

**Compilation of Historical Commercial Landings of King Mackerel, *Scomberomorus cavalla*, from US waters in the US Gulf of Mexico and off the US South Atlantic States**

**By**

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**Introduction**

The history of U.S. commercial landings of king mackerel was compiled for the period from 1880 to the most recent complete record of landings in 2006. The first commercial landings were reported in 1902, when 32,000 lbs were landed on the east coast of Florida and 45,000 lbs were landed off North Carolina. Regular landings of over one million pounds (MP) were first reported in 1918 (Figure 1). The data originated from three sources:

- 1) Science & Technology (S&T)  
Historical landings compiled from the “Fisheries of the United States”, and provided by Liz Pritchard, NOAA Fisheries, Office of Science and Technology, Washington, D.C. This data included landings from 1926 through 1961.
- 2) Current Fishery Statistics (CFS), Holiday and O’Bannon (1990)  
King Mackerel 1880-1989 (1): South Atlantic Fisheries pg. 75, Gulf Fisheries pg. 97. These data included records from 1880 through 1989.
- 3) Accumulated Landing System (ALS)  
ALS records are maintained by the NOAA Southeast Fisheries Science Center (SEFSC) in Miami. It contains data from 1962 to the present.

**Compilation Steps**

Data 1880 to 1926

- Records from 1880 to 1925 were taken from Holiday and O’Bannon (1990)
- Only years 1902, 1918 and 1923 contained landings within that period (Figure 1 and Table 1)

#### Data 1926 to 1961

- A combination of the CFS and S&T data sets were used.
- The landings from each data base matched in all years where data was present in both databases for the same NMFS state code.
- For Florida, by far the important state for commercial King Mackerel landings, S&T data had only data for Florida East or West in 1927 and from 1950 onwards.
- Between 1934 -1940, the Florida data were shown as to have originated from Florida Central, i.e. NMFS state code 12. This seemed unrealistic and did not match the records from the CFS which showed catches to originate from Florida West and East.
- Only Florida East and West data were used (CFS) and Florida Central catches (S&T) were ignored.
- The combined landings of Florida East and West (Florida Total) from CFS data were identical to the Florida Central landings shown in the S&T data.
- Landings from the Gulf , i.e. Alabama, Mississippi, Louisiana and Texas, and the Atlantic States, i.e. Georgia, S. Carolina, N. Carolina (present in both S&T and CFS data) and Virginia, Delaware, New Jersey, New York, Connecticut, Rhode Island, Massachusetts and Maine (in S & T only) were used in the compilation.
- Most of the data was from the CFS data which had more complete records for Florida from 1927 to 1961, except 1933, 1935, 1937, 1941-1944 and 1946-1949.
- Landings from Atlantic states north of North Carolina, i.e. Virginia and all the way to Maine was present in the S&T data. This included in some years reported landings of over 50,000 lbs from North Atlantic states such as New Jersey and New York.

#### Data 1962-2006

- The data originate exclusively from ALS. The landings for Florida were checked against those from CFS and showed very good match from 1961-1985, i.e. deviation in the amount of landings were 0-0.03% or 500 lbs or less per year.
- Prior to 1986 in Florida landings were reported ‘as landed’; preliminary information suggests that most king mackerel were landed gutted. We therefore added 4% to the landings from 1977-1985 in order to convert gutted weight to whole weight (this conversion should also be applied to 1956-1976 landings from Florida and will be in a revision to this document).
- In 1986 and 1987, the annual differences in landings between ALS and CFS were 0.004-0.2% or 97 to 2758 lbs per year.
- For 1988, and 1989, the differences between ALS and CFS were higher -10.2 % and 128.1% or -278,908 lbs and 324,057 lbs for Florida East and West, respectively. It was felt that the ALS data used for those two years were the more accurate due to probable updates to the landings data after publication of the CFS in 1990.

### **Interpolation for of Missing data**

Many stock assessment (SA) models require complete data sets without gaps in the time series. In order to satisfy this computational requirement, data were generated by interpolation between the known landings of years on either years of the data gap or if available, the average of two years of landings on either side of the interval (Figure 2).

1897-1918      The interpolation assumed a zero catch in 1897 for the Atlantic region states and in Florida east, which closely resembles the Mixing zone and used the data from 1902 and 1918 to interpolate between.

1918-1950      The coverage on either side of data gaps was much better in this time interval, although during and after World War II the data was sparser, i.e. landings were only available for 1940, 1945 and 1950.

### **Landings Aggregation by Region**

- King Mackerel are migratory and the population in US waters is postulated to consist of two separate stocks, a Gulf and an Atlantic stock. It further suggested that these separate stocks are overlapping and mixing in an area called the “mixing zone”.

- The mixing zone has been defined on the Gulf of Mexico side to be below the Monroe/Collier County line and to extend around the around Florida Keys and southernmost part of Florida northward along the Atlantic coast to the Volusia/Flagler County line North of Cape Canaveral.
- Prior to 1961, Florida East landings were aggregated to the mixing zone and Florida West to the Gulf
- The origin of landings in states other than Florida was straightforward for States around the Gulf of Mexico and Atlantic States.
- Florida landings however, may originate from either one of the three management regions, Gulf, Atlantic and the mixing zone (Figure 1-4, Table 1), depending the location of the water body in which they were reportedly caught (Table 2).
- When landings in Florida (East and West, i.e. NMFS State codes 10 and 11), did not have the adequate water body information that would allow them been aggregated properly to a region, i.e. unreported water body (codes 0000 and 9999) then the county codes were used to make the assignment to region (Table 2) to a regional zone.
- The mixing zone has been allocated to the Gulf of Mexico Fishery Management Council (GMFMC) from November-March to the South Atlantic Fishery Management Council (SAFMC) from April through October.

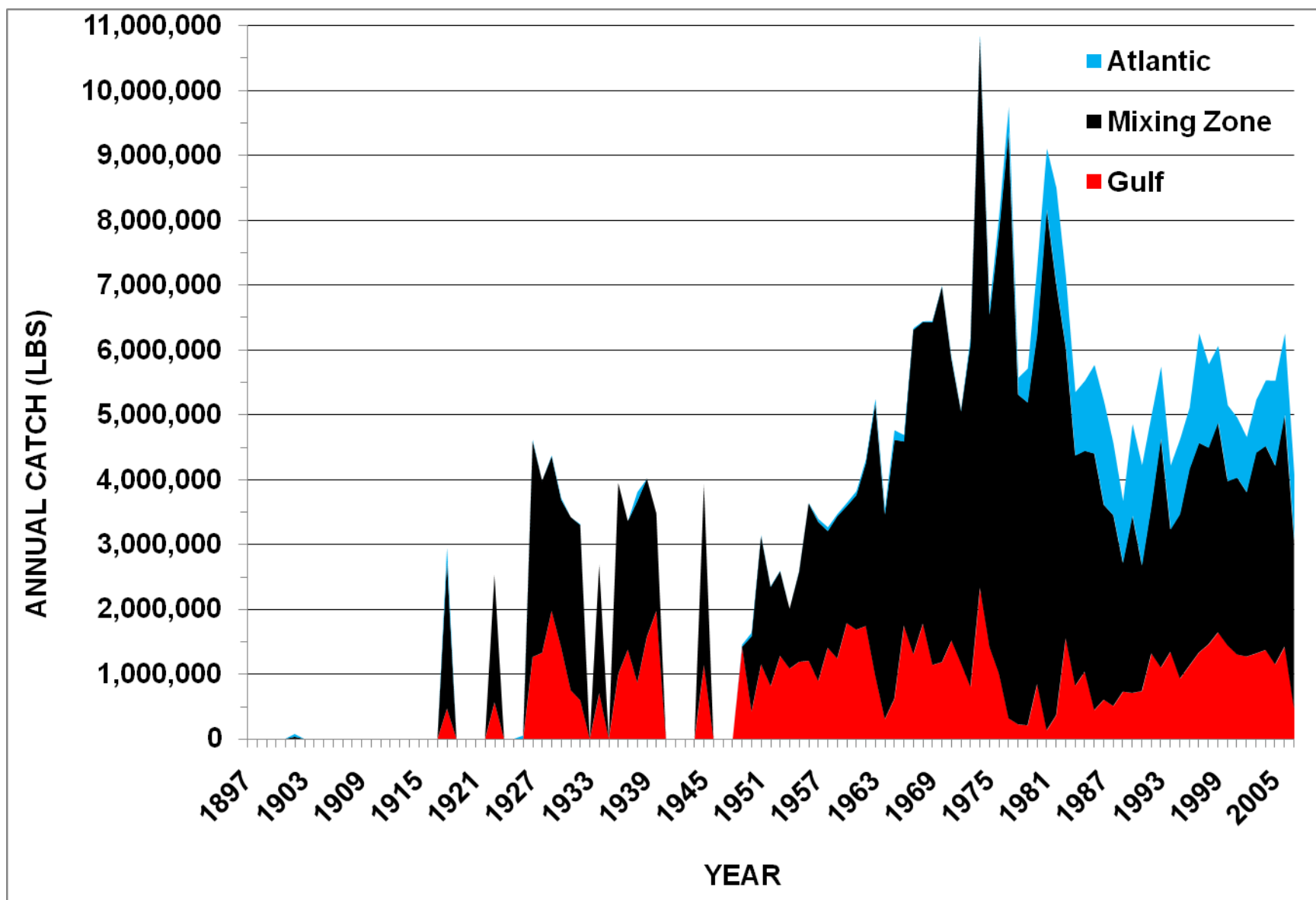


Figure 1: Historical landings of King Mackerel on record from 1897 through 2006.

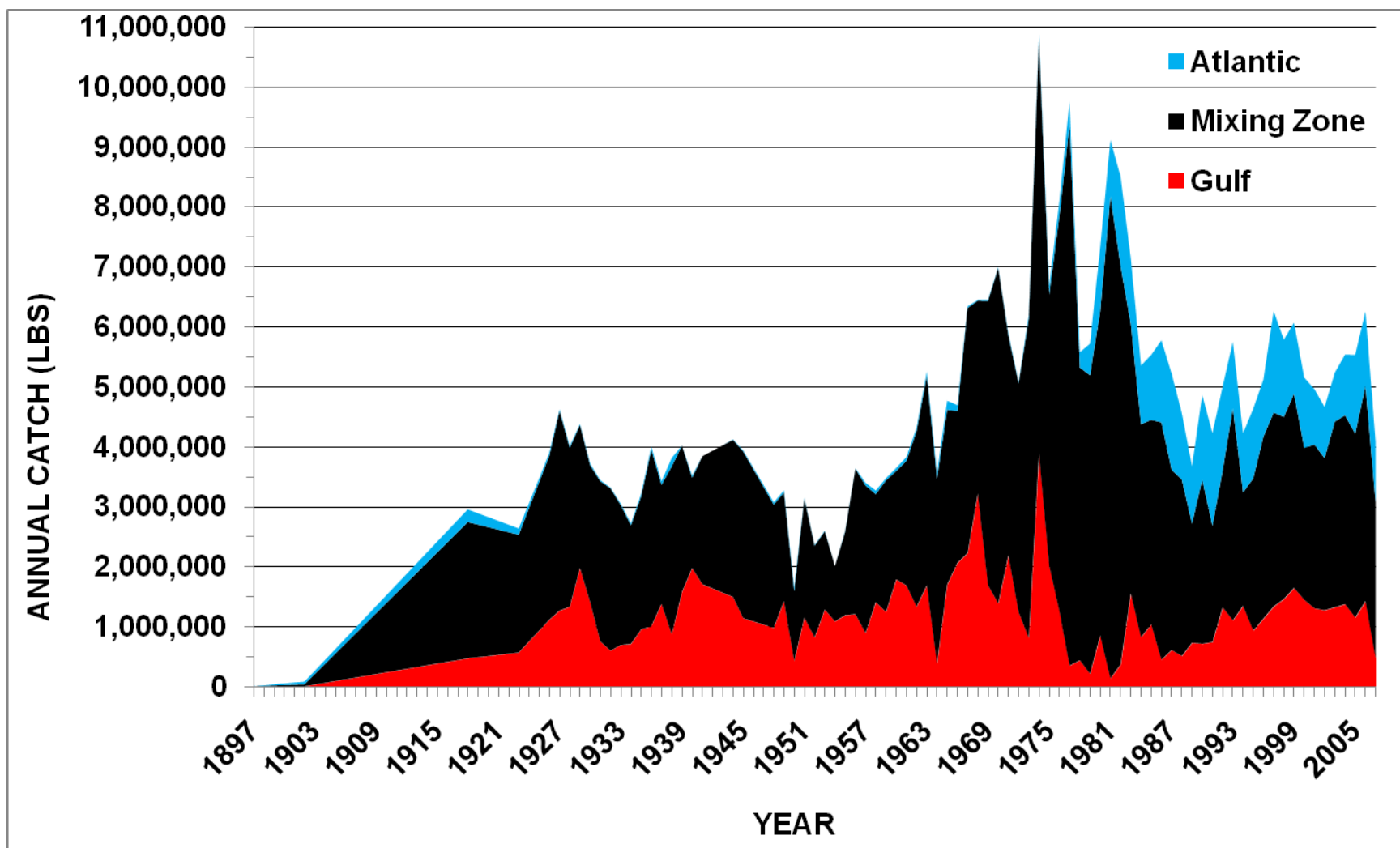


Figure 2: Historical landings of King Mackerel on record 1897 through 2006 (see Figure 1). Missing gaps in the data were filled by linear interpolation and averaging the next closest two data point before and after the gap year. This stacked graph is cumulative showing also the total landings.

Table 1. Landings in lbs from 1902 to 2006 used for Figure 1 and 2. Landings shown were aggregated by the three regions according definitions presented in the text. Prior to 1962 landing on the Florida East were used as a close proxy definition of the “mixing zone”.

Year	Gulf	Mixing Zone	Atlantic	Total
1902			45,000	45,000
1918	466,000	2,272,000	212,000	2,950,000
1923	564,000	1,965,000		2,529,000
1926			52,556	52,556
1927	1,263,000	3,331,000	25,000	4,619,000
1928	1,327,000	2,651,000		3,978,000
1929	1,973,300	2,383,000	17,420	4,373,720
1930	1,406,000	2,282,000	29,000	3,717,000
1931	749,000	2,671,000		3,420,000
1932	595,000	2,706,000	13,000	3,314,000
1934	707,000	1,977,000		2,684,000
1936	1,005,000	2,942,000		3,947,000
1937	1,376,000	1,983,000		3,359,000
1938	867,000	2,803,000	140,200	3,810,200
1939	1,572,900	2,442,000		4,014,900
1940	1,973,800	1,506,000		3,479,800
1945	1,138,000	2,781,000		3,919,000
1949	1,421,900		34,400	1,456,300
1950	422,100	1,160,500	58,900	1,641,500
1951	1,151,100	1,976,900	17,100	3,145,100
1952	814,200	1,528,400	11,700	2,354,300
1953	1,281,800	1,304,000	10,500	2,596,300
1954	1,083,000	921,000	700	2,004,700
1955	1,188,000	1,391,000	13,000	2,592,000
1956	1,204,000	2,427,100	7,300	3,638,400
1957	891,000	2,457,000	46,300	3,394,300
1958	1,406,000	1,800,000	60,300	3,266,300
1959	1,239,000	2,196,000	36,000	3,471,000
1960	1,785,000	1,807,500	50,000	3,642,500
1961	1,683,300	2,076,100	64,500	3,823,900
1962	1,278,300	2,814,300	56,500	4,149,100
1963	931,000	4,048,900	68,000	5,047,900
1964	293,400	3,034,100	95,400	3,422,900
1965	594,900	3,841,500	149,800	4,586,200
1966	1,679,800	2,733,000	100,300	4,513,100
1967	1,254,300	4,815,900	25,700	6,095,900
1968	1,712,100	4,474,100	11,300	6,197,500
1969	1,095,000	5,087,900	19,500	6,202,400
1970	1,139,800	5,568,100	15,400	6,723,300
1971	1,456,600	4,173,000	30,400	5,660,000
1972	1,119,100	3,738,700	19,546	4,877,346
1973	770,100	5,102,800	92,147	5,965,047
1974	2,240,400	8,142,800	68,126	10,451,326
1975	1,357,200	4,930,300	140,673	6,428,173
1976	1,000,896	6,846,632	254,815	8,102,343
1977	316,056	9,057,048	390,271	9,763,375
1978	223,184	5,087,576	271,373	5,582,133
1979	191,750	4,995,328	548,690	5,735,768
1980	1,203,650	5,019,951	1,127,169	7,350,770
1981	116,212	7,979,916	1,068,872	9,165,000

<b>Year</b>	<b>Gulf</b>	<b>Mixing Zone</b>	<b>Atlantic</b>	<b>Total</b>
1982	334,488	6,435,880	1,801,389	8,571,757
1983	1,603,960	4,307,240	1,330,479	7,241,679
1984	841,979	3,459,165	1,124,469	5,425,612
1985	1,061,929	3,161,336	1,384,222	5,607,488
1986	440,410	3,799,613	1,528,394	5,768,417
1987	604,172	2,877,398	1,717,212	5,198,782
1988	504,749	2,834,613	1,202,233	4,541,595
1989	726,391	1,916,859	1,004,905	3,648,155
1990	697,778	2,708,083	1,435,672	4,841,533
1991	716,298	1,748,628	1,564,851	4,029,777
1992	1,280,273	2,274,895	1,450,385	5,005,553
1993	1,068,320	3,489,991	1,107,784	5,666,095
1994	1,331,692	1,973,254	1,000,964	4,305,910
1995	924,230	2,563,964	1,171,604	4,659,798
1996	1,267,593	2,904,721	958,444	5,130,758
1997	1,279,065	3,139,236	1,725,963	6,144,264
1998	1,532,451	2,957,599	1,332,738	5,822,788
1999	1,892,288	3,007,215	1,257,214	6,156,717
2000	1,511,302	2,384,258	1,245,669	5,141,229
2001	1,356,159	2,599,887	993,241	4,949,287
2002	1,259,901	2,471,425	919,105	4,650,431
2003	1,309,887	3,012,214	904,698	5,226,799
2004	1,388,765	3,073,918	1,068,963	5,531,646
2005	1,148,800	2,986,948	1,384,573	5,520,321
2006	1,476,680	3,496,044	1,279,949	6,252,673
<b>Grand Total</b>	<b>104,281,708</b>	<b>315,969,734</b>	<b>40,526,980</b>	<b>460,778,422</b>



Table 2. Summary of King Mackerel commercial landings (in lbs whole weight) from the ALS data base from 1962 to 2006 showing all the water body codes that were used for the region aggregations. Landings for water body codes 0000, 9999 (both unreported code) and 7994 (code for Southeast US waters) were aggregated by county.

Water	Gulf	Mixing Zone	Atlantic	Grand Total
			173,126	
0000	6,025,157	190		6,198,473
0010	*	1,059,343		1,059,442
0011		6,513,750		6,513,750
0018		195,135		195,135
0019		4,771,742		4,771,742
0020		13,004,918		13,004,918
0028		2,003,264		2,003,264
0029		2,124,299		2,124,299
0030		959,357		959,357
0032		*		*
0039		2,035,055		2,035,055
0040	1,405,519			1,405,519
0041	*			*
0043	*			*
0049	124,060			124,060
0050	693,245			693,245
0051	25,684			25,684
0053	252			252
0059	43,655			43,655
0060	123,267			123,267
0061	*			*
0062	*			*
0069	60,164			60,164
0070	154,895			154,895
0071	*			*
0073	*			*
0079	404,377			404,377
0080	1,149,368			1,149,368
0081	*			*
0082	13,985			13,985
0083	*			*
0089	824,663			824,663
0090	471,110			471,110
0091	*			*
0099	395,950			395,950
0100	279,238			279,238
0101	*			*
0102	*			*
0104	*			*
0105	*			*
0106	*			*
0109	73,780			73,780
0110	137,984			137,984
0112	*			*
0113	*			*
0119	118,475			118,475
0120	35,472			35,472

<b>Water</b>	<b>Gulf</b>	<b>Mixing Zone</b>	<b>Atlantic</b>	<b>Grand Total</b>
0121	*			*
0122	38,999			38,999
0129	28,364			28,364
0130	4,498,625			4,498,625
0131	206,623			206,623
0132	*			*
0134	*			*
0136	1,352,736			1,352,736
0139	1,356,814			1,356,814
0140	642,497			642,497
0149	952,299			952,299
0150	313,974			313,974
0151	*			*
0159	1,759,692			1,759,692
0160	51,567			51,567
0161	*			*
0169	144,919			144,919
0170	18,255			18,255
0179	497,969			497,969
0180	1,840,125			1,840,125
0181	*			*
0190	*			*
0200	*			*
0209	*			*
0210	*			*
0211	*			*
0219	*			*
0220	*			*
2189	*			*
5000	1,217,998			1,217,998
5189	37,591			37,591
6354			27,803	27,803
7006			*	*
7012			*	*
7013			*	*
7014			*	*
7015			*	*
7061			*	*
7130			*	*
7135			*	*
7170			*	*
7179			*	*
7220			638,763	638,763
7224			*	*
7225			*	*
7229			334,448	334,448
7230			187,310	187,310
7270			175,932	175,932
7280			1,654,487	1,654,487
7281			*	*
7289			779,515	779,515
7320		6,172,809		6,172,809
7321		*		*
7329		3,418,712		3,418,712
7330		*		*

<b>Water</b>	<b>Gulf</b>	<b>Mixing Zone</b>	<b>Atlantic</b>	<b>Grand Total</b>
7360		24,542,158		24,542,158
7361		*		*
7369		10,254,846		10,254,846
7400		5,644,588		5,644,588
7410		10,007,336		10,007,336
7411		*		*
7419		3,789,295		3,789,295
7440		1,867,176		1,867,176
7441		*		*
7442		*		*
7443		*		*
7444		*		*
7445		*		*
7448		*		*
7449		597,372		597,372
7480		672,613		672,613
7481		*		*
7489		360,987		360,987
7882			*	*
7990			89,763	89,763
7991			766,200	766,200
7992			252,225	252,225
7993			3,818,270	3,818,270
7994		9,752,318	26,392,706	36,145,024
9131	*			*
9999			*	*

\* Landings less than 10,000lbs

Table 3. Summary of King Mackerel commercial landings (in lbs whole weight) and associated county codes from Florida West and East from the ALS data base from 1962 to 2006. The county codes actually used for region aggregations were landings with water codes 0000, 9999, and 7994 shown in table 1.

State	Florida East	Florida East	Florida East	Florida West	Florida West	Florida West	
County	Atlantic	Gulf	Mixed	Atlantic	Gulf	Mixed	Grand Total
1	15,353		6,543,316		1,650,864	*	8,209,595
3			1,579,233		13,895	15,554	1,608,682
5					*		*
7	*		2,030,203		733,210	2,104,359	4,868,954
8	1,132,784		*				1,133,152
9	*	*			*		19,224
11					132,724	*	132,818
13					337,557		337,557
15	*		12,275,916		89,310		12,366,192
17					*		*
19	*		6,658,042		561,152	*	7,219,329
21	56,974		*				58,596
23			19,818,874		495,875	84,513	20,399,262
25					*		*
27	344,331		*		244,949	*	594,495
29	*		20,609,612		*	37,308,636	57,921,515
31					1,604,476		1,604,476
33	2,339,795	*	704,526		63,124		3,107,569
35					304,349	19,133	323,482
37					38,707		38,707
39					21,607		21,607
41					*		*
43					*	*	*
45					*		*
<b>Grand Total</b>	3,900,320	*	70,226,884		6,323,566	39,532,523	119,989,467

Table 4. NMFS Water body codes used in Table 2.

Region	Water code	Description of water body area
Atlantic	0	Uncoded water body
Atlantic	6305	Chowan River
Atlantic	6310	Wright Brothers Monument To Nc/Va Line
Atlantic	6311	Currituck Sound
Atlantic	6312	North River
Atlantic	6313	Pasquotank River
Atlantic	6314	Perquimans River
Atlantic	6315	Back Bay (Va)
Atlantic	6316	Albemarle Sound
Atlantic	6319	Inland Waterway (Currituk Sound To North River)
Atlantic	6320	Lat/Long 36 To 37 N, 74 To 75 W
Atlantic	6330	Lat/Long 36 To 37 N, 73 To 74 W
Atlantic	6340	Lat/Long 36 To 37 N, 72 To 73 W
Atlantic	6350	Ocracoke Inlet To Wright Brothers Monument
Atlantic	6351	Alligator River
Atlantic	6352	Roanoke Sound
Atlantic	6353	Croatan Sound
Atlantic	6354	Pamlico River and Sound
Atlantic	6355	Pamlico River
Atlantic	6356	Mattamuskeet Lake
Atlantic	6357	Swamps
Atlantic	6359	Inland Waterway (Alligator River To Bay River)
Atlantic	6360	Lat/Long 35 To 36 N, 74 To 75 W
Atlantic	6370	Lat/Long 35 To 36 N, 73 To 74 W
Atlantic	6380	Lat/Long 35 To 36 N, 72 To 73 W
Atlantic	7000	Kure Beach To Bogue Inlet
Atlantic	7001	Bogue Sound, West of 77 Long
Atlantic	7002	White Oak River
Atlantic	7003	New River
Atlantic	7004	Stump Sound
Atlantic	7005	Topsail Sound
Atlantic	7006	Masonboro Sound
Atlantic	7007	Cape Fear River
Atlantic	7009	Inland Waterway (White Oak to Cape Fear)
Atlantic	7010	Bogue Inlet To Ocracoke Inlet
Atlantic	7011	Neuse River
Atlantic	7012	Core Sound
Atlantic	7013	North River (Carteret County)
Atlantic	7014	Newport River
Atlantic	7015	Bogue Sound, East of 77 Long
Atlantic	7016	Bogue Inlet
Atlantic	7019	Inland Waterway Adams Creek To White Oak
Atlantic	7020	Ocracoke Inlet To Swash Inlet
Atlantic	7030	Lat/Long 34 To 35 N, 74 To 75 W
Atlantic	7040	Lat/Long 34 To 35 N, 73 To 74 W
Atlantic	7050	Lat/Long 34 To 35 N, 72 To 73 W
Atlantic	7061	Murrell's Inlet
Atlantic	7062	Waccamaw River
Atlantic	7063	Pee Dee River
Atlantic	7064	Winyah Bay
Atlantic	7065	Santee Bay
Atlantic	7066	Santee River

Region	Water code	Description of water body area
Atlantic	7067	Black River
Atlantic	7070	Garden City Beach To Cape Fear River
Atlantic	7071	Lockwood Folly
Atlantic	7072	Shalotte River
Atlantic	7073	Little River Inlet
Atlantic	7078	Inland Waterway, Sc
Atlantic	7079	Inland Waterway (Southport To Little River)
Atlantic	7080	Lat/Long 33 To 34 N, 77 To 78 W
Atlantic	7089	Lat/Long 33 To 34 N, 77 To 78 W, Federal Waters
Atlantic	7090	Lat/Long 33 To 34 N, 76 To 77 W
Atlantic	7100	Lat/Long 33 To 34 N, 75 To 76 W
Atlantic	7110	Lat/Long 33 To 34 N, 74 To 75 W
Atlantic	7120	South Carolina
Atlantic	7121	Edisto River
Atlantic	7122	St. Helena Sound
Atlantic	7123	Broad River
Atlantic	7124	Port Royal Sound
Atlantic	7125	Calibogue Sound
Atlantic	7126	Savannah River
Atlantic	7127	Isle of Hope River
Atlantic	7128	Tybee (Bull) River
Atlantic	7130	South Carolina
Atlantic	7132	Cooper River
Atlantic	7133	Folly Beach
Atlantic	7134	Stono River
Atlantic	7135	Bull Bay
Atlantic	7137	Schooner Creek
Atlantic	7138	Wando River
Atlantic	7139	South Carolina Federal Waters
Atlantic	7140	Lat/Long 32 To 33 N, 78 To 79 W
Atlantic	7149	South Carolina Federal Waters
Atlantic	7150	Lat/Long 32 To 33 N, 77 To 78 W
Atlantic	7160	Lat/Long 32 To 33 N, 76 To 77 W
Atlantic	7170	Waters off Georgia
Atlantic	7171	Wassaw Sound, West of 81 Long
Atlantic	7172	Ogeechee River
Atlantic	7173	Ossabaw Sound
Atlantic	7174	St. Catherines Sound
Atlantic	7175	Sapelo Sound
Atlantic	7176	Doboy Sound
Atlantic	7177	Atamaha River
Atlantic	7178	St. Simons Sound
Atlantic	7179	Georgia Federal Waters
Atlantic	7180	St. Andrews Sound To Tybee Island (Offshore)
Atlantic	7181	Wassaw Sound, East of 81 Long
Atlantic	7190	Lat/Long 31 To 32 N, 79 To 80 W
Atlantic	7200	Lat/Long 31 To 32 N, 78 To 79 W
Atlantic	7210	Lat/Long 31 To 32 N, 77 To 78 W
Atlantic	7220	Jacksonville, Offshore Waters
Atlantic	7221	St. Andrews Sound
Atlantic	7222	Cumberland Sound
Atlantic	7223	St. Marys River
Atlantic	7224	Nassau Sound
Atlantic	7225	St. Johns River and Trout River
Atlantic	7229	Jacksonville, Federal Waters

Region	Water code	Description of water body area
Atlantic	7230	Lat/Long 30 To 31 N, 80 To 81 W
Atlantic	7240	Lat/Long 30 To 31 N, 79 To 80 W
Atlantic	7250	Lat/Long 30 To 31 N, 78 To 79 W
Atlantic	7260	Lat/Long 30 To 31 N, 77 To 78 W
Atlantic	7270	St. Augustine To Daytona Beach
Atlantic	7271	Matazas River - Tolonado River (Intracoastal)
Atlantic	7272	Lower St John's & Lake George Effective 1978
Atlantic	7280	St. Augustine, Offshore Waters
Atlantic	7281	Other Inland Waters, Grid 728 - St. Augustine Area
Atlantic	7285	St. Johns River (Green Cove Springs - Lake George)
Atlantic	7288	Lake George
Atlantic	7289	St. Augustine, Federal Waters
Atlantic	7290	Lat/Long 29 To 30 N, 79 To 80 W
Atlantic	7300	Lat/Long 29 To 30 N, 78 To 79 W
Atlantic	7310	Lat/Long 29 To 30 N, 77 To 78 W
Atlantic	7320	Cape Canaveral, Offshore Waters
Atlantic	7321	Other Inland Waters, Grid 732 - Cape Canaveral Area
Atlantic	7322	Banana River
Atlantic	7323	Indian River
Atlantic	7325	St. Johns River (Below Lake George)
Atlantic	7329	Cape Canaveral, Federal Waters
Atlantic	7330	Lat/Long 28 To 29 N, 79 To 80 W
Atlantic	7340	Lat/Long 28 To 29 N, 78 To 79 W
Atlantic	7350	Lat/Long 28 To 29 N, 77 To 78 W
Atlantic	7360	Fort Pierce, Offshore Waters
Atlantic	7361	Other Inland Waters, Grid 736 - Fort Pierce Area
Atlantic	7369	Fort Pierce, Federal Waters
Atlantic	7370	Lat/Long 27 To 28 N, 79 To 80 W
Atlantic	7380	Lat/Long 27 To 28 N, 78 To 79 W
Atlantic	7390	Lat/Long 27 To 28 N, 77 To 78 W
Atlantic	7400	Lat/Long 26 To 27 N, 80 To 81 W (West Palm To Okeechobee)
Atlantic	7401	Lake Worth - Intracoastal
Atlantic	7410	West Palm Beach, Offshore Waters
Atlantic	7411	West Palm Beach, Inshore Water
Atlantic	7419	West Palm Beach, Federal Waters
Atlantic	7420	Lat/Long 26 To 27 N, 78 To 79 W
Atlantic	7430	Lat/Long 26 To 27 N, 77 To 78 W
Atlantic	7440	Miami, Offshore Waters
Atlantic	7441	Florida Bay
Atlantic	7442	Miami, Biscayne Bay/Card Sound/Barnes Sound
Atlantic	7443	Biscayne Bay (non-National Park)
Atlantic	7444	Biscayne Bay National Park (inside)
Atlantic	7445	Biscayne Bay National Park (outside)
Atlantic	7446	Card Sound
Atlantic	7447	Barnes Sound
Atlantic	7448	Biscayne Bay National Park (federal)
Atlantic	7449	Miami, Federal Waters
Atlantic	7450	Lat/Long 25 To 26 N, 79 To 80 W
Atlantic	7460	Lat/Long 25 To 26 N, 78 To 79 W
Atlantic	7470	Lat/Long 25 To 26 N, 77 To 78 W
Atlantic	7480	Marathon, South Of Us 1
Atlantic	7481	Florida Bay
Atlantic	7489	Marathon, Federal Waters
Atlantic	7490	Lat/Long 24 To 25 N, 79 To 80 W
Atlantic	7500	Lat/Long 24 To 25 N, 78 To 79 W

Region	Water code	Description of water body area
Atlantic	7510	Lat/Long 24 To 25 N, 77 To 78 W
Atlantic	7881	Inland Waterway Canal, North Carolina
Atlantic	7882	Unknown Inshore Area, Georgia
Atlantic	7910	Atlantic Waters, Area 791 - Key West
Atlantic	7919	Federal Waters, Area 791 - Key West
Atlantic	7920	Atlantic Waters, Area 792 - Tortugas
Atlantic	7929	Federal Waters, Area 792 - Tortugas
Atlantic	7990	Atlantic Ocean 0-3 miles, North of Cape Hatteras
Atlantic	7991	Atlantic Ocean 0-3 miles, South of Cape Hatteras
Atlantic	7992	Atlantic Ocean > 3 miles, North of Cape Hatteras
Atlantic	7993	Atlantic Ocean > 3 miles, South of Cape Hatteras
Atlantic	7994	Atlantic Ocean - Southeast US
Atlantic	7996	Atlantic Ocean - Florida
Atlantic	7997	Atlantic Ocean - South Carolina
Atlantic	7998	Atlantic Ocean - North Carolina
Atlantic	9999	Uncoded water body
Gulf	0	Uncoded water body
Gulf	10	Key West, South of US 1
Gulf	11	Key West, North Of Us 1
Gulf	18	Federal Waters, Grid 1 - Key West, North of US1
Gulf	19	Key West, Federal Waters
Gulf	20	Tortugas, All Waters
Gulf	28	Tortugas, Federal Waters - Gulf
Gulf	29	Tortugas, Federal Waters
Gulf	30	Everglades Area, offshore
Gulf	31	Everglades, Rookery Bay
Gulf	32	Everglades, Whitewater Bay
Gulf	39	Everglades, Federal Waters
Gulf	40	Fort Myers, Offshore Waters
Gulf	41	Charlotte Harbor
Gulf	42	Lemon Bay
Gulf	43	Pine Island Sound and San Carlos Bay
Gulf	44	Fort Myers, Estero Bay
Gulf	45	Fort Myers, Rookery Bay
Gulf	46	Other Inland Waters, Grid 4 - Fort Myers Area
Gulf	48	Lake Okeechobee
Gulf	49	Fort Myers, Federal Waters
Gulf	50	Tampa, Offshore Waters
Gulf	51	Tampa Bay
Gulf	52	Tampa, St. Josephs Sound
Gulf	53	Other Inland Waters, Grid 5 - Tampa Area
Gulf	54	Anna Maria Sound
Gulf	55	Other Inland Waters, Grid 5 - Tampa Area
Gulf	56	Clearwater Bay
Gulf	59	Tampa, Federal Waters
Gulf	60	Crystal River-Tarpon Springs, Offshore W
Gulf	61	St. Josephs Sound and Crystal River
Gulf	62	Other Inland Waters, Grid 6 - Crystal River-Tarpon Springs
Gulf	69	Crystal River - Tarpon Springs, Federal
Gulf	70	Apalachee Bay, offshore
Gulf	71	Apalachicola Bay
Gulf	72	St. George Sound
Gulf	73	Other Inland Waters, Grid 7 - Apalachee Bay Area
Gulf	74	Suwanee Sound
Gulf	75	Waccasassa Bay



Region	Water code	Description of water body area
Gulf	76	Withlacoochee Bay
Gulf	78	Ochlockonee Bay
Gulf	79	Apalachee Bay, Federal Waters
Gulf	80	Panama City, Offshore Waters
Gulf	81	St. Andrews Bay
Gulf	82	Saint Joseph Bay
Gulf	83	West Bay / North Bay
Gulf	89	Panama City, Federal Waters
Gulf	90	Destin, Offshore Waters
Gulf	91	Choctawhatchee Bay
Gulf	92	Escambia Bay
Gulf	93	East Bay
Gulf	94	Santa Rosa Sound
Gulf	99	Destin, Federal Waters
Gulf	100	Pensacola, Offshore Waters/Escambia Bay
Gulf	101	Pensacola Bay
Gulf	102	Mobile Bay
Gulf	103	Perdido Bay
Gulf	104	Bon Secour Bay
Gulf	105	Little Lagoon
Gulf	106	Upper Mobile Bay Effective Jan.83
Gulf	109	Pensacola, Federal Waters
Gulf	110	Mississippi And Alabama
Gulf	111	Mississippi Sound (East of Gulfport ship channel)
Gulf	112	Mississippi Sound, AL State Waters
Gulf	113	Mississippi Sound, MS State Waters
Gulf	114	Saint Louis Bay
Gulf	119	Alamba-Mississippi Federal Waters
Gulf	120	E. Louisiana
Gulf	121	Mississippi Sound (West of Gulfport ship channel)
Gulf	122	Lake Borgne
Gulf	124	Breton Sound
Gulf	125	Chandeleur Sound
Gulf	126	Garden Island Bay
Gulf	129	East Louisiana - Federal Waters
Gulf	130	Mississippi River Delta
Gulf	131	Ins.Wat.From Miss.Riv.To Bayou Lafourche
Gulf	132	East Bay (Between Southwest and South Passes)
Gulf	133	West Bay
Gulf	134	Bastian Bay and Adam Bay
Gulf	135	Lake Washington
Gulf	136	Barataria Bay
Gulf	138	Lake Salvador
Gulf	139	Louisiana Federal Waters
Gulf	140	S.W. Louisiana
Gulf	141	Ins.Wat.From Bayou Laf.To Atchaf.River
Gulf	142	Bayou Lafourche
Gulf	149	Louisiana, South Central, Federal Waters
Gulf	150	S. Louisiana
Gulf	151	Ins.Wat.From Atchafalaya Riv.To Togle Pt
Gulf	152	Four League Bay
Gulf	153	Vermilion & Cote Blanche Bays
Gulf	154	Lost Lake
Gulf	159	South Louisiana - Federal Waters
Gulf	160	SW Louisiana

Region	Water code	Description of water body area
Gulf	161	Ins.Wat.From Tigre Pt.To La Point Jan76
Gulf	162	White Lake
Gulf	163	Grand Lake (Cameron Parish)
Gulf	163	Grand Lake (In Cameron Parish, Louisiana)
Gulf	169	West Louisiana - Federal Waters
Gulf	170	Lake Sabine
Gulf	171	Calcasieu Lake
Gulf	172	Sabine Lake
Gulf	179	Louisiana-Texas Federal Waters
Gulf	180	Galveston
Gulf	181	Galveston Bay System           Eff.Jan75
Gulf	189	Grid 18 - Federal Waters
Gulf	190	Freeport - Port Aransas
Gulf	191	Matagorda Bay
Gulf	192	San Antonio Bay
Gulf	193	Aransas Bay
Gulf	198	Copano Bay
Gulf	199	Intercoastal Waterway
Gulf	200	Corpus Christi
Gulf	201	Corpus Christi Bay
Gulf	202	Upper Laguna Bay
Gulf	209	Corpus Christi - Federal Waters
Gulf	210	South Padre Island
Gulf	211	Lower Laguna Bay
Gulf	219	South Padre Island - Federal Waters
Gulf	1141	Lower Timbalier Bay
Gulf	1142	Lower Terrebonne Bay
Gulf	1143	Lake Pelto
Gulf	1144	Pelican Lake And Bay Round
Gulf	1145	Caillou Bay
Gulf	1181	Offats Bayou And Channel To South Tip Of North Deer Island
Gulf	1182	Jones Lake
Gulf	1183	Carancahua Reef To Noth Deer Island
Gulf	1184	Bay Harbor To Carancahua Reef
Gulf	1185	Mud Island To Bay Harbor
Gulf	1186	Chocolate Bay
Gulf	1187	Bastrop Bay
Gulf	1188	Christmas Bay
Gulf	1189	West Galveston Bay
Gulf	1191	East Matagorda Bay
Gulf	1192	From And Including The Colorado River West To A Line From Pa
Gulf	1193	From Southern Shoreline Of Carancahua Pass Outward To The No
Gulf	1194	From Sand Point Westward To Indian Point (Mouth Of Lavaca Ba
Gulf	1195	Lavaca Bay
Gulf	1199	Matagorda Bay - Unclassified Waters
Gulf	1202	Nueces Bay
Gulf	1204	Baffin Bay
Gulf	2121	Lake Pontchartrain
Gulf	2141	Upper Timbalier Bay
Gulf	2142	Upper Terrebonne Bay
Gulf	2143	Lower Marsh Area Above Lake Pelto
Gulf	2144	Passes From Caillou Bay To Caillou Lake
Gulf	2145	King Lake, Bay Voisin, And Passes To Caillou Bay
Gulf	2181	Cedar Point South To Smith Point: East To Lone Oak Bayou -
Gulf	2182	Umbrella Point South To Lone Oak Bayou: East To Black Point

Region	Water code	Description of water body area
Gulf	2183	All Waters East Of A Line From HI&P Discharge Canal South To
Gulf	2189	Trinity Bay
Gulf	2191	San Antonio Bay North Of Intracoastal Canal
Gulf	2192	San Antonio Bay South Of Intracoastal Canal
Gulf	2193	Espiritu Santo Bay
Gulf	2194	Mesquite Bay
Gulf	2199	San Antonio Bay - Unclassified Waters
Gulf	3121	Inshore Area Between Lake Borgne And Lake Pontchartrain, Fro
Gulf	3122	Inshore South Of Mississippi Sound And West Of Chandeleur So
Gulf	3141	Little Lake
Gulf	3142	Lake Raccourci
Gulf	3143	Lake Felicity
Gulf	3144	Lake Barre
Gulf	3145	Upper Marsh Area Above Lake Pelto
Gulf	3146	Caillou Lake
Gulf	3147	Lake Merchant
Gulf	3148	Bay Junop
Gulf	3181	Clear Lake Channel - South To Eagle Point: East To Houston
Gulf	3182	Bayport Channel - South To Clear Lake Channel: East To Mark
Gulf	3183	All Waters North Of A Line From Bayport Channel East To Lost
Gulf	3184	All Waters South Of A Line From Bayport Channel To Lost Reef
Gulf	3189	Upper Galveston Bay
Gulf	3191	Aransas Bay North Of Intracoastal Canal Includes St. Charles
Gulf	3192	Aransas Bay South Of Intracoastal Canal To And Including Lyd
Gulf	3193	Redfish Bay East Of Aransas Channel
Gulf	3199	Aransas Bay - Unclassified Waters
Gulf	4121	Inshore Area South Of Lake Borgne To Bayou La Loutre And Bay
Gulf	4122	Inshore Area West Of Breton Sound, Between Bayou La Loutre T
Gulf	4141	Lake Chien And Lake Tambour
Gulf	4142	Lake Boudreaux
Gulf	4143	Lake De Cade
Gulf	4144	Lost Lake (Changed To 015.4)
Gulf	4181	Smith Point Southward To Intracoastal Canal At Robins Marina
Gulf	4182	Waters East Of The Line From Sun Oil Channel To The South To
Gulf	4189	East Galveston Bay
Gulf	5000	Gulf of Mexico
Gulf	5122	Inside Waters Of Breton Sound From Black Bay To Quarantine B
Gulf	5181	All Waters Lying Between The Texas City Dike - South To Us 7
Gulf	5182	Dollar Point East To Houston Ship Channel Marker 39: South
Gulf	5183	Eagle Point East To The Southern Tip Of Redfish Island - Sou
Gulf	5184	Southeastern Tip Of Redfish Island East To Smith Point: Sou
Gulf	5185	Intracoastal Canal, East Of Pelican Island, South To Galves
Gulf	5189	Lower Galveston Bay
Gulf	6122	Inside Waters From Grand Bay To Garden Island Bay, And Insho
Gulf	8141	Pass Between Timbalier Island And East Timbalier Island
Gulf	9031	Turner River
Gulf	9041	Caloosahatchee River
Gulf	9042	Peace River
Gulf	9051	Hillsboro River
Gulf	9052	Manatee River

Table 5. NMFS state and code codes used in Table 2 for Florida East and Florida West.

County	State Code	State	County_Name
1	10	Florida East	BREVARD
3	10	Florida East	BROWARD
7	10	Florida East	DADE
8	10	Florida East	DUVAL
9	10	Florida East	FLAGLER COUNTY
15	10	Florida East	INDIAN RIVER
19	10	Florida East	MARTIN
21	10	Florida East	NASSAU
23	10	Florida East	PALM BEACH
27	10	Florida East	ST JOHNS
29	10	Florida East	ST LUCIE
33	10	Florida East	VOLUSIA
1	11	Florida West	BAY
3	11	Florida West	CHARLOTTE
5	11	Florida West	CITRUS
7	11	Florida West	COLLIER
9	11	Florida West	DIXIE
11	11	Florida West	ESCAMBIA
13	11	Florida West	FRANKLIN
15	11	Florida West	GULF
17	11	Florida West	HERNANDO
19	11	Florida West	HILLSBOROUGH
21	11	Florida West	JEFFERSON
23	11	Florida West	LEE
25	11	Florida West	LEVY
27	11	Florida West	MANATEE
29	11	Florida West	MONROE
31	11	Florida West	OKALOOSA
33	11	Florida West	PASCO
35	11	Florida West	PINELLAS
37	11	Florida West	SANTA ROSA
39	11	Florida West	SARASOTA
40	11	Florida West	LEON
41	11	Florida West	TAYLOR
43	11	Florida West	WAKULLA
45	11	Florida West	WALTON
30	12	Florida West	ALACHUA

**Literature Cited**

Holiday, M.C. & O'Bannon B.K. 1990. Historical Catch Statistics. Atlantic and Gulf Coast States 1979-1989. Current Fishery Statistics, No. 9010. Fisheries Statistics Division. NOAA, USDC 1990.

