

A Summary Of Fish Tagging In Texas Bays: 1975-1989

by
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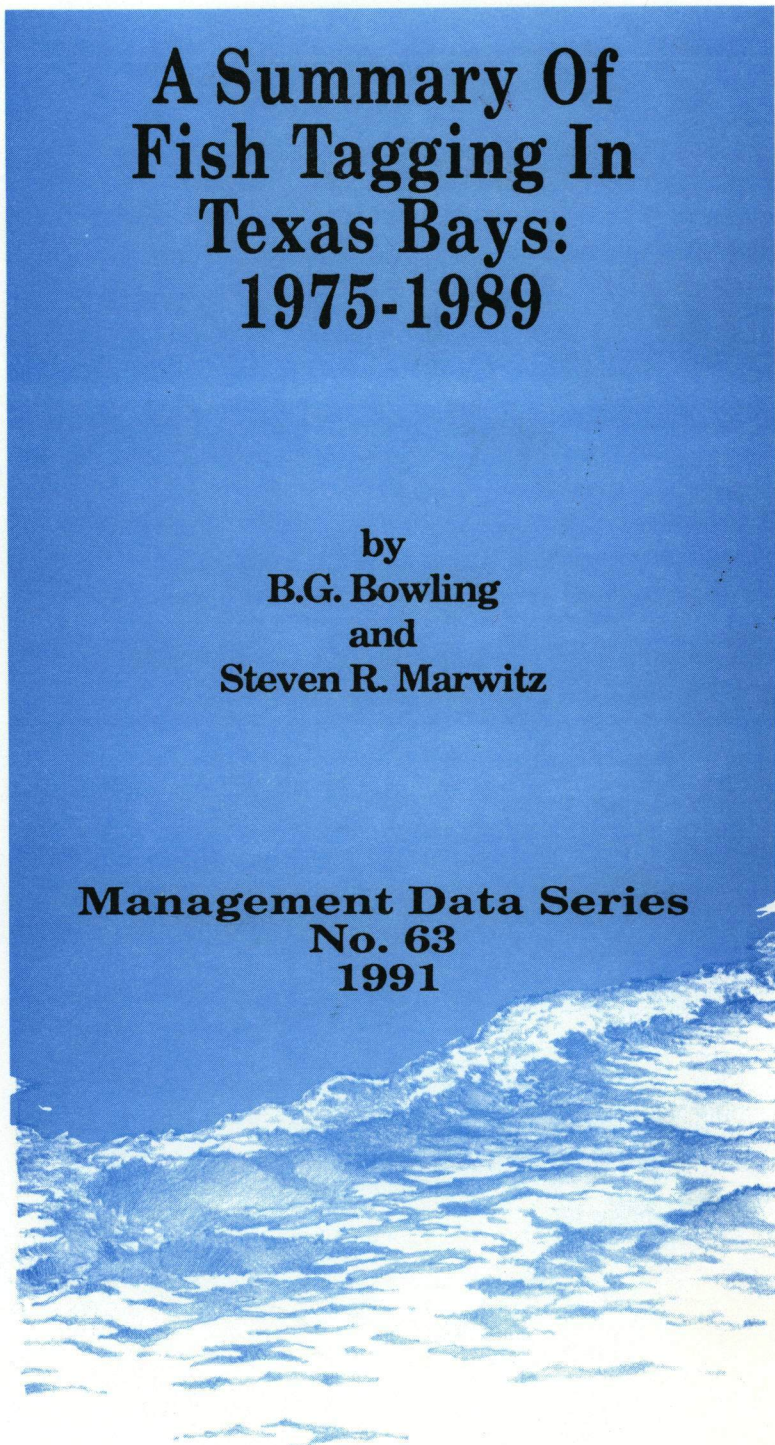
Management Data Series
No. 63
1991



TEXAS
PARKS & WILDLIFE
DEPARTMENT

FISHERIES & WILDLIFE
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ABSTRACT

During November 1975-December 1989, 80,599 fish (41 species) were tagged in Texas marine waters. Red drum (Sciaenops ocellatus), spotted seatrout (Cynoscion nebulosus) and black drum (Pogonias cromis) constituted 33%, 24% and 23% of the total tagged, respectively. Overall, 8% of all fishes tagged were returned; red drum had the highest return rate of 15%. Of 6,632 tagged fish returned, 72% were by sport fishermen, 21% were by commercial fishermen and 4% were by Texas Parks and Wildlife Department personnel. Of all tags returned, 83% came from the same bay system where the fishes were tagged. The National Marine Fisheries Service paid \$3,620 in rewards before December 1978. The Gulf Coast Conservation Association paid \$10,177 in rewards during December 1978-December 1989.

INTRODUCTION

Fish tagging on the Texas coast began in 1950 as a cooperative study between the Copano Research Foundation and the Texas Game, Fish and Oyster Commission (Simmons and Breuer 1982, Green 1986). These early tagging efforts were limited almost exclusively to Matagorda Bay southward. Important food and game fishes were marked with monel jaw tags, Peterson disc tags or floy tags and internal abdominal anchor tags with attached streamers. Nearly 74,000 fish were tagged and released between April 1950 and October 1975. Of these, 3,386 tags were returned (Green 1986). In November 1975, the Texas Parks and Wildlife Department (TPWD) expanded and intensified fish tagging efforts in seven bay systems (Figure 1) on the Texas coast (Marwitz 1986). Tagging efforts were initiated in East Matagorda Bay in October 1976. Sabine Lake was added on a routine basis in January 1986. Cedar Lakes, an extension of the Galveston Bay system, was added in August 1988.

The objectives of the ongoing tagging program are to obtain data needed to estimate movement, growth, mortality and population size of finfishes. Red drum (*Sciaenops ocellatus*), spotted seatrout (*Cynoscion nebulosus*), black drum (*Pogonias cromis*), sheepshead (*Archosargus probatocephalus*), southern flounder (*Paralichthys lethostigma*), and gulf flounder (*P. albigutta*) were primary species tagged; other species were tagged infrequently.

The present report summarizes fish tagging and tagged fish returns from November 1975 through December 1989. Differences in this report compared to previous reports are due to updating of the data base; the most recent report should be considered the most accurate.

MATERIALS AND METHODS

The majority of tagged fish were collected from Sabine Lake, Galveston, East Matagorda, Matagorda, San Antonio, Aransas, Corpus Christi, upper and lower Laguna Madre bay systems during November 1975 through December 1989. Fish for tagging were obtained during TPWD routine and special sampling with rods and reels, gill nets, trammel nets, bag seines, beach seines, shrimp trawls, trotlines (Matlock and Weaver 1979, Hegen et al. 1984, McEachron and Green 1985, Meador et al. 1988, Dailey et al. 1988), longlines and fish traps (TPWD unpublished data). Some stocked hatchery fish (Dailey 1988) and fish captured by electrofishing (TPWD unpublished data) were also tagged prior to being released into Texas bays. Uniquely numbered internal abdominal anchor tags with external streamers were surgically inserted into a fish's abdominal cavity. Only fish judged to be healthy were tagged using the technique described by Moffett (1961). Prior to release, date and location of capture and total length of each fish was recorded; weight was recorded until June 1981. Tags were made of semi-hard glossy blue, green or red-orange plastic (25.4 x 6.4 x 0.8 mm or 14.3 x 4.8 x 0.8 mm) with round corners. Bright yellow flexible plastic hollow tubing (about 50 mm long; O.D. = 2.1 mm; I.D. = 1.0 mm) extended from a single hole in the center of each tag. "Texas PWD, Rockport" or "Texas PWD Seabrook" was printed on each tag.

Posters were placed in commercial fish houses, fish camps and sporting goods stores and on fishing piers to publicize the tagging program. Information on the tagging program was presented on radio and television

stations in cities adjacent to each bay system as well as in newspapers throughout Texas and in the TPWD magazine. Each fisherman reporting a recaptured tagged fish was categorized as sport (did not sell fish), commercial (sold fish), or TPWD personnel (caught fish while performing official duties). If a tag was returned during a TPWD routine creel survey, it was categorized as sport/survey (turned in during sport fisheries survey), commercial/survey (turned in during commercial fisheries survey) or unknown (information not available). For every 100 tags released, there were two preselected \$25 rewards, five \$10 rewards, five \$5 rewards and 88 \$1 rewards. Rewards were paid by the National Marine Fisheries Service (NMFS) until November 1978 and by the Gulf Coast Conservation Association (GCCA) since December 1978. A reward was paid for each tag returned regardless of information given.

RESULTS

In Texas marine waters, 80,599 fish (41 species) were tagged from November 1975 through December 1989 (Tables 1 and 2). Red drum, spotted seatrout, and black drum constituted 33%, 24% and 23% of the total tagged, respectively. An average 5,685 fish were tagged annually excluding 1975 (an incomplete year); annual number tagged ranged from 3,111 in 1984 to 10,221 in 1987. Number of tagged fish released in each bay ranged from 112 in East Matagorda Bay in 1979 to 7,657 in Galveston Bay in 1987. In the Gulf of Mexico, 630 fish were tagged.

Of all fishes tagged, 40% were caught in gill nets, 26% by rod and reel and 20% in trammel nets (Table 3). Other gears were used infrequently to capture fish for tagging.

Of 6,632 tags returned, sport fishermen returned 72%, commercial fishermen returned 21% and TPWD personnel returned 4% (Table 4). From 1975 through 1978, both sport and commercial fishermen each returned about 50% of all tags. By the end of 1982, sport fishermen returned 93% of the tags compared to slightly more than 4% for commercial fishermen. By 1989, commercial fishermen returns were <2%. Mean number of tags returned/year, excluding 1975 and 1989, was 495, the most being returned in 1980 (Tables 4 and 5). Tags returned in 1975 were not included in mean number returned/year because only two months of data were collected; 1989 tags were not included because of insufficient time for tags to be returned.

Based on returned tags, 83% were returned from the same bay system in which the fish were tagged (Table 5). Intrabay individual recovery rates for red drum, spotted seatrout, black drum, sheepshead, southern flounder and gulf flounder ranged from 61-88%. Movement of tagged fish from the original bay in which they were tagged was either into other bay systems (7%), into the Texas Territorial Sea (TTS) (5%) or into waters outside the TTS (<1%); 5% of the returns could not be identified as to location of capture.

Overall, 8% of all fish tagged were returned. Red drum had highest return rate with 15% followed by spotted seatrout with 7%, southern flounder with 6%, black drum with 5%, gulf flounder with 4% and sheepshead with 3%.

Total monetary rewards paid for returned tags were \$13,797 (Table 6). There were 5,892 \$1 rewards, 301 \$5 rewards, 305 \$10 rewards and 134 \$25 rewards. Mean annual reward payment, excluding 1975 and 1989, was \$1,031; the greatest amount was paid in 1980 (\$1,853) and the least amount in 1988 (\$364). The National Marine Fisheries Service paid \$3,620 in rewards before December 1978. The Gulf Coast Conservation Association paid \$10,177 in rewards during December 1978-December 1989.

DISCUSSION

The 15% recovery rate for red drum exceeded the 12% reported by Matlock and Weaver (1979) and the 6-13% reported by Simmons and Breuer (1962); it was lower than the 20% reported by Marwitz (1986) and the 35-46% reported from Florida tagging programs conducted during 1962-1964 (Beaumariage 1964, Beaumariage and Wittich 1966). The 7% spotted seatrout recovery rate was similar to that reported by Marwitz (1986) and was lower than the 9% reported by Vogelbein and Overstreet (1987), 9% reported by McEachron and Matlock (1980) and the 16% reported in Florida by Beaumariage (1964). The 5% black drum recovery rate is higher than the 3% reported by Matlock and Weaver (1979) and the 0-4% rate reported by Simmons and Breuer (1962) but is lower than the 7% reported by Marwitz (1986). Recovery rates of 25-49% (Beaumariage 1964, Beaumariage and Wittich 1966) from the 1962-1964 Florida tagging program exceed the Texas rates. The 3% recovery rate for sheepshead was similar to that reported by Marwitz (1986) and Matlock and Weaver (1979). The 6% recovery rate for southern flounder was between the 8% reported by Marwitz (1986) and the 4% reported by Matlock and Weaver (1979). The 4% recovery rate for gulf flounder was similar to that reported by Marwitz (1986); it was lower than the 9% reported by Matlock and Weaver (1979). Recovery rates for all species were similar to rates reported by Marwitz (1989).

The high Florida recovery rates may have been influenced by extensive publicity and payment of high monetary rewards (Matlock and Weaver 1979). When rewards as high as \$10,000 were offered to Florida anglers, they returned over 50% of the tagged red drum released (Beaumariage 1969). Excessive rewards may result in biased estimates of exploitation rates or population sizes if anglers actively seek tagged fish or have privileged knowledge of when and where fish were released (Matlock 1981).

Rawston (1971) and Matlock (1981) reported monetary rewards increase reporting rates. Rewards paid by the NMFS and GCCA probably enhanced recovery rates. Visibility of tags is important to fishermen reporting recaptured tagged fish (Green and Matlock 1983). They found angler reporting rates in Texas were 35% for red drum, 33% for spotted seatrout, 17% for black drum, 15% for sheepshead and 31% for flounder. Interviews with anglers that returned tags revealed 50% knew a reward would be paid (Matlock 1981), but 78% of the anglers who had not returned "surreptitiously implanted" tags reported they did not find tags. These results suggest recovery rates could be increased by offering higher rewards, increasing public awareness and by making tags more visible (Matlock 1981).

Few tags are returned by commercial fishermen. Beginning in 1978, the recovery rate from commercial fishermen began declining until it reached a low in 1983. The decline may be attributed to commercial fishermen opposition to state laws and Texas Parks and Wildlife Commission regulations restricting commercial fishing activities. Statutory and regulatory changes that may have contributed to the decline in recovery rates were the prohibition of the use of nets and trotlines on weekends during 1977, the requirement of reporting individual commercial finfish fishermen harvest during 1978, the establishment of commercial red drum harvest quotas (Anonymous 1979, 1981), the prohibition of sale of native red drum and spotted seatrout (Anonymous 1983) and the prohibition of netting on Texas coastal waters (Anonymous 1989). Commercial fishermen have stated at public hearings and during TPWD commercial surveys that they would no longer return TPWD fish tags as a protest to the regulations (Marwitz 1986).

Most recaptured fish are caught in the bay in which they were tagged. This corresponds to previous findings (Matlock and Weaver 1979, Osburn et al 1982, Osburn and Matlock 1984, Marwitz 1986, 1989). This is important for management. Bay specific size and bag limits may be appropriate for selected species. Additionally, the stocking of genetically different populations of the same species can be done discretely to protect the integrity of previously existing gene pools. For fishery managers, it can be reassuring to know that a genetically different stocked fish will generally remain in a defined stocking area in order to determine stocking effects.

Tagging results presented in this report can be used to determine growth, mortality and population size, as well as to further define species movement and to improve the efficiency of the TPWD tagging program. Annual updates are needed to assess changes in finfish populations in Texas.

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Table 1. List of common and scientific names of species tagged in Texas bays during November 1975-December 1989^a.

<u>Common name</u>	<u>Scientific name</u>
Alligator gar	<u>Lepisosteus spatula</u>
Atlantic croaker	<u>Micropogonias undulatus</u>
Atlantic spadefish	<u>Chaetodipterus faber</u>
Black drum	<u>Pogonias cromis</u>
Bluefish	<u>Pomatomus saltatrix</u>
Bonnethead	<u>Sphyrna tiburo</u>
Common snook	<u>Centropomus undecimalis</u>
Cravelle jack	<u>Caranx hippos</u>
Crested cusk-eel	<u>Ophidion welshi</u>
Fat snook	<u>Centropomus parallelus</u>
Flathead catfish	<u>Pylodictus olivaris</u>
Florida pompano	<u>Trachinotus carolinus</u>
Fringed flounder	<u>Etropus crossotus</u>
Hardhead catfish	<u>Arius felis</u>
Gafftopsail catfish	<u>Bagre marinus</u>
Gizzard shad	<u>Dorosoma cepedianum</u>
Greater amberjack	<u>Seriola dumerili</u>
Gulf flounder	<u>Paralichthys albigutta</u>
Gulf kingfish	<u>Menticirrhus littoralis</u>
Gulf menhaden	<u>Brevoortia patronus</u>
Ladyfish	<u>Elops saurus</u>
Lane snapper	<u>Lutjanus synagris</u>
Largemouth bass	<u>Micropterus salmoides</u>
Ocellated flounder	<u>Ancylopsetta quadrocellata</u>
Palometa	<u>Trachinotus goodei</u>
Pigfish	<u>Orthopristis chrysoptera</u>
Pinfish	<u>Lagodon rhomboides</u>
Red drum	<u>Sciaenops ocellatus</u>
Red snapper	<u>Lutjanus campechanus</u>
Sand seatrout	<u>Cynoscion arenarius</u>
Sheepshead	<u>Archosargus probatocephalus</u>
Southern flounder	<u>Paralichthys lethostigma</u>
Southern kingfish	<u>Menticirrhus americanus</u>
Spot	<u>Leiostomus xanthurus</u>
Spotted seatrout	<u>Cynoscion nebulosus</u>
Striped bass	<u>Morone saxatilis</u>
Striped mullet	<u>Mugil cephalus</u>
Tarpon	<u>Megalops atlanticus</u>
Tripletail	<u>Lobotes surinamensis</u>
White bass	<u>Morone chrysops</u>
Yellow bass	<u>Morone mississippiensis</u>

^aCommon and scientific names provided by Robins et al. (1980).

Table 2. Number of fishes tagged with internal abdominal anchor tags for each calendar year during November 1975-December 1989. Only years where fish were tagged are listed.

Bay/area	Year	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
Sabine Lake	1975	5	0	2	0	0	0	0	7
	1976	5	0	8	0	0	0	0	13
	1986	105	17	150	0	36	0	4 ^a	312
	1987	92	5	90	0	36	0	1 ^b	208
	1988	77	4	51	6	4	0	3 ^c	145
	1989	79	1	50	3	5	0	0	138
	1975	80	0	47	8	2	0	0	137
	1976	246	572	332	27	47	0	60 ^d	1,284
	1977	152	65	192	13	41	0	0	463
	1978	287	132	282	68	58	1	0	828
1979	260	227	173	37	33	1	0	731	
1980	241	803	11	17	19	0	0	1,091	
1981	126	762	109	25	14	0	0	1,036	
1982	210	869	43	11	5	0	0	1,138	
1983	1,513	697	94	11	3	0	8 ^a	2,326	
1984	860	301	141	34	36	0	5 ^a	1,377	
1985	1,423	301	218	20	47	0	40 ^e	2,049	
1986	678	59	136	1	6	0	93 ^f	793	
1987	252	51	199	0	37	0	7,118 ^g	7,657	
1988	206	53	217	2	37	0	444 ^h	959	
1989	139	54	216	23	20	0	292 ⁱ	744	
Cedar Lakes	1988	0	0	0	0	0	0	408J	408
East Matagorda	1976	73	0	216	13	42	0	0	344
	1977	69	0	143	78	65	0	0	355
	1978	79	0	96	56	22	0	0	253
	1979	53	0	45	4	10	0	0	112
	1980	102	0	47	30	2	0	0	181
	1981	37	327	27	13	4	0	0	408
	1982	83	453	106	27	11	0	0	680
	1983	102	605	110	95	8	0	0	920
	1984	108	35	63	33	17	0	0	256
	1985	42	0	76	25	3	0	0	146
	1986	792	0	44	33	38	0	0	907
	1987	487	0	65	2	14	0	0	568
	1988	91	1	80	12	17	0	0	205
	1989	112	2	147	28	19	0	7 ^k	315
	Matagorda	1975	74	0	29	0	11	0	0
1976		462	1	323	36	58	2	3 ^l	885
1977		539	0	480	81	28	1	1 ^m	1,130
1978		522	217	267	79	27	0	0	1,112
1979		771	0	155	60	18	5	0	1,009
1980		285	0	63	10	8	0	0	366
1981		121	405	22	8	3	0	0	559
1982		72	633	67	10	4	0	0	786
1983		166	626	100	30	16	0	1 ⁿ	939
1984		46	305	60	33	3	0	1 ⁿ	451
1985	63	0	107	15	12	0	1 ^o	198	

Table 2. (Cont'd.)

Bay/area	Year	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species	
San Antonio	1986	200	0	133	35	24	0	0	392	
	1987	139	0	93	10	19	0	0	261	
	1988	118	1	98	14	12	0	0	243	
	1989	61	1	141	10	22	0	0	235	
	1975	97	0	77	0	6	0	0	180	
	1976	532	0	185	95	40	17	3P	872	
	1977	180	0	105	70	21	11	0	387	
	1978	261	66	101	40	40	0	1q	509	
	1979	676	0	154	179	73	3	5q	1,090	
	1980	278	0	179	80	14	1	1r	553	
	1981	143	343	132	128	19	4	0	769	
	1982	50	637	47	2	4	0	0	740	
	1983	60	616	51	3	26	0	0	756	
	1984	83	23	28	3	28	1	0	166	
	1985	62	0	64	11	45	0	0	182	
1986	169	0	65	5	48	0	1s	288		
1987	212	42	127	8	44	0	1t	434		
1988	156	6	112	14	7	4	0	299		
1989	153	35	126	25	11	1	1u	352		
Aransas	1975	36	0	61	0	3	0	0	100	
	1976	344	23	415	240	38	7	28v	1,095	
	1977	147	0	135	38	28	2	0	350	
	1978	409	73	238	110	33	8	0	871	
	1979	443	164	226	157	46	6	1w	1,043	
	1980	1,194	219	188	98	51	0	4a	1,754	
	1981	691	703	149	104	44	4	0	1,695	
	1982	296	760	297	70	50	2	0	1,475	
	1983	131	686	209	49	30	0	0	1,105	
	1984	63	34	74	24	36	2	0	233	
	1985	122	9	61	12	31	0	280w	515	
	1986	127	2	87	4	14	1	0	235	
	1987	79	4	79	4	3	0	1x	170	
	1988	90	11	97	3	10	2	0	213	
	1989	91	26	260	17	31	0	1y	426	
	Corpus Christi	1975	60	0	54	28	39	8	2a	191
		1976	155	18	135	131	46	36	75z	596
		1977	225	1	77	55	29	7	4aa	398
		1978	268	10	108	127	43	17	3bb	576
1979		337	106	113	98	53	13	283cc	1,003	
1980		307	160	49	29	26	0	2dd	573	
1981		190	445	106	7	12	0	0	760	
1982		96	673	64	3	3	0	0	839	
1983		46	632	113	0	8	0	0	799	
1984		80	36	113	11	24	3	0	267	
1985		142	18	39	27	29	7	0	262	
1986		124	49	115	8	41	8	0	345	
1987		113	70	85	7	19	10	0	304	
1988		119	20	189	10	17	9	0	364	
1989		122	33	284	48	17	0	0	504	

Table 2. (Cont'd.)

Bay/area	Year	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species	
Upper Laguna Madre	1975	31	0	129	0	6	0	0	166	
	1976	121	8	248	7	3	6	42 ^{ee}	435	
	1977	65	3	102	5	0	0	0	175	
	1978	94	27	1,463	0	15	0	0	1,599	
	1979	113	49	96	0	2	0	0	260	
	1980	203	44	124	22	8	0	0	401	
	1981	92	353	142	0	7	0	0	594	
	1982	66	624	78	0	17	0	0	785	
	1983	40	602	41	0	12	0	0	695	
	1984	86	0	85	0	2	0	0	173	
	1985	201	9	241	0	24	0	8 ^a	483	
	1986	51	4	208	1	21	0	0	285	
	1987	77	4	208	0	3	0	0	292	
	1988	73	1	285	3	5	0	2 ^{ff}	369	
	1989	28	14	544	7	3	2	1 ^s	599	
	Lower Laguna Madre	1975	32	0	72	0	13	0	0	117
		1976	198	16	209	20	19	1	182 ^{gg}	645
		1977	139	2	285	10	11	0	0	447
		1978	421	174	481	242	31	4	2 ^m	1,355
1979		183	57	140	75	21	4	21 ^a	501	
1980		218	53	90	8	6	3	0	378	
1981		298	467	54	10	4	1	2 ^a	836	
1982		185	637	38	0	3	0	0	863	
1983		96	612	7	0	5	0	3 ^{hh}	723	
1984		160	21	7	0	0	0	0	188	
1985		349	11	153	0	1	0	1 ^u	515	
1986		133	0	163	1	23	0	1 ^u	321	
1987		82	3	168	2	20	0	5 ^{ll}	280	
1988		109	2	145	1	6	1	0	264	
1989		116	6	106	0	1	0	0	229	
Gulf of Mexico off Sabine Lake		1987	0	2	2	0	1	0	2 ^{jj}	7
		1988	3	41	8	1	2	0	47 ^{kk}	102
		1989	2	18	25	0	4	0	5 ^{ll}	54
Gulf of Mexico off Galveston Bay		1976	9	0	0	0	0	0	0	9
	1977	8	0	0	0	0	0	0	8	
	1988	2	59	6	1	7	0	28 ^{mm}	103	
	1989	4	50	6	0	4	0	0	64	
Gulf of Mexico off Matagorda-San Antonio-Aransas Bays	1981	7	0	0	0	0	0	0	7	
	1982	3	0	0	0	0	0	0	3	
	1987	4	11	8	0	0	0	3 ⁿⁿ	26	
	1988	7	50	9	1	0	0	7 ^{oo}	74	
	1989	3	26	15	1	0	0	3 ^{pp}	48	
Gulf of Mexico off Corpus Christi -Upper Laguna Madre Bays	1987	0	5	3	0	2	0	0	10	
	1988	1	8	5	1	0	0	9 ⁿⁿ	24	
	1989	6	16	35	1	2	0	15 ^{qq}	75	

Table 2. (Cont'd.)

By/area	Year	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species	
Gulf of Mexico off Upper and Lower Laguna Madre Bays	1988	0	6	1	1	0	0	3 ^{rr}	11	
	1989	2	1	2	0	0	0	0	5	
Coastwide	1975	415	0	471	36	80	8	2	1,012	
	1976	2,145	638	2,071	569	293	69	393	6,178	
	1977	1,524	71	1,519	350	223	21	5	3,713	
	1978	2,341	699	3,036	722	269	30	6	7,103	
	1979	2,836	603	1,102	610	256	32	310	5,749	
	1980	2,828	1,279	751	294	134	4	7	5,297	
	1981	1,705	3,805	741	295	107	9	2	6,664	
	1982	1,061	5,286	740	123	97	2	0	7,309	
	1983	2,154	5,076	725	188	108	0	12	8,263	
	1984	1,486	755	571	138	146	6	9	3,111	
	1985	2,404	348	959	110	192	7	330	4,350	
	1986	2,379	131	1,101	88	251	9	99	4,058	
	1987	1,537	200	1,127	33	183	10	7,131	10,221	
	1988	1,052	263	1,303	70	124	16	567	3,783	
	1989	918	283	1,957	163	139	3	325	3,788	
	Grand Total		26,785	19,437	18,174	3,789	2,602	226	9,178	80,599

^sAtlantic croaker.

^bYellow bass.

^cAtlantic croaker (1) and gafftopsail catfish (2).

^dAtlantic croaker (46), gizzard shad (2), spot (1), hardhead catfish (6), striped mullet (4) and tripletail (1).

^eTarpon (1) and striped bass (39).

^fTarpon (2) and striped bass (91).

^gStriped bass (7,108) and bluefish (10).

^hStriped bass (436), Atlantic croaker (7) and gizzard shad (1).

ⁱStriped bass (288), gafftopsail catfish (3) and sand seatrout (1).

^jStriped bass

^kHardhead catfish.

^lHardhead catfish (1) and southern kingfish (2).

^mCrevalle jack.

ⁿStriped bass.

^oCrested cusk-eel.

^pFlorida pompano (1) and Atlantic croaker (2).

^qWhite bass.

^rLargemouth bass.

^sFlorida pompano.

^tFlathead catfish.

^uGafftopsail catfish.

^vGizzard shad (1), Gulf menhaden (3), spot (9), hardhead catfish (3), striped mullet (10) and alligator gar (2).

^wCommon snook.

^xTarpon.

^yAlligator gar.

^zAtlantic croaker (52), spot (7), hardhead catfish (8) and striped mullet (8).

^{aa}Atlantic croaker (1), bonnethead (2) and ocellated flounder (1).

^{bb}Ocellated flounder.

Table 2. (Cont'd.)

vv Atlantic croaker (9), gizzard shad (1), crevalle jack (2), lane snapper (2), southern kingfish (1), red snapper (265) and greater amberjack (3).
 dd Atlantic croaker (1) and sand seatrout (1).
 ee Atlantic croaker (28), hardhead catfish (8), striped mullet (4) and pinfish (2).
 ff Atlantic croaker (1) and Atlantic spadefish (1).
 gg Atlantic croaker (57), spot (40), hardhead catfish (25), striped mullet (54), pinfish (3) and pigfish (3).
 hh Ladyfish (2) and common snook (1).
 ii Common snook (4) and fat snook (1).
 jj Atlantic croaker (1) and sand seatrout (1).
 kk Atlantic croaker (25), spot (16), bluefish (1), Florida pompano (3) and sand seatrout (2).
 ll Atlantic croaker (1) and striped mullet (4).
 mm Atlantic croaker (10), spot (11) and sand seatrout (7).
 nn Gulf kingfish.
 oo Gulf kingfish (6) and southern kingfish (1).
 pp Gulf kingfish (2) and southern kingfish (1).
 qq Gulf kingfish (8), Florida pompano (2), palometa (4) and spot (1).
 rr Fat snook (1), spot (1) and Florida pompano (1).

Table 3. (Cont'd.)

Bay/area	Year	Gear ^a	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species		
Cedar Lakes	1988	GN	159	53	217	2	37	0	8	476		
		RR	47	0	0	0	0	0	1	48		
	1989	EF	0	0	0	0	0	0	435	435		
		GN	139	54	216	23	20	0	0	5	457	
	1988	SK	0	0	0	0	0	0	115	115		
		EF	0	0	0	0	0	0	172	172		
	East Matagorda	1988	SK	0	0	0	0	0	0	408	408	
			GN	23	0	19	5	26	0	0	73	
		1976	TN	50	0	197	8	16	0	0	0	271
			GN	50	0	95	74	29	0	0	0	248
1977		TN	19	0	48	4	36	0	0	0	107	
		GN	79	0	96	56	22	0	0	0	253	
1978		GN	53	0	45	4	10	0	0	0	112	
		GN	102	0	47	30	2	0	0	0	181	
1981		GN	35	0	27	13	4	0	0	0	79	
		RR	2	327	0	0	0	0	0	0	329	
1982	GN	83	2	106	27	11	0	0	0	229		
	RR	0	451	0	0	0	0	0	0	451		
1983	GN	68	0	106	94	8	0	0	0	276		
	RR	34	605	4	1	0	0	0	0	644		
1984	GN	101	0	63	33	17	0	0	0	214		
	RR	7	35	0	0	0	0	0	0	42		
1985	GN	42	0	76	25	3	0	0	0	146		
	GN	109	0	44	33	34	0	0	0	220		
1986	GN	109	0	44	33	34	0	0	0	220		
	BS	0	0	0	0	4	0	0	0	4		
1987	SK	683	0	0	0	0	0	0	0	683		
	GN	74	0	65	2	13	0	0	0	154		
1988	BS	0	0	0	0	1	0	0	0	1		
	SK	413	0	0	0	0	0	0	0	413		
1989	GN	91	1	80	12	17	0	0	4	205		
	GN	112	2	147	28	19	0	0	7	315		
Matagorda	1975	GN	74	0	29	0	11	0	0	114		
		GN	247	1	239	23	10	0	1	521		
	1976	TN	215	0	84	13	48	2	2	364		
		GN	149	0	215	29	9	0	1	403		
	1977	TN	390	0	265	52	19	1	0	727		
		GN	65	0	31	6	7	0	0	109		
	1978	TN	457	0	236	73	20	0	0	786		
		RR	0	217	0	0	0	0	0	217		
	1979	GN	265	0	65	4	0	0	0	334		
		TN	506	0	90	56	18	5	0	675		
1980	GN	42	0	1	0	0	0	0	43			
	TN	243	0	62	10	8	0	0	323			
1981	UK	1	0	0	0	0	0	0	1			
	GN	48	0	4	0	1	0	0	53			
1982	TN	66	0	14	7	2	0	0	89			
	RR	6	405	4	1	0	0	0	416			
1982	GN	71	0	67	10	4	0	0	152			
	RR	1	633	0	0	0	0	0	634			

Table 3. (Cont'd.)

Bay/area	Year	Gear ^a	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other ^b species	All species
	1983	GN	166	0	100	30	16	0	1	313
		RR	0	626	0	0	0	0	0	626
	1984	GN	43	0	60	33	3	0	0	139
		RR	3	305	0	0	0	0	0	308
		SK	0	0	0	0	0	0	4	4
	1985	GN	63	0	107	15	12	0	1	198
	1986	GN	200	0	133	35	22	0	0	390
		ST	0	0	0	0	1	0	0	1
		BS	0	0	0	0	1	0	0	1
	1987	GN	139	0	93	10	18	0	0	260
		BS	0	0	0	0	1	0	0	1
	1988	GN	97	1	98	14	12	0	0	222
		BS	1	0	0	0	0	0	0	1
		SK	20	0	0	0	0	0	0	20
	1989	GN	61	1	140	10	20	0	0	232
		BS	0	0	1	0	2	0	0	3
	1975	GN	97	0	77	0	6	0	0	180
	1976	GN	233	0	138	44	29	9	2	455
		TN	299	0	47	51	11	8	1	417
	1977	GN	73	0	48	5	3	2	0	131
		TN	107	0	57	65	18	9	0	256
	1978	GN	52	0	16	6	8	0	1	83
		TN	209	0	85	34	32	0	0	360
		RR	0	66	0	0	0	0	0	66
	1979	UK	1	0	0	0	0	0	0	1
		GN	285	0	106	89	50	2	0	532
		TN	390	0	48	90	23	1	5	557
	1980	GN	139	0	118	54	9	1	1	322
		TN	139	0	61	26	5	0	0	231
	1981	GN	85	0	110	123	17	3	0	338
		TN	56	0	19	5	2	1	0	83
		RR	2	343	4	0	0	0	0	348
	1982	GN	50	0	47	2	2	0	0	101
		RR	0	637	0	0	2	0	0	639
	1983	GN	60	0	51	3	26	0	0	140
		RR	0	616	0	0	0	0	0	616
	1984	GN	56	0	25	3	23	1	0	108
		DS	22	8	3	0	1	0	0	34
		RR	5	15	0	0	4	0	0	24
	1985	GN	62	0	64	11	45	0	0	182
	1986	GN	169	0	65	5	47	0	1	287
		ST	0	0	0	0	1	0	0	1
	1987	GN	212	42	127	8	44	0	1	434
	1988	GN	156	6	112	14	6	4	0	298
		BS	0	0	0	0	1	0	0	1
	1989	GN	153	35	125	25	11	1	1	351
		BS	0	0	1	0	0	0	0	1
	1975	GN	36	0	61	0	3	0	0	100
	1976	GN	178	1	299	220	24	7	5	734
		TN	166	22	116	20	14	0	23	361

Aransas

Table 3. (Cont'd.)

Bay/area	Year	Gear ^a	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other ^b species	All species
	1977	GN	53	0	103	10	10	2	0	178
		TN	94	0	32	28	18	0	0	172
	1978	GN	51	0	40	25	7	0	0	123
		TN	355	33	185	85	26	8	0	692
		BS	0	0	12	0	0	0	0	12
		TL	3	0	1	0	0	0	0	4
		RR	0	40	0	0	0	0	0	40
	1979	GN	132	3	87	86	26	4	1	339
		TN	306	68	138	70	20	2	0	604
		RR	5	93	1	1	0	0	0	100
	1980	UK	3	0	3	1	1	0	0	7
		GN	167	16	90	47	21	0	2	343
		TN	1,022	190	95	49	28	0	2	1,386
		BS	2	0	0	2	1	0	0	5
		RR	0	13	0	0	0	0	0	13
	1981	GN	226	23	101	60	24	2	0	436
		TN	461	216	47	38	20	1	0	783
		BS	3	0	1	3	0	0	0	7
		RR	1	464	0	3	0	1	0	469
	1982	GN	244	107	282	62	43	2	0	740
		TN	10	27	0	2	2	0	0	39
		BS	1	0	1	1	2	0	0	5
		RR	41	626	14	7	3	0	0	691
	1983	GN	121	43	207	43	27	0	0	441
		TN	6	0	0	0	0	0	0	6
		BS	1	0	0	1	0	0	0	2
		RR	3	643	2	5	3	0	0	656
	1984	GN	62	15	74	22	36	2	0	211
		BS	0	0	0	1	0	0	0	1
		RR	1	19	0	1	0	0	0	21
	1985	GN	122	9	61	12	28	0	0	232
		BS	0	0	0	0	3	0	0	3
		SK	0	0	0	0	0	0	280	280
	1986	GN	127	2	87	4	14	1	0	235
	1987	GN	79	4	79	4	3	0	1	170
	1988	GN	90	10	96	3	10	2	0	211
		BS	0	0	1	0	0	0	0	1
		UK	0	1	0	0	0	0	0	1
	1989	GN	89	26	260	17	31	0	1	424
		BS	2	0	0	0	0	0	0	2
Corpus Christi	1975	GN	60	0	54	28	39	8	2	191
	1976	GN	117	1	99	112	41	25	8	403
		TN	38	17	36	19	5	11	67	193
	1977	GN	71	1	51	34	16	1	2	176
		TN	154	0	26	21	13	6	2	222
	1978	GN	42	0	20	32	16	1	0	111
		TN	226	6	88	95	27	16	3	461
		RR	0	4	0	0	0	0	0	4

Table 3. (Cont'd.)

Bay/area	Year	Gear ^a	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other ^b species	All species
Upper Laguna Madre	1979	GN	45	1	45	42	17	2	3	155
		TN	289	89	68	56	36	11	10	559
	1980	BS	2	0	0	0	0	0	0	2
		RR	1	16	0	0	0	0	0	17
	1981	FT	0	0	0	0	0	0	0	270
		GN	79	5	38	19	10	0	0	151
	1982	TN	222	147	11	10	16	0	0	406
		RR	6	8	0	0	0	0	0	16
	1983	GN	87	26	97	7	8	0	0	218
		TN	100	128	9	7	3	0	0	247
	1984	RR	3	291	0	0	1	0	0	295
		GN	84	10	64	1	3	0	0	162
	1985	RR	12	663	0	2	0	0	0	677
		GN	35	10	113	0	8	0	0	166
	1986	RR	11	622	0	0	0	0	0	633
		GN	78	5	113	11	24	3	0	234
	1987	RR	2	31	0	0	0	0	0	33
		GN	142	18	39	27	29	7	0	262
	1988	GN	124	49	115	8	41	8	0	345
TN		113	70	85	7	19	10	0	304	
1989	GN	119	20	189	10	17	9	0	364	
	GN	122	33	284	48	17	0	0	504	
1975	GN	31	0	129	0	6	0	0	166	
	GN	85	8	247	6	3	0	1	373	
1976	TN	36	3	1	1	0	0	5	62	
	GN	38	3	102	5	0	0	0	148	
1977	TN	27	0	0	0	0	0	0	27	
	GN	10	0	1,348	0	3	0	0	1,361	
1978	TN	84	27	115	0	12	0	0	238	
	GN	2	0	49	0	0	0	0	51	
1979	TN	111	49	47	0	2	0	0	209	
	GN	32	2	60	12	3	0	0	109	
1980	TN	171	38	64	10	5	0	0	288	
	RR	0	4	0	0	0	0	0	4	
1981	GN	63	12	129	0	6	0	0	210	
	TN	28	27	13	0	1	0	0	69	
1982	RR	1	314	0	0	0	0	0	315	
	GN	66	0	78	0	17	0	0	161	
1983	RR	0	624	0	0	0	0	0	624	
	GN	40	0	41	0	12	0	0	93	
1984	RR	0	602	0	0	0	0	0	602	
	GN	81	0	85	0	2	0	0	168	
1985	TL	5	0	0	0	0	0	0	5	
	GN	58	0	193	0	24	0	1	276	
1986	TL	143	9	48	0	0	0	7	207	
	GN	47	4	207	1	21	0	0	280	
1987	TL	4	0	1	0	0	0	0	5	
	GN	77	4	208	0	3	0	0	292	
1988	GN	73	1	285	3	5	0	2	369	
	GN	28	14	544	7	3	0	1	599	

Table 3. (Cont'd.)

Bay/area	Year	Gear ^a	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other ^b species	All species
Gulf of Mexico off Corpus Christi -Upper Laguna Madre Bays	1989	DS	2	26	15	1	0	0	3	47
		BS	1	0	0	0	0	0	0	1
Gulf of Mexico off Upper and Lower Laguna Madre Bays	1987	DS	0	5	3	0	2	0	0	10
	1988	DS	1	8	5	1	0	0	9	24
	1989	DS	5	16	35	1	2	0	15	74
		LI	1	0	0	0	0	0	0	1
		DS	0	6	1	1	0	0	3	11
		DS	2	1	2	0	0	0	0	5
Coastwide	1975	GN	415	0	471	36	80	8	2	1,012
	1976	GN	1,078	6	1,301	437	147	43	109	3,121
		TN	1,057	63	770	132	145	26	284	2,477
		RR	10	569	0	0	1	0	0	580
	1977	GN	594	4	975	174	82	5	3	1,837
		TN	922	2	544	176	141	16	2	1,803
		RR	8	65	0	0	0	0	0	73
	1978	GN	495	6	1,870	199	80	3	1	2,654
		TN	1,777	209	1,000	459	178	27	5	3,655
		RR	0	467	0	0	3	0	0	470
		BS	1	0	12	2	0	0	0	15
		TL	68	17	154	62	8	0	0	309
1979	GN	939	9	508	269	121	9	4	1,859	
	TN	1,888	245	593	340	135	23	36	3,260	
	RR	6	349	1	1	0	0	0	357	
	BS	2	0	0	0	0	0	0	2	
	FT	0	0	0	0	0	0	0	270	
	UK	1	0	0	0	0	0	0	0	
1980	GN	605	23	418	176	50	2	3	1,277	
	TN	2,201	421	330	116	81	2	2	3,153	
	RR	17	835	0	0	1	0	2	855	
	BS	2	0	0	2	1	0	0	5	
	UK	3	0	3	0	1	0	0	7	
	GN	750	64	622	206	69	6	2	1,719	
1981	TN	915	536	111	82	37	2	0	1,683	
	RR	35	3,205	7	4	1	1	0	3,253	
	BS	4	0	1	3	0	0	0	8	
	UK	1	0	0	0	0	0	0	1	
	GN	918	119	724	113	85	2	0	1,961	
	TN	10	27	0	0	2	0	0	39	
1982	RR	132	5,140	15	9	8	0	0	5,304	
	BS	1	0	1	1	2	0	0	5	
	GN	634	54	712	181	104	0	4	1,689	
	TN	6	0	0	0	0	0	0	6	
	RR	1,513	5,022	13	6	4	0	0	6,558	
	BS	1	0	0	1	0	0	8	10	

Table 3. (Cont'd.)

Bay/area	Year	Gear ^a	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other ^b species	All species	
1984		GN	684	52	565	136	116	6	5	1,564	
		RR	759	695	3	1	29	0	0	1,487	
		BS	0	0	0	1	0	0	0	0	1
		TL	21	0	0	0	0	0	0	0	21
		SK	0	0	0	0	0	0	0	4	4
1985		DS	22	8	3	0	1	0	0	34	
		GN	806	62	818	110	163	7	4	1,970	
		RR	1,243	267	17	0	26	0	0	39	1,592
		BS	0	0	0	0	3	0	0	0	3
		TL	355	19	124	0	0	0	0	7	505
1986		SK	0	0	0	0	0	0	280	280	
		GN	1,358	86	1,076	88	243	9	10	2,870	
		RR	334	45	7	0	0	2	0	2	388
		BS	0	0	0	0	6	0	0	0	6
		TL	4	0	16	0	0	0	0	0	20
1987		SK	683	0	0	0	0	0	0	683	
		ST	0	0	2	0	2	0	0	0	4
		EF	0	0	0	0	0	0	0	87	87
		GN	1,050	179	1,113	33	176	10	8	2,569	
		RR	69	0	0	0	0	0	0	0	69
1988		BS	2	0	0	0	2	0	0	4	
		SK	413	0	0	0	0	0	0	6,777	7,190
		ST	0	0	1	0	1	0	0	0	2
		EF	0	0	0	0	0	0	0	341	341
		DS	3	21	13	0	4	0	0	5	46
1989		GN	971	98	1,269	59	114	16	17	2,544	
		SI	0	0	4	6	0	0	0	0	10
		RR	47	0	0	0	0	0	0	1	48
		EF	0	0	0	0	0	0	0	435	435
		BS	1	1	1	0	1	0	0	0	4
Grand Total		SK	20	0	0	0	0	0	408	428	
		UK	0	1	0	0	0	0	0	0	1
		DS	13	163	29	5	9	0	0	94	313
		GN	897	172	1886	159	126	3	15	15	3,258
		ST	0	0	1	2	1	0	0	0	4
Grand Total		BS	3	1	2	0	2	0	0	8	
		DS	15	110	68	2	10	0	0	23	228
		SK	0	0	0	0	0	0	0	115	115
		EF	0	0	0	0	0	0	0	172	172
		LL	1	0	0	0	0	0	0	0	1
UK	2	0	0	0	0	0	0	0	2		
Grand Total		26,785	19,437	18,174	3,789	2,602	226	9,178	80,599		

^aBS = bag seine, DS = drag seine, EF = electrofishing, FT = fishtrap, GN = gill net, LL = longline, RR = rod and reel,

ST = shrimp trawl, SK = stocked hatchery fish, TN = trammel net, TL = trotline and UK = unknown.

^bList of other species captured can be found in footnote, Table 2.

Table 4. Number of fish tags returned by fishing category by bay system and recapture year during November 1975-December 1989. Only categories where returns occurred are listed.

Bay/area	Recapture Year	Fishing category	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species	
Sabine Lake	1986	Sport	8	0	1	0	1	0	0	10	
		Total	8	0	1	0	1	0	0	10	
	1987	Sport	11	0	6	0	1	0	0	0	18
		TPWD	3	0	0	0	0	0	0	0	3
	1988	Total	14	0	6	0	1	0	0	0	21
		Sport	2	2	0	0	0	0	0	1 ^a	5
1989	Total	2	2	0	0	0	0	0	1	5	
	Sport	6	0	3	0	0	0	0	0	9	
Galveston	Unknown	Total	6	0	3	0	0	0	0	9	
		Sport	1	0	0	0	0	0	0	0	1
	1975	TPWD	1	1	0	0	0	0	0	0	2
		Total	2	1	0	0	0	0	0	0	3
	1976	Sport	2	0	0	0	0	0	0	0	2
		Total	2	0	0	0	0	0	0	0	2
1977	Sport	Commercial	15	28	3	0	1	0	1 ^a	48	
		TPWD	1	0	0	0	0	0	0	0	1
	1978	Unknown	1	0	1	0	0	0	0	0	2
		Total	18	31	5	0	2	0	0	1	57
	1979	Sport	Commercial	12	20	4	0	1	0	0	37
			TPWD	2	0	2	0	0	0	0	0
1980		Unknown	3	4	1	0	0	0	0	0	8
		Total	17	24	7	0	1	0	0	0	49
1981		Sport	Commercial	25	12	3	0	5	0	0	45
			TPWD	3	0	1	0	0	0	0	0
	1982	Unknown	17	12	4	0	5	0	0	0	49
		Total	23	5	1	1	4	0	0	0	34
	1983	Sport	Commercial	4	1	1	0	1	0	0	7
			TPWD	1	0	0	0	0	0	0	0
1984		Unknown	2	0	1	0	0	0	0	0	3
		Total	30	6	3	1	5	0	0	0	45
1985		Sport	Commercial	51	25	0	0	1	0	0	77
			TPWD	6	1	0	1	0	0	0	0
	1986	Unknown	1	0	0	0	0	0	0	0	1
		Total	58	26	0	1	1	0	0	0	86
	1987	Sport	Commercial	13	67	3	0	0	0	0	83
			TPWD	0	2	0	0	0	0	0	0
1988		Unknown	1	1	0	0	0	0	0	0	2
		Total	14	70	3	0	0	0	0	0	87

Table 4. (Cont'd.)

Bay/area	Recapture Year	Fishing category	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1982	Sport	29	107	0	0	0	1	0	0	137
	Commercial	2	1	0	0	0	0	0	0	3
	Total	31	108	0	0	0	1	0	0	140
1983	Sport	58	67	1	0	0	0	0	1 ^a	127
	TPWD	10	0	0	0	0	0	0	0	10
	Total	68	67	1	0	0	0	0	1	137
1984	Sport	52	28	0	0	0	0	0	0	80
	Commercial	1	0	0	0	0	0	0	0	1
	Unknown	1	0	0	0	0	0	0	0	1
	Total	54	28	0	0	0	0	0	0	82
1985	Sport	69	10	1	1	1	3	0	3 ^b	87
	Commercial	1	0	1	0	0	1	0	0	3
	TPWD	2	0	1	0	0	0	0	0	3
	Total	72	10	3	1	1	4	0	3	93
1986	Sport	100	10	0	0	0	0	0	1 ^b	111
	Commercial	4	0	1	0	0	0	0	0	5
	TPWD	5	0	0	0	0	0	0	0	5
	Sport/survey	0	1	0	0	0	0	0	0	1
Total	109	11	1	0	0	0	0	1	122	
1987	Sport	52	5	6	0	0	5	0	0	68
	Commercial	4	0	0	0	0	0	0	0	4
	TPWD	2	0	0	0	0	0	0	0	2
	Comm./survey	0	0	1	0	0	0	0	0	1
	Total	58	5	7	0	0	5	0	0	75
1988	Sport	28	2	1	0	0	1	0	22 ^b	59
	Commercial	1	0	1	0	0	0	0	0	2
	Unknown	3	0	2	0	0	0	0	2 ^b	7
	Total	32	2	4	0	0	1	0	24	63
1989	Sport	12	61	1	0	0	2	0	13 ^b	34
	TPWD	1	0	0	0	0	0	0	0	1
	Unknown	1	0	1	0	0	0	0	0	2
	Total	14	6	2	0	0	2	0	13	37
Cedar Lakes	Sport	0	0	0	0	0	0	0	1 ^b	1
	Total	0	0	0	0	0	0	0	1	1
East Matagorda	Sport	5	0	1	0	0	0	0	0	6
	Commercial	7	0	5	0	0	0	0	0	12
	Unknown	1	0	0	0	0	0	0	0	1
	Total	13	0	6	0	0	0	0	0	19
1977	Sport	13	0	4	0	0	5	0	0	22
	Commercial	9	0	19	0	0	2	0	0	30
	Unknown	0	0	4	0	0	1	0	0	5
	Total	22	0	27	0	0	8	0	0	57

Table 4. (Cont'd.)

Bay/area	Recepture Year	Fishing category	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1978	Sport	5	0	7	0	0	2	0	0	14
	Commercial	5	0	8	1	0	1	0	0	15
	Unknown	1	0	0	0	0	0	0	0	1
	Total	11	0	15	1	0	3	0	0	30
1979	Sport	3	0	4	0	0	2	0	0	9
	Commercial	2	0	2	2	0	2	0	0	6
	Total	5	0	6	2	0	2	0	0	15
1980	Sport	9	0	0	0	0	0	0	0	9
	Commercial	1	0	0	0	1	1	0	0	2
	Total	10	0	0	0	1	1	0	0	11
1981	Sport	6	23	5	0	0	1	0	0	35
	Total	6	23	5	0	0	1	0	0	35
	Sport	7	26	4	1	0	1	0	0	39
1982	IFWD	0	0	1	0	0	0	0	0	1
	Unknown	0	1	0	0	0	0	0	0	1
	Total	7	27	5	1	0	1	0	0	41
1983	Sport	7	37	1	0	0	0	0	0	45
	Commercial	0	1	0	0	0	0	0	0	1
	Total	7	39	1	0	0	0	0	0	47
1984	Sport	11	6	1	0	0	0	0	0	18
	IFWD	0	0	2	0	0	0	0	0	2
	Total	11	6	3	0	0	0	0	0	20
1985	Sport	2	2	1	2	0	0	0	0	7
	Total	2	2	1	2	0	0	0	0	7
	Sport	9	0	5	1	0	1	0	0	16
1986	IFWD	1	0	0	0	0	0	0	0	1
	Total	10	0	5	1	0	1	0	0	17
	Sport	18	0	2	0	2	2	0	0	22
1987	IFWD	1	0	0	1	0	0	0	0	2
	Total	19	0	2	1	2	2	0	0	24
	Sport	8	1	2	0	0	1	0	0	12
1988	IFWD	2	0	1	0	0	0	0	0	3
	Total	10	1	3	0	0	1	0	0	15
	Sport	6	0	1	0	0	0	0	0	7
1989	Commercial	2	0	0	0	0	0	0	0	2
	IFWD	1	0	1	0	0	0	0	0	2
	Total	9	0	2	0	0	0	0	0	11
Matagorda	Sport	0	0	1	0	0	0	0	0	1
	IFWD	1	0	0	0	0	0	0	0	1
	Total	1	0	1	0	0	0	0	0	2

Table 4. (Cont'd.)

Bay/area	Recapture Year	Fishing category	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1975	Sport		1	0	0	0	0	0	0	1
		Total	1	0	0	0	0	0	0	1
1976	Sport	Commercial	26	0	9	0	3	1	0	39
		TPWD	16	0	6	0	0	0	0	22
		Unknown	1	0	0	0	0	0	0	1
		Total	44	0	15	0	3	1	0	63
1977	Sport	Commercial	63	0	15	1	3	0	0	82
		TPWD	14	0	12	0	0	0	0	26
		Unknown	3	0	3	0	0	0	0	6
		Total	85	0	33	1	3	0	0	122
1978	Sport	Commercial	88	11	24	0	2	0	0	125
		TPWD	35	0	15	1	0	0	0	51
		Unknown	13	0	5	0	0	0	0	18
		Total	146	11	51	1	2	0	0	211
1979	Sport	Commercial	92	5	8	1	1	0	0	107
		TPWD	18	0	9	0	0	0	0	27
		Unknown	6	1	1	0	0	0	0	8
		Total	116	6	18	1	2	0	0	143
1980	Sport	Commercial	100	1	2	1	0	0	0	104
		TPWD	6	0	2	0	0	0	0	8
		Unknown	1	0	1	0	0	0	0	2
		Total	107	1	5	1	0	0	0	114
1981	Sport	Commercial	40	23	1	1	0	0	0	65
		TPWD	2	0	0	0	0	0	0	2
		Unknown	4	0	0	0	0	0	0	4
		Total	46	23	1	1	0	0	0	71
1982	Sport	Commercial	18	46	1	0	0	0	0	65
		TPWD	0	0	1	0	0	0	0	1
		Unknown	0	1	0	0	0	0	0	1
		Total	18	47	2	0	0	0	0	67
1983	Sport	Commercial	10	41	1	0	0	0	0	52
		TPWD	1	0	0	0	0	0	0	1
		Unknown	11	41	1	0	0	0	0	53
		Total	22	82	2	0	0	0	0	105
1984	Sport	Commercial	11	37	4	0	1	0	0	53
		TPWD	1	1	0	0	0	0	0	2
		Unknown	12	38	4	1	0	0	0	55
		Total	24	76	8	2	0	0	0	110

Table 4. (Cont'd.)

Bay/area	Recapture Year	Fishing category	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species	
San Antonio	1985	Sport	8	10	6	1	1	0	0	26	
		TPWD	0	0	1	0	0	0	0	0	1
		Sport/survey	1	0	0	0	0	0	0	0	1
			Total	9	10	7	1	1	0	0	28
	1986	Sport	25	2	1	1	1	1	0	0	30
		TPWD	0	0	1	0	0	0	0	0	1
		Total	25	2	1	2	1	1	0	0	31
	1987	Sport	24	0	1	1	1	2	0	0	28
		Total	24	0	1	1	2	2	0	0	28
	1988	Sport	23	0	4	0	0	0	0	0	27
		Total	23	0	4	0	0	0	0	0	27
	1989	Sport	13	0	2	0	0	0	0	0	15
Total		13	0	2	0	0	0	0	0	15	
Unknown	Sport	18	0	5	0	0	0	0	1 ^c	24	
	Total	18	0	5	0	0	0	0	1	24	
1975	Sport	0	0	1	0	0	0	0	0	1	
	Total	0	0	1	0	0	0	0	0	1	
1976	Sport	23	0	1	2	0	0	2	0	28	
	Commercial	13	0	1	1	0	0	0	0	15	
	TPWD	2	0	0	0	0	0	0	0	2	
	Unknown	5	0	1	0	0	0	0	0	6	
		Total	43	0	3	3	0	2	0	51	
1977	Sport	14	0	3	0	4	0	0	0	21	
	Commercial	34	0	10	0	1	0	0	0	45	
	TPWD	5	0	2	0	0	0	0	0	7	
	Unknown	3	0	2	0	1	0	0	0	6	
		Total	56	0	17	6	0	0	0	79	
1978	Sport	33	0	6	0	3	0	0	0	42	
	Commercial	23	0	6	0	0	0	0	0	29	
	TPWD	4	0	0	0	0	0	0	0	4	
	Unknown	6	0	1	0	0	0	0	0	7	
		Total	66	0	13	3	0	0	0	82	
1979	Sport	51	0	2	1	5	0	0	0	59	
	Commercial	28	0	3	1	1	0	0	0	33	
	TPWD	5	0	1	1	0	0	0	0	7	
		Total	84	0	6	3	0	0	0	99	
1980	Sport	42	0	3	2	2	0	0	0	49	
	Commercial	9	0	1	0	0	0	0	0	10	
	TPWD	2	0	1	0	0	0	0	0	3	
		Total	53	0	5	2	0	0	0	62	

Table 4. (Cont'd.)

Bay/area	Recapture Year	Fishing category	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species	
1981	Sport	Commercial	23	11	2	2	0	0	0	38	
		IPWD	2	0	0	0	0	0	0	1	
		Unknown	1	0	1	0	0	0	0	3	
	Total	27	11	3	2	0	0	0	0	43	
1982	Sport	Commercial	8	15	3	4	0	0	0	30	
		IPWD	0	0	2	0	0	0	0	2	
		Unknown	1	0	1	0	0	0	0	2	
	Total	9	15	6	4	0	0	0	0	34	
1983	Sport	Commercial	5	36	0	2	0	0	0	43	
		IPWD	0	1	0	0	0	0	0	1	
		Unknown	5	37	0	2	0	0	0	0	44
	Total	11	2	1	0	0	4	0	0	18	
	Total	11	2	1	0	4	4	0	0	18	
1985	Sport	Commercial	11	1	2	0	0	0	0	14	
		IPWD	1	0	0	0	0	0	0	1	
		Unknown	12	1	2	0	0	0	0	0	15
	Total	19	0	2	0	2	2	0	0	23	
1986	Sport/survey	Commercial	1	0	0	0	0	0	0	1	
		IPWD	20	0	2	0	0	0	0	0	24
		Unknown	22	4	3	0	0	2	0	0	31
	Total	22	4	3	0	2	2	0	0	33	
1987	Sport	Commercial	1	0	2	0	0	0	0	3	
		IPWD	1	0	0	0	0	0	0	1	
		Unknown	24	4	5	0	0	2	0	0	35
	Total	19	1	5	0	0	1	1	0	27	
1988	Sport	Commercial	1	0	0	0	0	0	0	1	
		IPWD	5	0	0	0	0	0	0	0	5
		Unknown	25	1	5	0	0	1	1	0	33
	Total	10	1	2	0	0	1	0	0	14	
1989	Sport/survey	Commercial	1	0	0	0	0	0	0	1	
		IPWD	11	1	2	0	0	0	0	0	15
		Unknown	11	1	2	0	0	1	0	0	15
	Total	1	0	0	0	0	0	0	0	1	
Unknown	Sport	Commercial	1	0	0	0	0	0	0	1	
		IPWD	5	0	0	0	0	0	0	0	5
		Unknown	1	0	0	1	0	0	0	0	2
	Total	7	0	0	1	0	0	0	0	8	
1976	Sport	Commercial	35	0	17	4	1	0	0	57	
		IPWD	22	0	8	0	1	0	0	31	
		Unknown	0	0	0	0	0	0	0	2	
	Total	2	0	0	1	1	0	0	0	4	
	Total	59	0	25	5	2	1	0	2	94	

Table 4. (Cont'd.)

Bay/area	Recapture Year	Fishing category	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species	
1977		Sport	33	0	14	4	0	0	0	51	
		Commercial	16	1	12	1	0	0	0	30	
		TPWD	2	0	0	0	0	0	0	2	
		Unknown	1	0	1	0	0	0	0	2	
		Total	52	1	27	5	0	0	0	85	
1978		Sport	57	2	7	5	3	0	0	74	
		Commercial	54	0	14	1	0	0	0	69	
		TPWD	1	0	2	0	0	0	0	3	
		Unknown	2	0	0	0	0	0	0	2	
		Total	114	2	23	6	3	0	0	148	
1979		Sport	74	5	16	7	1	0	0	103	
		Commercial	51	1	6	0	0	0	0	58	
		TPWD	1	0	2	0	0	0	0	4	
		Unknown	126	6	24	7	1	1	0	0	165
		Total	171	17	19	3	2	0	0	212	
1980		Sport	71	4	8	1	2	0	0	86	
		Commercial	40	0	1	0	0	0	0	41	
		TPWD	3	0	0	0	0	0	0	3	
		Unknown	285	21	28	4	4	0	0	0	342
		Total	124	36	11	5	3	0	0	179	
1981		Sport	35	8	4	0	1	0	0	48	
		Commercial	25	1	0	0	0	0	0	26	
		TPWD	184	45	15	5	4	0	0	0	253
		Unknown	83	51	18	5	1	1	0	0	158
		Total	12	2	7	0	0	0	0	21	
1982		Sport	2	1	2	0	0	0	0	5	
		Commercial	1	0	0	0	0	0	0	0	
		TPWD	98	54	27	5	1	0	0	0	185
		Unknown	23	50	6	4	0	0	0	0	83
		Total	1	0	0	0	2	0	0	3	
1983		Sport	1	2	2	1	0	0	0	6	
		Commercial	25	52	8	5	2	0	0	0	92
		TPWD	10	2	1	0	0	0	0	0	15
		Unknown	0	0	1	0	0	0	0	0	1
		Total	0	3	0	0	0	0	0	3	
1984		Sport	10	5	2	0	2	0	0	19	
		Commercial	0	0	1	0	0	0	0	0	1
		TPWD	0	3	0	0	0	0	0	0	3
		Unknown	10	5	2	0	2	0	0	0	19
		Total	16	1	3	1	1	0	0	22	
1985		Sport	0	0	1	0	0	0	0	1	
		Commercial	0	0	1	0	0	0	0	0	1
		TPWD	2	0	0	0	0	0	0	0	2
		Unknown	18	1	4	1	1	0	0	0	25
		Total	2	0	0	0	0	0	0	2	

Table 4. (Cont'd.)

Bay/area	Receipture Year	Fishing category	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1986	Sport	18	2	6	0	0	0	0	0	26
	Commercial	1	0	1	0	0	1	0	0	3
	TPWD	0	0	2	0	0	0	0	0	2
	Total	19	2	9	0	0	1	0	0	32
1987	Sport	35	1	7	0	0	0	0	0	43
	Commercial	0	0	1	0	0	0	0	0	1
	Total	35	1	8	0	0	0	0	0	44
1988	Sport	13	0	4	1	0	0	0	0	18
	Commercial	0	0	1	0	0	0	0	0	1
	Total	13	0	5	1	0	0	0	0	19
1989	Sport	18	0	1	0	0	0	0	0	19
	Sport/survey	2	0	0	0	0	0	0	0	2
	TPWD	1	0	0	0	0	0	0	0	1
	Total	21	0	1	0	0	0	0	0	22
Unknown	Unknown	0	0	1	0	0	0	0	0	1
	Total	0	0	1	0	0	0	0	0	1
1975	Commercial	1	0	0	0	0	1	0	0	2
	Total	1	0	0	0	0	1	0	0	2
1976	Sport	7	0	1	1	0	2	0	0	11
	Commercial	17	0	2	1	0	0	0	0	20
	TPWD	1	0	0	0	0	0	0	0	1
	Total	25	0	3	2	0	2	0	0	35
1977	Sport	32	0	2	2	0	2	0	0	38
	Commercial	15	2	6	3	0	1	0	0	27
	TPWD	1	0	0	1	0	0	0	1	3
	Total	48	2	8	6	0	3	0	1	69
1978	Sport	34	0	3	3	0	2	0	0	42
	Commercial	46	0	12	3	0	2	0	0	63
	TPWD	1	0	0	0	1	0	0	0	2
	Total	81	0	15	6	0	5	0	0	108
1979	Sport	27	1	2	1	0	3	0	21 ^f	55
	Commercial	24	0	1	0	0	2	0	0	27
	TPWD	2	0	0	0	0	1	0	0	3
	Total	53	1	3	1	0	6	0	21	86

Table 4. (Cont'd.)

Bay/area	Recepture Year	Fishing category	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1980	Sport	39	6	1	0	2	0	0	0	48
	Commercial	39	6	6	2	2	0	0	0	55
	TPWD	5	0	0	1	0	0	0	0	6
	Total	83	12	7	3	4	0	0	0	109
1981	Sport	20	19	0	0	0	0	0	0	39
	Commercial	35	2	0	0	4	0	0	0	41
	TPWD	2	0	1	0	0	0	0	0	3
	Total	57	21	1	0	4	0	0	0	83
1982	Sport	14	50	4	0	1	0	0	0	69
	Unknown	0	1	0	0	0	0	0	0	1
	Total	14	51	4	0	1	0	0	0	70
1983	Sport	9	56	1	1	1	0	0	0	68
	Commercial	0	0	1	0	0	0	0	0	1
	TPWD	0	2	0	0	0	0	0	0	2
	Sport/survey	0	1	0	0	0	0	0	0	1
	Total	9	59	2	1	1	0	0	0	72
1984	Sport	13	4	0	0	0	0	1	0	18
	Commercial	0	0	0	0	1	0	0	0	1
	Sport/survey	1	0	0	0	0	0	0	0	1
	Total	14	4	0	0	1	0	0	0	20
1985	Sport	18	7	2	1	3	0	0	0	31
	TPWD	1	0	0	0	0	0	0	0	1
	Total	19	7	2	1	3	0	0	0	32
1986	Sport	15	2	2	1	1	0	0	0	21
	Commercial	0	0	0	0	1	0	0	0	1
	Total	15	2	2	1	2	0	0	0	22
1987	Sport	12	4	2	1	1	0	0	0	20
	Commercial	0	0	1	0	0	0	0	0	1
	Total	12	4	3	1	1	0	0	0	21
1988	Sport	9	1	1	0	1	0	0	0	12
	Commercial	0	0	1	0	0	0	0	0	1
	Total	9	1	2	0	1	0	0	0	13
1989	Sport	23	0	4	0	0	0	0	0	27
	Commercial	0	0	1	0	0	0	0	0	1
	Sport/survey	1	0	1	0	0	0	0	0	2
	Total	24	0	6	0	0	0	0	0	30
Upper Laguna Madre	Commercial	0	0	0	0	1	0	0	0	1
	Total	0	0	0	0	1	0	0	0	1
1976	Sport	10	0	2	0	1	0	0	0	13
	Commercial	13	0	4	0	0	0	0	1 ^e	18
	Unknown	1	0	0	0	0	0	0	0	1
	Total	24	0	6	0	1	0	0	1	32

Table 4. (Cont'd.)

Bay/area	Recapture Year	Fishing category	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species	
Lower Laguna Madre	1989	Sport	4	0	0	0	1	0	0	5	
		Total	4	0	0	0	1	0	0	5	
	Unknown	Unknown	0	1	0	0	0	0	0	1	
		Total	0	1	0	0	0	0	0	1	
	1976	Sport	10	0	3	0	0	0	0	0	13
		Commercial	20	0	4	0	0	0	0	18	25
		Total	30	0	7	0	0	0	0	1	38
	1977	Sport	16	1	2	0	1	0	0	0	20
		Commercial	27	0	14	1	0	0	0	0	42
		TPWD	1	0	1	0	0	0	0	0	2
Unknown		0	0	1	0	0	0	0	0	1	
Total	44	1	18	1	1	1	0	0	65		
1978	Sport	17	4	9	0	1	1	1	0	32	
	Commercial	56	1	15	1	0	0	0	0	73	
	TPWD	1	0	1	0	0	0	0	0	2	
	Unknown	1	0	1	0	0	0	0	0	2	
Total	75	5	26	1	1	1	1	0	109		
1979	Sport	11	10	3	1	0	0	0	0	25	
	Commercial	31	0	15	2	0	0	0	0	48	
	TPWD	1	1	0	1	0	0	0	0	3	
	Total	43	11	18	4	0	0	0	0	76	
1980	Sport	10	3	1	0	0	0	0	0	14	
	Commercial	3	0	2	1	0	0	0	1 ^a	7	
	TPWD	0	2	1	0	0	0	0	0	3	
	Unknown	1	0	0	0	0	0	0	0	1	
Total	14	5	4	1	1	0	0	1	25		
1981	Sport	18	12	1	0	0	0	0	0	31	
	Commercial	3	0	1	0	0	0	0	0	4	
	TPWD	4	1	0	0	0	0	0	0	5	
	Unknown	1	0	0	0	0	0	0	0	1	
Total	26	13	2	0	0	0	0	0	41		
1982	Sport	20	34	2	0	0	0	0	0	56	
	Commercial	1	0	0	0	0	0	0	0	1	
	TPWD	1	1	0	0	0	0	0	0	2	
	Total	22	35	2	0	0	0	0	0	59	
1983	Sport	8	56	0	0	0	0	0	0	64	
	TPWD	2	1	0	0	0	0	0	0	3	
	Unknown	0	1	0	0	0	0	0	0	1	
	Total	10	58	0	0	0	0	0	0	68	
1984	Sport	10	7	0	0	0	0	0	0	17	
	Total	10	7	0	0	0	0	0	0	17	

Table 4. (Cont'd.)

Bay/area	Recapture Year	Fishing category	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species	
1985		Sport	22	4	0	0	0	0	0	26	
		Commercial	0	1	0	0	0	0	0	1	
		TPWD	1	0	0	0	0	0	0	1	
1986		Unknown	1	0	0	0	0	0	0	1	
		Total	24	5	0	0	0	0	0	29	
		Sport	30	2	3	0	0	0	0	0	35
1987		TPWD	2	0	2	0	0	0	0	4	
		Total	32	2	5	0	0	0	0	39	
		Sport	26	0	2	0	2	0	0	0	30
1988		TPWD	2	0	0	0	0	0	0	2	
		Total	28	0	2	0	2	0	0	32	
		Sport	10	0	0	0	0	0	0	0	10
1989		Total	10	0	0	0	0	0	0	10	
		Sport	10	0	0	0	0	0	0	0	10
		TPWD	2	0	0	0	0	0	0	0	2
Unknown		Total	12	0	0	0	0	0	0	12	
		Sport	20	0	6	0	0	0	0	1	27
		TPWD	7	1	0	0	0	0	0	0	8
1975		Unknown	1	1	1	1	0	0	0	4	
		Total	28	2	7	1	0	0	1	39	
		Sport	3	0	1	0	0	0	0	0	4
1976		Commercial	1	0	0	0	2	0	0	3	
		Total	4	0	1	0	2	0	0	7	
		Sport	131	28	37	7	8	3	1	215	
1977		Commercial	109	0	30	2	0	1	2	144	
		TPWD	5	0	1	0	0	0	2	8	
		Unknown	14	3	2	1	2	0	0	22	
1978		Total	259	31	70	10	10	4	5	389	
		Sport	190	21	46	7	16	0	0	280	
		Commercial	136	3	89	5	4	0	0	237	
1979		TPWD	15	0	6	1	0	0	1	23	
		Unknown	12	4	13	0	2	0	0	31	
		Total	353	28	154	13	22	0	1	571	
1978		Sport	267	29	68	8	19	1	0	392	
		Commercial	237	4	89	7	3	0	0	340	
		TPWD	20	0	8	0	1	0	0	29	
1979		Unknown	21	0	10	0	0	0	0	31	
		Total	545	33	175	15	23	1	0	792	
		Sport	286	27	43	12	16	0	21	405	
Coastwide		Commercial	175	3	96	5	5	0	0	284	
		TPWD	17	2	4	2	1	1	0	27	
		Unknown	4	0	2	0	1	0	0	7	
Total		Total	482	32	145	19	23	1	21	723	

Table 4. (Cont'd.)

Bay/area	Recapture Year	Fishing category	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1980		Sport	439	52	30	6	9	0	0	536
		Commercial	154	12	44	5	5	0	1	221
		TPWD	51	2	3	1	0	0	0	57
		Unknown	5	0	2	0	0	0	0	7
		Total	649	66	79	12	14	0	1	821
1981		Sport	259	203	24	8	5	0	0	499
		Commercial	88	12	13	0	5	0	0	118
		TPWD	38	4	2	0	0	0	0	44
		Unknown	2	0	0	0	0	0	0	2
		Total	387	219	39	8	10	0	0	663
1982		Sport	185	360	33	10	4	0	0	592
		Commercial	15	3	10	0	0	0	0	28
		TPWD	4	2	5	0	0	0	0	11
		Unknown	1	3	0	0	0	0	0	4
		Total	205	368	48	10	4	0	0	635
1983		Sport	126	389	10	7	1	0	1	534
		Commercial	1	2	1	0	2	0	0	6
		TPWD	14	7	2	1	0	0	0	24
		Sport/survey	0	1	0	0	0	0	0	1
		Unknown	1	1	0	0	0	0	2	
		Total	142	400	13	8	3	1	0	567
1984		Sport	119	86	7	0	7	1	0	220
		Commercial	1	0	1	0	0	0	0	3
		TPWD	0	3	2	0	0	0	0	5
		Sport/survey	1	0	0	0	0	0	0	1
		Unknown	2	1	0	0	0	0	3	
		Total	123	90	10	0	8	1	0	232
1985		Sport	161	35	16	6	8	0	3	229
		Commercial	2	1	2	0	1	0	0	6
		TPWD	6	0	3	0	0	0	0	9
		Sport/survey	3	0	0	0	0	0	0	3
		Unknown	3	0	0	0	0	0	3	
		Total	175	36	21	6	9	3	0	250
1986		Sport	234	19	21	3	6	0	1	284
		Commercial	5	0	2	0	2	0	0	9
		TPWD	8	0	4	1	0	0	0	13
		Sport/survey	2	1	0	0	0	0	0	3
		Total	249	20	27	4	8	1	0	309
1987		Sport	203	15	30	2	15	0	0	265
		Commercial	5	0	4	0	0	0	0	9
		TPWD	9	0	0	1	0	0	0	10
		Comm./survey	0	0	1	0	0	0	0	1
		Total	217	15	35	3	15	0	0	285

Table 4. (Cont'd.)

Bay/area	Recapture Year	Fishing category	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1988	Sport	119	7	17	1	4	1	23	172	
	Commercial	2	0	3	0	0	0	0	5	
	TPWD	7	0	1	0	0	0	0	8	
	Unknown	3	0	2	0	0	0	2	7	
	Total	131	7	23	1	4	1	25	192	
1989	Sport	102	7	14	0	4	0	14	141	
	Commercial	2	0	1	0	0	0	0	3	
	TPWD	5	0	1	0	0	0	0	6	
	Sport/survey	4	0	1	0	0	0	0	5	
	Unknown	1	0	1	0	0	0	0	2	
	Total	114	7	18	0	4	0	14	157	
Grand Total	Sport	2,844	1,278	403	77	122	6	65	4,795	
	Commercial	933	40	385	24	30	1	3	1,416	
	TPWD	206	21	42	7	2	1	3	282	
	Sport/survey	10	2	1	0	0	0	0	13	
	Comm./survey	0	0	1	0	0	0	0	1	
	Unknown	70	13	33	2	5	0	2	125	
	Total	4,063	1,354	865	110	159	8	73	6,632	

aAtlantic croaker
 bStriped bass
 cTarpon
 dSpot
 eHardhead catfish
 fRed snapper
 gStriped mullet

Table 5. Number of fish tags returned from same bay, other bay, Gulf of Mexico/Texas Territorial Sea (TTS) or from outside TTS during November 1975-December 1989. Only areas where returns occurred are listed.

Bay/area	Recapture year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species	
Sabine Lake	1986	Same bay	7	0	1	0	1	0	0	9	
		TTS	1	0	0	0	0	0	0	1	
		Total	8	0	1	0	1	0	0	0	10
1987	Same bay	TTS	12	0	5	0	0	0	0	17	
		Outside TTS	1	0	0	0	1	0	0	0	1
		Unknown	1	0	1	0	0	0	0	0	2
		Total	14	0	6	0	1	0	0	0	21
1988	Same bay	TTS	2	0	0	0	0	0	0	2	
		Total	2	2	0	0	0	0	1 ^a	3	
		Total	2	2	0	0	0	0	0	1	5
1989	Same bay	TTS	6	0	2	0	0	0	0	8	
		Total	6	0	3	0	0	0	0	0	9
		Total	6	0	3	0	0	0	0	0	9
Unknown	Same bay	TTS	1	1	0	0	0	0	0	2	
		Total	1	0	0	0	0	0	0	0	1
		Total	2	1	0	0	0	0	0	0	3
1975	Same bay	Total	2	0	0	0	0	0	0	2	
		Total	2	0	0	0	0	0	0	0	2
1976	Same bay	Other bay	16	29	5	0	2	0	1 ^a	53	
		TTS	1	0	0	0	0	0	0	0	1
		Unknown	0	1	0	0	0	0	0	0	2
		Total	18	31	5	0	2	0	0	1	57
1977	Same bay	TTS	16	18	6	0	1	0	0	41	
		Total	17	24	7	0	1	0	0	0	49
		Total	17	24	7	0	1	0	0	0	49
1978	Same bay	TTS	26	10	4	0	4	0	0	44	
		Total	28	12	4	0	5	0	0	0	49
		Total	28	12	4	0	5	0	0	0	49
1979	Same bay	Other bay	28	4	3	1	4	0	0	40	
		TTS	1	1	0	0	1	0	0	0	2
		Unknown	1	0	0	0	0	0	0	0	2
		Total	30	6	3	1	5	0	0	0	45
1980	Same bay	TTS	55	25	0	1	1	0	0	82	
		Total	3	1	0	0	0	0	0	0	4
		Total	58	26	0	1	1	0	0	0	86

Table 5. (Cont'd.)

Bay/area	Recapture year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1981	Same bay	13	65	3	0	0	0	0	0	81
	TTS	0	3	0	0	0	0	0	0	3
	Unknown	1	2	0	0	0	0	0	0	3
	Total	14	70	3	0	0	0	0	0	87
1982	Same bay	27	91	0	0	0	1	0	0	119
	TTS	4	17	0	0	0	0	0	0	21
	Total	31	108	0	0	0	1	0	0	140
1983	Same bay	58	58	1	0	0	0	0	0	117
	TTS	10	8	0	0	0	0	0	0	18
	Unknown	0	1	0	0	0	0	0	1 ^a	2
	Total	68	67	1	0	0	0	0	1	137
1984	Same bay	43	24	0	0	0	0	0	0	67
	Other bay	1	1	0	0	0	0	0	0	2
	TTS	10	3	0	0	0	0	0	0	13
	Total	54	28	0	0	0	0	0	0	82
1985	Same bay	66	9	3	1	4	0	0	3 ^b	86
	TTS	6	1	0	0	0	0	0	0	7
	Total	72	10	3	1	4	0	0	3	93
1986	Same bay	98	10	0	0	0	0	0	1 ^b	109
	TTS	10	1	0	0	0	0	0	0	11
	Outside TTS	1	0	0	0	0	0	0	0	1
	Unknown	0	0	1	0	0	0	0	0	1
	Total	109	11	1	0	0	0	0	1	122
1987	Same bay	43	4	6	0	3	0	0	0	56
	TTS	7	1	1	0	0	0	0	0	9
	Outside TTS	3	0	0	0	0	0	0	0	3
	Unknown	5	0	0	0	2	0	0	0	7
	Total	58	5	7	0	5	0	0	0	75
1988	Same bay	29	1	4	0	1	0	0	24 ^b	59
	TTS	1	1	0	0	0	0	0	0	2
	Outside TTS	2	0	0	0	0	0	0	0	2
	Total	32	2	4	0	1	0	0	24	63
1989	Same bay	13	3	1	0	2	0	0	13 ^b	32
	TTS	1	3	1	0	0	0	0	0	5
	Total	14	6	2	0	2	0	0	13	37
Cedar Lakes	Other bay	0	0	0	0	0	0	0	1 ^b	1
	Total	0	0	0	0	0	0	0	1	1
East Matagorda	Same bay	13	0	5	0	0	0	0	0	18
	Unknown	0	0	1	0	0	0	0	0	1
	Total	13	0	6	0	0	0	0	0	19

Table 5. (Cont'd.)

Bay/area	Recapture year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1977		Same bay	19	0	25	0	7	0	0	51
		Other bay	2	0	2	0	1	0	0	5
		TTS	1	0	0	0	0	0	0	1
		Total	22	0	27	0	8	0	0	57
1978		Same bay	9	0	12	1	2	0	0	24
		Other bay	0	0	3	0	1	0	0	4
		TTS	2	0	0	0	0	0	0	2
		Total	11	0	15	1	3	0	0	30
1979		Same bay	5	0	5	2	1	0	0	13
		Other bay	0	0	0	0	1	0	0	1
		TTS	0	0	1	0	0	0	0	1
		Total	5	0	6	2	2	0	0	15
1980		Same bay	7	0	0	0	0	0	0	7
		Other bay	1	0	0	0	1	0	0	2
		TTS	2	0	0	0	0	0	0	2
		Total	10	0	0	0	1	0	0	11
1981		Same bay	5	16	4	0	1	0	0	26
		Other bay	1	6	1	0	0	0	0	8
		TTS	0	1	0	0	0	0	0	1
		Total	6	23	5	0	1	0	0	35
1982		Same bay	4	24	4	0	1	0	0	33
		Other bay	0	2	1	1	0	0	0	4
		TTS	3	0	0	0	0	0	0	3
		Unknown	0	1	0	0	0	0	0	1
		Total	7	27	5	1	1	0	0	41
1983		Same bay	7	29	1	0	0	0	0	37
		Other bay	0	4	0	0	0	0	0	4
		TTS	0	6	0	0	0	0	0	6
		Total	7	39	1	0	0	0	0	47
1984		Same bay	6	4	3	0	0	0	0	13
		Other bay	3	1	0	0	0	0	0	4
		TTS	2	1	0	0	0	0	0	3
		Total	11	6	3	0	0	0	0	20
1985		Same bay	1	1	0	0	0	0	0	2
		Other bay	0	1	0	1	0	0	0	2
		TTS	1	0	1	1	0	0	0	3
		Total	2	2	1	2	0	0	0	7
1986		Same bay	8	0	1	1	1	0	0	11
		Other bay	1	0	3	0	0	0	0	4
		TTS	1	0	1	0	0	0	0	2
		Total	10	0	5	1	1	0	0	17

Table 5. (Cont'd.)

Bay/area	Recapture year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1987		Same bay	17	0	1	1	2	0	0	21
		Other bay	0	0	1	0	0	0	0	1
		TTS	2	0	0	0	0	0	0	2
		Total	19	0	2	1	2	0	0	24
1988		Same bay	9	1	2	0	1	0	0	13
		Other bay	1	0	1	0	0	0	0	2
		Total	10	1	3	0	1	0	0	15
1989		Same bay	7	0	1	0	0	0	0	8
		Other bay	0	0	1	0	0	0	0	1
		TTS	2	0	0	0	0	0	0	2
		Total	9	0	2	0	0	0	11	
Unknown		Other bay	0	0	1	0	0	0	0	1
		Unknown	1	0	0	0	0	0	0	1
		Total	1	0	1	0	0	0	0	2
1975		Same bay	1	0	0	0	0	0	0	1
		Total	1	0	0	0	0	0	0	1
1976		Same bay	43	0	14	0	3	1	0	61
		Other bay	1	0	1	0	0	0	0	2
		Total	44	0	15	0	3	1	0	63
1977		Same bay	82	0	30	1	3	0	0	116
		Other bay	2	0	1	0	0	0	0	3
		TTS	0	0	1	0	0	0	0	1
		Unknown	1	0	1	0	0	0	0	2
		Total	85	0	33	1	3	0	0	122
1978		Same bay	127	11	41	0	2	0	0	181
		Other bay	9	0	4	1	0	0	0	14
		TTS	1	0	1	0	0	0	0	2
		Unknown	9	0	5	0	0	0	0	14
		Total	146	11	51	1	2	0	211	
1979		Same bay	102	6	14	1	1	0	0	124
		Other bay	3	0	1	0	0	0	0	4
		TTS	4	0	3	0	0	0	0	7
		Unknown	7	0	0	0	0	0	0	8
		Total	116	6	18	1	2	0	143	
1980		Same bay	95	1	4	0	0	0	0	100
		Other bay	4	0	0	0	0	0	0	4
		TTS	5	0	1	1	0	0	0	7
		Unknown	3	0	0	0	0	0	0	3
		Total	107	1	5	1	0	0	114	
1981		Same bay	45	21	1	1	0	0	0	68
		TTS	1	2	0	0	0	0	0	3
		Total	46	23	1	1	0	0	0	71

Table 5. (Cont'd.)

Bay/area	Recapture Year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1982		Same bay	12	44	2	0	0	0	0	58
		Other bay	1	1	0	0	0	0	0	2
		TTS	5	2	0	0	0	0	0	7
		Total	18	47	2	0	0	0	0	67
1983		Same bay	11	36	1	0	0	0	0	48
		Other bay	0	3	0	0	0	0	0	3
		TTS	0	1	0	0	0	0	0	1
		Unknown	0	1	0	0	0	0	0	1
		Total	11	41	1	0	0	0	0	53
1984		Same bay	5	22	3	0	1	0	0	31
		Other bay	4	10	0	0	0	0	0	14
		TTS	3	6	1	0	0	0	0	10
		Total	12	38	4	0	1	0	0	55
1985		Same bay	5	6	6	0	1	0	0	18
		Other bay	0	2	0	1	0	0	0	3
		TTS	4	2	1	0	0	0	0	7
		Total	9	10	7	1	1	0	0	28
1986		Same bay	21	0	1	2	0	0	0	24
		Other bay	1	1	0	0	0	0	0	2
		TTS	2	1	0	0	0	0	0	3
		Unknown	1	0	0	0	1	0	0	2
		Total	25	2	1	2	1	0	0	31
1987		Same bay	19	0	1	0	1	0	0	21
		Other bay	1	0	0	0	0	0	0	1
		TTS	2	0	0	1	0	0	0	3
		Unknown	2	0	0	0	1	0	0	3
		Total	24	0	1	1	2	0	0	28
1988		Same bay	17	0	4	0	0	0	0	21
		Other bay	1	0	0	0	0	0	0	1
		TTS	2	0	0	1	0	0	0	2
		Unknown	3	0	0	0	0	0	0	3
		Total	23	0	4	0	0	0	0	27
1989		Same bay	4	0	2	0	0	0	0	6
		Unknown	9	0	0	0	0	0	0	9
		Total	13	0	2	0	0	0	0	15
Unknown		Same bay	1	0	0	0	0	0	0	1
		Unknown	17	0	5	0	0	0	1 ^c	23
		Total	18	0	5	0	0	0	1	24
1975		Same bay	0	0	1	0	0	0	0	1
		Total	0	0	1	0	0	0	0	1

Table 5. (Cont'd.)

Bay/area	Recapture year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1976		Same bay	40	0	3	1	0	2	0	46
		Other bay	2	0	0	2	0	0	0	4
		TTS	1	0	0	0	0	0	0	1
	Total	43	0	3	3	0	0	2	0	51
1977		Same bay	50	0	11	0	3	0	0	64
		Other bay	1	0	4	0	2	0	0	7
		TTS	1	0	0	0	0	0	0	1
		Unknown	4	0	2	0	1	0	0	7
	Total	56	0	17	0	6	0	0	0	79
1978		Same bay	57	0	8	0	3	0	0	68
		Other bay	6	0	3	0	0	0	0	9
		TTS	2	0	0	0	0	0	0	2
		Outside TTS	1	0	0	0	0	0	0	1
		Unknown	0	0	2	0	0	0	0	2
		Total	66	0	13	0	3	0	0	0
1979		Same bay	71	0	2	2	6	0	0	81
		Other bay	8	0	3	0	0	0	0	11
		TTS	1	0	0	0	0	0	0	1
		Unknown	4	0	1	1	0	0	0	6
		Total	84	0	6	3	6	0	0	99
1980		Same bay	44	0	4	1	2	0	0	51
		Other bay	2	0	0	1	0	0	0	3
		TTS	2	0	0	0	0	0	0	2
		Unknown	5	0	1	0	0	0	0	6
		Total	53	0	5	2	2	0	0	62
1981		Same bay	20	8	1	1	0	0	0	30
		Other bay	4	3	2	1	0	0	0	10
		TTS	2	0	0	0	0	0	0	2
		Unknown	1	0	0	0	0	0	0	1
	Total	27	11	3	2	0	0	0	43	
1982		Same bay	8	10	5	1	0	0	0	24
		Other bay	1	4	1	0	0	0	0	6
		TTS	0	1	0	3	0	0	0	4
		Total	9	15	6	4	0	0	0	34
1983		Same bay	5	27	0	1	0	0	0	33
		Other bay	0	10	0	1	0	0	0	11
		Total	5	37	0	2	0	0	0	44
1984		Same bay	7	1	0	0	2	0	0	10
		Other bay	2	1	1	0	2	0	0	6
		TTS	1	0	0	0	0	0	0	1
		Outside TTS	1	0	0	0	0	0	0	1
		Total	11	2	1	0	4	0	0	18

Table 5. (Cont'd.)

Bay/area	Recapture year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1985		Same bay	10	0	2	0	0	0	0	12
		Other bay	1	0	0	0	0	0	0	1
		TTS	1	1	0	0	0	0	0	2
	Total	12	1	2	0	0	0	0	0	15
1986		Same bay	16	0	1	0	2	0	0	19
		Other bay	2	0	1	0	0	0	0	3
		TTS	1	0	0	0	0	0	0	1
		Outside TTS	1	0	0	0	0	0	0	1
		Total	20	0	2	0	2	0	0	24
1987		Same bay	20	3	2	0	2	0	0	27
		Other bay	3	1	2	0	0	0	0	6
		TTS	1	0	0	0	0	0	0	1
		Unknown	0	0	1	0	0	0	0	1
		Total	24	4	5	0	2	0	0	35
1988		Same bay	21	1	2	0	1	1	0	26
		Other bay	2	0	2	0	0	0	0	4
		TTS	1	0	0	0	0	0	0	1
		Outside TTS	1	0	0	0	0	0	0	1
		Total	25	1	5	0	1	1	0	33
1989		Same bay	11	1	1	0	1	0	0	14
		TTS	0	0	1	0	0	0	0	1
		Total	11	1	2	0	1	0	0	15
Aransas	Unknown	Same bay	0	0	0	1	0	0	0	1
		Other bay	1	0	0	0	0	0	0	1
		Unknown	6	0	0	0	0	0	0	6
		Total	7	0	0	1	0	0	0	0
1976		Same bay	56	0	23	2	1	1	0	83
		Other bay	1	0	2	2	1	0	0	6
		TTS	1	0	0	1	0	0	0	2
		Unknown	1	0	0	0	0	0	0	2 ^d
	Total	59	0	25	5	2	1	2	94	
1977		Same bay	49	1	23	4	0	0	0	77
		Other bay	2	0	3	0	0	0	0	5
		TTS	0	0	1	1	0	0	0	1
		Unknown	1	0	1	0	0	0	0	2
	Total	52	1	27	5	0	0	0	85	
1978		Same bay	101	2	16	5	3	0	0	127
		Other bay	5	0	3	1	0	0	0	9
		TTS	1	0	0	0	0	0	0	1
		Unknown	7	0	4	0	0	0	0	11
	Total	114	2	23	6	3	0	0	148	

Table 5. (Cont'd.)

Bay/area	Recapture year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1979		Same bay	106	4	18	4	1	1	0	134
		Other bay	7	2	2	0	0	0	0	11
		TTS	5	0	1	3	0	0	0	9
		Unknown	8	0	3	0	0	0	0	11
	Total	126	6	24	7	1	1	1	0	165
1980		Same bay	245	18	21	3	2	0	0	289
		Other bay	12	2	3	1	0	0	0	18
		TTS	6	0	1	0	1	0	0	8
		Unknown	22	1	3	0	1	0	0	27
	Total	285	21	28	4	4	0	0	0	342
1981		Same bay	141	36	9	2	2	0	0	190
		Other bay	4	0	2	2	1	0	0	9
		TTS	7	1	0	1	0	0	0	9
		Unknown	32	8	4	0	1	0	0	45
	Total	184	45	15	5	4	0	0	0	253
1982		Same bay	87	48	23	2	0	0	0	160
		Other bay	2	6	2	1	0	0	0	11
		TTS	9	0	2	2	1	0	0	14
		Total	98	54	27	5	1	0	0	185
1983		Same bay	21	47	6	4	2	0	0	80
		Other bay	2	3	2	0	0	0	0	7
		TTS	2	2	0	1	0	0	0	5
		Total	25	52	8	5	2	0	0	92
1984		Same bay	7	4	0	0	1	0	0	12
		Other bay	1	1	1	0	1	0	0	4
		TTS	2	0	1	0	0	0	0	3
		Total	10	5	2	0	2	0	0	19
1985		Same bay	18	1	4	0	1	0	0	24
		Other bay	0	0	0	1	0	0	0	1
		TTS	18	1	4	1	1	0	0	25
		Total	36	2	8	1	2	0	0	42
1986		Same bay	20	2	6	0	1	0	0	29
		Other bay	0	0	2	0	0	0	0	2
		TTS	0	0	1	0	0	0	0	1
		Total	20	2	9	0	1	0	0	32
1987		Same bay	35	1	6	0	0	0	0	42
		Other bay	0	0	2	0	0	0	0	2
		TTS	35	1	8	0	0	0	0	44
		Total	70	2	14	0	0	0	0	86
1988		Same bay	13	0	4	1	0	0	0	18
		Other bay	0	0	1	0	0	0	0	1
		TTS	13	0	5	1	0	0	0	19
		Total	26	0	10	2	0	0	0	38

Table 5. (Cont'd.)

Bay/area	Recapture year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species	
Corpus Christi	1989	Same	18	0	1	0	0	0	0	19	
		Other bay	2	0	0	0	0	0	0	2	
		TTS	1	0	0	0	0	0	0	1	
		Total	21	0	1	0	0	0	0	22	
	Unknown	TTS	0	0	1	0	0	0	0	0	1
		Total	0	0	1	0	0	0	0	0	1
	1975	Same bay	1	0	0	0	1	1	0	0	2
		Total	1	0	0	0	1	1	0	0	2
	1976	Same bay	23	0	2	2	2	2	0	0	29
		Other bay	5	0	1	0	0	0	0	0	6
	Total	28	0	3	2	2	2	0	0	35	
1977	Same bay	38	2	8	4	2	2	0	1 ^e	55	
	Other bay	8	0	1	2	1	1	0	0	12	
	TTS	1	0	0	0	0	0	0	0	1	
	Unknown	1	0	0	0	0	0	0	0	1	
	Total	48	2	9	6	3	3	0	1	69	
1978	Same bay	60	0	7	3	5	5	0	0	75	
	Other bay	13	0	6	0	0	0	0	0	19	
	TTS	0	0	0	2	0	0	0	0	2	
	Unknown	9	0	2	1	0	0	0	0	12	
	Total	82	0	15	6	5	0	0	0	108	
1979	Same bay	36	1	3	1	4	4	0	0	45	
	Other bay	9	0	0	0	1	1	0	0	10	
	TTS	1	0	0	0	0	0	0	18 ^f	19	
	Outside TTS	2	0	0	0	0	0	0	3 ^f	5	
	Unknown	6	0	0	0	1	0	0	0	7	
	Total	54	1	3	1	6	6	0	21	86	
1980	Same bay	58	7	3	3	3	3	0	0	74	
	Other bay	5	2	2	0	0	0	0	0	9	
	TTS	3	0	0	0	0	0	0	0	3	
	Unknown	17	3	2	0	1	1	0	0	23	
	Total	83	12	7	3	4	4	0	0	109	
1981	Same bay	22	17	1	0	1	1	0	0	41	
	Other bay	5	2	0	0	0	0	0	0	7	
	TTS	2	0	0	0	0	0	0	0	2	
	Unknown	28	2	0	0	3	3	0	0	33	
	Total	57	21	1	0	4	4	0	0	83	
1982	Same bay	6	44	2	0	1	1	0	0	53	
	Other bay	4	5	2	0	0	0	0	0	11	
	TTS	3	1	0	0	0	0	0	0	4	
	Unknown	1	1	0	0	0	0	0	0	2	
	Total	14	51	4	0	1	1	0	0	70	

Table 5. (Cont'd.)

Bay/area	Recapture year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1983		Same bay	9	48	2	0	0	0	0	59
		Other bay	0	10	0	0	1	0	0	11
		TTS	0	1	0	1	0	0	0	2
		Total	9	59	2	1	1	0	0	72
1984		Same bay	13	4	0	0	1	1	0	19
		Other bay	1	0	0	0	0	0	0	1
		Total	14	4	0	0	1	1	0	20
1985		Same bay	18	5	2	1	2	0	0	28
		Other bay	0	2	0	0	0	0	0	2
		TTS	1	0	0	0	0	0	0	1
		Unknown	0	0	0	0	1	0	0	1
		Total	19	7	2	1	3	0	0	32
1986		Same bay	14	1	2	0	2	0	0	19
		Other bay	1	1	0	0	0	0	0	2
		TTS	0	0	0	1	0	0	0	1
		Total	15	2	2	1	2	0	0	22
1987		Same bay	11	2	2	1	1	0	0	17
		Other bay	0	1	1	0	0	0	0	2
		Unknown	1	1	0	0	0	0	0	2
		Total	12	4	3	1	1	0	0	21
1988		Same bay	9	1	1	0	1	0	0	12
		Other bay	0	0	1	0	0	0	0	1
		Total	9	1	2	0	1	0	0	13
1989		Same bay	21	0	5	0	0	0	0	26
		Other bay	2	0	1	0	0	0	0	3
		Unknown	1	0	0	0	0	0	0	1
		Total	24	0	6	0	0	0	0	30
Upper Laguna Madre		Same bay	0	0	0	0	1	0	0	1
		Total	0	0	0	0	1	0	0	1
1976		Same bay	15	0	6	0	1	0	1 ^e	23
		Other bay	7	0	0	0	0	0	0	7
		TTS	1	0	0	0	0	0	0	1
		Outside TTS	1	0	0	0	0	0	0	1
		Total	24	0	6	0	1	0	1	32
1977		Same bay	22	0	13	0	0	0	0	35
		Other bay	6	0	3	0	0	0	0	9
		Unknown	1	0	0	0	0	0	0	1
	Total	29	0	16	0	0	0	0	45	
1978		Same bay	17	3	14	0	0	0	0	34
		Other bay	3	0	6	0	1	0	0	10
		Unknown	3	0	8	0	0	0	0	11
		Total	23	3	28	0	1	0	0	55

Table 5. (Cont'd.)

Bay/area	Recapture year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1979		Same bay	23	2	61	0	1	0	0	87
		Other bay	1	0	5	0	0	0	0	6
		Unknown	0	0	1	0	0	0	0	1
	Total	24	2	67	0	1	0	0	0	94
1980		Same bay	28	1	26	0	2	0	0	57
		Other bay	6	0	1	0	0	0	0	7
		Unknown	5	0	3	0	0	0	0	8
	Total	39	1	30	0	2	0	0	0	72
1981		Same bay	21	10	8	0	1	0	0	40
		Other bay	1	3	0	0	0	0	0	4
		TTS	2	0	0	0	0	0	0	2
	Unknown	3	0	1	0	0	0	0	0	4
	Total	27	13	9	0	1	0	0	0	50
1982		Same bay	5	31	1	0	0	0	0	37
		Other bay	1	0	1	0	0	0	0	2
		Total	6	31	2	0	0	0	0	39
1983		Same bay	5	40	0	0	0	0	0	45
		Other bay	1	7	0	0	0	0	0	8
		TTS	1	0	0	0	0	0	0	1
	Total	7	47	0	0	0	0	0	0	54
1984		Other bay	1	0	0	0	0	0	0	1
		Total	1	0	0	0	0	0	0	1
1985		Same bay	16	0	2	0	0	0	0	18
		Other bay	3	0	0	0	0	0	0	3
		Total	19	0	2	0	0	0	0	21
1986		Same bay	10	0	0	0	0	0	0	10
		Other bay	0	1	0	0	0	0	0	1
		TTS	0	0	1	0	0	0	0	1
	Total	10	1	1	0	0	0	0	0	12
1987		Same bay	2	1	1	0	0	0	0	4
		Other bay	1	0	0	0	0	0	0	1
		Total	3	1	1	0	0	0	0	5
1988		Same bay	6	0	0	0	0	0	0	6
		Other bay	1	0	0	0	0	0	0	1
		Total	7	0	0	0	0	0	0	7
1989		Same bay	4	0	0	0	0	0	0	4
		Other bay	0	0	0	0	1	0	0	1
		Total	4	0	0	0	1	0	0	5
Lower Laguna Madre		Unknown	0	1	0	0	0	0	0	1
		Total	0	1	0	0	0	0	0	1

Table 5. (Cont'd.)

Bay/area	Recapture year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
	1976	Same bay	30	0	7	0	0	0	18	38
		Total	30	0	7	0	0	0	1	38
	1977	Same bay	40	1	12	1	1	0	0	55
		Other bay	0	0	3	0	0	0	0	3
		TTS	1	0	0	0	0	0	0	1
		Outside TTS	1	0	1	0	0	0	0	2
		Unknown	2	0	2	0	0	0	0	4
		Total	44	1	18	1	1	0	0	65
	1978	Same bay	75	5	19	1	1	0	0	101
		Other bay	0	0	3	0	0	0	0	3
		TTS	0	0	1	0	0	0	0	1
		Outside TTS	0	0	0	0	0	1	0	1
		Unknown	0	0	3	0	0	0	0	3
		Total	75	5	26	1	1	1	0	109
	1979	Same bay	34	11	12	2	0	0	0	59
		Other bay	3	0	3	1	0	0	0	7
		Outside TTS	0	0	0	1	0	0	0	1
		Unknown	6	0	3	0	0	0	0	9
		Total	43	11	18	4	0	0	0	76
	1980	Same bay	13	4	3	0	0	0	1 ^a	21
		Other bay	1	1	1	1	0	0	0	4
		Total	14	5	4	1	0	0	1	25
	1981	Same bay	22	12	1	0	0	0	0	35
		Other bay	3	1	0	0	0	0	0	4
		TTS	1	0	0	0	0	0	0	1
		Outside TTS	0	0	1	0	0	0	0	1
		Total	26	13	2	0	0	0	0	41
	1982	Same bay	18	30	2	0	0	0	0	50
		Other bay	1	5	0	0	0	0	0	6
		TTS	3	0	0	0	0	0	0	3
		Total	22	35	2	0	0	0	0	59
	1983	Same bay	10	54	0	0	0	0	0	64
		Other bay	0	3	0	0	0	0	0	3
		Unknown	0	1	0	0	0	0	0	1
		Total	10	58	0	0	0	0	0	68
	1984	Same bay	10	7	0	0	0	0	0	17
		Total	10	7	0	0	0	0	0	17
	1985	Same bay	22	3	0	0	0	0	0	25
		Other bay	1	2	0	0	0	0	0	3
		Unknown	1	0	0	0	0	0	0	1
		Total	24	5	0	0	0	0	0	29

Table 5. (Cont'd.)

Bay/area	Recapture year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1986	Same bay	32	1	5	0	0	0	0	0	38
	Other bay	0	1	0	0	0	0	0	0	1
	Total	32	2	5	0	0	0	0	0	39
1987	Same bay	24	0	2	0	0	1	0	0	27
	Unknown	4	0	0	0	0	1	0	0	5
	Total	28	0	2	0	0	2	0	0	32
1988	Same bay	8	0	0	0	0	0	0	0	8
	Other bay	1	0	0	0	0	0	0	0	1
	Outside TTS	1	0	0	0	0	0	0	0	1
Total	10	0	0	0	0	0	0	0	10	
1989	Same bay	12	0	0	0	0	0	0	0	12
	Total	12	0	0	0	0	0	0	0	12
Coastwide	Same bay	2	1	0	1	0	0	0	0	4
	Other bay	1	0	1	0	0	0	0	0	2
	TTS	1	0	1	0	0	0	0	0	2
	Unknown	24	1	5	0	0	0	0	1	31
	Total	28	2	7	1	0	0	0	1	39
1975	Same bay	4	0	1	0	0	2	0	0	7
	Total	4	0	1	0	0	2	0	0	7
1976	Same bay	236	29	65	5	9	4	3	3	351
	Other bay	17	0	4	4	1	0	0	0	26
	TTS	4	1	0	1	0	0	0	0	6
	Outside TTS	1	0	0	0	0	0	0	0	1
	Unknown	1	1	1	0	0	0	0	2	5
Total	259	31	70	10	10	10	4	5	389	
1977	Same bay	316	22	128	10	17	0	1	1	494
	Other bay	21	0	17	2	4	0	0	0	44
	TTS	5	6	2	1	0	0	0	0	14
	Outside TTS	1	0	1	0	0	0	0	0	2
	Unknown	10	0	6	0	1	0	0	0	17
Total	353	28	154	13	22	22	0	1	571	
1978	Same bay	472	31	121	10	20	0	0	0	654
	Other bay	36	0	28	2	2	0	0	0	68
	TTS	8	2	2	2	1	0	0	0	15
	Outside TTS	1	0	0	0	0	1	0	0	2
	Unknown	28	0	24	1	0	0	0	0	53
Total	545	33	175	15	23	23	1	0	792	
1979	Same bay	405	28	118	13	18	1	0	0	583
	Other bay	31	3	14	1	3	0	0	0	52
	TTS	12	1	5	3	0	0	0	18	39
	Outside TTS	2	0	0	1	0	0	0	3	6
	Unknown	32	0	8	1	0	2	0	0	43
Total	482	32	145	19	23	23	1	21	723	

Table 5. (Cont'd.)

Bay/area	Recapture year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1980		Same bay	545	56	61	8	10	0	1	681
		Other bay	31	5	7	3	1	0	0	47
		TTS	21	1	2	1	1	0	0	26
		Unknown	52	4	9	0	2	0	0	67
		Total	649	66	79	12	14	0	1	821
1981		Same bay	289	185	28	4	5	0	0	511
		Other bay	18	15	5	3	1	0	0	42
		TTS	15	7	0	1	0	0	0	23
		Outside TTS	0	0	1	0	0	0	0	1
		Unknown	65	12	5	0	4	0	0	86
		Total	387	219	39	8	10	0	0	663
1982		Same bay	167	322	39	3	3	0	0	534
		Other bay	10	23	7	2	0	0	0	42
		TTS	27	21	2	5	1	0	0	56
		Unknown	1	2	0	0	0	0	0	3
		Total	205	358	48	10	4	0	0	635
1983		Same bay	126	339	11	5	2	0	0	483
		Other bay	3	40	2	1	1	0	0	47
		TTS	13	18	0	2	0	0	0	33
		Unknown	1	3	0	0	0	0	0	4
		Total	142	400	13	8	3	0	1	567
1984		Same bay	91	66	6	0	5	1	0	169
		Other bay	13	14	2	0	3	0	0	32
		TTS	18	10	2	0	0	0	0	30
		Outside TTS	1	0	0	0	0	0	0	1
		Total	123	90	10	0	8	0	0	232
1985		Same bay	156	25	19	2	8	0	3	213
		Other bay	5	7	0	3	0	0	0	15
		TTS	13	4	2	1	0	0	0	20
		Unknown	1	0	0	0	1	0	0	2
		Total	175	36	21	6	9	3	0	250
1986		Same bay	226	14	17	3	7	0	1	268
		Other bay	5	4	6	0	0	0	0	15
		TTS	15	2	3	1	0	0	0	21
		Outside TTS	2	0	0	0	0	0	0	2
		Unknown	1	0	1	0	1	0	3	
		Total	249	20	27	4	8	0	1	309
1987		Same bay	183	11	26	2	10	0	0	232
		Other bay	5	2	6	0	0	0	0	13
		TTS	12	1	1	1	1	3	3	16
		Outside TTS	4	0	0	0	0	0	0	4
		Unknown	13	1	2	0	4	0	20	
		Total	217	15	35	3	15	0	0	285

Table 5. (Cont'd.)

Bay/area	Recapture year	Recapture location	Red drum	Spotted seatrout	Black drum	Sheepshead	Southern flounder	Gulf flounder	Other species	All species
1988		Same bay	114	4	17	1	4	1	24	165
		Other bay	6	0	5	0	0	0	0	11
		TTS	4	3	0	0	0	0	0	1
		Outside TTS	4	0	0	0	0	0	0	0
		Unknown	3	0	1	0	0	0	0	0
		Total	131	7	23	1	4	1	25	192
1989		Same bay	96	4	13	0	3	0	13	129
		Other bay	4	0	3	0	1	0	0	1
		TTS	4	3	2	0	0	0	0	0
		Unknown	10	0	0	0	0	0	0	0
				Total	114	97	18	0	4	0
Grand Total		Same bay	3,428	1,137	670	67	123	7	46	5,478
		Other bay	206	113	107	21	17	0	1	464
		TTS	172	80	24	19	4	0	19	319
		Outside TTS	16	0	2	1	0	1	3	23
		Unknown	241	24	62	2	15	0	4	348
		Total	4,063	1,354	865	110	159	8	73	6,632

aAtlantic croaker

bStriped bass

cTarpon

dSpot

eHardhead catfish

fRed snapper

gStriped mullet

Table 6. Total number of rewards and total amount paid for returned internal abdominal anchor tags during November 1975-December 1989.

Bay/area	Recapture Year	Number of rewards					Total	Total amount paid \$
		\$1	\$5	\$10	\$25	Total		
Sabine Lake	1986	9	1	0	0	10	14	
	1987	19	0	1	1	21	54	
	1988	3	1	1	0	5	18	
	1989	9	0	0	0	9	9	
Galveston	Unknown	3	0	0	0	3	3	
	1975	2	0	0	0	2	2	
	1976	55	1	1	0	57	70	
	1978	43	3	0	3	49	133	
	1979	39	1	4	1	45	109	
	1980	68	10	5	3	86	243	
	1981	78	4	4	1	87	163	
	1982	127	4	8	1	140	252	
	1983	124	5	6	2	137	259	
	1984	71	4	5	2	82	191	
	1985	84	4	3	2	93	184	
	1986	104	8	6	4	122	304	
	1987	65	5	4	1	75	155	
	1988	57	3	2	1	63	117	
	1989	35	1	1	0	37	50	
Cedar Lakes	1989	1	0	0	0	1	1	
East Matagorda	1976	16	3	0	0	19	31	
	1977	50	2	3	2	57	140	
	1978	25	1	3	1	30	85	
	1979	15	0	0	0	15	15	
	1980	8	2	1	0	11	28	
	1981	33	1	1	0	35	48	
	1982	40	0	1	0	41	50	
	1983	38	6	2	1	47	113	
	1984	16	0	4	0	20	56	
	1985	6	0	0	1	7	31	
	1986	16	0	0	1	17	41	
	1987	20	1	2	1	24	70	
	1988	13	2	0	0	15	23	
	1989	10	0	0	1	11	35	
Matagorda	Unknown	2	0	0	0	2	2	
	1975	1	0	0	0	1	1	
	1976	57	5	1	0	63	92	
	1977	112	2	7	1	122	217	
	1978	187	11	8	5	211	447	
	1979	127	6	7	3	143	302	
	1980	100	5	7	2	114	245	

Table 6. (Cont'd.)

Bay/area	Recapture Year	Nuber of rewards					Total	Total amount paid \$
		\$1	\$5	\$10	\$25	Total		
Matagorda (Cont'd.)	1981	63	2	2	4	71	193	
	1982	58	8	1	0	67	108	
	1983	47	3	2	1	53	107	
	1984	48	3	3	1	55	118	
	1985	22	4	2	0	28	62	
	1986	28	2	1	0	31	48	
	1987	26	1	1	0	28	41	
	1988	25	2	0	0	27	35	
	1989	14	0	1	0	15	24	
	San Antonio	Unknown	22	1	1	0	24	37
1975		1	0	0	0	1	1	
1976		46	1	3	1	51	106	
1977		71	2	4	2	79	171	
1978		69	6	6	1	82	184	
1979		80	8	7	4	99	290	
1980		55	3	4	0	62	110	
1981		40	1	2	0	43	65	
1982		30	2	2	0	34	60	
1983		40	0	3	1	44	95	
1984		15	1	0	2	18	70	
1985		13	1	1	0	15	28	
1986		23	1	0	0	24	28	
1987		30	1	4	0	35	75	
1988		29	2	1	1	33	74	
1989		14	1	0	0	15	19	
Aransas	Unknown	8	0	0	0	8	8	
	1975	0	0	0	0	0	0	
	1976	80	4	4	6	84	290	
	1977	76	5	2	2	85	171	
	1978	134	6	7	1	148	259	
	1979	147	11	6	1	165	287	
	1980	311	9	16	6	342	666	
	1981	236	3	9	5	253	466	
	1982	160	8	12	5	185	445	
	1983	82	5	5	0	92	157	
	1984	19	0	0	0	19	19	
	1985	22	1	2	0	25	47	
	1986	28	1	2	1	32	78	
1987	38	3	2	1	44	98		
1988	16	0	3	0	19	46		
1989	19	0	1	2	22	79		

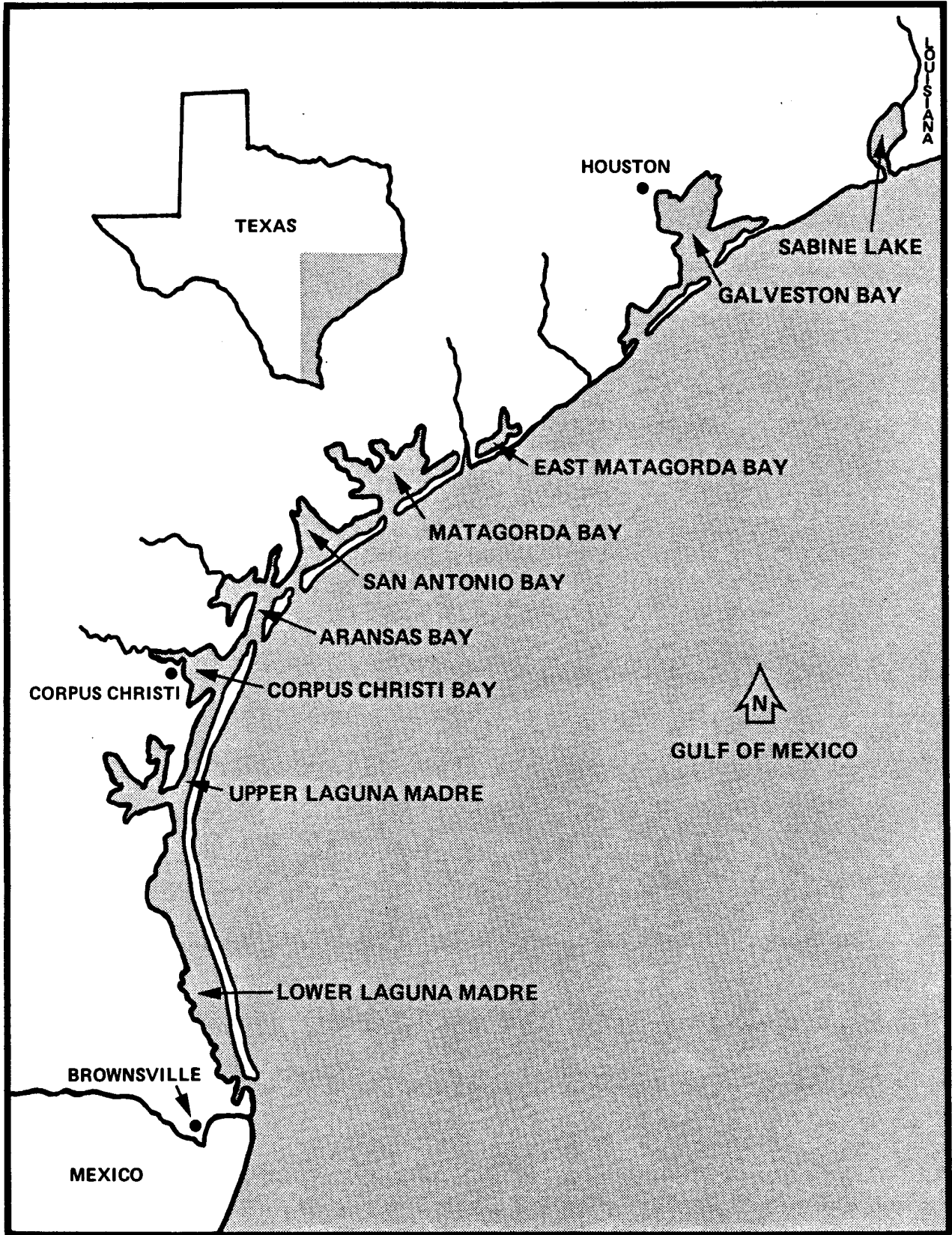
Table 6. (Cont'd.)

Bay/area	Recapture Year	Number of rewards					Total	Total amount paid \$
		\$1	\$5	\$10	\$25	Total		
Corpus Christi	Unknown	1	0	0	0	1	1	
	1975	2	0	0	0	2	2	
	1976	29	4	2	0	35	69	
	1977	61	5	3	0	68	116	
	1978	96	3	5	4	108	261	
	1979	78	4	1	3	86	183	
	1980	88	7	7	7	109	368	
	1981	75	4	3	1	83	150	
	1982	63	2	2	3	70	168	
	1983	66	4	2	0	72	106	
	1984	16	1	2	1	20	66	
	1985	30	1	1	0	32	45	
	1986	16	1	1	4	22	131	
	1987	19	1	1	0	21	34	
	1988	13	0	0	0	13	13	
	1989	28	0	2	0	30	48	
Upper Laguna Madre	1975	0	1	0	0	1	5	
	1976	28	3	1	0	32	53	
	1977	39	3	2	1	45	99	
	1978	48	3	3	1	55	118	
	1979	84	4	5	1	94	179	
	1980	64	3	3	2	82	159	
	1981	45	1	3	1	50	105	
	1982	36	1	0	2	39	91	
	1983	49	2	0	3	54	134	
	1984	1	0	0	0	1	1	
	1985	20	0	1	0	21	30	
	1986	12	0	0	0	12	12	
	1987	5	0	0	0	5	5	
	1988	5	1	1	0	7	20	
	1989	5	0	0	0	5	5	
Lower Laguna Madre	Unknown	1	0	0	0	1	1	
	1975	0	0	0	0	0	0	
	1976	30	5	3	0	38	85	
	1977	59	4	1	1	65	114	
	1978	102	2	4	1	109	177	
	1979	64	5	6	1	76	174	
	1980	24	0	1	0	25	34	
	1981	38	0	3	0	41	68	
	1982	50	2	5	2	59	160	
	1983	64	2	2	0	68	94	
	1984	15	2	0	0	17	25	
	1985	25	1	1	2	29	90	

Table 6. (Cont'd.)

Bay/area	Recapture Year	Number of rewards					Total paid \$
		\$1	\$5	\$10	\$25	Total	
Lower	1986	35	0	2	2	39	105
Laguna	1987	28	2	2	0	32	58
Madre	1988	8	2	0	0	10	18
(Cont'd.)	1989	9	0	2	1	12	54
Coastwide	Unknown	37	1	1	0	39	52
	1975	6	1	0	0	7	11
	1976	341	26	15	7	389	796
	1977	513	24	24	10	571	1,123
	1978	704	35	36	17	792	1,664
	1979	634	39	36	14	723	1,539
	1980	718	39	44	20	821	1,853
	1981	608	16	27	12	663	1,258
	1982	564	27	31	13	635	1,334
	1983	510	27	22	8	567	1,065
	1984	201	11	14	6	232	546
	1985	222	12	11	5	250	517
	1986	271	14	12	12	309	761
	1987	250	14	17	4	285	590
	1988	169	13	8	2	192	364
	1989	144	2	7	4	157	324
Coastwide		5,892	301	305	134	6,632	13,797

Figure 1. Nine major Texas bay systems in which tagging occurred during November 1975 through December 1989.



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