 148    | <1           | 144    | 0           |        | <1        | 137    |     |
| 1990              |                   | 0                 |                  | 0         |        | 0             |        | 0            | 0      | 0           |        | <1        | 132    |     |
| 1991              |                   | <1                | 112              | 0         | 54     | <1            | 160    | 0            | 0      | 0           |        | <1        | 148    |     |
| 1992              |                   | 0                 |                  | 0         |        | 0             |        | 0            | 0      | 0           |        | <1        | 112    |     |
| 1993              |                   | 0                 |                  | <1        |        | 0             |        | 0            | 0      | 0           |        | <1        | 160    |     |
| 1994              |                   | <1                | 187              | 0         |        | 0             |        | 0            | 0      | 0           |        | <1        | 67     |     |
| 1995              |                   | <1                | 276              | 0         |        | 0             |        | 0            | 0      | 0           |        | <1        | 276    |     |
| 1996              |                   | <1                | 139              | 0         |        | 0             |        | 0            | 0      | 0           |        | <1        | 139    |     |
| Total finfishes   |                   | 1985 <sup>a</sup> | ND               |           | 148    | 119           | 188    | 118          | 227    | 114         | 130    | 101       | 174    | 114 |
|                   |                   | 1986              | 159 <sup>b</sup> | 122       | 207    | 118           | 215    | 123          | 292    | 119         | 72     | 110       | 190    | 120 |
|                   | 1987              | 158               | 98               | 289       | 111    | 229           | 118    | 226          | 114    | 80          | 95     | 199       | 110    |     |
|                   | 1988              | 153               | 120              | 273       | 104    | 379           | 114    | 291          | 106    | 52          | 103    | 234       | 110    |     |
|                   | 1989              | 178               | 114              | 301       | 111    | 350           | 118    | 354          | 113    | 106         | 108    | 261       | 114    |     |
|                   | 1990              | 477               | 121              | 355       | 113    | 464           | 138    | 337          | 115    | 103         | 103    | 346       | 122    |     |
|                   | 1991              | 427               | 117              | 322       | 125    | 666           | 115    | 458          | 108    | 124         | 102    | 404       | 115    |     |

Table 5. (Cont.)

| Species                 | Year              | No./h           | Sabine Length | No./h | Galveston Length | No./h | Port O'Connor Length | No./h | Port Aransas Length | No./h | Port Isabel Length | No./h | Coastwide Length |
|-------------------------|-------------------|-----------------|---------------|-------|------------------|-------|----------------------|-------|---------------------|-------|--------------------|-------|------------------|
| Total finfishes (cont.) |                   |                 |               |       |                  |       |                      |       |                     |       |                    |       |                  |
|                         | 1992              | 524             | 115           | 499   | 116              | 523   | 111                  | 332   | 103                 | 128   | 96                 | 406   | 111              |
|                         | 1993              | 651             | 117           | 324   | 116              | 376   | 102                  | 381   | 104                 | 135   | 106                | 377   | 110              |
|                         | 1994              | 408             | 121           | 253   | 121              | 560   | 110                  | 447   | 99                  | 151   | 105                | 367   | 111              |
|                         | 1995              | 231             | 119           | 165   | 109              | 900   | 98                   | 394   | 109                 | 174   | 97                 | 380   | 104              |
|                         | 1996              | 618             | 116           | 279   | 115              | 430   | 108                  | 458   | 99                  | 196   | 98                 | 397   | 109              |
| SHELLFISHES             |                   |                 |               |       |                  |       |                      |       |                     |       |                    |       |                  |
| Blue crab               |                   |                 |               |       |                  |       |                      |       |                     |       |                    |       |                  |
|                         | 1985 <sup>a</sup> | ND              |               | <1    | 105              | 1     | 134                  | 1     | 127                 | <1    | 144                | <1    | 127              |
|                         | 1986              | 4 <sup>b</sup>  | 96            | 6     | 105              | 1     | 141                  | 1     | 145                 | 1     | 123                | 3     | 110              |
|                         | 1987              | 3               | 96            | 1     | 112              | 2     | 105                  | <1    | 142                 | <1    | 140                | 1     | 106              |
|                         | 1988              | 2               | 85            | <1    | 104              | 1     | 113                  | 1     | 128                 | <1    | 160                | 1     | 105              |
|                         | 1989              | 4               | 61            | 2     | 72               | 1     | 130                  | <1    | 134                 | <1    | 146                | 1     | 78               |
|                         | 1990              | 15              | 80            | 4     | 63               | 1     | 118                  | 1     | 126                 | <1    | 127                | 4     | 84               |
|                         | 1991              | 19              | 72            | 6     | 58               | 1     | 102                  | 2     | 114                 | <1    | 121                | 6     | 73               |
|                         | 1992              | 7               | 58            | 1     | 104              | <1    | 85                   | 1     | 95                  | <1    | 123                | 2     | 69               |
|                         | 1993              | 5               | 78            | 1     | 83               | 2     | 116                  | 1     | 130                 | 1     | 102                | 2     | 95               |
|                         | 1994              | 9               | 77            | 2     | 123              | 1     | 115                  | 2     | 66                  | 1     | 128                | 3     | 87               |
|                         | 1995              | 8               | 65            | 1     | 61               | <1    | 120                  | 1     | 122                 | <1    | 122                | 2     | 70               |
|                         | 1996              | 5               | 58            | <1    | 59               | <1    | 115                  | <1    | 120                 | 1     | 107                | 1     | 67               |
| Brown shrimp            |                   |                 |               |       |                  |       |                      |       |                     |       |                    |       |                  |
|                         | 1985 <sup>a</sup> | ND              |               | 7     | 103              | 7     | 125                  | 47    | 109                 | 18    | 106                | 19    | 109              |
|                         | 1986              | 10 <sup>b</sup> | 107           | 13    | 99               | 6     | 114                  | 10    | 105                 | 6     | 110                | 9     | 105              |
|                         | 1987              | 7               | 104           | 24    | 104              | 9     | 108                  | 14    | 106                 | 1     | 118                | 11    | 106              |
|                         | 1988              | 15              | 102           | 5     | 109              | 24    | 103                  | 28    | 106                 | <1    | 116                | 15    | 104              |
|                         | 1989              | 33              | 103           | 50    | 96               | 56    | 105                  | 140   | 95                  | 12    | 94                 | 59    | 98               |
|                         | 1990              | 34              | 101           | 10    | 108              | 55    | 107                  | 58    | 114                 | 20    | 106                | 36    | 108              |
|                         | 1991              | 12              | 90            | 2     | 102              | 12    | 93                   | 9     | 101                 | 17    | 123                | 10    | 104              |
|                         | 1992              | 9               | 91            | 20    | 103              | 4     | 96                   | 19    | 92                  | 2     | 115                | 11    | 97               |
|                         | 1993              | 23              | 100           | 21    | 97               | 13    | 105                  | 9     | 94                  | 4     | 100                | 14    | 100              |
|                         | 1994              | 6               | 100           | 10    | 101              | 5     | 99                   | 16    | 94                  | 7     | 106                | 9     | 99               |
|                         | 1995              | 49              | 102           | 5     | 97               | 49    | 101                  | 31    | 94                  | 2     | 112                | 28    | 100              |
|                         | 1996              | 10              | 92            | 3     | 103              | 3     | 104                  | 4     | 105                 | 2     | 107                | 4     | 99               |
| Pink shrimp             |                   |                 |               |       |                  |       |                      |       |                     |       |                    |       |                  |
|                         | 1985 <sup>a</sup> | ND              |               | <1    | 120              | <1    | 130                  | 1     | 119                 | 1     | 108                | 1     | 116              |
|                         | 1986              | 0 <sup>b</sup>  |               | <1    | 124              | 2     | 110                  | 4     | 105                 | 3     | 118                | 2     | 111              |
|                         | 1987              | 0               |               | 0     | 114              | 1     | 102                  | 5     | 108                 | 1     | 124                | 1     | 108              |
|                         | 1988              | <1              | 87            | 0     | 108              | 1     | 108                  | 7     | 103                 | 1     | 125                | 2     | 106              |
|                         | 1989              | 0               |               | <1    | 105              | 1     | 103                  | 7     | 100                 | 4     | 117                | 2     | 105              |
|                         | 1990              | 0               |               | <1    | 104              | 1     | 101                  | 3     | 118                 | 3     | 117                | 1     | 114              |
|                         | 1991              | <1              | 101           | <1    | 99               | 1     | 109                  | 6     | 112                 | 2     | 118                | 2     | 112              |
|                         | 1992              | <1              | 88            | <1    | 79               | <1    | 114                  | 4     | 102                 | <1    | 122                | 1     | 104              |
|                         | 1993              | 0               |               | <1    | 104              | 4     | 99                   | 5     | 104                 | 9     | 112                | 4     | 107              |
|                         | 1994              | <1              | 90            | <1    | 116              | 1     | 109                  | 8     | 98                  | 8     | 116                | 4     | 106              |
|                         | 1995              | <1              | 78            | 0     |                  | 6     | 102                  | 6     | 109                 | 3     | 112                | 3     | 106              |
|                         | 1996              | <1              | 94            | 0     |                  | 1     | 112                  | 1     | 109                 | 3     | 116                | 1     | 114              |
| White shrimp            |                   |                 |               |       |                  |       |                      |       |                     |       |                    |       |                  |
|                         | 1985 <sup>a</sup> | ND              |               | 53    | 110              | 26    | 124                  | 11    | 126                 | 1     | 105                | 24    | 115              |
|                         | 1986              | 41 <sup>b</sup> | 101           | 53    | 101              | 15    | 120                  | 8     | 137                 | 2     | 124                | 24    | 105              |
|                         | 1987              | 26              | 105           | 14    | 109              | 16    | 112                  | 8     | 119                 | 1     | 121                | 13    | 110              |
|                         | 1988              | 14              | 105           | 17    | 100              | 19    | 110                  | 9     | 116                 | <1    | 133                | 12    | 107              |
|                         | 1989              | 21              | 102           | 25    | 106              | 22    | 108                  | 14    | 113                 | 1     | 122                | 17    | 107              |
|                         | 1990              | 18              | 104           | 11    | 115              | 15    | 118                  | 6     | 136                 | 2     | 136                | 10    | 115              |
|                         | 1991              | 28              | 105           | 10    | 117              | 30    | 106                  | 6     | 127                 | 1     | 122                | 15    | 109              |
|                         | 1992              | 51              | 98            | 31    | 108              | 11    | 112                  | 10    | 118                 | 1     | 145                | 21    | 105              |
|                         | 1993              | 61              | 101           | 10    | 108              | 11    | 121                  | 5     | 134                 | 1     | 133                | 17    | 106              |
|                         | 1994              | 17              | 109           | 8     | 109              | 15    | 114                  | 9     | 116                 | 1     | 128                | 10    | 112              |

Table 5. (Cont.)

| Species              | Year | Sabine |        | Galveston |        | Port O'Connor |        | Port Aransas |        | Port Isabel |        | Coastwide |        |
|----------------------|------|--------|--------|-----------|--------|---------------|--------|--------------|--------|-------------|--------|-----------|--------|
|                      |      | No./h  | Length | No./h     | Length | No./h         | Length | No./h        | Length | No./h       | Length | No./h     | Length |
| White shrimp (cont.) | 1995 | 10     | 110    | 20        | 113    | 14            | 117    | 12           | 125    | 3           | 134    | 12        | 117    |
|                      | 1996 | 49     | 96     | 22        | 105    | 18            | 118    | 9            | 125    | 5           | 116    | 21        | 105    |

<sup>a</sup>Values include Feb-Dec only off Port Aransas and Aug-Dec only off all other areas.

<sup>b</sup>Values include Jun-Dec only.



Table 6. Annual mean catch rates (No./h) and mean total lengths (mm) by size class of Eastern oyster caught with 46.0-cm wide dredges on "reef" stations in Texas bay systems during 1984-96. Blank indicates no measurement taken; ND = no data.

| Size class | Year  | Galveston |        | Matagorda |        | San Antonio |        | Arkansas |        | Coastwide |        |    |
|------------|-------|-----------|--------|-----------|--------|-------------|--------|----------|--------|-----------|--------|----|
|            |       | No./h     | Length | No./h     | Length | No./h       | Length | No./h    | Length | No./h     | Length |    |
| Spat       | 1984  | 491       |        | ND        |        | ND          |        | ND       |        | 491       |        |    |
|            | 1985  | 891       |        | ND        |        | ND          |        | ND       |        | 891       |        |    |
|            | 1986  | 1,010     |        | 764       |        | 499         |        | 551      |        | 770       |        |    |
|            | 1987  | 1,054     |        | 654       |        | 66          |        | 4,269    |        | 1,382     |        |    |
|            | 1988  | 1,440     |        | 2,019     |        | 439         |        | 1,772    |        | 1,202     |        |    |
|            | 1989  | 1,322     |        | 1,864     |        | 1,864       |        | 3,071    |        | 1,880     |        |    |
|            | 1990  | 2,147     |        | 1,289     |        | 1,117       |        | 1,611    |        | 1,685     |        |    |
|            | 1991  | 1,458     |        | 718       |        | 894         |        | 410      |        | 1,022     |        |    |
|            | 1992  | 3,083     |        | 454       |        | 268         |        | 82       |        | 1,487     |        |    |
|            | 1993  | 3,194     |        | 139       |        | 122         |        | 0        |        | 1,440     |        |    |
|            | 1994  | 1,263     |        | 329       |        | 546         |        | 719      |        | 1,860     |        |    |
|            | 1995  | 718       |        | 1,311     |        | 1,493       |        | 1,836    |        | 1,194     |        |    |
|            | 1996  | 7,458     |        | 1,497     |        | 4,521       |        | 1,251    |        | 4,740     |        |    |
|            | Small | 1984      | 1,705  | 47        | ND     |             | ND     |          | ND     |           | 1,705  | 47 |
|            |       | 1985      | 2,096  | 54        | ND     |             | ND     |          | ND     |           | 2,095  | 54 |
|            |       | 1986      | 1,316  | 54        | 382    |             | 565    | 58       | 1,273  | 51        | 1,001  | 54 |
| 1987       |       | 1,070     | 51     | 555       | 51     | 240         | 55     | 2,499    | 50     | 1,077     | 51     |    |
| 1988       |       | 1,500     | 53     | 580       | 52     | 235         | 42     | 2,187    | 52     | 1,208     | 52     |    |
| 1989       |       | 1,086     | 47     | 706       | 48     | 1,985       | 50     | 2,278    | 49     | 1,463     | 48     |    |
| 1990       |       | 2,996     | 45     | 417       | 48     | 1,401       | 53     | 1,495    | 45     | 1,971     | 46     |    |
| 1991       |       | 4,927     | 48     | 1,040     | 51     | 1,538       | 54     | 1,016    | 48     | 2,615     | 49     |    |
| 1992       |       | 4,601     | 51     | 622       | 52     | 92          | 48     | 283      | 54     | 2,168     | 51     |    |
| 1993       |       | 3,895     | 54     | 396       | 54     | 500         | 51     | 296      | 59     | 1,926     | 54     |    |
| 1994       |       | 3,002     | 52     | 805       | 48     | 573         | 47     | 1,010    | 46     | 1,749     | 50     |    |
| 1995       |       | 2,656     | 53     | 1,193     | 49     | 987         | 52     | 4,192    | 52     | 2,354     | 52     |    |
| 1996       |       | 3,023     | 47     | 1,748     | 50     | 1,740       | 47     | 3,912    | 52     | 2,714     | 49     |    |
| Market     |       | 1984      | 447    | 91        | ND     |             | ND     |          | ND     |           | 447    | 91 |
|            |       | 1985      | 674    | 88        | ND     |             | ND     |          | ND     |           | 674    | 88 |
|            |       | 1986      | 617    | 88        | 212    | 92          | 444    | 92       | 191    | 86        | 438    | 89 |
|            | 1987  | 370       | 91     | 167       | 91     | 258         | 93     | 411      | 86     | 323       | 90     |    |
|            | 1988  | 397       | 89     | 201       | 91     | 23          | 89     | 402      | 87     | 284       | 88     |    |
|            | 1989  | 232       | 90     | 177       | 90     | 414         | 90     | 282      | 85     | 275       | 89     |    |
|            | 1990  | 179       | 88     | 114       | 89     | 445         | 88     | 99       | 83     | 215       | 88     |    |
|            | 1991  | 502       | 87     | 216       | 89     | 377         | 91     | 65       | 84     | 349       | 88     |    |
|            | 1992  | 796       | 87     | 164       | 88     | 24          | 93     | 40       | 83     | 384       | 87     |    |
|            | 1993  | 1,346     | 88     | 204       | 92     | 74          | 87     | 161      | 87     | 664       | 87     |    |
|            | 1994  | 1,214     | 90     | 313       | 95     | 287         | 93     | 355      | 93     | 708       | 91     |    |
|            | 1995  | 760       | 89     | 433       | 92     | 415         | 93     | 1,056    | 92     | 690       | 91     |    |
|            | 1996  | 683       | 89     | 698       | 90     | 604         | 94     | 1,442    | 91     | 811       | 88     |    |

<sup>a</sup>Spat (5-25 mm), small (26-75 mm), market (>76 mm). Mean total length not calculated for spat.

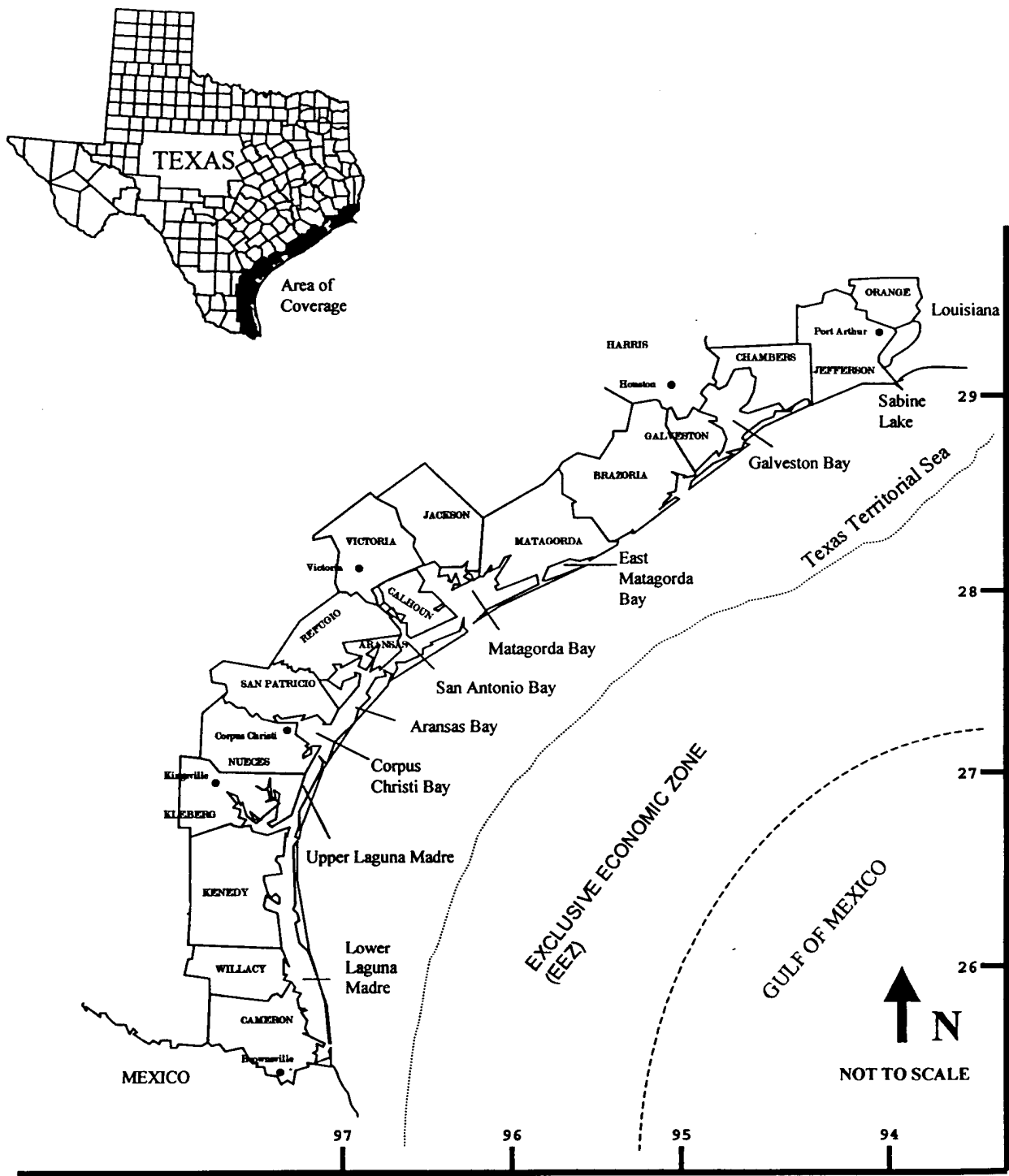


Figure 1. Texas gulf shoreline and Texas Territorial Sea (TTS).

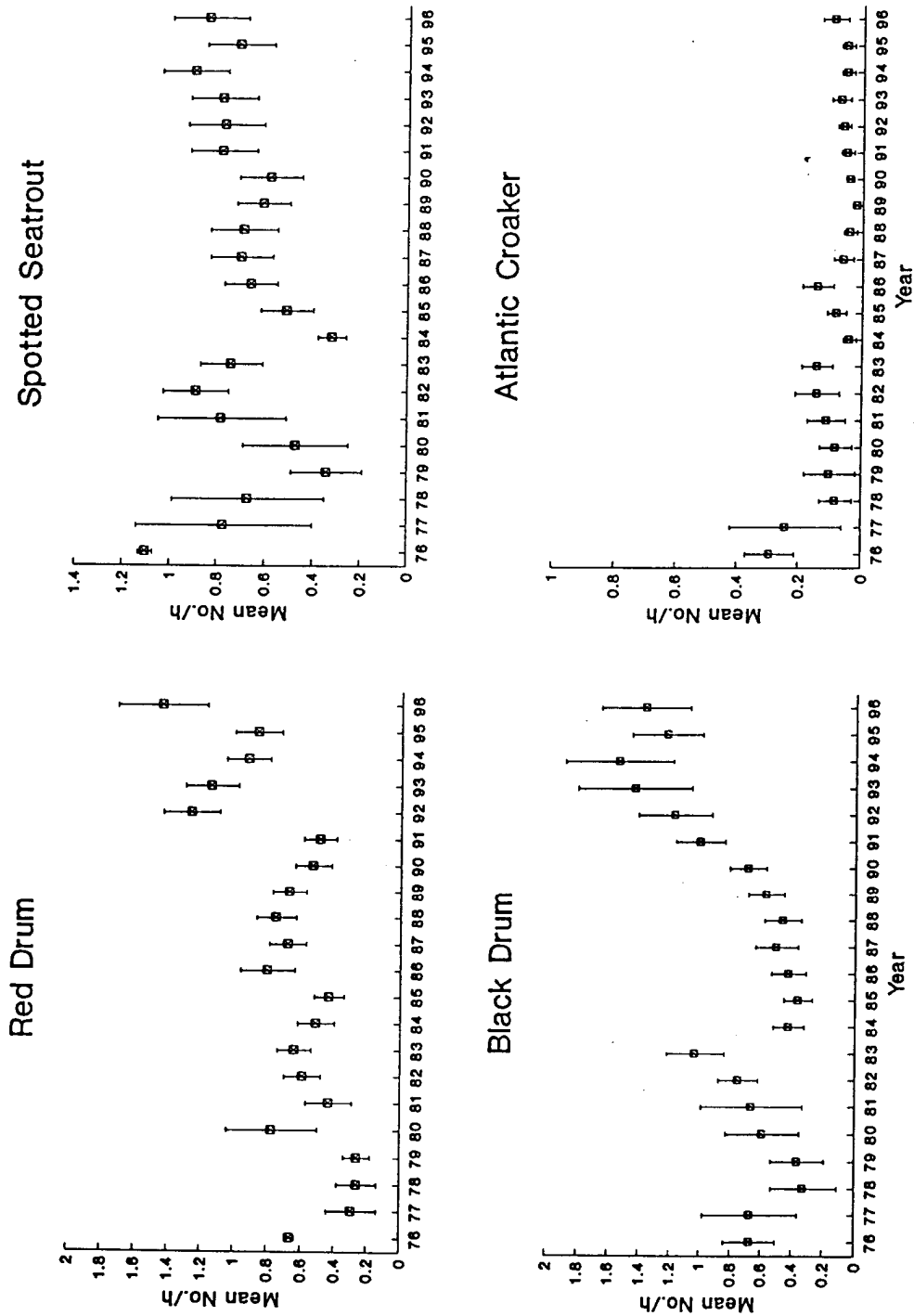


Figure 2. Spring gill net mean catch rates (No./h  $\pm$  1SE) for red drum, black drum, spotted seatrout and Atlantic croaker during 1976-96.

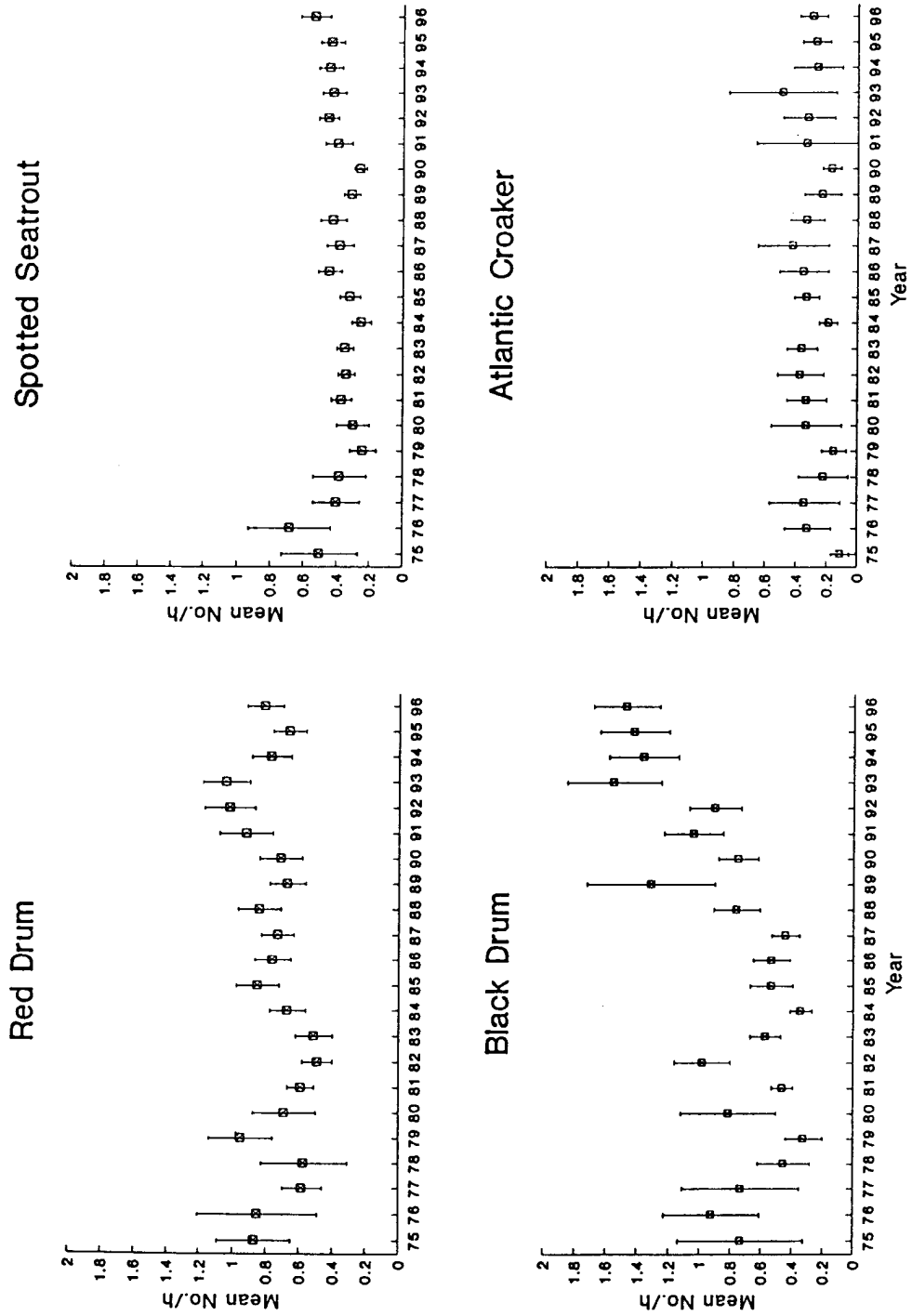


Figure 3. Fall gill net mean catch rates (No./h  $\pm$  1SE) for red drum, black drum, spotted seatrout and Atlantic croaker during 1975-96.

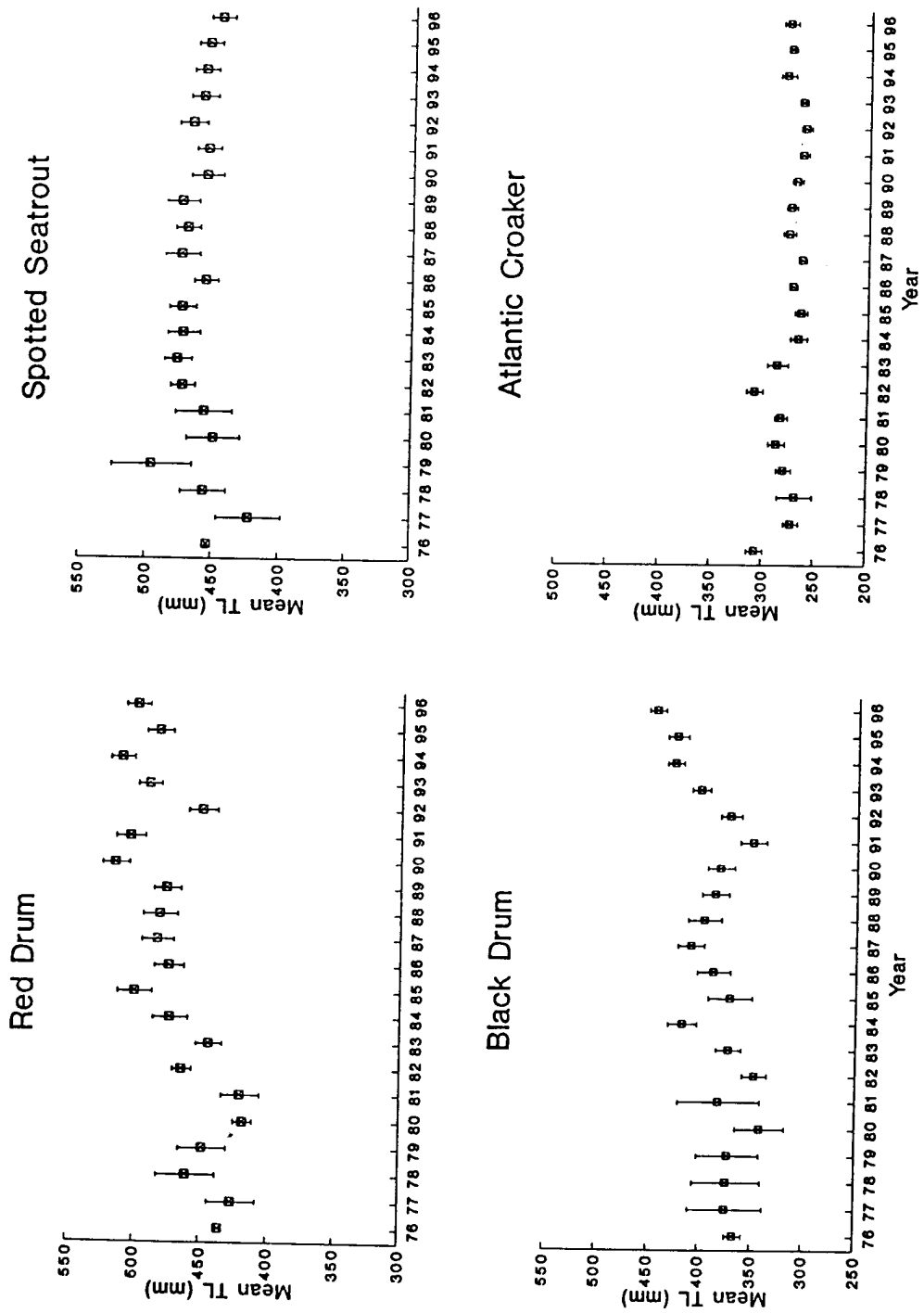


Figure 4. Spring gill net mean total lengths (mm  $\pm$  1SE) for red drum, black drum, spotted seatrout and Atlantic croaker during 1976-96.

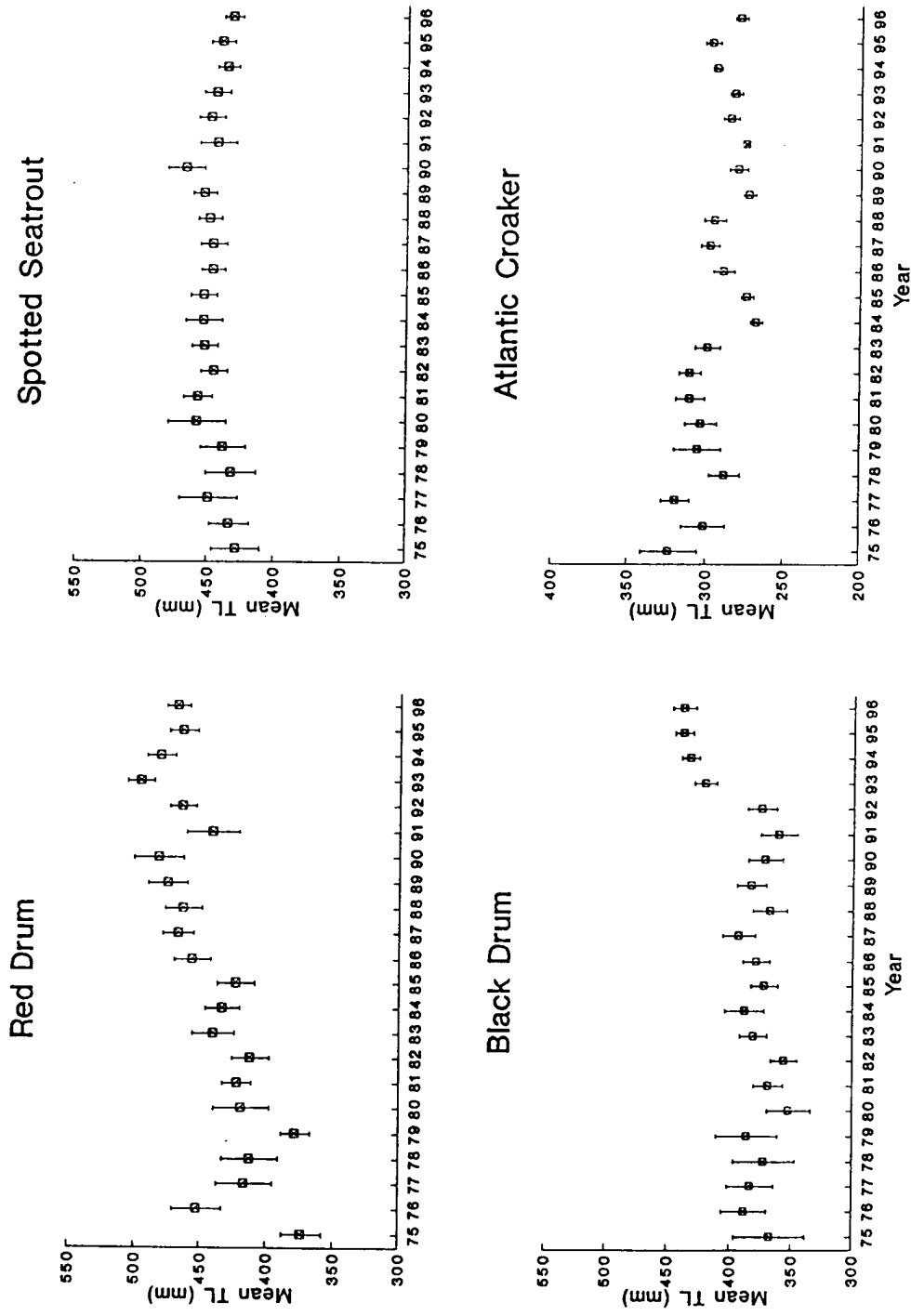


Figure 5. Fall gill net mean total lengths (mm  $\pm$  1SE) for red drum, black drum, spotted seatrout and Atlantic croaker during 1975-96.

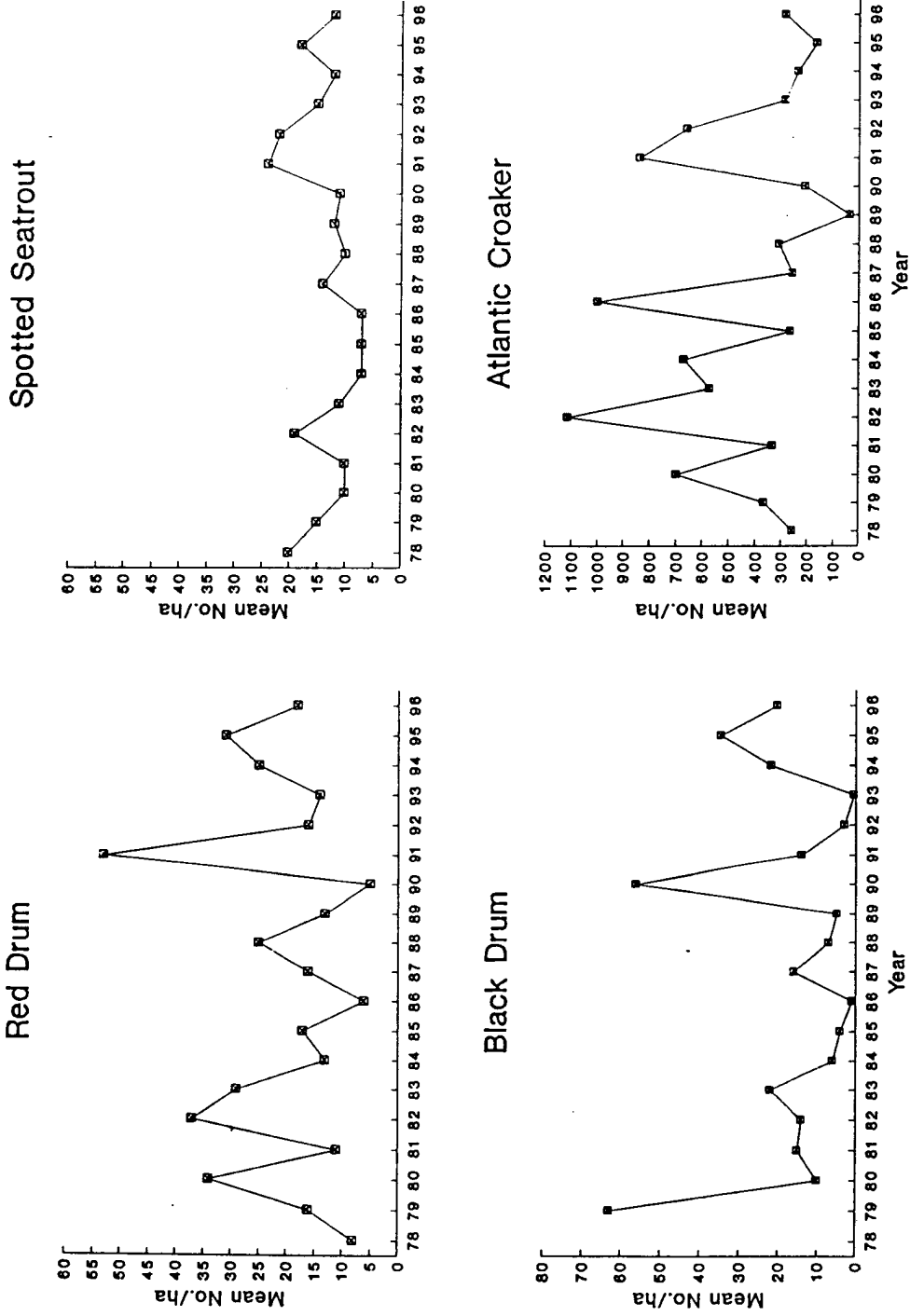


Figure 6. Seasonal bag seine mean catch rates (No./ha) for juvenile red drum (Nov-Mar), black drum (Jun-Jul), spotted seatrout (Jul-Nov) and Atlantic croaker (Feb-May) during 1978-96. Red drum 35-75 mm, spotted seatrout 20-75 mm, black drum 35-110 mm and Atlantic croaker 30-85 mm are considered to be young-of-the-year.

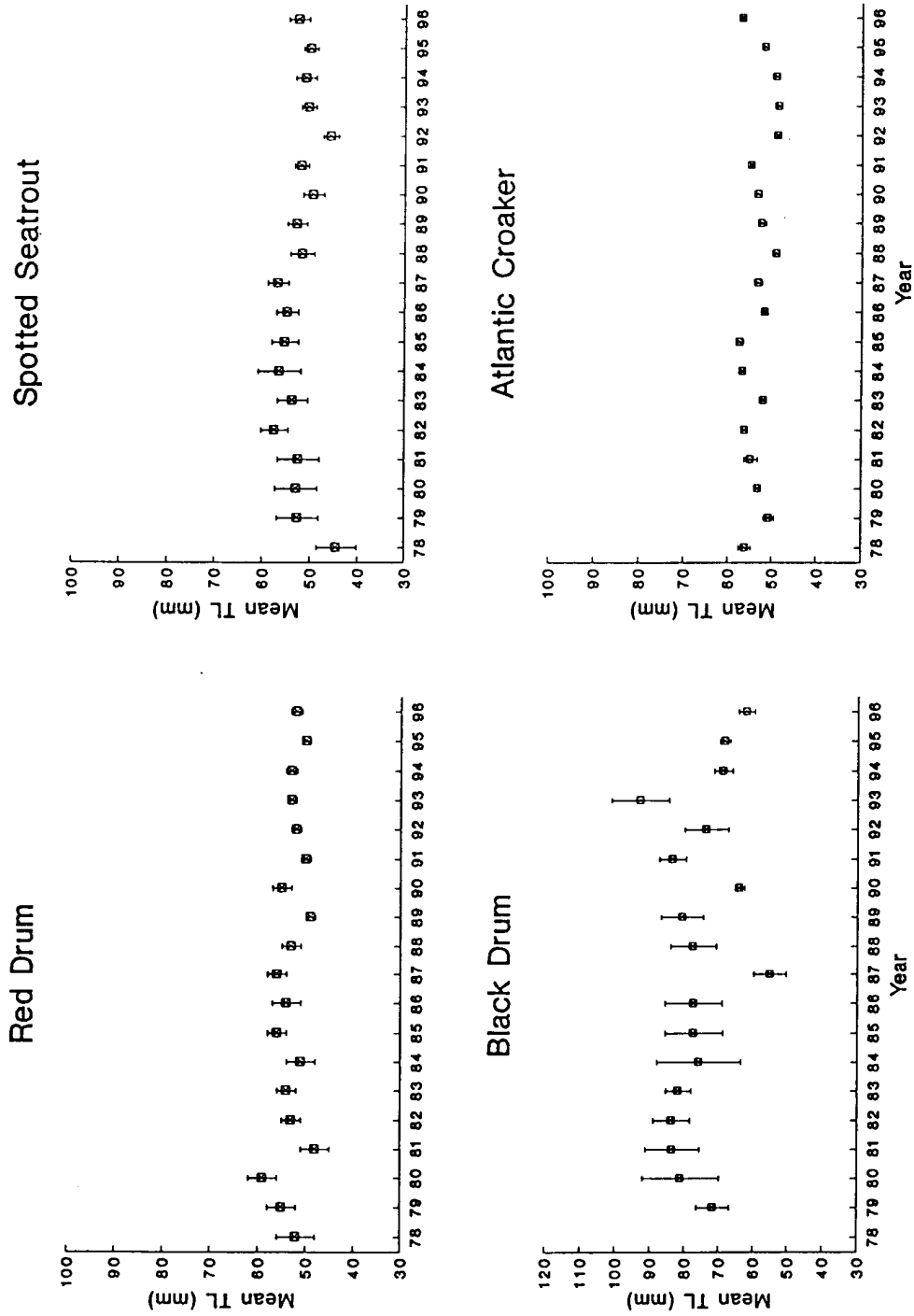


Figure 7. Seasonal bag seine mean total lengths (mm  $\pm$  1SE) for juvenile red drum (Nov-Mar), black drum (Jun-Jul), spotted seatrout (Jul-Nov) and Atlantic croaker (Feb-May) during 1978-96. Red drum 35-75 mm, spotted seatrout 20-75 mm, black drum 30-85 mm and Atlantic croaker 30-85 mm are considered to be young-of-the-year.



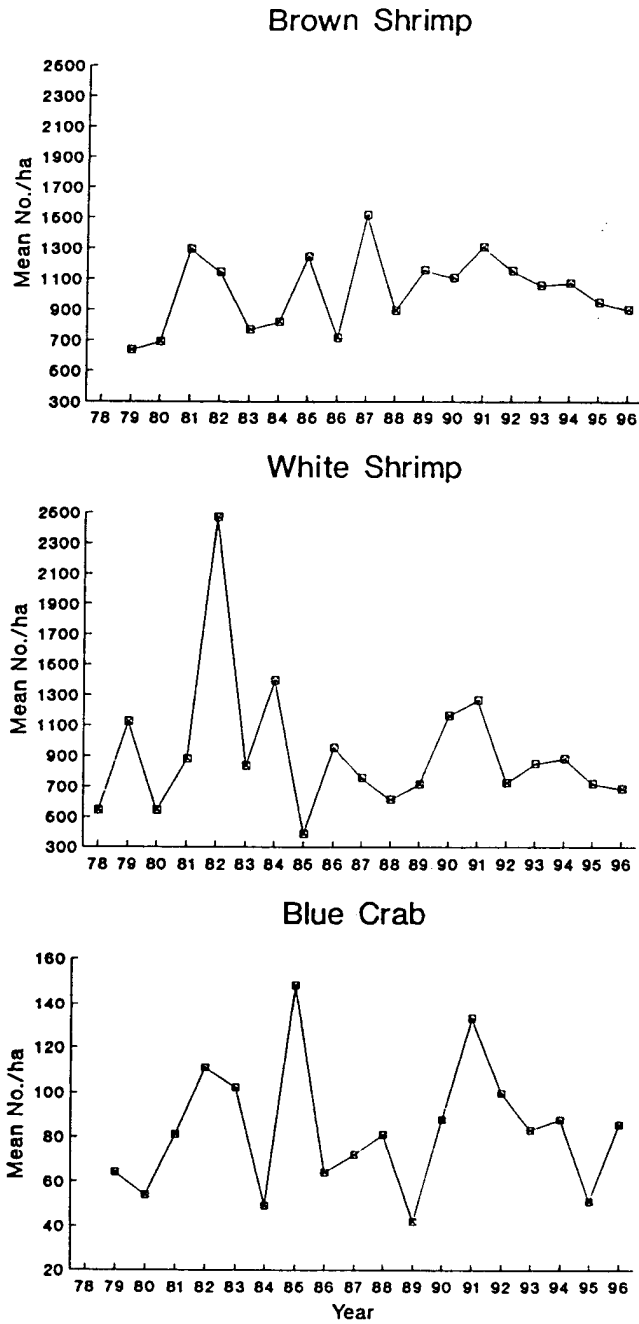


Figure 8. Seasonal bag seine mean catch rates (No./ha) for juvenile brown shrimp (Apr-Jul), white shrimp (Jul-Nov) and blue crab (Mar-Jun) during 1978-96. Brown and white shrimp 33-82 mm and blue crab 13-42 mm are considered to be young-of-the-year.

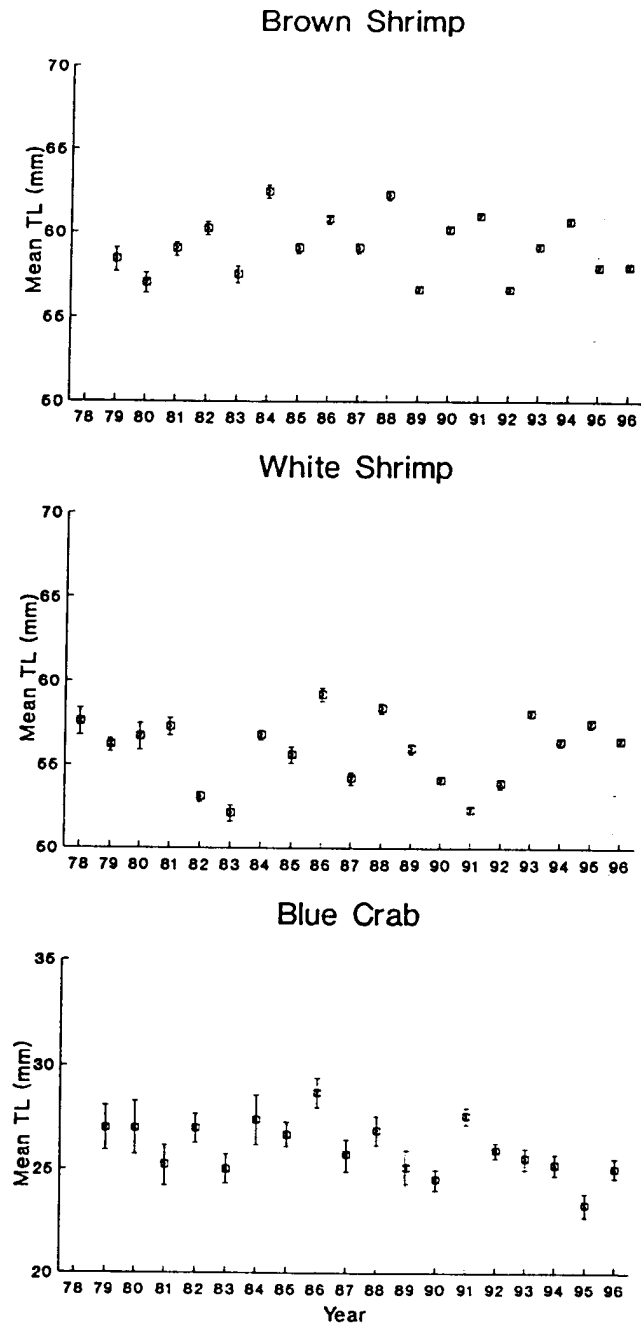


Figure 9. Seasonal bag seine mean total lengths (mm  $\pm$  1SE) for brown shrimp (Apr-Jul), white shrimp (Jul-Nov) and blue crab (Mar-Jun) during 1978-96. Brown and white shrimp 33-82 mm and blue crab 13-42 mm are considered to be young-of-the-year.

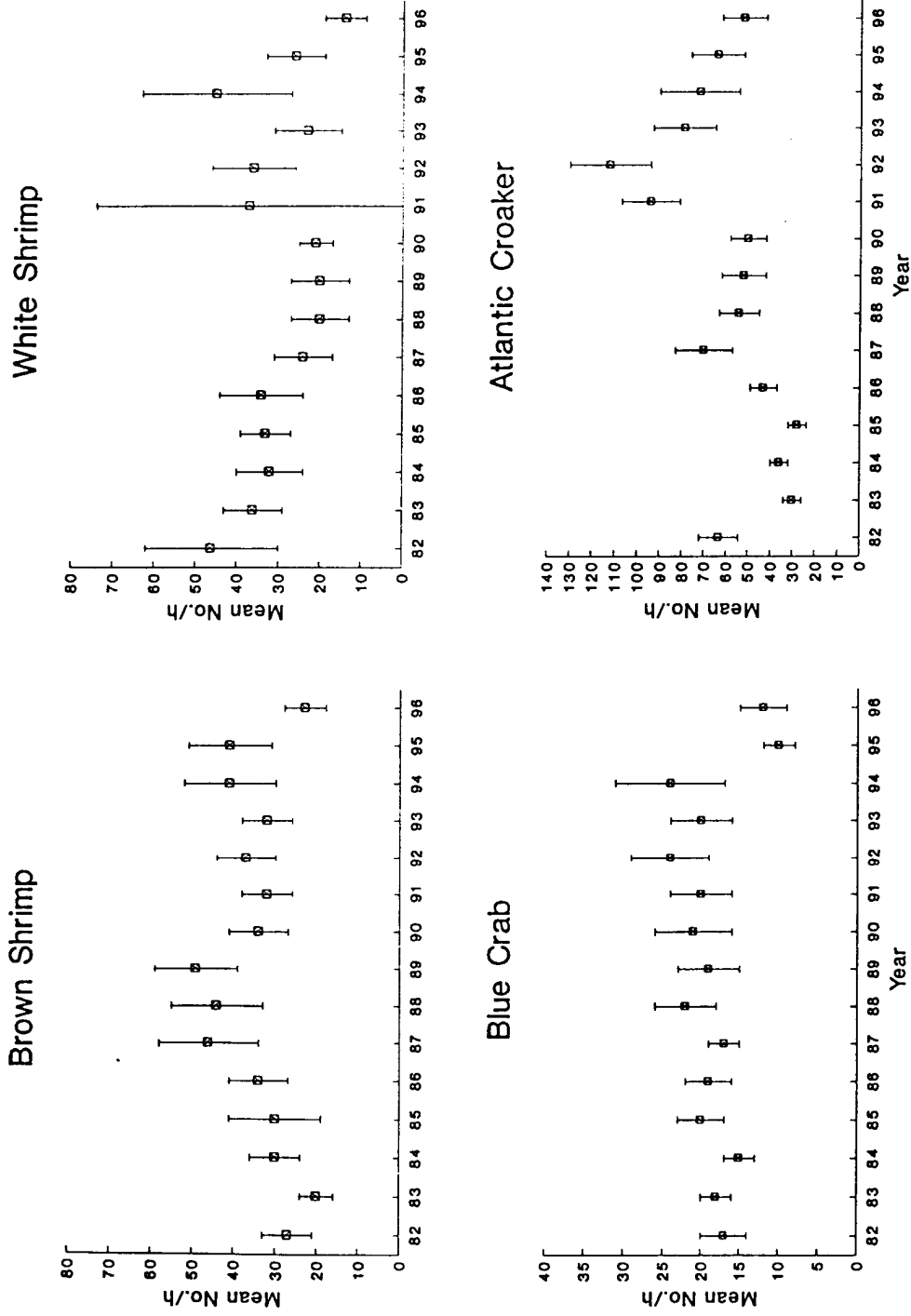


Figure 10. Annual bay trawl catch rates (No./h  $\pm$  1SE) for brown shrimp, white shrimp, blue crab and Atlantic croaker during 1982-96.

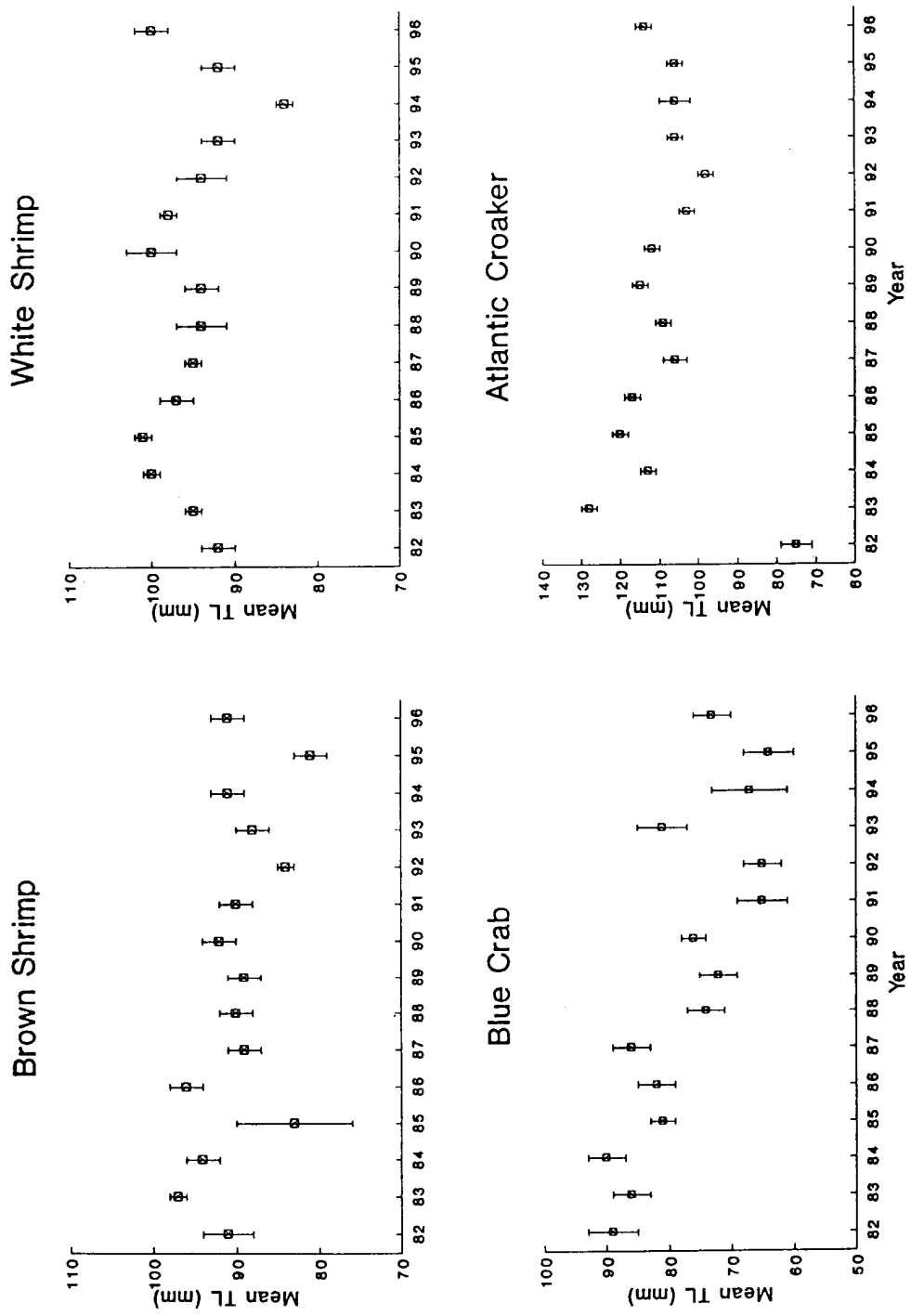


Figure 11. Annual bay trawl mean total lengths (mm  $\pm$  1SE) for brown shrimp, white shrimp, blue crab and Atlantic croaker during 1982-96.

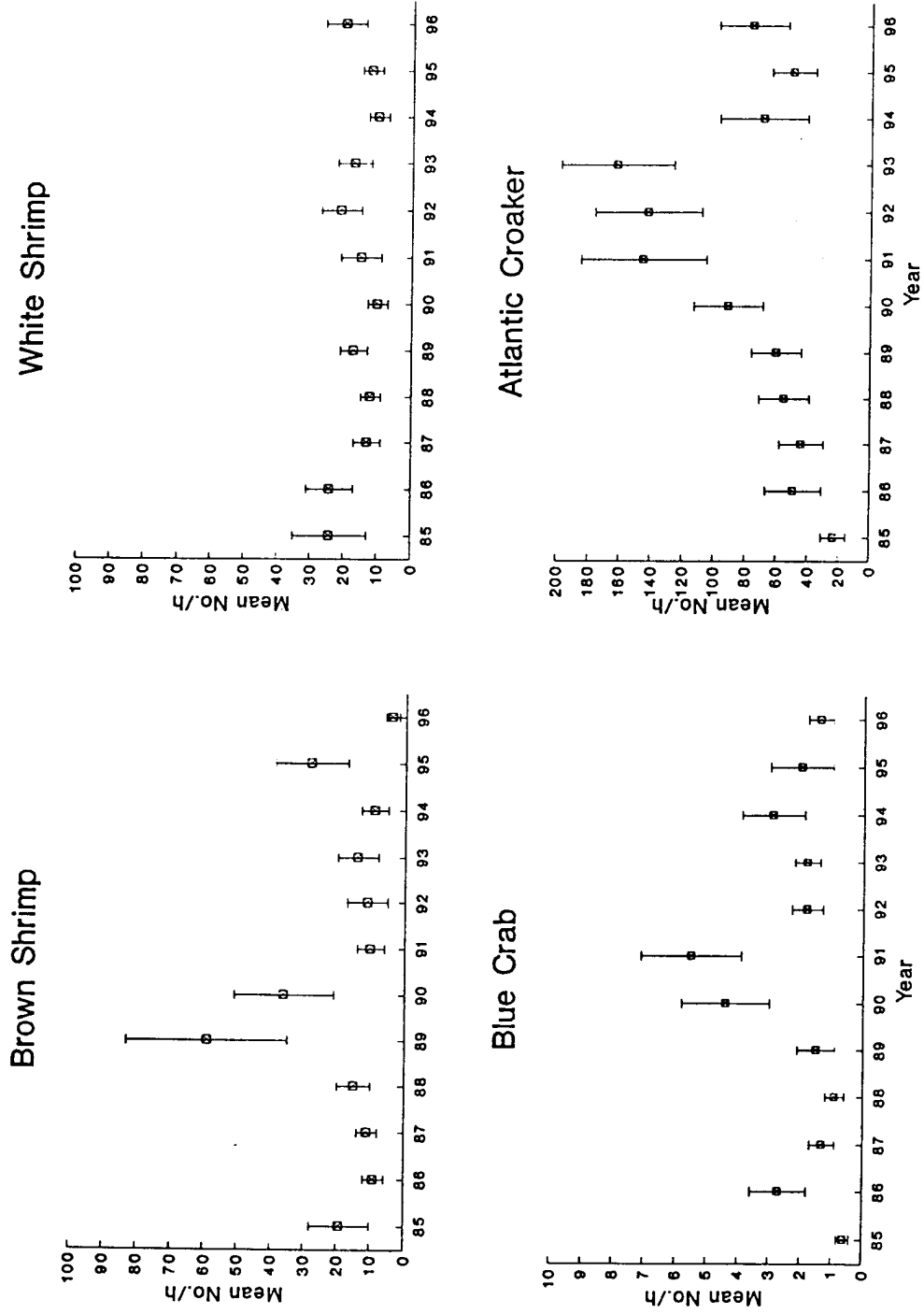


Figure 12. Annual gulf trawl mean catch rates (No./h  $\pm$  1SE) for brown shrimp, white shrimp, blue crab and Atlantic croaker during 1982-96.

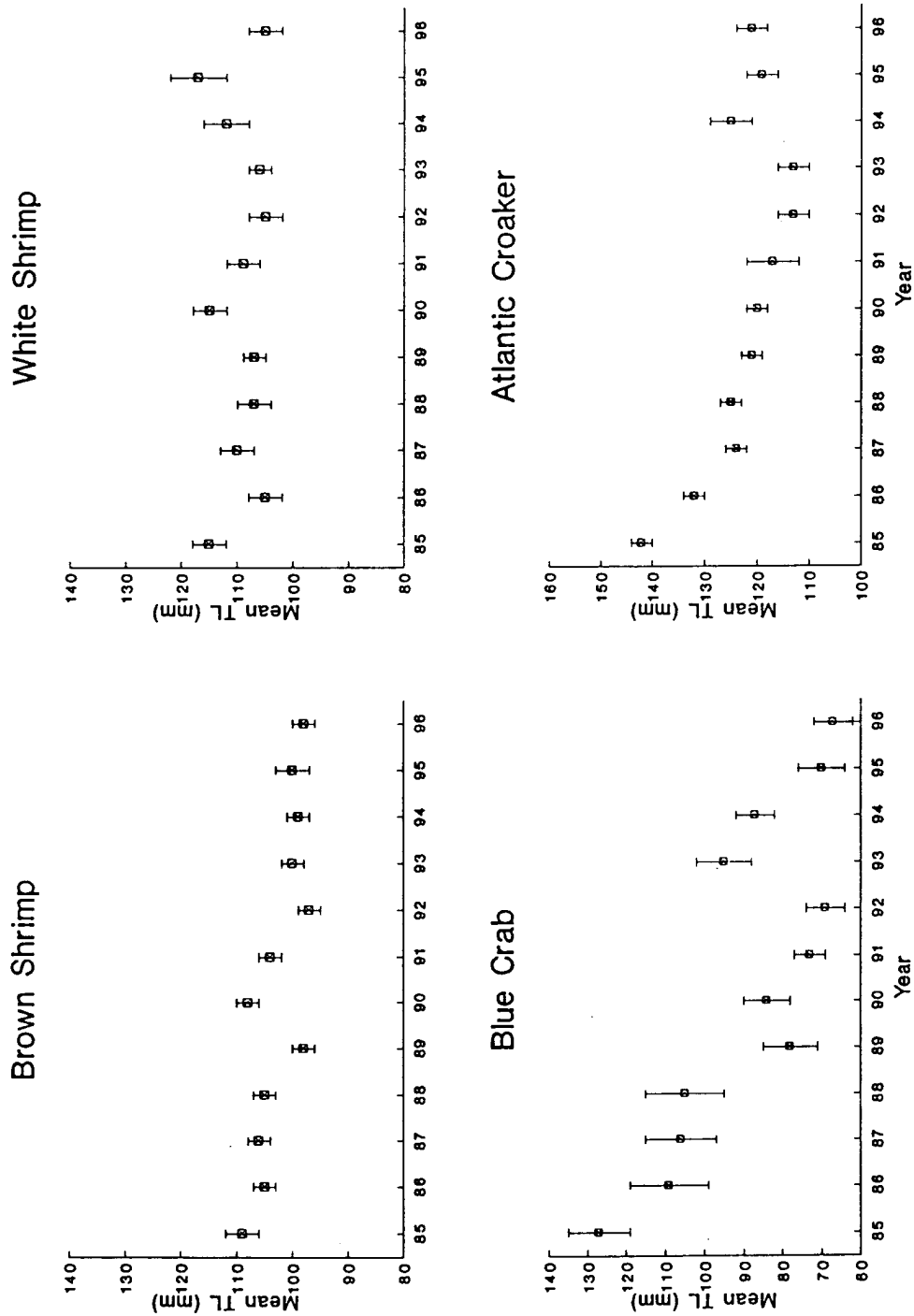


Figure 13. Annual gulf trawl mean total lengths (mm  $\pm$  1SE) for brown shrimp, white shrimp, blue crab and Atlantic croaker during 1982-96.

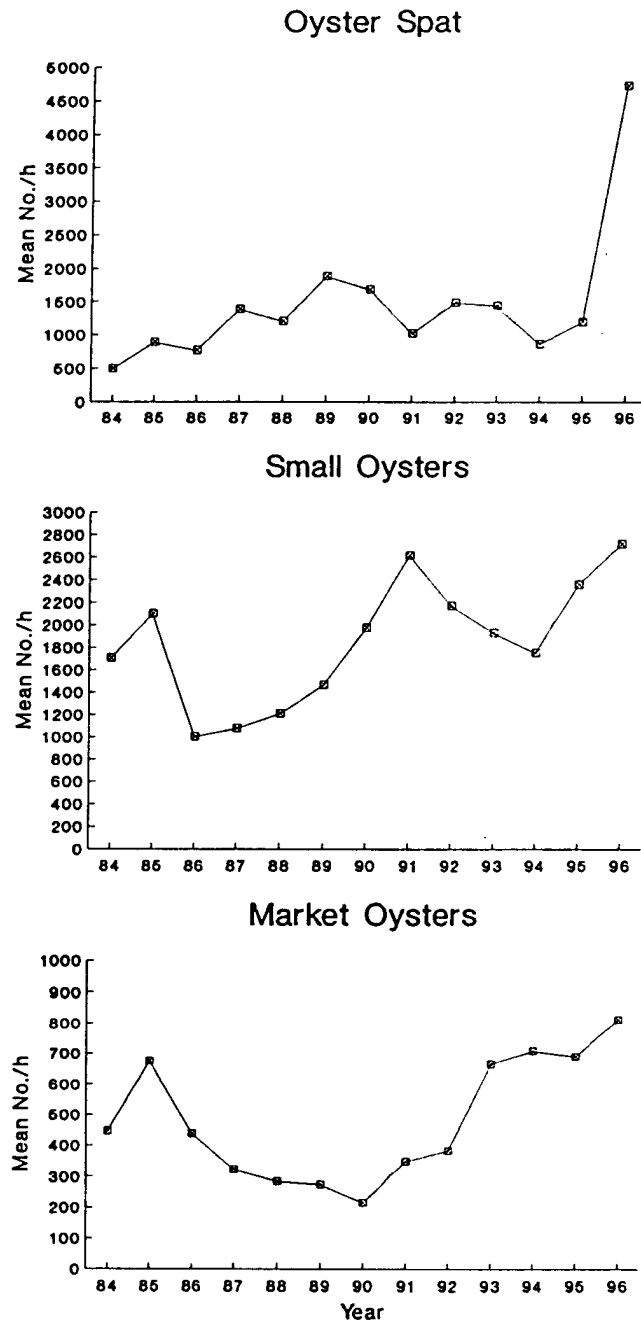


Figure 14. Annual mean oyster dredge catch rates (No./h) for Eastern oyster spat (<25 mm), small oysters (26-75 mm) and market oysters (>76 mm) during 1984-96.

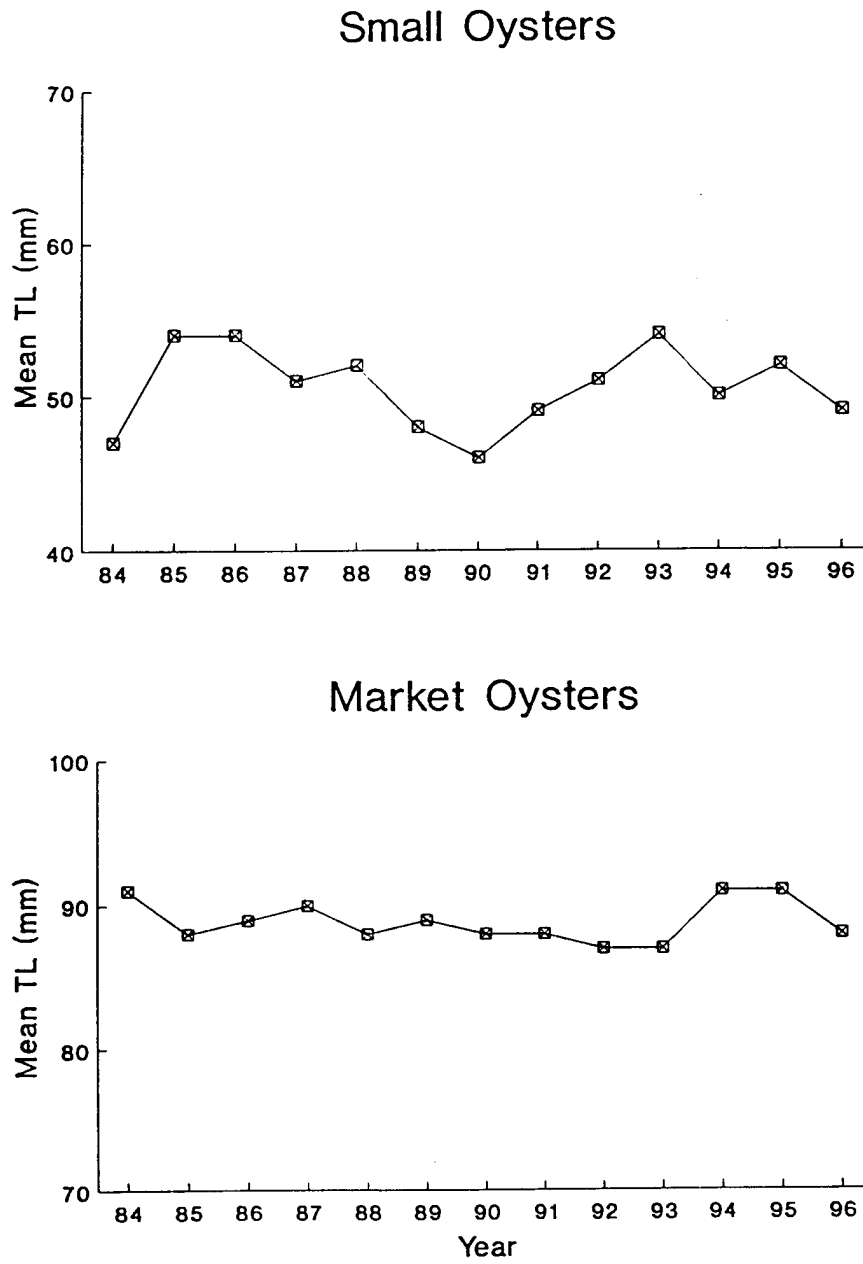


Figure 15. Annual mean oyster dredge total lengths (mm) for small and market Eastern oysters during 1984-96.



Appendix A. Summary of historical sampling dates, gear description, procedures, dates, number of samples collected, weighting factors, and list of species collected.

Table A.1. Historical sampling dates (month/year) by bay system and gear.

| GEAR               | SABINE              | GALVESTON           | EAST MATAGORDA      | MATAGORDA           | SAN ANTONIO         | ARANSAS             | CORPUS CHRISTI      | UPPER LAGUNA        | LOWER LAGUNA        |
|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| GILL NET           | April 1986- Present | Nov. 1975- Present  | Oct. 1976- Present  | Nov. 1975- Present  | Nov. 1975- Present  | Nov. 1975- Present  | Nov. 1975- Present  | Nov. 1975- Present  | Nov. 1975- Present  |
| GULF TRAWL         | Jul. 1986- Present  | Aug. 1985- Present  | Not used.           | Not used.           | Aug 1985- Present   | Not used.           | Feb. 1985- Present  | Not used.           | Aug. 1985- Present  |
| BAY TRAWL          | Jan. 1986- Present  | Jan. 1982- Present  | April 1987- Present | May 1982- Present   | Jan. 1982- Present  | Jan. 1982- Present  | May 1982- Present   | May 1982- Present   | May 1982- Present   |
| ICWW TRAWL         | Jan. Dec. 1992-1995 | Jan. Dec. 1992-1995 | Jan. Dec. 1992-1995 | Jan. Dec. 1992-1995 | Jan. Dec. 1992-1995 | Jan. Dec. 1992-1995 | Jan. Dec. 1992-1995 | Jan. Dec. 1992-1995 | Jan. Dec. 1992-1995 |
| BEACH SEINE        | Oct. Nov. 1987-1995 | Oct. Nov. 1987-1995 | Oct. Nov. 1987-1995 | Not used.           | Oct. Nov. 1987-1995 | Oct. Nov. 1987-1991 | Not used.           | Oct. Nov. 1987-1995 | Oct. Nov. 1987-1995 |
| BEACH BAG SEINE    | Oct. Nov. 1987-1995 | Oct. Nov. 1987-1995 | Oct. Nov. 1987-1995 | Not used.           | Oct. Nov. 1987-1995 | Oct. Nov. 1987-1991 | Not used.           | Oct. Nov. 1987-1995 | Oct. Nov. 1987-1995 |
| BAY BAG SEINE      | Jan. 1986- Present  | Oct. 1977- Present  | Feb. 1983- Present  | Oct. 1977- Present  | Oct. 1977- Present  | Oct. 1977- Present  | Oct. 1977- Present  | Oct. 1977- Present  | Oct. 1977- Present  |
| OYSTER REEF DREDGE | Jan. 1986-1991      | Oct. 1984- Present  | Jan. 1986-1991      | Jan 1986- Present   | Jan. 1986- Present  | Jan. 1986- Present  | Jan. 1986-1991      | Not used.           | Jan. 1986-1991      |
| NON-REEF DREDGE    | 1986-1989           | 1985-1989           | 1986-1989           | 1986-1989           | 1986-1989           | 1986-1989           | 1986-1989           | 1986-1988           | 1986-1988           |

Table A.2. Gear descriptions.

| GEAR          | GEAR DESCRIPTION  |
|---------------|---|
| Gill Net      | Monofilament, 183 m long; 1.2 m deep with separate 45.7-m sections of 7.6-, 10.2- (#12 monofilament), 12.7- and 15.2-cm (#18 monofilament) stretched mesh tied together in ascending mesh size.                       |
| Trawl         | 6.1 m wide at mouth with 3.8-cm stretched nylon multifilament mesh throughout and doors 1.2 m long and 0.5 m tall.  |
| Beach Seine   | 60.9-m long; 1.8-m deep with 7.6-cm stretched #12 monofilament mesh.  |
| Bag Seine     | 18.3 m long; 1.8 m deep with 1.3-cm stretched nylon multifilament mesh in the 1.8 m wide central bag with remaining webbing 1.9-cm stretched mesh.  |
| Oyster Dredge | Louisiana style 9-tooth; 46 cm wide, 25 cm tall with a 36-cm deep bag. Four bottom rows and one top row of linked metal rings 5 cm in diameter; top and bottom rows of 7.6-cm mesh webbing made of 0.8-cm nylon rope. |

Table A.3. Historical sampling procedures by gear.

| HISTORICAL SAMPLING PROCEDURES |  |
|--------------------------------|--|
| GEAR                           |  |
| GILL NET                       | <p>Monofilament gill nets have been systematically used in 7 Texas bay systems since November 1975; East Matagorda Bay was added in fall 1976 and Sabine Lake in spring 1986 (Figure 1). Prior to September 1984, sites for setting gill nets during spring (Ten week period, generally, 15 April-15 June) and fall (Ten week period, generally, 15 September-15 November) were randomly selected from about 100 stations in each bay system (McEachron and Green 1985). Beginning September 1984 current site selection methods were adopted.</p> <p>Prior to fall 1981, no less than one nor more than 18 overnight gill net sets occurred in each season in each bay system. Since fall 1981, 45 gill nets were set overnight during each season in each bay system except East Matagorda Bay. In East Matagorda Bay, from fall 1981 to spring 1984 not less than six nor more than 12 gill nets were set during each season; since fall 1984, 20 sets were set in each season.</p>   |
| GULF TRAWLS                    | <p>Trawls have been systematically used in 4 Gulf areas of Texas Territorial Seas since August 1985, and a total of 5 areas since July 1986.</p>   |
| BAY TRAWLS                     | <p>Trawls have been systematically used in 3 Texas bays since January 1982 and in 7 bays since May 1982; Sabine Lake was added January 1986 and East Matagorda Bay April 1987. From January 1982 to present, 20 monthly samples were collected in the Galveston, San Antonio and Aransas systems. Beginning in May 1982, 20 monthly samples were collected in Matagorda and Corpus Christi Bay systems, and 10 in upper and lower Laguna Madre. Beginning in January 1986 in the Sabine system, and in April 1987 in the East Matagorda system, 10 monthly samples were collected.</p>   |
| ICWW TRAWLS                    | <p>From January 1992 through December 1995, 6 monthly samples were collected in each of the 9 bay systems along the Texas coast.</p>   |
| BEACH SEINE                    | <p>Beach seines have been systematically used on Texas Gulf beaches from October 1987 through November 1995. Six beach seine samples were collected each month (from October 1987-November 1989; from May-November 1990-1995) along Gulf beach shoreline areas. (Dailey et al. 1991)</p>   |
| BEACH BAG SEINE                | <p>Beach bag seine samples have been systematically used on Texas Gulf beaches from October 1987 through November 1995. Six beach bag seine samples were collected each month (from October 1987-November 1989; from May-November 1990-1995) along Gulf beach shoreline areas. (Dailey et al. 1991)</p>  |
| BAY BAG SEINE                  | <p>Bay bag seine samples have been systematically collected in 7 Texas bay systems since October 1977; sample collection began in the East Matagorda system February 1983, and in the Sabine system in January 1986. Bay bag seine samples were collected by pulling the seine 15.2-30.5 m parallel to shore prior to September 1984; since then it has been pulled 15.2 m. Prior to September 1984, sites for sampling with bag seines (monthly) were randomly selected from about 100 stations in each bay system (McEachron and Green 1985). Prior to October 1981, six bag seine samples were collected each month in each bay system (except during June 1978 when no samples were collected). During October 1981 through August 1984 10 bag seine samples were collected each month in each bay system; half of the samples were collected during each of the first and last two fullest weeks of each month (McEachron and Green 1985). Beginning September 1984, half of the monthly samples were collected during the 1st-15th and half during the 16th-</p> |

Table A.3. (Cont.)

|                                      |  |
|--------------------------------------|--|
| <p>BAY BAG<br/>SEINE<br/>(cont.)</p> | <p>31st of each month. From April 1988 through December 1989 12 bag seine samples were collected each month in each bay system. Beginning January 1990, 16 bag seine samples were collected each month in each bay system. Beginning January 1992, 20 samples were collected in each bay system each month, except in East Matagorda where only 10 samples were collected per month.</p>   |
| <p>OYSTER<br/>REEF<br/>DREDGE</p>    | <p>Oyster dredges have been systematically used in Texas bays since January 1986. The number of monthly samples collected in the Galveston system were: 20 in 1984; 80 in 1985; and 56 in 1986-1991. Monthly samples collected in the Aransas system were: 56 in 1986-1989; and 26 in 1990-1991. From 1986 to 1991 10 samples per month were collected in Sabine Lake and the Lower Laguna Madre and 26 monthly samples were collected in the Matagorda, San Antonio, Corpus Christi and East Matagorda systems. Beginning January 1992 30 samples were collected each month in the Galveston system, and 20 samples in the Matagorda, San Antonio and Aransas systems. Sampling in other systems was discontinued beginning January 1992.</p> |
| <p>NON-REEF<br/>DREDGE</p>           | <p>Non-reef dredge samples were systematically collected in Texas bays from 1985-1989. In 1985 10 monthly samples were collected in the Galveston system. From 1986-1989 10 monthly samples were collected in all bay systems.</p>   |

Table A.4. Number of samples collected during routine monitoring by bay, gear, and year.

| Gear              | Year      | East        |           |           |             |                    | Aransas | Christi | Upper Laguna Madre |     | Coastwide |       |
|-------------------|-----------|-------------|-----------|-----------|-------------|--------------------|---------|---------|--------------------|-----|-----------|-------|
|                   |           | Sabine Lake | Galveston | Matagorda | San Antonio | Lower Laguna Madre |         |         |                    |     |           |       |
| Bay Bag Seine     | 1977      | 0           | 22        | 0         | 22          | 22                 | 22      | 22      | 22                 | 22  | 154       |       |
|                   | 1978      | 0           | 66        | 0         | 66          | 66                 | 66      | 66      | 66                 | 66  | 462       |       |
|                   | 1979      | 0           | 72        | 0         | 72          | 72                 | 72      | 72      | 72                 | 72  | 504       |       |
|                   | 1980      | 0           | 72        | 0         | 72          | 72                 | 72      | 72      | 72                 | 72  | 504       |       |
|                   | 1981      | 0           | 84        | 0         | 84          | 84                 | 84      | 84      | 84                 | 84  | 588       |       |
|                   | 1982      | 0           | 120       | 0         | 120         | 120                | 120     | 120     | 120                | 120 | 840       |       |
|                   | 1983      | 0           | 120       | 110       | 120         | 120                | 120     | 120     | 120                | 120 | 950       |       |
|                   | 1984      | 0           | 120       | 120       | 120         | 120                | 120     | 120     | 120                | 120 | 960       |       |
|                   | 1985      | 0           | 120       | 120       | 120         | 120                | 120     | 120     | 120                | 120 | 960       |       |
|                   | 1986      | 120         | 120       | 120       | 120         | 120                | 120     | 120     | 120                | 120 | 1,080     |       |
|                   | 1987      | 120         | 120       | 120       | 120         | 120                | 120     | 120     | 120                | 120 | 1,080     |       |
|                   | 1988      | 138         | 138       | 138       | 138         | 138                | 138     | 138     | 138                | 138 | 1,242     |       |
|                   | 1989      | 144         | 144       | 144       | 144         | 144                | 144     | 144     | 144                | 144 | 1,296     |       |
|                   | 1990      | 192         | 192       | 192       | 192         | 192                | 192     | 192     | 192                | 192 | 1,728     |       |
|                   | 1991      | 192         | 192       | 192       | 192         | 192                | 192     | 192     | 192                | 192 | 1,728     |       |
|                   | 1992      | 240         | 240       | 240       | 240         | 240                | 240     | 240     | 240                | 240 | 2,040     |       |
|                   | 1993      | 240         | 240       | 240       | 240         | 240                | 240     | 240     | 240                | 240 | 2,040     |       |
|                   | 1994      | 240         | 240       | 240       | 240         | 240                | 240     | 240     | 240                | 240 | 2,040     |       |
|                   | 1995      | 240         | 240       | 240       | 240         | 240                | 240     | 240     | 240                | 240 | 2,040     |       |
|                   | 1996      | 240         | 240       | 240       | 240         | 240                | 240     | 240     | 240                | 240 | 2,040     |       |
|                   | Bay Trawl | 1977        | 0         | 9         | 0           | 10                 | 10      | 0       | 0                  | 0   | 10        | 39    |
|                   |           | 1978        | 0         | 55        | 0           | 52                 | 45      | 0       | 0                  | 0   | 55        | 207   |
|                   |           | 1979        | 0         | 55        | 0           | 47                 | 0       | 0       | 0                  | 0   | 55        | 157   |
|                   |           | 1980        | 0         | 1         | 0           | 0                  | 0       | 0       | 0                  | 0   | 0         | 1     |
|                   |           | 1981        | 0         | 0         | 0           | 0                  | 0       | 0       | 0                  | 0   | 0         | 0     |
|                   |           | 1982        | 0         | 240       | 0           | 240                | 240     | 160     | 160                | 80  | 160       | 1,200 |
| 1983              |           | 0           | 240       | 0         | 240         | 240                | 240     | 240     | 240                | 120 | 1,440     |       |
| 1984              |           | 0           | 240       | 0         | 240         | 240                | 240     | 240     | 240                | 120 | 1,440     |       |
| 1985              |           | 0           | 240       | 0         | 240         | 240                | 240     | 240     | 240                | 120 | 1,440     |       |
| 1986              |           | 240         | 240       | 0         | 240         | 240                | 240     | 240     | 240                | 120 | 1,440     |       |
| 1987              |           | 240         | 240       | 90        | 240         | 240                | 240     | 240     | 240                | 120 | 1,770     |       |
| 1988              |           | 240         | 240       | 120       | 240         | 240                | 240     | 240     | 240                | 120 | 1,800     |       |
| 1989              |           | 240         | 240       | 120       | 240         | 240                | 240     | 240     | 240                | 120 | 1,800     |       |
| 1990              |           | 120         | 240       | 120       | 240         | 240                | 240     | 240     | 240                | 120 | 1,680     |       |
| 1991              |           | 120         | 240       | 120       | 240         | 240                | 240     | 240     | 240                | 120 | 1,680     |       |
| 1992              |           | 120         | 240       | 120       | 240         | 240                | 240     | 240     | 240                | 120 | 1,680     |       |
| 1993              |           | 120         | 240       | 120       | 240         | 240                | 240     | 240     | 240                | 120 | 1,680     |       |
| 1994              |           | 120         | 240       | 120       | 240         | 240                | 240     | 240     | 240                | 120 | 1,680     |       |
| 1995              |           | 120         | 240       | 120       | 240         | 240                | 240     | 240     | 240                | 120 | 1,680     |       |
| 1996              |           | 120         | 240       | 120       | 240         | 240                | 240     | 240     | 240                | 120 | 1,680     |       |
| Gill Net (Spring) |           | 1976        | 0         | 2         | 0           | 1                  | 1       | 1       | 2                  | 1   | 1         | 9     |
|                   |           | 1977        | 0         | 8         | 4           | 4                  | 4       | 4       | 6                  | 6   | 4         | 40    |
|                   |           | 1978        | 0         | 6         | 6           | 8                  | 6       | 6       | 6                  | 6   | 6         | 50    |
|                   |           | 1979        | 0         | 10        | 10          | 11                 | 10      | 10      | 10                 | 10  | 10        | 79    |
|                   |           | 1980        | 0         | 8         | 9           | 9                  | 10      | 10      | 10                 | 9   | 10        | 75    |
|                   |           | 1981        | 0         | 7         | 6           | 7                  | 8       | 8       | 7                  | 7   | 7         | 57    |
|                   | 1982      | 0           | 45        | 6         | 45          | 45                 | 45      | 45      | 45                 | 45  | 321       |       |
|                   | 1983      | 0           | 45        | 8         | 45          | 45                 | 45      | 45      | 45                 | 45  | 323       |       |
|                   | 1984      | 0           | 45        | 7         | 45          | 45                 | 45      | 45      | 45                 | 45  | 322       |       |
|                   | 1985      | 0           | 45        | 45        | 45          | 45                 | 45      | 45      | 45                 | 45  | 335       |       |
|                   | 1986      | 45          | 45        | 20        | 45          | 45                 | 45      | 45      | 45                 | 45  | 380       |       |
|                   | 1987      | 45          | 45        | 20        | 45          | 45                 | 45      | 45      | 45                 | 45  | 380       |       |



Table A.6. Number of Gulf trawl samples collected during routine monitoring in 5 Gulf zones, by Gulf area and year.

| Gear       | Year | Sabine Lake | Galveston | Port O'Connor | Port Aransas | Port Isabel | Coastwide |
|------------|------|-------------|-----------|---------------|--------------|-------------|-----------|
| Gulf Trawl | 1985 | 0           | 80        | 80            | 176          | 80          | 416       |
|            | 1986 | 112         | 192       | 192           | 192          | 192         | 880       |
|            | 1987 | 192         | 192       | 192           | 192          | 192         | 960       |
|            | 1988 | 192         | 192       | 192           | 184          | 184         | 952       |
|            | 1989 | 192         | 192       | 189           | 184          | 189         | 949       |
|            | 1990 | 192         | 192       | 192           | 192          | 192         | 960       |
|            | 1991 | 192         | 192       | 192           | 184          | 192         | 952       |
|            | 1992 | 192         | 192       | 192           | 184          | 192         | 952       |
|            | 1993 | 192         | 192       | 192           | 192          | 192         | 960       |
|            | 1994 | 192         | 192       | 187           | 192          | 192         | 955       |
|            | 1995 | 192         | 192       | 192           | 184          | 192         | 952       |
|            | 1996 | 192         | 192       | 192           | 192          | 192         | 960       |



Table A.7. Weighting factors used in calculating coastwide average catch rates.

| Area               | Gill net and <sup>a</sup><br>bay bag seine | Bay <sup>b</sup><br>trawl | ICWW <sup>c</sup><br>trawl | Oyster <sup>d</sup><br>dredge | Gulf <sup>e</sup><br>trawl |
|--------------------|--|---------------------------|----------------------------|-------------------------------|----------------------------|
| <b>BAY SYSTEM</b>  |  |                           |                            |                               |                            |
| Sabine             | 75.6                                       | 1.220                     | 57.6                       |                               |                            |
| Galveston          | 411.2                                      | 9.408                     | 61.8                       | 126                           |                            |
| East Matagorda     | 64.4                                       | 0.101                     | 23.4                       |                               |                            |
| Matagorda          | 284.8                                      | 6.288                     | 27.4                       | 42                            |                            |
| San Antonio        | 225.2                                      | 3.680                     | 27.0                       | 66                            |                            |
| Aransas            | 263.5                                      | 2.251                     | 25.2                       | 55                            |                            |
| Corpus Christi     | 171.3                                      | 3.357                     | 13.8                       |                               |                            |
| Upper Laguna Madre | 222.3                                      | 1.534                     | 55.1                       |                               |                            |
| Lower Laguna Madre | 252.1                                      | 1.153                     | 46.6                       |                               |                            |
| Total              | 1,970.4                                    | 28.992                    | 337.9                      | 289                           |                            |
| <b>GULF AREA</b>   |  |                           |                            |                               |                            |
| Sabine             |  |                           |                            |                               | 266                        |
| Galveston          |  |                           |                            |                               | 273                        |
| Port O'Connor      |  |                           |                            |                               | 277                        |
| Port Aransas       |  |                           |                            |                               | 257                        |
| Port Isabel        |  |                           |                            |                               | 248                        |
| Total              |  |                           |                            |                               | 1,317                      |

- <sup>a</sup> Equals miles of shoreline (Matlock and Osborn 1982). Shallow-water surface areas and shoreline distances on the Texas coast).
- <sup>b</sup> Equals total bay surface area (divided by 10,000) minus 1977 estimate of shallow water area (<=1.2 m)(for the upper and lower Laguna Madre) or minus the mean of 1972 and 1977 estimates (for other bays)(Matlock and Osborn 1982).
- <sup>c</sup> Equals nautical miles of ICWW, trawls not done after 1995.
- <sup>d</sup> Equals total number of grids containing oyster reef.
- <sup>e</sup> Equals total number of Gulf trawlable grids.
- <sup>f</sup> No estimate was available for 1977 shallow water area, so 1977 area was estimated as proportion of sampling grid zones that are designated as trawls grids, times the total surface area of the bay.

Table A.8. Species caught (alphabetical by scientific name; Robins et al. 1991) in Texas marine waters by TPW sampling gear during 1975-1996. Common names are assigned by TPW for identification purposes.

| Scientific Name                    | Common Name            |
|------------------------------------|------------------------|
| <b>Finfish</b>                     |                        |
| <u>Abudefduf saxatilis</u>         | Sergeant major         |
| <u>Achirus lineatus</u>            | Lined sole             |
| <u>Adinia xenica</u>               | Diamond killifish      |
| <u>Aetobatis narinari</u>          | Spotted eagle ray      |
| <u>Agonostomus monticola</u>       | Mountain mullet        |
| <u>Albula vulpas</u>               | Bonefish               |
| <u>Alectis ciliaris</u>            | African pompano        |
| <u>Alosa chrysochloris</u>         | Skipjack herring       |
| <u>Aluterus heudeloti</u>          | Dotterel filefish      |
| <u>Aluterus schoepfi</u>           | Orange filefish        |
| <u>Aluterus scriptus</u>           | Scrawled filefish      |
| <u>Ambloplites rupestris</u>       | Rock bass              |
| <u>Ameiurus melas</u>              | Black bullhead         |
| <u>Ameiurus natalis</u>            | Yellow bullhead        |
| <u>Amia calva</u>                  | Bowfin                 |
| <u>Anchoa hepsetus</u>             | Striped anchovy        |
| <u>Anchoa lyolepis</u>             | Dusky anchovy          |
| <u>Anchoa mitchilli</u>            | Bay anchovy            |
| <u>Anchoa nasuta</u>               | Longnose anchovy       |
| <u>Ancylopsetta dilecta</u>        | Three-eye flounder     |
| <u>Ancylopsetta quadrocellata</u>  | Ocellated flounder     |
| <u>Anguilla rostrata</u>           | American eel           |
| <u>Antennarius radiosus</u>        | Singlespot frogfish    |
| <u>Antennarius striatus</u>        | Striated frogfish      |
| <u>Aplodinotus grunniens</u>       | Freshwater drum        |
| <u>Archosargus probatocephalus</u> | Sheepshead             |
| <u>Arius felis</u>                 | Hardhead catfish       |
| <u>Astroscopus y-graecum</u>       | Southern stargazer     |
| <u>Bagre marinus</u>               | Gafftopsail catfish    |
| <u>Bairdiella chrysoura</u>        | Silver perch           |
| <u>Balistes capriscus</u>          | Gray triggerfish       |
| <u>Bascanichthys bascanium</u>     | Sooty eel              |
| <u>Bascanichthy scuticaris</u>     | Whip eel               |
| <u>Bathygobius soporator</u>       | Frillfin goby          |
| <u>Bellator militaris</u>          | Horned searobin        |
| <u>Bodianus pulchellus</u>         | Spotfin hogfish        |
| <u>Bollmannia communis</u>         | Ragged goby            |
| <u>Bothus robinsi</u>              | Twospot flounder       |
| <u>Brevoortia patronus</u>         | Gulf menhaden          |
| <u>Brevoortia gunteri</u>          | Finescale menhaden     |
| <u>Brotula barbata</u>             | Bearded brotula        |
| <u>Calamus leucosteus</u>          | Whitebone porgy        |
| <u>Cantherhines pullus</u>         | Orangespotted filefish |
| <u>Canthidermis maculata</u>       | Rough triggerfish      |
| <u>Caranx bartholomaei</u>         | Yellow jack            |
| <u>Caranx crysos</u>               | Blue runner            |
| <u>Caranx hippos</u>               | Crevalle jack          |
| <u>Caranx latus</u>                | Horse-eye jack         |
| <u>Caranx ruber</u>                | Bar jack               |
| <u>Carassius auratus</u>           | Goldfish               |
| <u>Carcharhinus acronotus</u>      | Blacknose shark        |
| <u>Carcharhinus brevipinna</u>     | Spinner shark          |
| <u>Carcharhinus falciformis</u>    | Silky shark            |
| <u>Carcharhinus isodon</u>         | Finetooth shark        |
| <u>Carcharhinus leucas</u>         | Bull shark             |
| <u>Carcharhinus limbatus</u>       | Blacktip shark         |
| <u>Carcharhinus obscurus</u>       | Dusky shark            |
| <u>Carcharhinus plumbeus</u>       | Sandbar shark          |

Table A.8. (Cont.)

| Scientific Name                    | Common Name            |
|------------------------------------|------------------------|
| <u>Carcharhinus porosus</u>        | Smalltail shark        |
| <u>Centropomus mexicanus</u>       | Largescale fat snook   |
| <u>Centropomus parallelus</u>      | Fat snook              |
| <u>Centropomus undecimalis</u>     | Common snook           |
| <u>Centropristis ocyurus</u>       | Bank sea bass          |
| <u>Centropristis philadelphica</u> | Rock sea bass          |
| <u>Chaetodipterus faber</u>        | Atlantic spadefish     |
| <u>Chaetodon ocellatus</u>         | Spotfin butterflyfish  |
| <u>Chasmodes bosquianus</u>        | Striped blenny         |
| <u>Chilomycterus schoepfi</u>      | Striped burrfish       |
| <u>Chloroscombrus chrysurus</u>    | Atlantic bumper        |
| <u>Citharichthys macrops</u>       | Spotted whiff          |
| <u>Citharichthys spilopterus</u>   | Bay whiff              |
| <u>Conodon nobilis</u>             | Barred grunt           |
| <u>Ctenopharyngodon idella</u>     | Grass carp             |
| <u>Cyclopsetta chittendeni</u>     | Mexican flounder       |
| <u>Cyclopsetta fimbriata</u>       | Spotfin flounder       |
| <u>Cynoscion arenarius</u>         | Sand seatrout          |
| <u>Cynoscion nebulosus</u>         | Spotted seatrout       |
| <u>Cynoscion nothus</u>            | Silver seatrout        |
| <u>Cyprinodon variegatus</u>       | Sheepshead minnow      |
| <u>Cyprinus carpio</u>             | Common carp            |
| <u>Dasyatis americana</u>          | Southern stingray      |
| <u>Dasyatis sabina</u>             | Atlantic stingray      |
| <u>Dasyatis say</u>                | Bluntnose stingray     |
| <u>Decapterus punctatus</u>        | Round scad             |
| <u>Diapterus auratus</u>           | Irish pompano          |
| <u>Dibranchius atlanticus</u>      | Atlantic batfish       |
| <u>Diodon hystrix</u>              | Porcupinefish          |
| <u>Diplectrum bivittatum</u>       | Dwarf sand perch       |
| <u>Diplectrum formosum</u>         | Sand perch             |
| <u>Diplodus holbrooki</u>          | Spottail pinfish       |
| <u>Dormitator maculatus</u>        | Fat sleeper            |
| <u>Dorosoma cepedianum</u>         | Gizzard shad           |
| <u>Dorosoma petenense</u>          | Threadfin shad         |
| <u>Echeneis naucrates</u>          | Sharksucker            |
| <u>Echiopsis intertinctus</u>      | Spotted spoon-nose eel |
| <u>Elagatis bipinnulata</u>        | Rainbow runner         |
| <u>Elops saurus</u>                | Ladyfish               |
| <u>Epinephelus nigritus</u>        | Warsaw grouper         |
| <u>Epinephelus niveatus</u>        | Snowy grouper          |
| <u>Equetus umbrosus</u>            | Cubbyu                 |
| <u>Erotelis smaragdus</u>          | Emerald sleeper        |
| <u>Etropus crossotus</u>           | Fringed flounder       |
| <u>Etrumeus teres</u>              | Round herring          |
| <u>Eucinostomus argenteus</u>      | Spotfin mojarra        |
| <u>Eucinostomus gula</u>           | Silver jenny           |
| <u>Eucinostomus lefroyi</u>        | Mottled mojarra        |
| <u>Eucinostomus melanopterus</u>   | Flagfin mojarra        |
| <u>Evorthodus lyricus</u>          | Lyre goby              |
| <u>Fundulus chrysotus</u>          | Golden topminnow       |
| <u>Fundulus grandis</u>            | Gulf killifish         |
| <u>Fundulus pulvereus</u>          | Bayou killifish        |
| <u>Fundulus similis</u>            | Longnose killifish     |
| <u>Gadella maraldi</u>             | (Barbelless codlet)    |
| <u>Gambusia affinis</u>            | Western mosquitofish   |
| <u>Gerres cinereus</u>             | Yellowfin mojarra      |
| <u>Gnathagnus egregius</u>         | Freckled stargazer     |
| <u>Gobiesox punctulatus</u>        | Stippled clingfish     |
| <u>Gobiesox strumosus</u>          | Skilletfish            |
| <u>Gobioides broussoneti</u>       | Violet goby            |

Table A.8. (Cont.)

| Scientific Name                    | Common Name           |
|------------------------------------|-----------------------|
| <u>Gobiomorus dormitor</u>         | Bigmouth sleeper      |
| <u>Gobionellus boleosoma</u>       | Darter goby           |
| <u>Gobionellus hastatus</u>        | Sharptail goby        |
| <u>Gobionellus shufeldti</u>       | Freshwater goby       |
| <u>Gobiosoma bosc</u>              | Naked goby            |
| <u>Gobiosoma robustum</u>          | Code goby             |
| <u>Gonioplectrus hispanus</u>      | Spanish flag          |
| <u>Gunterichthys longipenis</u>    | Gold brotula          |
| <u>Gymnachirus texae</u>           | Fringed sole          |
| <u>Gymnothorax nigromarginatus</u> | Blackedge moray       |
| <u>Gymnura micrura</u>             | Smooth butterfly ray  |
| <u>Haemulon aurolineatum</u>       | Tomtate               |
| <u>Halieutichthys aculeatus</u>    | Pancake batfish       |
| <u>Harengula jaguana</u>           | Scaled sardine        |
| <u>Hemicaranx amblyrhynchus</u>    | Bluntnose jack        |
| <u>Hemipteronotus novacula</u>     | Pearly razorfish      |
| <u>Hemiramphus balao</u>           | Balao                 |
| <u>Hemiramphus brasiliensis</u>    | Ballyhoo              |
| <u>Hildebrandia flava</u>          | Yellow conger         |
| <u>Hippocampus erectus</u>         | Lined seahorse        |
| <u>Hippocampus zosterae</u>        | Dwarf seahorse        |
| <u>Histrio histrio</u>             | Sargassumfish         |
| <u>Holacanthus bermudensis</u>     | Blue angelfish        |
| <u>Hoplostethus mediterraneus</u>  | Armorhead             |
| <u>Hypleurochilus geminatus</u>    | Crested blenny        |
| <u>Hyporhamphus unifasciatus</u>   | Silverstripe halfbeak |
| <u>Hypsoblennius hentz</u>         | Feather blenny        |
| <u>Hypsoblennius ionthas</u>       | Freckled blenny       |
| <u>Ictalurus furcatus</u>          | Blue catfish          |
| <u>Ictalurus punctatus</u>         | Channel catfish       |
| <u>Ictiobus bubalus</u>            | Smallmouth buffalo    |
| <u>Ictiobus cyprinellus</u>        | Bigmouth buffalo      |
| <u>Isurus oxyrinchus</u>           | Shortfin mako         |
| <u>Jenkinsia lamprotaenia</u>      | Dwarf herring         |
| <u>Kyphosus incisor</u>            | Yellow chub           |
| <u>Kyphosus sectatrix</u>          | Bermuda chub          |
| <u>Labrisomus nuchipinnis</u>      | Hairy blenny          |
| <u>Lactophrys quadricornis</u>     | Scrawled cowfish      |
| <u>Lagocephalus laevigatus</u>     | Smooth puffer         |
| <u>Lagodon rhomboides</u>          | Pinfish               |
| <u>Larimus fasciatus</u>           | Banded drum           |
| <u>Leiostomus xanthurus</u>        | Spot                  |
| <u>Lepisosteus oculatus</u>        | Spotted gar           |
| <u>Lepisosteus osseus</u>          | Longnose gar          |
| <u>Lepisosteus platostomus</u>     | Shortnose gar         |
| <u>Lepisosteus spatula</u>         | Alligator gar         |
| <u>Lepomis cyanellus</u>           | Green sunfish         |
| <u>Lepomis gulosus</u>             | Warmouth              |
| <u>Lepomis macrochirus</u>         | Bluegill              |
| <u>Lepomis megalotis</u>           | Longear sunfish       |
| <u>Lepomis microlophus</u>         | Redear sunfish        |
| <u>Lepophidium brevibarbe</u>      | Blackedge cusk-eel    |
| <u>Lobotes surinamensis</u>        | Tripletail            |
| <u>Lucania parva</u>               | Rainwater killifish   |
| <u>Lutjanus apodus</u>             | Schoolmaster          |
| <u>Lutjanus campechanus</u>        | Red snapper           |
| <u>Lutjanus griseus</u>            | Gray snapper          |
| <u>Lutjanus jocu</u>               | Dog snapper           |
| <u>Lutjanus synagris</u>           | Lane snapper          |
| <u>Lutjanus vivanus</u>            | Silk snapper          |
| <u>Megalops atlanticus</u>         | Tarpon                |

Table A.8. (Cont.)

| Scientific Name                  | Common Name                   |
|----------------------------------|-------------------------------|
| <u>Membras martinica</u>         | Rough silverside              |
| <u>Menidia beryllina</u>         | Inland silverside             |
| <u>Menidia clarkhubbsi</u>       | Texas silverside              |
| <u>Menidia peninsulæ</u>         | Tidewater silverside          |
| <u>Menticirrhus americanus</u>   | Southern kingfish             |
| <u>Menticirrhus littoralis</u>   | Gulf kingfish                 |
| <u>Menticirrhus saxatilis</u>    | Northern kingfish             |
| <u>Microgobius gulosus</u>       | Clown goby                    |
| <u>Microgobius thalassinus</u>   | Green goby                    |
| <u>Micropogonias undulatus</u>   | Atlantic croaker              |
| <u>Monocanthus ciliatus</u>      | Fringed tilefish              |
| <u>Morone chrysops</u>           | White bass                    |
| <u>Morone mississippiensis</u>   | Yellow bass                   |
| <u>Morone saxatilis</u>          | Striped bass                  |
| <u>Morone X</u>                  | Hybrid bass (striped x white) |
| <u>Mugil cephalus</u>            | Striped mullet                |
| <u>Mugil curema</u>              | White mullet                  |
| <u>Mullus auratus</u>            | Red goatfish                  |
| <u>Mustelus canis</u>            | Smooth dogfish                |
| <u>Mycteroperca bonaci</u>       | Black grouper                 |
| <u>Mycteroperca microlepis</u>   | Gag                           |
| <u>Mycteroperca phenax</u>       | Scamp                         |
| <u>Mycteroperca rubra</u>        | Comb grouper                  |
| <u>Myrophis punctatus</u>        | Speckled worm eel             |
| <u>Narcine brasiliensis</u>      | Lesser electric ray           |
| <u>Negaprion brevirostris</u>    | Lemon shark                   |
| <u>Neomerinthe hemingwayi</u>    | Spinycheek scorpionfish       |
| <u>Ogcocephalus nasutus</u>      | Shortnose batfish             |
| <u>Ogcocephalus pantostictus</u> | Spotted batfish               |
| <u>Ogcocephalus parvus</u>       | Roughback batfish             |
| <u>Ogcocephalus radiatus</u>     | Polka-dot batfish             |
| <u>Ogcocephalus sp.</u>          | (Batfish-unidentified)        |
| <u>Oligoplites saurus</u>        | Leatherjacket                 |
| <u>Ophichthus gomesi</u>         | Shrimp eel                    |
| <u>Ophichthus ophis</u>          | Spotted snake eel             |
| <u>Ophichthus puncticeps</u>     | Palespotted eel               |
| <u>Ophidion grayi</u>            | Blotched cusk-eel             |
| <u>Ophidion holbrookii</u>       | Bank cusk-eel                 |
| <u>Ophidion marginatum</u>       | Striped cusk-eel              |
| <u>Ophidion welshi</u>           | Crested cusk-eel              |
| <u>Opisthonema oglinum</u>       | Atlantic thread herring       |
| <u>Opsanus beta</u>              | Gulf toadfish                 |
| <u>Opsanus pardus</u>            | Leopard toadfish              |
| <u>Orthopristis chrysoptera</u>  | Pigfish                       |
| <u>Parablennius marmoratus</u>   | Seaweed blenny                |
| <u>Paraconger caudilimbatus</u>  | Margintail conger             |
| <u>Paralichthys albigutta</u>    | Gulf flounder                 |
| <u>Paralichthys lethostigma</u>  | Southern flounder             |
| <u>Paralichthys sp.</u>          | (Flounder-unidentified)       |
| <u>Paralichthys squamilentus</u> | Broad flounder                |
| <u>Parasudis triculenta</u>      | Longnose greeneye             |
| <u>Peprilus alepidotus</u>       | Harvestfish                   |
| <u>Peprilus burti</u>            | Gulf butterfish               |
| <u>Phaeoptyx conklini</u>        | Freckled cardinalfish         |
| <u>Physiculus fulvus</u>         | Metallic codling              |
| <u>Platybelone argalus</u>       | Keeltail needlefish           |
| <u>Poecilia formosa</u>          | Amazon molly                  |
| <u>Poecilia latipinna</u>        | Sailfin molly                 |
| <u>Pogonias cromis</u>           | Black drum                    |
| <u>Polydactylus octonemus</u>    | Atlantic threadfin            |
| <u>Pomacentrus fuscus</u>        | Dusky damselfish              |

Table A.8. (Cont.)

| Scientific Name                   | Common Name              |
|-----------------------------------|--------------------------|
| <u>Pomacentrus variabilis</u>     | Cocoa damselfish         |
| <u>Pomadasys crocro</u>           | Burro grunt              |
| <u>Pomatomus saltatrix</u>        | Bluefish                 |
| <u>Pomoxis annularis</u>          | White crappie            |
| <u>Pomoxis nigromaculatus</u>     | Black crappie            |
| <u>Pontinus longispinis</u>       | Longspine scorpionfish   |
| <u>Porichthys plectrodon</u>      | Atlantic midshipman      |
| <u>Priacanthus arenatus</u>       | Bigeye                   |
| <u>Prionotus longispinosus</u>    | Bigeye searobin          |
| <u>Prionotus martis</u>           | Barred searobin          |
| <u>Prionotus ophryas</u>          | Bandtail searobin        |
| <u>Prionotus paralatus</u>        | Mexican searobin         |
| <u>Prionotus roseus</u>           | Bluespotted searobin     |
| <u>Prionotus rubio</u>            | Blackwing searobin       |
| <u>Prionotus scitulus</u>         | Leopard searobin         |
| <u>Prionotus stearnsi</u>         | Shortwing searobin       |
| <u>Prionotus tribulus</u>         | Bighead searobin         |
| <u>Pristigenys alta</u>           | Short bigeye             |
| <u>Pristipomoides aquilonaris</u> | Wenchman                 |
| <u>Pristis pectinata</u>          | Smalltooth sawfish       |
| <u>Pylodictis olivaris</u>        | Flathead catfish         |
| <u>Rachycentron canadum</u>       | Cobia                    |
| <u>Raja eglanteria</u>            | Clearnose skate          |
| <u>Raja texana</u>                | Roundel skate            |
| <u>Remora remora</u>              | Remora                   |
| <u>Rhinobatos lentiginosus</u>    | Atlantic guitarfish      |
| <u>Rhinoptera bonasus</u>         | Cownose ray              |
| <u>Rhizoprionodon terraenovae</u> | Atlantic sharpnose shark |
| <u>Rhomboplites aurorubens</u>    | Vermilion snapper        |
| <u>Ruvettus pretiosus</u>         | Oilfish                  |
| <u>Rypticus saponaceus</u>        | Greater soapfish         |
| <u>Sardinella aurita</u>          | Spanish sardine          |
| <u>Saurida brasiliensis</u>       | Largescale lizardfish    |
| <u>Saurida caribbaea</u>          | Smallscale lizardfish    |
| <u>Scartella cristata</u>         | Molly miller             |
| <u>Sciaenops ocellatus</u>        | Red drum                 |
| <u>Scomber japonicus</u>          | Chub mackerel            |
| <u>Scomberomorus cavalla</u>      | King mackerel            |
| <u>Scomberomorus maculatus</u>    | Spanish mackerel         |
| <u>Scomberomorus sp.</u>          | (Mackerel-unidentified)  |
| <u>Scorpaena brasiliensis</u>     | Barbfish                 |
| <u>Scorpaena calcarata</u>        | Smoothhead scorpionfish  |
| <u>Scorpaena plumieri</u>         | Spotted scorpionfish     |
| <u>Scyliorhinus retifer</u>       | Chain dogfish            |
| <u>Selar crumenophthalmus</u>     | Bigeye scad              |
| <u>Selene setapinnis</u>          | Atlantic moonfish        |
| <u>Selene vomer</u>               | Lookdown                 |
| <u>Seriola dumerili</u>           | Greater amberjack        |
| <u>Seriola fasciata</u>           | Lesser amberjack         |
| <u>Seriola zonata</u>             | Banded rudderfish        |
| <u>Serraniculus pumilio</u>       | Pygmy sea bass           |
| <u>Serranus atrobranchus</u>      | Blackear bass            |
| <u>Serranus phoebe</u>            | Tattler                  |
| <u>Serranus subligarius</u>       | Belted sandfish          |
| <u>Sparisoma radians</u>          | Bucktooth parrotfish     |
| <u>Sphoeroides parvus</u>         | Least puffer             |
| <u>Sphoeroides spengleri</u>      | Bandtail puffer          |
| <u>Sphyraena barracuda</u>        | Great barracuda          |
| <u>Sphyraena quachancho</u>       | Guaguanche               |
| <u>Sphyrna lewini</u>             | Scalloped hammerhead     |
| <u>Sphyrna mokarran</u>           | Great hammerhead         |

Table A.8. (Cont.)

| Scientific Name                | Common Name               |
|--------------------------------|---------------------------|
| <u>Sphyrna tiburo</u>          | Bonnethead                |
| <u>Sphyrna tudes</u>           | Smalleye hammerhead       |
| <u>Stellifer lanceolatus</u>   | Star drum                 |
| <u>Stenotomus caprinus</u>     | Longspine porgy           |
| <u>Strongylura marina</u>      | Atlantic needlefish       |
| <u>Strongylura timucu</u>      | Timucu                    |
| <u>Syacium gunteri</u>         | Shoal flounder            |
| <u>Syacium papillosum</u>      | Dusky flounder            |
| <u>Symphurus civitatus</u>     | Offshore tonguefish       |
| <u>Symphurus diomedianus</u>   | Spottedfin tonguefish     |
| <u>Symphurus parvus</u>        | Pygmy tonguefish          |
| <u>Symphurus plagiosa</u>      | Blackcheek tonguefish     |
| <u>Symphurus urospilus</u>     | Spottail tonguefish       |
| <u>Syngnathus floridae</u>     | Dusky pipefish            |
| <u>Syngnathus louisianae</u>   | Chain pipefish            |
| <u>Syngnathus pelagicus</u>    | Sargassum pipefish        |
| <u>Syngnathus scovelli</u>     | Gulf pipefish             |
| <u>Synodus foetens</u>         | Inshore lizardfish        |
| <u>Synodus poeyi</u>           | Offshore lizardfish       |
| <u>Thunnus thynnus</u>         | Bluefin tuna              |
| <u>Tilapia aurea</u>           | Blue tilapia              |
| <u>Trachinocephalus myops</u>  | Snakefish                 |
| <u>Trachinotus carolinus</u>   | Florida pompano           |
| <u>Trachinotus falcatus</u>    | Permit                    |
| <u>Trachinotus goodei</u>      | Palometa                  |
| <u>Trachurus lathami</u>       | Rough scad                |
| <u>Trichiurus lepturus</u>     | Atlantic cutlassfish      |
| <u>Trinectes maculatus</u>     | Hogchoker                 |
| <u>Umbrina coroides</u>        | Sand drum                 |
| <u>Upeneus parvus</u>          | Dwarf goatfish            |
| <u>Urophycis cirrata</u>       | Gulf hake                 |
| <u>Urophycis floridana</u>     | Southern hake             |
| <u>Xanthichthys ringens</u>    | Sargassum triggerfish     |
| <b>Invertebrates</b>           |                           |
| <u>Acetes americanus</u>       | (Sergestid shrimp)        |
| <u>Agriopoma texasianum</u>    | Texas venus               |
| <u>Albunea gibbesii</u>        | Surf mole crab            |
| <u>Albunea paretii</u>         | Beach mole crab           |
| <u>Alpheia formosus</u>        | Striped snapping shrimp   |
| <u>Alpheus estuariensis</u>    | Estuarine snapping shrimp |
| <u>Amaea mitchelli</u>         | Mitchell's wentletrap     |
| <u>Anachis avara</u>           | Greedy dovesnail          |
| <u>Anadara brasiliana</u>      | Incongruous ark           |
| <u>Anadara floridana</u>       | Cut-ribbed ark            |
| <u>Anadara ovalis</u>          | Blood ark                 |
| <u>Anadara transversa</u>      | Transverse ark            |
| <u>Anasimus latus</u>          | Stilt spider crab         |
| <u>Anomalocardia auberiana</u> | Pointed-venus             |
| <u>Anomia simplex</u>          | Common jingle             |
| <u>Aplysia brasiliana</u>      | Sooty seahare             |
| <u>Arbacia punctulata</u>      | Red sea urchin            |
| <u>Arca imbricata</u>          | Mossy ark                 |
| <u>Architectonica nobilis</u>  | Common sundial            |
| <u>Arcinella cornuta</u>       | Florida spiny jewelbox    |
| <u>Arenaeus cribrarius</u>     | Speckled swimming crab    |
| <u>Argopecten gibbus</u>       | Atlantic calico scallop   |
| <u>Argopecten irradians</u>    | Bay scallop               |
| <u>Armina tigrina</u>          | Tiger armina              |
| <u>Astropecten duplicatus</u>  | Two-spined starfish       |

Table A.8. (Cont.)

| Scientific Name                        | Common Name                  |
|--|------------------------------|
| <u>Atrina serrata</u>                  | Sawtooth pen shell           |
| <u>Aurelia aurita</u>                  | Moon jellyfish               |
| <u>Barbatia candida</u>                | White-beard ark              |
| <u>Beroe ovata</u>                     | Sea walnut                   |
| <u>Brachidontes exustus</u>            | Scorched mussel              |
| <u>Brissopsis alta</u>                 | Heart urchin                 |
| <u>Bulla striata</u>                   | Striate bubble               |
| <u>Bursatella leachii pleii</u>        | Ragged seahare               |
| <u>Busycon sinistrum</u>               | Lightning whelk              |
| <u>Busycotypus spiratus</u>            | Pearwhelk                    |
| <u>Calappa flammea</u>                 | Flame box crab               |
| <u>Calappa ocellata</u>                | Ocellate box crab            |
| <u>Calappa sulcata</u>                 | Yellow box crab              |
| <u>Callianassa louisianensis</u>       | Gulf estuarine ghost shrimp  |
| <u>Callinectes marginatus</u>          | (Sargassum crab)             |
| <u>Callinectes sapidus</u>             | Blue crab                    |
| <u>Callinectes similis</u>             | Lesser blue crab             |
| <u>Cancellaria reticulata</u>          | Common nutmeg                |
| <u>Cantharus cancellarius</u>          | Cancellate cantharus         |
| <u>Cerithidea pliculosa</u>            | Plicate hornsnail            |
| <u>Cerithium lutosum</u>               | Variable cerith              |
| <u>Chasmocarcinus mississippiensis</u> | Roughwrist soft crab         |
| <u>Chione cancellata</u>               | Cross-barred venus           |
| <u>Chione clenchi</u>                  | Clench venus                 |
| <u>Chione intapurpurea</u>             | Lady-in-waiting venus        |
| <u>Chiropsalmus quadrumanus</u>        | Sea wasp                     |
| <u>Chrysaora quinquecirrha</u>         | Sea nettle                   |
| <u>Clibanarius vittatus</u>            | Thinstripe hermit            |
| <u>Conus stimpsoni</u>                 | Yellow cone                  |
| <u>Crassostrea virginica</u>           | Eastern oyster               |
| <u>Crepidula convexa</u>               | Convex slippersnail          |
| <u>Crepidula fornicata</u>             | Common Atlantic slippersnail |
| <u>Crepidula plana</u>                 | Eastern white slippersnail   |
| <u>Cyclinella tenuis</u>               | Thin cyclinella              |
| <u>Cyrtopleura costata</u>             | Angelwing                    |
| <u>Dardanus fucosus</u>                | Bareye hermit                |
| <u>Dinocardium robustum</u>            | Atlantic giant-cockle        |
| <u>Distorsio clathrata</u>             | Atlantic distorsio           |
| <u>Donax variabilis</u>                | Variable coquina             |
| <u>Dosinia discus</u>                  | Disk dosinia                 |
| <u>Dromidia antillensis</u>            | Hairy sponge crab            |
| <u>Dyspanopeus texana</u>              | Gulf grassflat crab          |
| <u>Echinometra lucunter</u>            | Rock-boring urchin           |
| <u>Emerita portoricensis</u>           | Puerto Rican sand crab       |
| <u>Ensis minor</u>                     | Minor jackknife              |
| <u>Euceramus praelongus</u>            | Olivepit porcelain crab      |
| <u>Eurypanopeus abbreviatus</u>        | Lobate mud crab              |
| <u>Eurypanopeus depressus</u>          | Flatback mud crab            |
| <u>Exhippolysmata oplophoroides</u>    | Redleg humpback shrimp       |
| <u>Fasciolaria liliium liliium</u>     | Banded tulip                 |
| <u>Glypturus acanthochirus</u>         | Ghost shrimp                 |
| <u>Haminoea antillarum</u>             | Antilles glassy-bubble       |
| <u>Haminoea succinea</u>               | Amber glassy-bubble          |
| <u>Hepatus epheliticus</u>             | Calico box crab              |
| <u>Hepatus pudibundus</u>              | Flecked box crab             |
| <u>Heterocrypta granulata</u>          | Smooth elbow crab            |
| <u>Hexapanopeus angustifrons</u>       | Smooth mud crab              |
| <u>Hexapanopeus paulensis</u>          | Knobbed mud crab             |
| <u>Hypoconcha arcuata</u>              | Granulate shellback shrimp   |
| <u>Hypoconcha sabulosa</u>             | Shellback crab (Dromiid)     |
| <u>Ischadium recurvum</u>              | Hooked mussel                |



Table A.8. (Cont.)

| Scientific Name                        | Common Name                |
|--|----------------------------|
| <u>Isocheles wurdemanni</u>            | Surf hermit                |
| <u>Laevicardium mortoni</u>            | Morton eggcockle           |
| <u>Latreutes fucorum</u>               | Slender sargassum shrimp   |
| <u>Latreutes parvulus</u>              | Sargassum shrimp           |
| <u>Leander tenuicornis</u>             | Brown grass shrimp         |
| <u>Leirolambrus nitidus</u>            | White elbow crab           |
| <u>Lepidopa benedicti</u>              | (Gulf mole crab)           |
| <u>Libinia dubia</u>                   | Longnose spider crab       |
| <u>Libinia emarginata</u>              | Portly spider crab         |
| <u>Littorina irrorata</u>              | Marsh periwinkle           |
| <u>Loligo pealeii</u>                  | Longfin squid              |
| <u>Loligo pleii</u>                    | Arrow squid                |
| <u>Lolliguncula brevis</u>             | Atlantic brief squid       |
| <u>Lucifer faxoni</u>                  | Sergestid shrimp           |
| <u>Lucina pectinata</u>                | Thick lucine               |
| <u>Luidia alternata</u>                | Banded sea star            |
| <u>Luidia clathrata</u>                | Large sea star             |
| <u>Lysiosquilla scabricauda</u>        | (Giant) mantis shrimp      |
| <u>Lysmata wurdemanni</u>              | Peppermint shrimp          |
| <u>Lytechinus variegatus</u>           | Short spined sea urchin    |
| <u>Macoma brevifrons</u>               | Short macoma               |
| <u>Macrobrachium acanthurus</u>        | Cinnamon river shrimp      |
| <u>Macrobrachium ohione</u>            | Ohio shrimp                |
| <u>Macrocallista maculata</u>          | Calico clam                |
| <u>Mactra fragilis</u>                 | Fragile Atlantic mactra    |
| <u>Melampus bidentatus</u>             | Eastern melampus           |
| <u>Mellita quinquesperforata</u>       | Five-lunuled sand dollar   |
| <u>Menippe adina</u>                   | Gulf stone crab            |
| <u>Mercenaria campechiensis</u>        | Southern quahog            |
| <u>Mercenaria campechiensis texana</u> | Texas quahog               |
| <u>Metoporphaphis calcarata</u>        | False arrow crab           |
| <u>Mnemiopsis mccradyi</u>             | Phosphorus jelly           |
| <u>Molgula manhattensis</u>            | Sea squirt                 |
| <u>Mulinia lateralis</u>               | Dwarf surf clam            |
| <u>Muricanthus fluvescens</u>          | Giant eastern murex        |
| <u>Nassarius vibex</u>                 | Bruised nassa              |
| <u>Nemopsis bachei</u>                 | (Hydromedusa)              |
| <u>Neritina virginea</u>               | Virgin nerite              |
| <u>Neverita duplicata</u>              | Shark eye                  |
| <u>Noetia ponderosa</u>                | Ponderous ark              |
| <u>Octopus vulgaris</u>                | Common octopus             |
| <u>Oculina diffusa</u>                 | Ivory coral                |
| <u>Ocypode quadrata</u>                | Atlantic ghost crab        |
| <u>Oliva sayana</u>                    | Lettered olive             |
| <u>Ophiolepis elegans</u>              | Brittle star               |
| <u>Orchestia grillus</u>               | Beach flea (amphipod)      |
| <u>Ostreola equestris</u>              | Crested oyster             |
| <u>Ovalipes floridanus</u>             | Florida lady crab          |
| <u>Paguristes hummi</u>                | (Blue spot hermit crab)    |
| <u>Pagurus annulipes</u>               | (Brown-banded hermit crab) |
| <u>Pagurus brevidactylus</u>           | Short-fingered hermit      |
| <u>Pagurus impressus</u>               | Dimpled hermit             |
| <u>Pagurus longicarpus</u>             | Longwrist hermit           |
| <u>Pagurus pollicaris</u>              | Flatclaw hermit            |
| <u>Palaemonetes pugio</u>              | Daggerblade grass shrimp   |
| <u>Palaemonetes vulgaris</u>           | Marsh grass shrimp         |
| <u>Panopeus simpsoni</u>               | Oystershell mud crab       |
| <u>Paranthus rapiformis</u>            | Onion anemone              |
| <u>Parthenope serrata</u>              | Sawtooth elbow crab        |
| <u>Pelia mutica</u>                    | Cryptic teardrop crab      |
| <u>Penaeus aztecus</u>                 | Brown shrimp               |

Table A.8. (Cont.)

| Scientific Name                   | Common Name              |
|-----------------------------------|--------------------------|
| <u>Penaeus duorarum</u>           | Pink shrimp              |
| <u>Penaeus setiferus</u>          | White shrimp             |
| <u>Perna perna</u>                | Edible brown mussel      |
| <u>Persephona crinita</u>         | Pink purse crab          |
| <u>Persephona mediterranea</u>    | Mottled purse crab       |
| <u>Petrochirus diogenes</u>       | Giant hermit             |
| <u>Petrolisthes armatus</u>       | Green porcelain crab     |
| <u>Phalium granulatum</u>         | Scotch bonnet            |
| <u>Physalia physalis</u>          | Portuguese man-of-war    |
| <u>Pinnotheres maculatus</u>      | Squatter pea crab        |
| <u>Pisania tincta</u>             | Tinted canthurus         |
| <u>Pleurobranchaea tarda</u>      | (Side-gilled slug)       |
| <u>Pleuroploca gigantea</u>       | Horse conch              |
| <u>Podochela riisei</u>           | Longfinger neck crab     |
| <u>Podochela sidneyi</u>          | Shortfinger neck crab    |
| <u>Polycera hummi</u>             | Humm's polycera          |
| <u>Polymesoda maritima</u>        | Southern marshclam       |
| <u>Porcellana sayana</u>          | Spotted porcelain crab   |
| <u>Porcellana sigsbeiana</u>      | Striped porcelain crab   |
| <u>Portunus anceps</u>            | Delicate swimming crab   |
| <u>Portunus gibbesii</u>          | Iridescent swimming crab |
| <u>Portunus sayi</u>              | Sargassum swimming crab  |
| <u>Portunus spinicarpus</u>       | Longspine swimming crab  |
| <u>Portunus spinimanus</u>        | Blotched swimming crab   |
| <u>Portunus ventralis</u>         | (Portunid swimming crab) |
| <u>Procambarus clarkii</u>        | Red swamp crawfish       |
| <u>Pseudocyphoma intermedium</u>  | Intermediate cyphoma     |
| <u>Rangia cuneata</u>             | Atlantic rangia          |
| <u>Rangia flexuosa</u>            | Brown rangia             |
| <u>Raninoides louisianensis</u>   | Gulf frog crab           |
| <u>Renilla mulleri</u>            | Sea pansy                |
| <u>Rhithropanopeus harrisi</u>    | Harris mud crab          |
| <u>Scyllaea pelagica</u>          | Sargassum nudibranch     |
| <u>Sesarma reticulatum</u>        | Heavy marsh crab         |
| <u>Sicyonia brevirostris</u>      | Brown rock shrimp        |
| <u>Sicyonia dorsalis</u>          | Lesser rock shrimp       |
| <u>Sicyonia stimpsoni</u>         | Eyespot rock shrimp      |
| <u>Sicyonia typica</u>            | Kinglet rock shrimp      |
| <u>Simnialena marferula</u>       | Sea-whip simnia          |
| <u>Sinum perspectivum</u>         | White baby-ear           |
| <u>Solariorbis blakei</u>         | (Vitrinella)             |
| <u>Solenocera vioscai</u>         | Humpback shrimp          |
| <u>Speocarcinus lobatus</u>       | Gulf squareback crab     |
| <u>Spisula lidissima</u>          | Atlantic surfclam        |
| <u>Squilla chydrea</u>            | (Offshore mantis shrimp) |
| <u>Squilla empusa</u>             | Mantis shrimp            |
| <u>Squilla neglecta</u>           | Lesser mantis shrimp     |
| <u>Stenorhynchus seticornis</u>   | Yellowline arrow crab    |
| <u>Stomolophus meleagris</u>      | Cabbagehead              |
| <u>Strombus alatus</u>            | Florida fighting conch   |
| Suborder Zygoptera                | (Damselfly nymphs)       |
| <u>Synalpheus fritzmuelleri</u>   | Speckled snapping shrimp |
| <u>Tagelus plebeius</u>           | Stout tagelus            |
| <u>Tellina alternata</u>          | Alternate tellin         |
| <u>Tellina tampaensis</u>         | Tampa tellin             |
| <u>Terebra protexta</u>           | Fine-ribbed auger        |
| <u>Thais haemastoma floridana</u> | Florida rocksnail        |
| <u>Thyone mexicana</u>            | Sea cucumber             |
| <u>Tonna galea</u>                | Giant tun                |
| <u>Tozeuma carolinense</u>        | Arrow shrimp             |
| <u>Trachycardium muricatum</u>    | Yellow pricklycockle     |

Table A.8. (Cont.)

| <u>Scientific Name</u>           | <u>Common Name</u> |
|----------------------------------|--------------------|
| <u>Trachypenaeus constrictus</u> | Roughneck shrimp   |
| <u>Trachypenaeus similis</u>     | Roughback shrimp   |
| <u>Uca panacea</u>               | Gulf sand fiddler  |
| <u>Uca spinicarpa</u>            | Spined fiddler     |
| <u>Upogebia affinis</u>          | Coastal mud shrimp |
| <u>Velella velella</u>           | By-the-wind sailor |
| <u>Xiphopenaeus kroyeri</u>      | Seabob             |

Appendix B. Summary of hydrological data collected for gill net, bay bag seine, oyster dredge, and bay and gulf trawl samples.

Table B.1. Mean surface salinity (o/oo) at sampled gill net sites by bay system during spring and fall, 1975-96. ND = no data.

| Year | Sabine Lake |      | Galveston |      | East Matagorda |      | San Antonio |      | Aransas Christi |      | Upper Laguna Madre |      | Lower Laguna Madre |      | Coastwide |      |
|------|-------------|------|-----------|------|----------------|------|-------------|------|-----------------|------|--------------------|------|--------------------|------|-----------|------|
|      | Spring      | Fall | Spring    | Fall | Spring         | Fall | Spring      | Fall | Spring          | Fall | Spring             | Fall | Spring             | Fall | Spring    | Fall |
| 1975 | ND          | ND   | 13.9      | ND   | ND             | 22.3 | ND          | 17.6 | ND              | 18.5 | 20.0               | ND   | 33.3               | ND   | 20.5      | ND   |
| 1976 | ND          | ND   | 19.6      | ND   | 20.7           | 0.0  | 18.8        | 17.9 | ND              | 10.9 | 14.9               | 35.5 | 26.0               | ND   | 23.3      | 20.5 |
| 1977 | ND          | ND   | 23.2      | ND   | 18.6           | 19.3 | 15.0        | 14.3 | 19.1            | 9.0  | 18.3               | 26.1 | 37.0               | ND   | 25.8      | 18.5 |
| 1978 | ND          | ND   | 21.3      | ND   | 18.4           | 19.2 | 15.6        | 26.1 | 13.9            | 19.0 | 26.5               | 38.2 | 39.3               | 28.5 | 30.5      | 18.2 |
| 1979 | ND          | ND   | 13.3      | ND   | 11.8           | 11.1 | 9.6         | 7.5  | 12.3            | 9.4  | 18.2               | 35.0 | 35.0               | 30.3 | 26.0      | 24.5 |
| 1980 | ND          | ND   | 22.7      | ND   | 24.1           | 14.3 | 23.4        | 20.8 | 18.2            | 17.4 | 30.0               | 37.3 | 24.6               | 30.3 | 30.8      | 15.8 |
| 1981 | ND          | ND   | 10.3      | ND   | 17.5           | 17.0 | 13.7        | 19.0 | 10.8            | 20.3 | 21.5               | 30.6 | 25.4               | 33.1 | 31.5      | 25.2 |
| 1982 | ND          | ND   | 20.5      | ND   | 24.1           | 12.4 | 23.0        | 17.3 | 26.9            | 12.1 | 23.6               | 24.0 | 39.8               | 27.0 | 36.1      | 16.4 |
| 1983 | ND          | ND   | 11.4      | ND   | 18.3           | 20.1 | 12.7        | 19.5 | 17.3            | 21.6 | 29.3               | 32.8 | 34.2               | 31.2 | 17.4      | 27.9 |
| 1984 | ND          | ND   | 11.4      | ND   | 17.5           | 20.1 | 12.7        | 19.5 | 17.3            | 21.6 | 29.3               | 32.8 | 34.2               | 31.2 | 17.4      | 27.9 |
| 1985 | ND          | ND   | 19.0      | ND   | 15.8           | 23.9 | 19.0        | 27.4 | 19.6            | 22.1 | 30.2               | 38.9 | 44.2               | 35.1 | 24.0      | 18.4 |
| 1986 | 11.7        | 13.1 | 15.0      | 20.9 | 23.3           | 13.4 | 24.2        | 12.8 | 23.7            | 13.4 | 22.3               | 33.6 | 38.9               | 44.2 | 35.1      | 24.0 |
| 1987 | 8.2         | 14.3 | 19.7      | 21.5 | 15.8           | 13.7 | 16.1        | 21.9 | 23.0            | 21.4 | 30.9               | 36.6 | 41.7               | 46.9 | 34.0      | 27.8 |
| 1988 | 7.8         | 12.1 | 18.3      | 21.8 | 24.9           | 25.4 | 20.4        | 12.3 | 16.1            | 16.7 | 32.8               | 32.7 | 28.8               | 37.5 | 28.2      | 34.1 |
| 1989 | 5.5         | 8.7  | 15.9      | 14.8 | 26.0           | 26.5 | 28.4        | 26.5 | 29.9            | 30.8 | 34.3               | 42.3 | 47.9               | 32.8 | 31.0      | 20.6 |
| 1990 | 2.0         | 10.4 | 12.4      | 19.3 | 19.2           | 26.5 | 28.4        | 23.7 | 24.3            | 27.0 | 31.5               | 47.2 | 52.7               | 30.5 | 38.3      | 27.7 |
| 1991 | 0.2         | 5.4  | 9.4       | 17.4 | 11.7           | 19.5 | 11.2        | 16.3 | 25.1            | 17.0 | 22.2               | 31.5 | 36.7               | 31.2 | 39.0      | 23.9 |
| 1992 | 2.0         | 12.1 | 10.4      | 22.4 | 11.5           | 23.4 | 5.7         | 16.3 | 25.1            | 18.4 | 26.9               | 31.0 | 39.7               | 26.1 | 30.5      | 18.3 |
| 1993 | 2.1         | 8.3  | 12.1      | 21.2 | 25.9           | 10.8 | 24.5        | 9.2  | 17.5            | 4.1  | 17.6               | 26.7 | 18.9               | 29.5 | 24.2      | 33.5 |
| 1994 | 1.4         | 5.1  | 11.3      | 12.3 | 21.7           | 18.2 | 18.8        | 12.2 | 18.5            | 17.3 | 22.4               | 31.1 | 39.9               | 29.9 | 34.5      | 15.0 |
| 1995 | 0.2         | 8.0  | 9.9       | 19.7 | 14.8           | 13.6 | 21.9        | 17.4 | 23.5            | 18.3 | 22.8               | 26.1 | 39.5               | 32.4 | 33.5      | 24.1 |
| 1996 | 10.7        | 9.1  | 23.9      | 20.1 | 28.1           | 30.4 | 23.9        | 26.1 | 26.4            | 30.9 | 31.6               | 44.5 | 49.2               | 34.0 | 30.8      | 25.2 |

Table B.2. Mean surface water temperature (C) at sampled gill net sites by bay system during spring and fall, 1975-96. ND = no data.

| Year | Sabine Lake |      | Galveston |      | East Matagorda |      | San Antonio |      | Aransas Christi |      | Upper Laguna Madre |      | Lower Laguna Madre |      | Coastwide |      |
|------|-------------|------|-----------|------|----------------|------|-------------|------|-----------------|------|--------------------|------|--------------------|------|-----------|------|
|      | Spring      | Fall | Spring    | Fall | Spring         | Fall | Spring      | Fall | Spring          | Fall | Spring             | Fall | Spring             | Fall | Spring    | Fall |
| 1975 | ND          | ND   | 20.8      | ND   | ND             | 21.3 | ND          | 22.4 | ND              | 17.4 | 23.9               | ND   | 23.0               | ND   | 21.6      | ND   |
| 1976 | ND          | ND   | 18.2      | ND   | 14.5           | ND   | 24.8        | 24.6 | ND              | ND   | 24.2               | 27.0 | 19.6               | ND   | 20.8      | 29.0 |
| 1977 | ND          | ND   | 20.6      | ND   | 21.3           | 25.3 | 23.1        | 25.8 | 23.3            | 25.6 | 23.3               | 26.4 | 21.3               | 26.6 | 24.1      | 21.7 |
| 1978 | ND          | ND   | 21.5      | ND   | 24.2           | 25.8 | 24.1        | 27.3 | 24.2            | 26.3 | 23.5               | 26.4 | 23.2               | 26.4 | 24.1      | 22.4 |
| 1979 | ND          | ND   | 22.8      | ND   | 23.6           | 27.3 | 25.7        | 27.3 | 24.2            | 26.8 | 24.5               | 28.1 | 25.0               | 27.0 | 24.6      | 25.3 |
| 1980 | ND          | ND   | 24.5      | ND   | 23.6           | 26.0 | 25.7        | 26.8 | 24.6            | 26.8 | 24.1               | 29.0 | 27.0               | 26.2 | 26.2      | 27.0 |
| 1981 | ND          | ND   | 25.4      | ND   | 23.1           | 26.0 | 24.6        | 27.4 | 25.0            | 27.4 | 25.3               | 26.9 | 25.9               | 26.9 | 27.0      | 25.2 |
| 1982 | ND          | ND   | 24.6      | ND   | 25.1           | 27.2 | 24.6        | 25.7 | 25.6            | 26.2 | 24.1               | 27.8 | 24.9               | 27.6 | 25.8      | 24.8 |
| 1983 | ND          | ND   | 25.3      | ND   | 25.9           | 25.0 | 25.6        | 25.6 | 25.3            | 26.2 | 24.1               | 27.4 | 27.0               | 26.5 | 26.8      | 26.0 |
| 1984 | ND          | ND   | 25.0      | ND   | 27.2           | 25.1 | 25.3        | 28.0 | 25.0            | 25.8 | 25.2               | 27.3 | 25.9               | 27.5 | 26.8      | 25.7 |
| 1985 | ND          | ND   | 25.5      | ND   | 27.2           | 25.1 | 25.3        | 28.0 | 25.0            | 25.8 | 25.2               | 27.3 | 25.9               | 27.5 | 26.8      | 25.5 |
| 1986 | 26.8        | 26.4 | 25.1      | 27.0 | 25.6           | 27.5 | 25.1        | 28.6 | 26.3            | 27.5 | 26.0               | 27.6 | 26.3               | 28.2 | 27.4      | 26.1 |
| 1987 | 25.7        | 24.0 | 24.0      | 27.1 | 23.9           | 26.3 | 25.4        | 27.2 | 25.4            | 27.9 | 24.8               | 26.3 | 26.6               | 27.9 | 25.7      | 25.3 |
| 1988 | 25.5        | 26.2 | 25.8      | 27.1 | 24.5           | 26.4 | 25.1        | 26.7 | 26.3            | 26.4 | 24.8               | 26.6 | 26.2               | 25.2 | 25.2      | 26.4 |
| 1989 | 25.0        | 24.9 | 25.3      | 25.8 | 26.3           | 25.0 | 26.9        | 24.9 | 27.3            | 26.9 | 25.9               | 26.6 | 27.4               | 26.2 | 27.4      | 25.8 |
| 1990 | 23.3        | 25.7 | 24.0      | 28.2 | 25.6           | 26.4 | 24.3        | 26.6 | 24.1            | 26.6 | 24.1               | 26.5 | 26.4               | 27.4 | 27.0      | 26.6 |
| 1991 | 27.0        | 24.9 | 24.7      | 27.8 | 25.5           | 26.8 | 24.7        | 25.6 | 25.2            | 27.0 | 26.3               | 27.7 | 27.0               | 27.5 | 26.3      | 25.3 |
| 1992 | 28.0        | 23.5 | 23.8      | 27.8 | 24.1           | 26.5 | 23.6        | 26.7 | 25.4            | 27.0 | 25.0               | 28.3 | 25.7               | 28.6 | 25.8      | 24.5 |
| 1993 | 25.9        | 22.9 | 23.0      | 24.8 | 24.7           | 24.6 | 24.3        | 26.7 | 24.3            | 27.3 | 24.7               | 28.0 | 25.3               | 27.4 | 25.5      | 26.6 |
| 1994 | 27.1        | 25.1 | 26.7      | 24.9 | 24.1           | 25.6 | 23.2        | 26.1 | 24.0            | 26.3 | 23.7               | 25.2 | 24.8               | 26.7 | 25.3      | 26.0 |
| 1995 | 26.0        | 24.8 | 26.2      | 24.9 | 27.1           | 26.3 | 26.6        | 25.4 | 26.0            | 26.9 | 26.4               | 27.9 | 26.7               | 27.8 | 27.3      | 26.8 |
| 1996 | 27.4        | 24.7 | 25.2      | 27.5 | 26.6           | 27.2 | 26.0        | 27.8 | 26.0            | 27.6 | 26.5               | 28.5 | 27.0               | 28.3 | 27.4      | 26.6 |

Table B.3. Annual mean surface turbidity at sampled gill net sites by bay system during spring and fall 1975-96. ND = no data.

| Year                    | Sabine Lake |      | Galveston |      | East Matagorda |      | Matagorda |      | San Antonio |      | Aransas |      | Corpus Christi |      | Upper Laguna Madre |      | Lower Laguna Madre |      | Coastwide |      |
|-------------------------|-------------|------|-----------|------|----------------|------|-----------|------|-------------|------|---------|------|----------------|------|--------------------|------|--------------------|------|-----------|------|
|                         | Spring      | Fall | Spring    | Fall | Spring         | Fall | Spring    | Fall | Spring      | Fall | Spring  | Fall | Spring         | Fall | Spring             | Fall | Spring             | Fall | Spring    | Fall |
| 1975                    | ND          | ND   | ND        | 53   | ND             | ND   | 30        | ND   | 43          | ND   | 24      | ND   | 27             | ND   | 43                 | ND   | 28                 | ND   | 37        | 37   |
| 1976                    | ND          | ND   | 109       | 52   | ND             | 157  | 33        | ND   | 25          | ND   | 64      | ND   | 60             | ND   | 51                 | ND   | 38                 | ND   | 50        | 50   |
| 1977                    | ND          | ND   | 80        | 75   | 118            | 47   | 46        | 49   | 13          | 41   | 52      | 169  | 47             | 34   | 39                 | 40   | 31                 | 65   | 50        | 65   |
| 1978                    | ND          | ND   | 47        | 44   | 36             | 16   | 68        | 74   | 55          | 20   | 50      | 61   | 47             | 66   | 68                 | 37   | 39                 | 54   | 48        | 48   |
| 1979                    | ND          | ND   | 153       | 72   | 38             | 28   | 74        | 66   | 80          | 22   | 42      | 67   | 51             | 39   | 32                 | 34   | 83                 | 80   | 55        | 55   |
| 1980                    | ND          | ND   | 99        | 69   | 67             | 49   | 33        | 33   | 17          | 19   | 53      | 51   | 36             | 57   | 55                 | 64   | 71                 | 64   | 49        | 49   |
| 1981                    | ND          | ND   | 68        | 68   | 63             | 64   | 64        | 81   | 21          | 43   | 40      | 67   | 39             | 185  | 46                 | 87   | 66                 | 84   | 55        | 55   |
| 1982                    | ND          | ND   | 66        | 56   | 82             | 55   | 47        | 35   | 27          | 91   | 33      | 49   | 38             | 63   | 32                 | 113  | 79                 | 72   | 47        | 47   |
| 1983                    | ND          | ND   | 57        | 63   | 61             | 27   | 50        | 40   | 41          | 32   | 49      | 41   | 42             | 50   | 40                 | 59   | 72                 | 51   | 48        | 48   |
| 1984                    | ND          | ND   | 43        | 34   | 27             | 25   | 35        | 45   | 47          | 40   | 39      | 47   | 38             | 69   | 56                 | 113  | 90                 | 54   | 47        | 47   |
| 1985                    | ND          | ND   | 26        | 29   | 59             | 37   | 52        | 51   | 57          | 49   | 46      | 57   | 41             | 72   | 41                 | 98   | 56                 | 55   | 42        | 42   |
| 1986                    | 43          | 28   | 32        | 35   | 64             | 37   | 60        | 31   | 46          | 32   | 38      | 41   | 26             | 61   | 85                 | 53   | 60                 | 48   | 43        | 43   |
| Jackson Turbidity Units |             |      |           |      |                |      |           |      |             |      |         |      |                |      |                    |      |                    |      |           |      |
| Nephelometric Units     |             |      |           |      |                |      |           |      |             |      |         |      |                |      |                    |      |                    |      |           |      |
| 1987                    | 30          | 18   | 18        | 17   | 42             | 19   | 28        | 19   | 26          | 15   | 11      | 11   | 7              | 14   | 11                 | 23   | 13                 | 21   | 14        | 14   |
| 1988                    | 21          | 11   | 16        | 11   | 29             | 19   | 16        | 19   | 22          | 21   | 13      | 16   | 10             | 18   | 14                 | 26   | 29                 | 19   | 17        | 17   |
| 1989                    | 25          | 9    | 12        | 9    | 16             | 22   | 36        | 15   | 30          | 12   | 22      | 8    | 12             | 12   | 9                  | 45   | 13                 | 24   | 11        | 11   |
| 1990                    | 16          | 8    | 9         | 13   | 23             | 13   | 26        | 15   | 38          | 15   | 21      | 13   | 16             | 24   | 11                 | 29   | 14                 | 22   | 13        | 13   |
| 1991                    | 15          | 6    | 20        | 8    | 50             | 21   | 29        | 15   | 19          | 13   | 23      | 13   | 13             | 25   | 18                 | 13   | 10                 | 21   | 12        | 12   |
| 1992                    | 20          | 11   | 21        | 10   | 22             | 12   | 46        | 17   | 52          | 14   | 41      | 14   | 11             | 25   | 12                 | 22   | 16                 | 32   | 13        | 13   |
| 1993                    | 24          | 11   | 24        | 16   | 35             | 14   | 46        | 16   | 29          | 11   | 24      | 15   | 14             | 18   | 15                 | 23   | 14                 | 27   | 14        | 14   |
| 1994                    | 13          | 13   | 19        | 23   | 23             | 15   | 27        | 26   | 19          | 9    | 21      | 10   | 9              | 12   | 11                 | 25   | 15                 | 20   | 16        | 16   |
| 1995                    | 26          | 8    | 38        | 11   | 47             | 20   | 39        | 20   | 21          | 8    | 22      | 13   | 13             | 15   | 9                  | 36   | 12                 | 30   | 13        | 13   |
| 1996                    | 23          | 11   | 27        | 11   | 41             | 27   | 39        | 18   | 30          | 9    | 23      | 13   | 10             | 23   | 11                 | 26   | 12                 | 29   | 13        | 13   |

Table B.4. Annual mean surface salinity (o/oo) at sampled bag seine sites by bay system during 1977-96. ND = no data.

| Year | Sabine Lake |      | Galveston |    | East Matagorda |      | Matagorda |      | San Antonio |      | Aransas |      | Corpus Christi |      | Upper Laguna Madre |      | Lower Laguna Madre |      | Coastwide |      |
|------|-------------|------|-----------|----|----------------|------|-----------|------|-------------|------|---------|------|----------------|------|--------------------|------|--------------------|------|-----------|------|
|      |             |      |           |    |                |      |           |      |             |      |         |      |                |      |                    |      |                    |      |           |      |
| 1977 | ND          | 21.9 | 21.9      | ND | 17.6           | 17.7 | 20.9      | 33.8 | 39.8        | 33.0 | 33.0    | 33.0 | 33.0           | 33.0 | 39.8               | 33.0 | 33.0               | 33.0 | 33.0      | 25.4 |
| 1978 | ND          | 21.8 | 21.8      | ND | 19.7           | 20.6 | 19.9      | 29.5 | 39.6        | 29.2 | 29.2    | 29.2 | 29.2           | 29.2 | 39.6               | 29.2 | 29.2               | 29.2 | 29.2      | 25.0 |
| 1979 | ND          | 12.2 | 11.8      | ND | 11.4           | 11.8 | 11.1      | 23.9 | 31.9        | 27.3 | 27.3    | 27.3 | 27.3           | 27.3 | 31.9               | 27.3 | 27.3               | 27.3 | 27.3      | 17.4 |
| 1980 | ND          | 20.9 | 20.9      | ND | 19.9           | 21.0 | 19.8      | 28.1 | 29.6        | 28.8 | 28.8    | 28.8 | 28.8           | 28.8 | 29.6               | 28.8 | 28.8               | 28.8 | 28.8      | 23.4 |
| 1981 | ND          | 18.2 | 18.2      | ND | 19.2           | 15.6 | 12.1      | 25.0 | 26.0        | 28.3 | 28.3    | 28.3 | 28.3           | 28.3 | 26.0               | 28.3 | 28.3               | 28.3 | 28.3      | 20.1 |
| 1982 | ND          | 15.9 | 17.0      | ND | 18.2           | 17.0 | 17.6      | 27.6 | 29.7        | 29.7 | 29.7    | 29.7 | 29.7           | 29.7 | 29.7               | 29.7 | 29.7               | 29.7 | 29.7      | 21.3 |
| 1983 | ND          | 12.2 | 12.2      | ND | 15.4           | 17.3 | 16.8      | 27.5 | 36.4        | 31.7 | 31.7    | 31.7 | 31.7           | 31.7 | 36.4               | 31.7 | 31.7               | 31.7 | 31.7      | 21.2 |
| 1984 | ND          | 19.5 | 19.5      | ND | 17.8           | 23.2 | 22.6      | 31.8 | 39.5        | 29.9 | 29.9    | 29.9 | 29.9           | 29.9 | 39.5               | 29.9 | 29.9               | 29.9 | 29.9      | 25.5 |
| 1985 | ND          | 17.0 | 17.0      | ND | 16.9           | 19.7 | 19.7      | 28.1 | 36.7        | 32.1 | 32.1    | 32.1 | 32.1           | 32.1 | 36.7               | 32.1 | 32.1               | 32.1 | 32.1      | 23.2 |
| 1986 | 10.1        | 16.1 | 16.1      | ND | 19.8           | 17.0 | 23.5      | 32.6 | 39.7        | 34.9 | 34.9    | 34.9 | 34.9           | 34.9 | 39.7               | 34.9 | 34.9               | 34.9 | 34.9      | 24.2 |
| 1987 | 7.6         | 18.1 | 18.1      | ND | 15.3           | 10.8 | 13.7      | 28.7 | 31.4        | 31.5 | 31.5    | 31.5 | 31.5           | 31.5 | 31.4               | 31.5 | 31.5               | 31.5 | 31.5      | 19.9 |
| 1988 | 7.7         | 20.2 | 20.2      | ND | 26.5           | 27.4 | 24.3      | 35.2 | 44.9        | 31.9 | 31.9    | 31.9 | 31.9           | 31.9 | 44.9               | 31.9 | 31.9               | 31.9 | 31.9      | 27.4 |
| 1989 | 6.6         | 15.1 | 15.1      | ND | 26.9           | 27.4 | 31.4      | 35.6 | 48.6        | 34.2 | 34.2    | 34.2 | 34.2           | 34.2 | 48.6               | 34.2 | 34.2               | 34.2 | 34.2      | 28.5 |
| 1990 | 6.4         | 16.9 | 16.9      | ND | 24.8           | 23.6 | 26.7      | 32.4 | 47.7        | 35.8 | 35.8    | 35.8 | 35.8           | 35.8 | 47.7               | 35.8 | 35.8               | 35.8 | 35.8      | 27.2 |
| 1991 | 2.6         | 12.4 | 12.4      | ND | 17.3           | 19.3 | 17.7      | 30.8 | 40.0        | 28.7 | 28.7    | 28.7 | 28.7           | 28.7 | 40.0               | 28.7 | 28.7               | 28.7 | 28.7      | 21.1 |
| 1992 | 5.3         | 15.2 | 15.2      | ND | 13.5           | 9.4  | 10.7      | 22.4 | 25.3        | 28.7 | 28.7    | 28.7 | 28.7           | 28.7 | 25.3               | 28.7 | 28.7               | 28.7 | 28.7      | 16.8 |
| 1993 | 4.3         | 12.6 | 12.6      | ND | 17.1           | 13.9 | 13.8      | 27.6 | 27.7        | 27.5 | 27.5    | 27.5 | 27.5           | 27.5 | 27.7               | 27.5 | 27.5               | 27.5 | 27.5      | 18.3 |
| 1994 | 4.3         | 13.5 | 13.5      | ND | 22.7           | 18.8 | 21.5      | 30.3 | 34.7        | 30.3 | 30.3    | 30.3 | 30.3           | 30.3 | 34.7               | 30.3 | 30.3               | 30.3 | 30.3      | 21.5 |
| 1995 | 3.4         | 14.6 | 14.6      | ND | 19.6           | 18.5 | 21.1      | 28.9 | 37.5        | 31.9 | 31.9    | 31.9 | 31.9           | 31.9 | 37.5               | 31.9 | 31.9               | 31.9 | 31.9      | 22.3 |
| 1996 | 10.4        | 20.2 | 20.2      | ND | 26.2           | 25.8 | 30.9      | 36.4 | 44.5        | 31.4 | 31.4    | 31.4 | 31.4           | 31.4 | 44.5               | 31.4 | 31.4               | 31.4 | 31.4      | 28.5 |

Table B.5. Annual mean surface temperature (C) at sampled bag seine sites by bay system during 1977-95. ND = no data.

| Year | Sabine Lake |      | Galveston |    | East Matagorda |      | Matagorda |      | San Antonio |      | Aransas |      | Corpus Christi |      | Upper Laguna Madre |      | Lower Laguna Madre |      | Coastwide |      |
|------|-------------|------|-----------|----|----------------|------|-----------|------|-------------|------|---------|------|----------------|------|--------------------|------|--------------------|------|-----------|------|
|      |             |      |           |    |                |      |           |      |             |      |         |      |                |      |                    |      |                    |      |           |      |
| 1977 | ND          | 20.3 | 20.3      | ND | 20.9           | 21.7 | 20.8      | 20.4 | 20.6        | 20.5 | 20.5    | 20.5 | 20.5           | 20.5 | 20.6               | 20.5 | 20.5               | 20.5 | 20.5      | 20.7 |
| 1978 | ND          | 21.4 | 21.4      | ND | 20.2           | 21.6 | 22.3      | 21.3 | 22.3        | 22.4 | 22.4    | 22.4 | 22.4           | 22.4 | 22.3               | 22.4 | 22.4               | 22.4 | 22.4      | 21.6 |
| 1979 | ND          | 22.8 | 22.8      | ND | 22.8           | 23.3 | 23.2      | 23.6 | 23.8        | 23.1 | 23.1    | 23.1 | 23.1           | 23.1 | 23.8               | 23.1 | 23.1               | 23.1 | 23.1      | 22.9 |
| 1980 | ND          | 23.9 | 23.9      | ND | 21.9           | 23.2 | 23.6      | 23.4 | 24.6        | 24.3 | 24.3    | 24.3 | 24.3           | 24.3 | 24.6               | 24.3 | 24.3               | 24.3 | 24.3      | 23.5 |
| 1981 | ND          | 22.5 | 22.5      | ND | 21.5           | 22.4 | 23.7      | 22.6 | 24.1        | 24.6 | 24.6    | 24.6 | 24.6           | 24.6 | 24.1               | 24.6 | 24.6               | 24.6 | 24.6      | 23.0 |
| 1982 | ND          | 23.9 | 23.9      | ND | 23.3           | 23.4 | 24.2      | 23.4 | 24.1        | 23.9 | 23.9    | 23.9 | 23.9           | 23.9 | 24.1               | 23.9 | 23.9               | 23.9 | 23.9      | 23.7 |
| 1983 | ND          | 24.0 | 24.0      | ND | 21.9           | 21.7 | 24.3      | 24.3 | 25.4        | 24.9 | 24.9    | 24.9 | 24.9           | 24.9 | 25.4               | 24.9 | 24.9               | 24.9 | 24.9      | 23.8 |
| 1984 | ND          | 23.9 | 23.9      | ND | 22.5           | 21.9 | 24.0      | 23.3 | 24.0        | 24.2 | 24.2    | 24.2 | 24.2           | 24.2 | 24.0               | 24.2 | 24.2               | 24.2 | 24.2      | 23.4 |
| 1985 | ND          | 24.4 | 24.4      | ND | 23.5           | 24.0 | 23.9      | 23.6 | 24.5        | 24.4 | 24.4    | 24.4 | 24.4           | 24.4 | 24.5               | 24.4 | 24.4               | 24.4 | 24.4      | 24.0 |
| 1986 | 23.7        | 24.2 | 24.2      | ND | 23.3           | 23.5 | 25.2      | 23.6 | 24.5        | 25.0 | 25.0    | 25.0 | 25.0           | 25.0 | 24.5               | 25.0 | 25.0               | 25.0 | 25.0      | 24.2 |
| 1987 | 22.0        | 22.8 | 22.8      | ND | 23.4           | 22.2 | 23.1      | 24.1 | 24.2        | 23.8 | 23.8    | 23.8 | 23.8           | 23.8 | 24.2               | 23.8 | 23.8               | 23.8 | 23.8      | 23.2 |
| 1988 | 21.7        | 23.1 | 23.1      | ND | 23.4           | 21.1 | 24.3      | 23.3 | 23.9        | 25.1 | 25.1    | 25.1 | 25.1           | 25.1 | 23.9               | 25.1 | 25.1               | 25.1 | 25.1      | 23.5 |
| 1989 | 21.4        | 23.4 | 23.4      | ND | 22.3           | 23.0 | 22.8      | 24.3 | 24.3        | 25.0 | 25.0    | 25.0 | 25.0           | 25.0 | 24.3               | 25.0 | 25.0               | 25.0 | 25.0      | 23.4 |
| 1990 | 21.7        | 22.6 | 22.6      | ND | 24.7           | 23.6 | 24.4      | 24.9 | 24.9        | 25.5 | 25.5    | 25.5 | 25.5           | 25.5 | 24.9               | 25.5 | 25.5               | 25.5 | 25.5      | 23.9 |
| 1991 | 22.9        | 22.3 | 22.3      | ND | 24.5           | 22.2 | 23.1      | 24.8 | 25.0        | 25.4 | 25.4    | 25.4 | 25.4           | 25.4 | 25.0               | 25.4 | 25.4               | 25.4 | 25.4      | 23.5 |
| 1992 | 22.2        | 21.7 | 21.7      | ND | 22.2           | 23.2 | 22.6      | 23.4 | 23.3        | 23.4 | 23.4    | 23.4 | 23.4           | 23.4 | 23.3               | 23.4 | 23.4               | 23.4 | 23.4      | 23.0 |
| 1993 | 22.4        | 22.2 | 22.2      | ND | 22.9           | 24.3 | 22.9      | 23.6 | 23.9        | 23.6 | 23.6    | 23.6 | 23.6           | 23.6 | 23.4               | 23.6 | 23.6               | 23.6 | 23.6      | 23.2 |
| 1994 | 23.1        | 23.1 | 23.1      | ND | 24.5           | 22.8 | 22.8      | 25.0 | 24.6        | 25.1 | 25.1    | 25.1 | 25.1           | 25.1 | 24.6               | 25.1 | 25.1               | 25.1 | 25.1      | 24.1 |
| 1995 | 22.2        | 23.3 | 23.3      | ND | 23.9           | 24.4 | 24.3      | 25.2 | 24.7        | 25.8 | 25.8    | 25.8 | 25.8           | 25.8 | 24.7               | 25.8 | 25.8               | 25.8 | 25.8      | 24.3 |
| 1996 | 22.8        | 23.4 | 23.4      | ND | 24.4           | 23.6 | 24.7      | 25.0 | 24.7        | 25.5 | 25.5    | 25.5 | 25.5           | 25.5 | 25.0               | 25.5 | 25.5               | 25.5 | 25.5      | 24.3 |

Table B.6. Annual mean surface turbidity at sampled bag seine sites by bay system during 1977-96. ND = no data.

| Year                    | East        |           |           |           |             |             |         |                |                    |                    |           |
|-------------------------|-------------|-----------|-----------|-----------|-------------|-------------|---------|----------------|--------------------|--------------------|-----------|
|                         | Sabine Lake | Galveston | Matagorda | Matagorda | San Antonio | San Antonio | Aransas | Corpus Christi | Upper Laguna Madre | Lower Laguna Madre | Coastwide |
| Jackson Turbidity Units |             |           |           |           |             |             |         |                |                    |                    |           |
| 1977                    | ND          | 94        | ND        | 60        | 27          | 27          | 50      | 40             | 50                 | 30                 | 55        |
| 1978                    | ND          | 78        | ND        | 55        | 33          | 33          | 41      | 43             | 51                 | 34                 | 51        |
| 1979                    | ND          | 90        | ND        | 70        | 31          | 31          | 53      | 44             | 47                 | 59                 | 60        |
| 1980                    | ND          | 90        | ND        | 42        | 24          | 24          | 47      | 52             | 75                 | 73                 | 71        |
| 1981                    | ND          | 87        | ND        | 54        | 25          | 25          | 65      | 44             | 107                | 95                 | 71        |
| 1982                    | ND          | 105       | ND        | 50        | 31          | 31          | 60      | 46             | 69                 | 87                 | 69        |
| 1983                    | ND          | 96        | 88        | 54        | 30          | 30          | 51      | 46             | 57                 | 48                 | 58        |
| 1984                    | ND          | 79        | 42        | 41        | 36          | 41          | 48      | 41             | 82                 | 61                 | 57        |
| 1985                    | ND          | 52        | 67        | 45        | 54          | 54          | 47      | 40             | 108                | 68                 | 59        |
| 1986                    | 46          | 84        | 59        | 46        | 51          | 51          | 46      | 44             | 60                 | 80                 | 61        |
| Nephelometric Units     |             |           |           |           |             |             |         |                |                    |                    |           |
| 1987                    | 24          | 28        | 39        | 36        | 32          | 32          | 9       | 26             | 15                 | 17                 | 24        |
| 1988                    | 26          | 26        | 28        | 29        | 29          | 29          | 28      | 20             | 22                 | 24                 | 26        |
| 1989                    | 25          | 29        | 26        | 25        | 40          | 40          | 22      | 20             | 22                 | 22                 | 26        |
| 1990                    | 21          | 29        | 26        | 30        | 31          | 31          | 23      | 21             | 20                 | 23                 | 26        |
| 1991                    | 28          | 25        | 32        | 33        | 42          | 42          | 25      | 17             | 21                 | 15                 | 26        |
| 1992                    | 24          | 23        | 34        | 41        | 43          | 43          | 31      | 21             | 17                 | 25                 | 29        |
| 1993                    | 21          | 30        | 27        | 38        | 24          | 24          | 30      | 23             | 26                 | 36                 | 30        |
| 1994                    | 21          | 24        | 31        | 26        | 25          | 25          | 17      | 17             | 10                 | 40                 | 24        |
| 1995                    | 27          | 30        | 33        | 32        | 24          | 24          | 27      | 17             | 12                 | 27                 | 26        |
| 1996                    | 34          | 25        | 44        | 33        | 24          | 24          | 21      | 16             | 17                 | 25                 | 25        |

Table B.7. Annual mean bottom salinity (o/oo) at sampled oyster dredge "reef" sites in Texas bay systems from 1984-96. ND = no data.

| Year | San Antonio |           |             | Aransas   |           |         | Coastwide |           |           |
|------|-------------|-----------|-------------|-----------|-----------|---------|-----------|-----------|-----------|
|      | Galveston   | Matagorda | San Antonio | Galveston | Matagorda | Aransas | Galveston | Matagorda | Coastwide |
| 1984 | 16.7        | ND        | ND          | ND        | ND        | ND      | 16.7      | 16.7      | 16.7      |
| 1985 | 17.6        | ND        | ND          | ND        | ND        | ND      | 17.6      | 17.6      | 17.6      |
| 1986 | 15.5        | 22.0      | 18.2        | 21.0      | 18.9      | 18.9    | 18.9      | 18.9      | 18.9      |
| 1987 | 16.3        | 16.6      | 10.9        | 14.2      | 14.5      | 14.5    | 14.5      | 14.5      | 14.5      |
| 1988 | 19.6        | 28.1      | 22.9        | 23.0      | 23.7      | 23.7    | 23.7      | 23.7      | 23.7      |
| 1989 | 16.0        | 29.2      | 27.9        | 29.7      | 25.1      | 25.1    | 25.1      | 25.1      | 25.1      |
| 1990 | 16.0        | 24.4      | 24.1        | 26.2      | 22.3      | 22.3    | 22.3      | 22.3      | 22.3      |
| 1991 | 12.3        | 17.4      | 19.5        | 18.6      | 16.7      | 16.7    | 16.7      | 16.7      | 16.7      |
| 1992 | 14.9        | 11.8      | 9.2         | 8.7       | 11.4      | 11.4    | 11.4      | 11.4      | 11.4      |
| 1993 | 13.5        | 15.9      | 13.2        | 14.5      | 14.2      | 14.2    | 14.2      | 14.2      | 14.2      |
| 1994 | 13.7        | 19.4      | 17.4        | 19.8      | 16.8      | 16.8    | 16.8      | 16.8      | 16.8      |
| 1995 | 14.7        | 17.8      | 18.7        | 20.2      | 17.1      | 17.1    | 17.1      | 17.1      | 17.1      |
| 1996 | 22.2        | 25.6      | 27.6        | 29.9      | 25.2      | 25.2    | 25.2      | 25.2      | 25.2      |



Table B.8. Annual mean bottom temperature (C) at sampled oyster dredge "reef" sites in Texas bay systems from 1984-96. ND = no data

| Year | Galveston | Matagorda | San Antonio | Aransas | Coastwide |
|------|-----------|-----------|-------------|---------|-----------|
| 1984 | 21.0      | ND        | ND          | ND      | 20.9      |
| 1985 | 22.0      | ND        | ND          | ND      | 22.0      |
| 1986 | 22.8      | 22.4      | 22.3        | 22.1    | 22.4      |
| 1987 | 21.2      | 22.2      | 21.4        | 19.9    | 21.3      |
| 1988 | 21.6      | 21.8      | 21.6        | 22.0    | 21.7      |
| 1989 | 20.9      | 20.8      | 21.6        | 20.4    | 21.0      |
| 1990 | 21.7      | 22.6      | 22.6        | 23.0    | 22.4      |
| 1991 | 21.6      | 21.9      | 21.8        | 21.3    | 21.7      |
| 1992 | 21.8      | 20.8      | 22.6        | 21.4    | 21.7      |
| 1993 | 21.4      | 22.2      | 21.9        | 21.0    | 21.6      |
| 1994 | 22.0      | 22.5      | 23.3        | 21.4    | 22.2      |
| 1995 | 21.5      | 22.4      | 22.4        | 22.6    | 22.2      |
| 1996 | 21.7      | 22.6      | 22.5        | 21.8    | 22.0      |

Table B.9. Annual mean bottom turbidity at sampled oyster dredge "reef" sites in Texas bay systems from 1984-96. ND = no data.

| Year                    | Galveston | Matagorda | San Antonio | Aransas | Coastwide |
|-------------------------|-----------|-----------|-------------|---------|-----------|
| Jackson Turbidity Units |           |           |             |         |           |
| 1984                    | 25        | ND        | ND          | ND      | 25        |
| 1985                    | 47        | ND        | ND          | ND      | 47        |
| 1986                    | 40        | 51        | 48          | 37      | 45        |
| Nephelometric Units     |           |           |             |         |           |
| 1987                    | 14        | 22        | 30          | 8       | 20        |
| 1988                    | 15        | 21        | 16          | 16      | 17        |
| 1989                    | 19        | 20        | 27          | 16      | 21        |
| 1990                    | 14        | 22        | 26          | 16      | 20        |
| 1991                    | 16        | 23        | 23          | 20      | 21        |
| 1992                    | 15        | 32        | 37          | 31      | 26        |
| 1993                    | 21        | 24        | 20          | 22      | 22        |
| 1994                    | 17        | 18        | 16          | 16      | 17        |
| 1995                    | 19        | 20        | 16          | 15      | 18        |
| 1996                    | 15        | 29        | 21          | 14      | 20        |

Table B.10. Annual mean bottom salinity (o/oo) at sampled bay trawl sites in Texas bay systems from 1977-96. ND = no data.

| Year | East        |           |           | Corpus Christi |             |         | Upper   |              |              | Lower        |           |  |
|------|-------------|-----------|-----------|----------------|-------------|---------|---------|--------------|--------------|--------------|-----------|--|
|      | Sabine Lake | Galveston | Matagorda | Matagorda      | San Antonio | Aransas | Christi | Laguna Madre | Laguna Madre | Laguna Madre | Coastwide |  |
| 1977 | ND          | 20.5      | ND        | 17.9           | 13.9        | 19.5    | ND      | ND           | ND           | ND           | 18.5      |  |
| 1978 | ND          | 20.1      | ND        | 19.3           | 14.7        | 20.6    | ND      | ND           | ND           | ND           | 19.0      |  |
| 1979 | ND          | 9.0       | ND        | 10.3           | 5.7         | ND      | ND      | ND           | ND           | ND           | 8.8       |  |
| 1980 | ND          | 22.8      | ND        | ND             | ND          | ND      | ND      | ND           | ND           | ND           | 22.8      |  |
| 1981 | ND          | ND        | ND        | ND             | ND          | ND      | ND      | ND           | ND           | ND           | ND        |  |
| 1982 | ND          | 16.0      | ND        | 22.4           | 16.3        | 19.2    | 30.3    | 34.1         | 35.8         | 35.8         | 21.3      |  |
| 1983 | ND          | 10.7      | ND        | 20.4           | 16.9        | 18.6    | 29.8    | 36.9         | 33.0         | 33.0         | 19.1      |  |
| 1984 | ND          | 18.5      | ND        | 25.2           | 22.9        | 22.2    | 32.5    | 40.0         | 31.0         | 31.0         | 24.6      |  |
| 1985 | ND          | 17.0      | ND        | 21.0           | 16.2        | 21.2    | 29.8    | 37.3         | 33.1         | 33.1         | 24.6      |  |
| 1986 | 7.8         | 14.8      | ND        | 24.5           | 17.3        | 22.7    | 31.1    | 39.6         | 36.1         | 36.1         | 21.6      |  |
| 1987 | 7.3         | 15.1      | 16.7      | 20.6           | 9.9         | 18.1    | 27.5    | 31.9         | 33.3         | 33.3         | 18.6      |  |
| 1988 | 7.8         | 19.2      | 28.7      | 29.6           | 21.7        | 34.9    | 34.9    | 45.0         | 34.8         | 34.8         | 25.6      |  |
| 1989 | 6.2         | 16.4      | 27.6      | 30.2           | 26.8        | 30.4    | 35.4    | 49.3         | 35.9         | 35.9         | 26.1      |  |
| 1990 | 5.7         | 15.1      | 25.8      | 26.1           | 21.6        | 27.0    | 32.0    | 48.6         | 36.3         | 36.3         | 23.4      |  |
| 1991 | 2.2         | 11.9      | 18.7      | 20.4           | 17.7        | 20.0    | 29.9    | 41.4         | 31.5         | 31.5         | 19.2      |  |
| 1992 | 5.5         | 13.6      | 16.6      | 15.0           | 7.9         | 10.7    | 22.9    | 24.6         | 30.7         | 30.7         | 15.0      |  |
| 1993 | 3.1         | 13.8      | 18.9      | 18.5           | 12.4        | 16.9    | 28.6    | 28.0         | 30.9         | 30.9         | 17.6      |  |
| 1994 | 3.4         | 13.2      | 25.2      | 21.4           | 15.7        | 21.0    | 30.8    | 35.4         | 32.9         | 32.9         | 20.2      |  |
| 1995 | 4.5         | 13.6      | 21.7      | 22.1           | 18.8        | 20.5    | 29.7    | 38.3         | 32.9         | 32.9         | 20.2      |  |
| 1996 | 11.0        | 21.8      | 27.2      | 27.7           | 25.9        | 30.7    | 36.7    | 45.7         | 34.5         | 34.5         | 27.4      |  |

Table B.11. Annual mean bottom temperature (C) at sampled bay trawl sites in Texas bay systems from 1977-96. ND = no data.

| Year | East        |           |           | Aransas   |             |         | Upper   |              |              | Lower        |           |  |
|------|-------------|-----------|-----------|-----------|-------------|---------|---------|--------------|--------------|--------------|-----------|--|
|      | Sabine Lake | Galveston | Matagorda | Matagorda | San Antonio | Aransas | Christi | Laguna Madre | Laguna Madre | Laguna Madre | Coastwide |  |
| 1977 | ND          | 18.7      | ND        | 17.9      | 21.1        | 17.8    | ND      | ND           | ND           | ND           | 18.8      |  |
| 1978 | ND          | 21.6      | ND        | 23.5      | 24.2        | 24.8    | ND      | ND           | ND           | ND           | 22.9      |  |
| 1979 | ND          | 22.5      | ND        | 21.6      | 25.5        | 24.8    | ND      | ND           | ND           | ND           | 22.8      |  |
| 1980 | ND          | 23.8      | ND        | ND        | ND          | ND      | ND      | ND           | ND           | ND           | 23.8      |  |
| 1981 | ND          | ND        | ND        | ND        | ND          | ND      | ND      | ND           | ND           | ND           | ND        |  |
| 1982 | ND          | 21.8      | ND        | 24.8      | 23.3        | 23.1    | 25.0    | 26.1         | 25.1         | 25.1         | 23.5      |  |
| 1983 | ND          | 21.5      | ND        | 21.7      | 21.7        | 22.3    | 22.2    | 21.8         | 22.7         | 22.7         | 21.8      |  |
| 1984 | ND          | 22.2      | ND        | 22.8      | 21.6        | 23.4    | 21.8    | 22.0         | 22.8         | 22.8         | 22.3      |  |
| 1985 | ND          | 21.9      | ND        | 22.5      | 22.5        | 21.7    | 21.9    | 23.0         | 22.8         | 22.8         | 22.2      |  |
| 1986 | 22.1        | 22.2      | ND        | 23.3      | 23.1        | 22.1    | 21.8    | 23.3         | 22.5         | 22.5         | 22.6      |  |
| 1987 | 20.0        | 21.5      | 24.3      | 21.9      | 21.8        | 21.3    | 21.1    | 22.3         | 22.6         | 22.6         | 21.6      |  |
| 1988 | 21.8        | 21.8      | 21.1      | 20.2      | 22.1        | 21.3    | 22.2    | 22.1         | 24.5         | 24.5         | 21.6      |  |
| 1989 | 20.8        | 20.4      | 21.0      | 20.5      | 21.1        | 20.5    | 21.8    | 23.8         | 23.6         | 23.6         | 21.0      |  |
| 1990 | 21.2        | 21.4      | 22.7      | 22.6      | 21.9        | 22.6    | 22.8    | 23.4         | 24.2         | 24.2         | 22.3      |  |
| 1991 | 21.7        | 21.5      | 22.0      | 21.5      | 22.2        | 21.7    | 22.8    | 23.8         | 23.2         | 23.2         | 21.9      |  |
| 1992 | 20.7        | 21.6      | 20.6      | 21.1      | 22.6        | 21.4    | 21.4    | 22.9         | 23.5         | 23.5         | 21.7      |  |
| 1993 | 22.0        | 20.9      | 22.2      | 22.2      | 22.5        | 21.8    | 22.1    | 21.3         | 23.7         | 23.7         | 21.7      |  |
| 1994 | 22.1        | 22.2      | 22.6      | 23.0      | 22.7        | 20.9    | 22.1    | 23.0         | 24.8         | 24.8         | 22.5      |  |
| 1995 | 22.0        | 21.8      | 22.6      | 23.0      | 23.3        | 22.5    | 23.5    | 23.6         | 23.9         | 23.9         | 22.7      |  |
| 1996 | 22.0        | 21.2      | 22.4      | 23.2      | 22.0        | 23.0    | 22.7    | 23.6         | 23.8         | 23.8         | 22.3      |  |

Table B.12. Annual mean bottom turbidity at sampled bay trawl sites in Texas bay systems from 1983-96. ND = no data.

| Year                    | Sabine Lake | Galveston | East Matagorda | Matagorda | San Antonio | Aransas | Corpus Christi | Upper Laguna Madre | Lower Laguna Madre | Coastwide |
|-------------------------|-------------|-----------|----------------|-----------|-------------|---------|----------------|--------------------|--------------------|-----------|
| Jackson Turbidity Units |             |           |                |           |             |         |                |                    |                    |           |
| 1983                    | ND          | 101       | ND             | 25        | 26          | 105     | 77             | 76                 | 38                 | 67        |
| 1984                    | ND          | 75        | ND             | 30        | 30          | 71      | 62             | 70                 | 38                 | 55        |
| 1985                    | ND          | 41        | ND             | 33        | 55          | 42      | 32             | 52                 | 59                 | 41        |
| 1986                    | 35          | 37        | ND             | 45        | 53          | 41      | 42             | 49                 | 67                 | 43        |
| Nephelometric Units     |             |           |                |           |             |         |                |                    |                    |           |
| 1987                    | 15          | 17        | 19             | 22        | 29          | 7       | 13             | 15                 | 12                 | 18        |
| 1988                    | 17          | 14        | 20             | 23        | 17          | 13      | 15             | 14                 | 15                 | 16        |
| 1989                    | 16          | 18        | 27             | 19        | 22          | 19      | 15             | 12                 | 14                 | 18        |
| 1990                    | 13          | 18        | 20             | 15        | 28          | 17      | 11             | 15                 | 13                 | 17        |
| 1991                    | 18          | 16        | 22             | 19        | 22          | 19      | 10             | 10                 | 8                  | 17        |
| 1992                    | 19          | 18        | 17             | 24        | 37          | 30      | 12             | 9                  | 18                 | 21        |
| 1993                    | 16          | 24        | 17             | 19        | 19          | 22      | 13             | 13                 | 47                 | 21        |
| 1994                    | 17          | 19        | 14             | 13        | 17          | 16      | 10             | 9                  | 16                 | 15        |
| 1995                    | 17          | 20        | 24             | 18        | 19          | 17      | 14             | 12                 | 19                 | 18        |
| 1996                    | 16          | 15        | 26             | 22        | 32          | 13      | 13             | 16                 | 15                 | 18        |

Table B.13. Annual mean bottom salinity (o/oo) at sampled gulf trawl sites in the Texas Territorial Sea 1985-96. ND = no data.

| Year | Sabine Lake | Galveston | Port O'Connor | Port Aransas | Port Isabel | Coastwide |
|------|-------------|-----------|---------------|--------------|-------------|-----------|
| 1985 | ND          | 30.6      | 32.3          | 30.9         | 31.7        | 31.4      |
| 1986 | 29.1        | 29.7      | 32.4          | 30.5         | 32.7        | 30.9      |
| 1987 | 27.4        | 28.8      | 33.5          | 34.4         | 34.4        | 31.7      |
| 1988 | 27.3        | 28.3      | 30.7          | 32.4         | 35.0        | 30.7      |
| 1989 | 25.4        | 29.9      | 32.9          | 30.9         | 33.7        | 30.6      |
| 1990 | 25.3        | 29.5      | 30.5          | 32.4         | 33.9        | 30.3      |
| 1991 | 23.7        | 28.5      | 31.0          | 31.9         | 29.3        | 29.3      |
| 1992 | 26.5        | 29.4      | 31.5          | 32.4         | 30.7        | 30.1      |
| 1993 | 23.1        | 27.3      | 28.9          | 34.5         | 30.8        | 28.9      |
| 1994 | 21.4        | 27.2      | 28.1          | 31.7         | 33.9        | 28.4      |
| 1995 | 26.1        | 28.0      | 31.5          | 31.2         | 33.4        | 30.0      |
| 1996 | 26.4        | 30.0      | 31.7          | 34.5         | 34.5        | 31.4      |

Table B.14. Annual mean bottom temperature (C) at sampled gulf trawl sites in the Texas Territorial Sea 1985-96. ND = no data.

| Year | Sabine Lake | Galveston | Port O'Connor | Port Aransas | Port Isabel | Coastwide |
|------|-------------|-----------|---------------|--------------|-------------|-----------|
| 1985 | ND          | 23.4      | 23.6          | 22.5         | 25.4        | 23.7      |
| 1986 | 25.6        | 22.0      | 22.8          | 22.3         | 22.7        | 23.1      |
| 1987 | 21.1        | 21.7      | 22.1          | 22.4         | 21.9        | 21.8      |
| 1988 | 21.1        | 21.6      | 21.2          | 22.2         | 21.8        | 21.6      |
| 1989 | 19.8        | 21.5      | 21.3          | 21.7         | 21.8        | 21.2      |
| 1990 | 21.3        | 21.9      | 21.8          | 22.2         | 21.8        | 21.8      |
| 1991 | 22.0        | 22.3      | 22.1          | 21.8         | 21.5        | 21.9      |
| 1992 | 19.9        | 21.5      | 20.9          | 22.5         | 20.9        | 21.1      |
| 1993 | 21.8        | 21.7      | 21.8          | 21.6         | 21.3        | 21.7      |
| 1994 | 22.1        | 22.2      | 21.9          | 22.2         | 22.0        | 22.1      |
| 1995 | 22.2        | 21.9      | 21.8          | 22.3         | 22.2        | 22.1      |
| 1996 | 21.6        | 21.8      | 21.8          | 21.9         | 21.1        | 21.7      |

Table B.15. Annual mean bottom turbidity at sampled gulf trawl sites in the Texas Territorial Sea 1985-96. ND = no data.

| Year                           | Sabine Lake | Galveston | Port O'Connor | Port Aransas | Port Isabel | Coastwide |
|--------------------------------|-------------|-----------|---------------|--------------|-------------|-----------|
| <b>Jackson Turbidity Units</b> |             |           |               |              |             |           |
| 1985                           | ND          | 31        | 37            | 25           | 24          | 30        |
| 1986                           | 30          | 24        | 29            | 24           | 24          | 26        |
| <b>Nephelometric Units</b>     |             |           |               |              |             |           |
| 1987                           | 10          | 10        | 11            | 4            | 6           | 8         |
| 1988                           | 6           | 9         | 10            | 4            | 4           | 7         |
| 1989                           | 7           | 9         | 9             | 7            | 4           | 7         |
| 1990                           | 9           | 11        | 7             | 8            | 3           | 8         |
| 1991                           | 11          | 12        | 7             | 8            | 3           | 8         |
| 1992                           | 13          | 10        | 10            | 10           | 4           | 9         |
| 1993                           | 12          | 6         | 14            | 7            | 4           | 9         |
| 1994                           | 10          | 8         | 5             | 5            | 4           | 6         |
| 1995                           | 13          | 13        | 7             | 5            | 4           | 8         |
| 1996                           | 14          | 10        | 9             | 6            | 3           | 8         |

Appendix C. Summary of SEAMAP samples by year and depth zone for brown shrimp, white shrimp, pink shrimp and blue crab collected off Texas during 1982-96.

Table C.1. Mean catch rates (No./h) and mean size (mm) of select shellfishes caught during SEAMAP<sup>®</sup> sampling off Texas during June-July 1982-96. Blanks indicate no measurement taken.

| Year  | Depth (m) | Samples (No.) | Brown Shrimp |        | White Shrimp |        | Pink Shrimp |        | Blue Crab |        |
|-------|-----------|---------------|--------------|--------|--------------|--------|-------------|--------|-----------|--------|
|       |           |               | No./h        | Length | No./h        | Length | No./h       | Length | No./h     | Length |
| 1982  | 0-18      | 22            | 1,222        | 108    | 15           | 173    | 161         | 136    | 8         |        |
|       | 19-37     | 50            | 1,427        | 115    | 0            |        | 20          | 138    | 1         |        |
|       | 38-55     | 29            | 138          | 145    | 0            |        | <1          | 126    | 0         |        |
|       | 56-73     | 5             | 117          | 179    | 0            |        | 0           |        | 0         |        |
| 74-91 | 3         | 79            | 182          | 0      |              | 0      |             | 0      |           |        |
| 1983  | 0-18      | 28            | 254          | 99     | 20           | 153    | 195         | 127    | 8         |        |
|       | 19-37     | 47            | 1,445        | 119    | 1            | 167    | 87          | 121    | 4         |        |
|       | 38-55     | 24            | 304          | 132    | 0            |        | 1           | 118    | 1         |        |
|       | 56-73     | 8             | 66           | 156    | 0            |        | 0           |        | 0         |        |
|       | 74-91     | 2             | 71           | 168    | 0            |        | 0           |        | 0         |        |
|       | 0-18      | 16            | 733          | 116    | 30           | 174    | 4           | 151    | 6         |        |
| 1984  | 19-37     | 40            | 1,594        | 116    | 1            | 168    | 3           | 150    | 0         |        |
|       | 38-55     | 16            | 544          | 131    | 0            |        | 0           |        | 0         |        |
|       | 56-73     | 12            | 194          | 138    | 0            |        | 0           |        | 0         |        |
|       | 74-91     | 5             | 86           | 151    | 0            |        | 0           |        | 0         |        |
|       | 0-18      | 30            | 450          | 98     | 41           | 168    | 15          | 135    | 20        |        |
|       | 19-37     | 40            | 1,362        | 112    | 2            | 167    | 10          | 131    | 4         |        |
| 1985  | 38-55     | 14            | 150          | 127    | 0            |        | <1          | 127    | 0         |        |
|       | 56-73     | 5             | 154          | 144    | 0            |        | 0           |        | 0         |        |
|       | 74-91     | 1             | 36           | 179    | 0            |        | 0           |        | 0         |        |
|       | 0-18      | 35            | 250          | 98     | 33           | 165    | 18          | 116    | 11        |        |
|       | 19-37     | 43            | 809          | 108    | 0            |        | 42          | 130    | 10        |        |
|       | 38-55     | 10            | 311          | 124    | 0            |        | 0           |        | 0         |        |
| 1986  | 56-73     | 5             | 176          | 136    | 0            |        | 0           |        | 0         |        |
|       | 74-91     | 3             | 49           | 147    | 0            |        | 0           |        | 0         |        |
|       | 0-18      | 74            | 189          | 103    | 15           | 159    | 24          | 115    | 3         |        |
|       | 19-37     | 56            | 606          | 107    | 3            | 162    | 19          | 108    | 7         |        |
|       | 38-55     | 17            | 26           | 142    | 0            |        | <1          | 180    | 2         |        |
|       | 56-73     | 8             | 16           | 177    | 0            |        | 0           |        | 1         |        |
| 1987  | 74-91     | 7             | 11           | 177    | 0            |        | 0           |        | 0         |        |
|       | 0-18      | 75            | 227          | 106    | 4            | 166    | 22          | 110    | 5         |        |
|       | 19-37     | 50            | 309          | 113    | 0            |        | 2           | 127    | 2         |        |
|       | 38-55     | 17            | 18           | 126    | 0            |        | 0           |        | 0         |        |
|       | 56-73     | 7             | 4            | 180    | 0            |        | 0           |        | 0         |        |
|       | 74-91     | 7             | 3            | 198    | 0            |        | 0           |        | 0         |        |
| 1988  | 0-18      | 85            | 556          | 101    | 16           | 167    | 51          | 116    | 6         | 111    |
|       | 19-37     | 54            | 928          | 118    | 4            | 126    | 24          | 116    | 1         | 144    |
|       | 38-55     | 12            | 212          | 129    | 0            |        | <1          | 135    | 0         |        |
|       | 56-73     | 8             | 40           | 140    | 0            |        | 0           |        | 0         |        |
|       | 74-91     | 7             | 11           | 159    | 0            |        | 0           |        | 0         |        |
|       | 0-18      | 74            | 279          | 113    | 17           | 171    | 18          | 126    | 5         | 127    |
| 1989  | 19-37     | 48            | 850          | 123    | 1            | 156    | 62          | 122    | 2         | 81     |
|       | 38-55     | 16            | 202          | 136    | 0            |        | <1          | 135    | 1         | 79     |
|       | 56-73     | 10            | 76           | 140    | 0            |        | 0           |        | 0         |        |
|       | 74-91     | 8             | 16           | 154    | 0            |        | 0           |        | <1        | 164    |
|       | 0-18      | 92            | 202          | 106    | 31           | 167    | 27          | 125    | 14        | 90     |
|       | 19-37     | 51            | 1,153        | 125    | 7            | 173    | 64          | 136    | 4         | 143    |
| 1990  | 38-55     | 20            | 186          | 143    | 0            |        | <1          | 157    | 1         | 135    |
|       | 56-73     | 10            | 76           | 171    | 0            |        | 0           |        | 1         | 96     |
|       | 74-91     | 9             | 41           | 176    | 0            |        | 0           |        | 0         |        |
|       | 0-18      | 85            | 234          | 100    | 36           | 166    | 15          | 112    | 4         | 114    |
|       | 19-37     | 58            | 217          | 127    | <1           | 185    | 6           | 121    | 1         | 148    |
|       | 38-55     | 17            | 22           | 158    | 0            |        | 0           |        | <1        | 248    |
| 1991  | 56-73     | 10            | 15           | 180    | 0            |        | 0           |        | 0         |        |
|       | 74-91     | 8             | 10           | 186    | 0            |        | 0           |        | 0         |        |
|       | 0-18      | 85            | 234          | 100    | 36           | 166    | 15          | 112    | 4         | 114    |
|       | 19-37     | 58            | 217          | 127    | <1           | 185    | 6           | 121    | 1         | 148    |
| 1992  | 38-55     | 17            | 22           | 158    | 0            |        | 0           |        | <1        | 248    |
|       | 56-73     | 10            | 15           | 180    | 0            |        | 0           |        | 0         |        |
|       | 74-91     | 8             | 10           | 186    | 0            |        | 0           |        | 0         |        |
|       | 0-18      | 85            | 234          | 100    | 36           | 166    | 15          | 112    | 4         | 114    |

Table C.1. (Cont.)

| Year  | Depth (m) | Samples (No.) | Brown Shrimp |        | White Shrimp |        | Pink Shrimp |        | Blue Crab |        |
|-------|-----------|---------------|--------------|--------|--------------|--------|-------------|--------|-----------|--------|
|       |           |               | No./h        | Length | No./h        | Length | No./h       | Length | No./h     | Length |
| 1993  | 0-18      | 89            | 121          | 104    | 16           | 171    | 23          | 122    | 10        | 120    |
|       | 19-37     | 55            | 236          | 111    | 2            | 169    | 63          | 121    | 6         | 119    |
|       | 38-55     | 22            | 69           | 139    | 0            | 176    | 19          | 122    | <1        | 152    |
|       | 56-73     | 10            | 35           | 132    | 0            | 0      | 0           | 0      | <1        | 161    |
| 74-91 | 2         | 34            | 169          | 0      | 0            | 0      | 0           | <1     | 140       |        |
| 1994  | 0-18      | 93            | 113          | 109    | 9            | 169    | 58          | 124    | 6         | 125    |
|       | 19-37     | 50            | 850          | 120    | 0            | 0      | 27          | 118    | <1        | 102    |
|       | 38-55     | 19            | 46           | 151    | 0            | 0      | 0           | 0      | 0         | 0      |
|       | 56-73     | 11            | 36           | 181    | 0            | 0      | 0           | 0      | 0         | 0      |
| 74-91 | 3         | 12            | 181          | 0      | 0            | 0      | 0           | 0      | 0         |        |
| 1995  | 0-18      | 88            | 343          | 105    | 19           | 165    | 34          | 117    | 6         | 112    |
|       | 19-37     | 54            | 829          | 114    | 8            | 165    | 10          | 109    | 1         | 142    |
|       | 38-55     | 20            | 101          | 125    | 0            | 0      | <1          | 100    | <1        | 143    |
|       | 56-73     | 11            | 106          | 148    | 0            | 0      | 0           | 0      | 0         | 0      |
| 74-91 | 7         | 43            | 177          | 0      | 0            | 0      | 0           | 0      | 0         |        |
| 1996  | 0-18      | 85            | 66           | 108    | 9            | 164    | 10          | 124    | 4         | 102    |
|       | 19-37     | 60            | 332          | 108    | <1           | 163    | 30          | 106    | 2         | 120    |
|       | 38-95     | 18            | 10           | 149    | <1           | 105    | 0           | 0      | 0         | 0      |
|       | 56-73     | 13            | 28           | 176    | 0            | 0      | 0           | 0      | 0         | 0      |

\*Data presented here were collected by R/V OREGON II (NMFS) in conjunction with TPWD research vessels. The data were made available by the Southeast Area Monitoring and Assessment Program (SEMAP). Samples collected with 12.2-m trawl, except 6.1-m trawl by TPW vessels since 1987. Data normalized to 12.2-m trawl by NMFS.

Table C.2. Mean catch rates (No./h) and mean size (mm) of select shellfishes caught during SEAMAP sampling off Texas during November 1986-96. Blanks indicate no measurement taken.

| Year | Depth (m) | Samples (No.) | Brown shrimp |        | White shrimp |        | Pink shrimp |        | Blue crab |        |
|------|-----------|---------------|--------------|--------|--------------|--------|-------------|--------|-----------|--------|
|      |           |               | No./h        | Length | No./h        | Length | No./h       | Length | No./h     | Length |
| 1986 | 0-18      | 12            | 71           |        | 77           |        | 26          |        | 0         |        |
|      | 19-37     | 34            | 93           |        | 15           |        | 2           |        | 1         |        |
|      | 38-55     | 26            | 68           |        | 0            |        | 0           |        | 0         |        |
|      | 56-73     | 12            | 41           |        | 0            |        | 0           |        | 0         |        |
| 1987 | 0-18      | 65            | 20           |        | 89           |        | 18          |        | 0         |        |
|      | 19-37     | 40            | 50           |        | 7            |        | 2           |        | <1        |        |
|      | 38-55     | 12            | 21           |        | 0            |        | 0           |        | 0         |        |
|      | 56-73     | 2             | 6            |        | 0            |        | 0           |        | 0         |        |
| 1988 | 0-18      | 77            | 21           |        | 98           |        | 9           |        | 0         |        |
|      | 19-37     | 49            | 48           |        | 15           |        | 12          |        | 0         |        |
|      | 38-55     | 16            | 44           |        | 0            |        | 1           |        | 0         |        |
|      | 56-73     | 10            | 15           |        | 0            |        | 0           |        | 0         |        |
| 1989 | 0-18      | 78            | 21           | 100    | 137          | 102    | 16          | 124    | 2         | 45     |
|      | 19-37     | 60            | 68           | 140    | 23           | 117    | 10          | 123    | <1        | 83     |
|      | 38-55     | 20            | 71           | 169    | <1           |        | 1           | 124    | <1        | 94     |
|      | 56-73     | 7             | 43           | 173    | 0            |        | 0           |        | <1        | 74     |
| 1990 | 0-18      | 64            | 18           | 105    | 56           | 129    | 11          | 137    | <1        | 70     |
|      | 19-37     | 59            | 69           | 140    | 5            | 159    | 7           | 126    | <1        | 87     |
|      | 38-55     | 22            | 60           | 168    | <1           | 185    | 1           | 129    | 1         | 75     |
|      | 56-73     | 9             | 34           | 173    | 0            |        | 0           |        | 1         | 74     |
| 1991 | 0-18      | 88            | 28           | 107    | 31           | 124    | 14          | 108    | <1        | 52     |
|      | 19-37     | 57            | 120          | 134    | 4            | 166    | 4           | 107    | <1        | 133    |
|      | 38-55     | 20            | 65           | 161    | 0            |        | 0           |        | 1         | 135    |
|      | 56-73     | 12            | 31           | 172    | 0            |        | 0           |        | 0         |        |
| 1992 | 0-18      | 89            | 11           | 115    | 135          | 115    | 3           | 131    | <1        | 34     |
|      | 19-37     | 55            | 80           | 135    | 8            | 157    | 1           | 122    | <1        | 141    |
|      | 38-55     | 18            | 42           | 164    | 0            |        | 0           |        | <1        | 141    |
|      | 56-73     | 8             | 49           | 172    | 0            |        | 0           |        | 0         |        |
| 1993 | 0-18      | 88            | 11           | 126    | 160          | 119    | 31          | 95     | 3         | 160    |
|      | 19-37     | 55            | 91           | 119    | 17           | 134    | 28          | 88     | 1         | 151    |
|      | 38-55     | 17            | 60           | 93     | <1           | 109    | <1          | 76     | <1        | 108    |
|      | 56-73     | 9             | 12           | 106    | <1           | 125    | <1          | 76     | 0         |        |
| 1994 | 0-18      | 89            | 13           | 108    | 36           | 124    | 19          | 106    | 1         | 105    |
|      | 19-37     | 54            | 106          | 132    | 5            | 152    | 6           | 110    | <1        | 134    |
|      | 38-55     | 17            | 53           | 162    | 0            |        | 0           |        | 0         |        |
|      | 56-73     | 13            | 26           | 177    | 0            |        | 0           |        | 0         |        |
| 1995 | 0-18      | 95            | 5            | 118    | 120          | 114    | 10          | 126    | 5         | 54     |
|      | 19-37     | 51            | 131          | 129    | 15           | 162    | 19          | 117    | <1        | 75     |
|      | 38-55     | 19            | 49           | 162    | 0            |        | 2           | 138    | 0         |        |
|      | 56-73     | 9             | 45           | 166    | 0            |        | <1          | 160    | 0         |        |
| 1996 | 0-18      | 9             | 54           | 177    | 0            |        | 0           |        | 0         |        |
|      | 19-37     | 5             | 118          | 129    | 15           | 162    | 19          | 117    | <1        | 75     |
|      | 38-55     | 19            | 49           | 162    | 0            |        | 2           | 138    | 0         |        |
|      | 56-73     | 9             | 45           | 166    | 0            |        | <1          | 160    | 0         |        |



Table C.2. (Cont.)

| Year | Depth (m) | Samples (No.) | Brown shrimp |        | White shrimp |        | Pink shrimp |        | Blue crab |        |
|------|-----------|---------------|--------------|--------|--------------|--------|-------------|--------|-----------|--------|
|      |           |               | No./h        | Length | No./h        | Length | No./h       | Length | No./h     | Length |
| 1996 | 0-18      | 93            | 9            | 104    | 135          | 117    | 14          | 113    | 1         | 55     |
|      | 19-37     | 52            | 75           | 124    | 30           | 146    | 19          | 135    | 0         |        |
|      | 38-55     | 19            | 40           | 134    | 0            | <1     | 0           | 155    | 0         |        |
|      | 56-73     | 11            | 29           | 158    | 0            | 0      | 0           | 0      | <1        | 133    |
|      | 74-91     | 11            | 47           | 173    | 0            | 0      | 0           | 0      | 0         |        |

\*Data presented here were collected with 12.2-m trawl by R/V OREGON II (NMFS) and with 6.1-m trawl by FPWD research vessels. The data were made available by the Southeast Area Monitoring and Assessment Program (SEAMAP). Data normalized to 12.2-m trawl by NMFS.

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