

FISH STOCKING IN TEXAS BAYS: 1975-1988

by

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MANAGEMENT DATA SERIES

No. 10

1989

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ABSTRACT

In 1988, 67,610,285 red drum (Sciaenops ocellatus) eggs, fry and fingerlings were stocked into Texas bays. Matagorda Bay received 14,127,903 fry and fingerling spotted seatrout (Cynoscion nebulosus). Galveston Bay received 4,464,400 striped bass (Morone saxatilis) fry and 313,454 fingerlings. The Brazos River received 570 striped bass fingerlings.

INTRODUCTION

Stocking saltwater fishes into Texas bays has become an integral part of the Texas Parks and Wildlife Department's (TPWD) management program to revitalize historic fisheries and to speed recovery of both overfished stocks (Matlock 1986) and stocks reduced from natural catastrophies such as winter kill and red tide. This report is a summary of saltwater stockings that occurred in Texas bays during 1975-1988 by or in cooperation with TPWD. The objective of this report is to update saltwater stocking activities. Differences in the number in this report compared to previous versions are due to updating the data base and this report should be considered the most accurate to date.

MATERIALS AND METHODS

Red drum (Sciaenops ocellatus) spawned and reared by the TPWD facility at the Gulf Coast Conservation Association/Central Power and Light Company/Marine Development Center and reared at the Dow Chemical Company/TPWD pond facility were stocked into Texas Bays. Spotted seatrout (Cynoscion nebulosus) stocked into the Matagorda Bay system were spawned, reared and stocked by the TPWD from the Perry R. Bass Marine Fisheries Research Station during experimental culture studies. Striped bass (Morone saxatilis) fry stocked into the Galveston Bay complex were supplied from the Louisiana Department of Wildlife and Fisheries facility on Toledo Bend Reservoir; tagged or tetracycline marked fingerlings were supplied by the U.S. Fish and Wildlife Service, San Marcos Development Center, Inks Lake Federal Fish Hatchery and Tishamingo National Fish Hatchery. Stocking locations are identified by grid number. Grid latitudes and longitudes can be found in the 1988 TPWD Coastal Fisheries Branch Marine Resource Monitoring Operations Manual.

RESULTS AND DISCUSSION

A total of 67,610,285 red drum eggs, fry and fingerlings were stocked into all Texas bay systems except East Matagorda, San Antonio and Corpus Christi bays in 1988 (Tables 1 and 2; Appendix A). Twenty red drum were tagged with internal anchor abdominal tags and released into west Matagorda Bay. Galveston Bay was stocked with 4,464,400 striped bass fry and 313,454 fingerlings; 201,000 fingerlings were marked with tetracycline (Tables 1 and 3; Appendix A). The Brazos River was stocked with 570 fingerling striped bass; 162 were marked with tetracycline and 408 with internal abdominal anchor tags (Appendix A). Matagorda Bay received 13,900,200 spotted seatrout fry and 227,703 fingerlings, respectively (Tables 1 and 6; Appendix A).

LITERATURE CITED

Matlock, Gary C. 1986. A summary of 10 years of stocking fishes into Texas bays. Management Data Series Number 104. Texas Parks and Wildlife Department, Coastal Fisheries Branch. Austin, Texas.

Table 1. Number of each species stocked into Texas bays each year from October 1975 through December 1988. Blank indicates none stocked.

Year	Species	Bay system											Total	
		Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre				
1975	Red drum	20,000			102,000		17,000	12,703,000						12,842,000
	Striped bass					55,645								55,645
1976	Red drum				6,842									6,842
	Striped bass					140,753								140,753
1977	Striped bass	9,950				221,834		2,970						234,754
1978	Red drum		130		40,000	2,250,000	63,603							2,353,733
1979	Red drum		4,724,500		1,844,000	2,660,000	3,811,685	2,314,000	18,596					15,372,781
1980	Red drum		82,514	32,000	9,836,000	6,800,000	276,540	6,500,000	1,900,000					25,427,054
1981	Red drum				7,276,000		577,500	1,500,000						9,353,500
1982	Red drum						280,000							280,000
1983	Red drum		1,018,735			2,319,065		4,708,456						8,046,256
	Striped bass		830,000		23,500									853,500
	Spotted seatrout				50,000									50,000
1984	Red drum				287	5,978,940			532,276	610,055				7,121,558
	Striped bass		1,215,000		4									1,215,004
	Spotted seatrout				42,609				4,438					47,047
	Black drum				35,249									35,249
1985	Red drum		1,625,010			4,532,852	422,765	1,122,668						8,941,194
	Striped bass		1,512,500											1,512,500
	Spotted seatrout				962,235									962,235
	Snook						333							333

Table 1. (Cont'd.).

Year	Species	Bay system										Total
		Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
1986	Red drum	612,786	2,091,356	340,432	1,319,529		221,500		1,100,771	1,099,829		6,786,203
	Striped bass	4,963,321	42,073									4,963,321
	Spotted seatrout				241,000							283,073
1987	Red drum	309,294	1,849,030	250,676	1,194,936	794,160	23,581,403	487,570	250,000	1,049,008		29,766,077
	Striped bass		4,650,932		423,573							4,650,932
	Spotted seatrout											423,573
1988	Red drum	545,704	2,360,492		122,393		61,674,515		1,274,174	1,633,007		67,610,285
	Striped bass		4,777,854									4,777,854
	Spotted seatrout				14,127,903							14,127,903
	Black drum											
All years	Red drum	1,487,784	13,751,767	623,108	21,741,987	25,335,017	90,926,511	29,335,694	5,075,817	5,629,798		193,907,483
	Striped bass	9,950	17,946,607		23,504	480,834		2,970				18,463,865
	Spotted seatrout		42,073		15,847,320				4,438			15,893,831
	Black drum				35,249							35,249
	Snook						333					333

Table 2. Number of red drum eggs, fry, and fingerlings stocked into Texas bays each year from October 1975 through December 1988. Blank indicates none stocked.

Year	Species	Bay system										Total	
		Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre			
1975	Fry	20,000			102,000	17,000	12,700,000						12,700,000
	Fingerlings						3,000						142,000
1976	Fingerlings				6,842								6,842
1978	Fry				40,000	2,250,000							2,290,000
	Fingerlings		130			63,603							63,733
1979	Eggs						500,000						500,000
	Fry		4,724,500		1,500,000	2,660,000	1,814,000						13,528,500
	Fingerlings				344,000	981,685	18,596						1,344,281
1980	Eggs						6,500,000						6,500,000
	Fry		82,514	32,000	9,836,000	6,800,000	1,900,000						18,536,000
	Fingerlings					276,540							391,054
1981	Eggs						1,500,000						1,500,000
	Fry				7,276,000	577,500							7,276,000
	Fingerlings												577,500
1982	Fingerlings					280,000							280,000
1983	Fry		1,018,735		2,319,065	4,708,456							1,018,735
	Fingerlings												7,027,521
1984	Fingerlings				287	5,978,940	532,276	610,055					7,121,558
1985	Fingerlings		1,625,010		4,532,852	422,765	1,122,668	1,237,899					8,941,194
1986	Fry		612,786	2,091,356	340,432	1,319,529							221,500
	Fingerlings					221,500							6,564,703
1987	Eggs					4,306,000							4,306,000
	Fry		309,294	1,849,030	250,676	1,194,936	794,160	487,570					19,275,403
	Fingerlings							250,000	1,049,008				6,133,374

Table 2. (Cont'd.)

Year	Bay system										Total
	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aransas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
1988											
Eggs						18,095,000					18,095,000
Fry						41,702,640					41,702,640
Fingerlings	545,704	2,360,492		122,393		1,876,765		1,274,174	1,633,007		7,812,535
All years											
Eggs						30,213,535					38,713,535
Fry		5,743,235		18,652,000	11,710,000	64,029,543	14,514,000	1,900,000			116,548,778
Fingerlings	1,487,784	8,008,532	623,108	3,089,987	13,546,717	4,495,858	6,321,694	3,175,817	5,629,798		46,379,295
Total	1,487,784	13,751,767	623,108	21,741,987	24,835,017	98,738,936	29,335,694	5,075,817	5,629,798		201,219,908

Table 3. Number of striped bass fry and fingerlings stocked into Texas bays each year from October 1975 through December 1987. Blank indicates none stocked.

Year	Life stage	Bay system				Total	
		Sabine Lake	Galveston	Matagorda	San Antonio		Corpus Christi
1975	Fingerlings				55,645	55,645	
1976	Fingerlings				140,753	140,753	
1977	Fingerlings	9,950			221,834	2,970	234,754
1983	Fry		830,000				830,000
	Fingerlings			23,500			23,500
1984	Fry		1,215,000				1,215,000
	Fingerlings			4			4
1985	Fry		1,512,500				1,512,500
1986	Fry		4,792,239				4,792,239
	Fingerlings		171,082				171,082
1987	Fry		4,644,085				4,644,085
	Fingerlings		6,847				6,847
1988	Fry		4,464,400				4,464,400
	Fingerlings		313,454				313,454
All years	Fry		17,458,224				17,458,224
	Fingerlings	9,950	491,383	23,504	418,232	2,970	946,039
	Total	9,950	17,949,607	23,504	418,232	2,970	18,404,263

Table 4. Number of spotted seatrout fry and fingerlings stocked into Texas bays each year from August 1983 through September 1987. Blank indicates none stocked.

Year Life stage	Galveston Bay	Matagorda Bay	Upper Laguna Madre	Total
1983				
Fingerlings		50,000		50,000
1984				
Fry		41,000		41,000
Fingerlings		1,609	4,438	6,047
1985				
Fry		665,700		665,700
Fingerlings		249,488		249,488
1986				
Fry		9,000		9,000
Fingerlings	42,073 ^a	232,000		274,073
1987				
Fry		325,000		325,000
Fingerlings		98,573		98,573
1988				
Fry		13,900,200		13,900,200
Fingerlings		227,703		227,703
All years				
Fry		14,940,900		14,940,900
Fingerlings	42,073 ^a	859,373	4,438	905,884

^aCedar Lakes (Freeport) area.

Appendix A. Fish stocking dates and sites.

Table A.1. Date, location, and number of red drum eggs stocked in the Corpus Christi Bay system as reported by the University of Texas (UT) Marine Science Institute.

Date	Site	No.
Oct 08 1979	Redfish Bay, Harbor Island	500,000
Sep 26 1980	Corpus Christi Channel, near Port Aransas Airport	500,000
Oct 05	Corpus Christi Channel, near Port Aransas Airport	500,000
13	Corpus Christi Channel at UT Lab	500,000
16	Caster's Cut	500,000
19	Corpus Christi Channel at UT Lab	500,000
23	Corpus Christi Channel at UT Lab	500,000
24	Caster's Cut	500,000
25	Ponds-Charlie's Pasture	500,000
26	Ponds-Charlie's Pasture	500,000
27	Corpus Christi Channel at UT Lab	500,000
Nov 03	Caster's Cut	500,000
09	Corpus Christi Channel at UT Lab	500,000
12	Corpus Christi Channel at UT Lab	500,000
Sep 03 1981	Pond near Port Aransas Airport	500,000
05	Corpus Christi Channel at UT Lab	500,000
15	Corpus Christi Channel at UT Lab	500,000

Table A.2. Date, location, and number of red drum eggs placed in Texas bays by TPWD.

Date	Bay system	Grid	No.
Apr 21 1987	Aransas	329	1,256,000
Nov 12	Aransas	122	3,050,000
Apr 25 1989	Aransas	274	3,620,000
29	Aransas	250	4,570,000
May 04	Aransas	237	3,240,000
05	Aransas	237	3,490,000
06	Aransas	76	350,000
Jun 08	Aransas	330	1,860,000
09	Aransas	333	250,000
11	Aransas	339	495,000
13	Aransas	332	220,000
Total			18,095,000

Table A.3. Date, location, and number of red drum fry (1-3 days old) stocked in Texas bays by the TPWD.

Date	Bay system	Minor Bay	Grid	No.
Aug 25 1975	Corpus Christi	Redfish	82	1,200,000
Sep 29	Corpus Christi	Corpus Christi	208	1,000,000
Oct 03	Corpus Christi	Corpus Christi	208	500,000
Nov 09	Corpus Christi	Redfish	82	10,000,000
Nov 10 1978	San Antonio	Espiritu Santo	212	2,250,000
13	Matagorda	Tres Palacios	71	20,000
16	Matagorda	Tres Palacios	71	20,000
May 11 1979	Galveston	West	718	540,000
12	Galveston	West	718	696,500
13	Galveston	West	718	1,100,000
14	Galveston	West	718	597,000
15	Galveston	West	718	891,000
18	Galveston	West	718	400,000
19	Galveston	West	718	500,000
Jul 14	Corpus Christi	Corpus Christi	207	914,000
21	Corpus Christi	Corpus Christi	207	900,000
Aug 20	San Antonio	Espiritu Santo	277	300,000
23	San Antonio	Espiritu Santo	277	300,000
26	San Antonio	Espiritu Santo	277	800,000
28	Aransas	Redfish	310	100,000
30	San Antonio	Espiritu Santo	277	900,000
Sep 04	San Antonio	Espiritu Santo	277	360,000
13	Aransas	Redfish	310	80,000
Oct 06	Aransas	Redfish	310	800,000
10	Aransas	Redfish	310	1,350,000
12	Aransas	Redfish	310	500,000
18	Matagorda	Carancahua	185	1,500,000
Jul 15 1980	Matagorda	Carancahua	185	1,600,000
16	Matagorda	Carancahua	185	700,000
17	Matagorda	Carancahua	185	780,000
18	Matagorda	Carancahua	185	400,000
19	Matagorda	Carancahua	185	600,000
20	Matagorda	Carancahua	185	470,000
24	Matagorda	Carancahua	185	300,000
Aug 06	Matagorda	Carancahua	185	186,000
27	San Antonio	San Antonio	47	1,700,000
28	San Antonio	San Antonio	47	1,300,000
29	San Antonio	Barroom	212	2,200,000
31	San Antonio	Barroom	212	1,600,000
Sep 10	Upper Laguna Madre	Upper Laguna Madre	78	500,000
14	Upper Laguna Madre	Upper Laguna Madre	78	600,000
15	Upper Laguna Madre	Upper Laguna Madre	78	500,000
21	Upper Laguna Madre	Upper Laguna Madre	78	300,000

Table A.3. (Cont'd.).

Date	Bay system	Minor Bay	Grid	No.
Oct 07 1980	Matagorda	Matagorda	154	1,000,000
28	Matagorda	Tres Palacios	38	1,300,000
30	Matagorda	Matagorda	154	300,000
31	Matagorda	Matagorda	154	700,000
Mar 13 1981	Matagorda	Matagorda	154	772,000
14	Matagorda	Matagorda	154	804,000
17	Matagorda	Matagorda	154	1,700,000
20	Matagorda	Matagorda	154	700,000
22	Matagorda	Matagorda	154	1,400,000
24	Matagorda	Matagorda	154	1,900,000
Aug 08 1983	Galveston	West	579	1,018,735
Apr 22 1986	Aransas	Little Bay	236	221,500
Apr 11 1987	Aransas	Redfish Bay	310	1,007,500
12	Aransas	Redfish Bay	310	463,000
May 03	Aransas	South Bay	342	613,875
04	Aransas	South Bay	342	565,725
05	Aransas	South Bay	342	425,125
06	Aransas	South Bay	342	708,700
08	Aransas	South Bay	342	426,450
09	Aransas	South Bay	342	475,950
12	Aransas	South Bay	342	369,075
13	Aransas	South Bay	342	288,325
14	Aransas	South Bay	342	833,150
15	Aransas	South Bay	342	1,417,875
16	Aransas	South Bay	342	472,625
17	Aransas	South Bay	342	412,300
19	Aransas	South Bay	342	825,750
20	Aransas	South Bay	342	2,916,975
28	Aransas	South Bay	342	1,922,800
Jun 07	Aransas	South Bay	342	470,250
29	Aransas	South Bay	342	35,150
Jul 06	Aransas	South Bay	342	174,800
07	Aransas	South Bay	342	267,900
08	Aransas	South Bay	342	357,041
09	Aransas	South Bay	342	300,437
10	Aransas	South Bay	342	242,725
Sep 02	Aransas	South Bay	342	349,675
06	Aransas	Copano	185	576,650
07	Aransas	Copano	185	260,300
08	Aransas	Copano	185	136,275
09	Aransas	Aransas	122	37,050
10	Aransas	Aransas	122	81,225
14	Aransas	Aransas	146	177,175
24	Aransas	Aransas	122	190,000
27	Aransas	Aransas	122	843,550
29	Aransas	Aransas	122	284,525

Table A.3. (Cont'd.).

Date	Bay system	Minor Bay	Grid	No.
Oct 07 1987	Aransas	Aransas	122	66,500
14	Aransas	Aransas	122	88,500
15	Aransas	Aransas	122	190,475
Nov 14	Aransas	Aransas	122	385,225
15	Aransas	South Bay	332	283,575
16	Aransas	South Bay	332	602,300
20	Aransas	Aransas	122	144,400
21	Aransas	South Bay	332	1,512,875
Apr 01 1988	Aransas	Aransas	291	663,100
04	Aransas	Aransas	280	555,940
05	Aransas	Aransas	280	209,000
06	Aransas	Redfish	285	1,000,000
06	Aransas	Redfish	285	495,300
07	Aransas	Mesquite	80	622,250
08	Aransas	Aransas	307	1,003,200
10	Aransas	Redfish	321	550,000
10	Aransas	South Bay	330	530,575
12	Aransas	Redfish	312	968,525
13	Aransas	South	338	195,225
25	Aransas	Copano	212	1,096,775
28	Aransas	Copano	232	410,875
29	Aransas	Copano	146	1,148,550
30	Aransas	Redfish	285	702,050
May 04	Aransas	Little	237	486,425
06	Aransas	Sundown	76	100,000
07	Aransas	St. Charles	310	781,375
08	Aransas	South	285	395,475
10	Aransas	Redfish	280	142,500
11	Aransas	Little	236	157,700
12	Aransas	Redfish	285	112,100
13	Aransas	Port	157	585,200
14	Aransas	Redfish	285	311,600
15	Aransas	Redfish	295	408,975
16	Aransas	Redfish	304	462,175
17	Aransas	Redfish	311	465,975
18	Aransas	Redfish	285	61,750
19	Aransas	St. Charles	23	332,025
20	Aransas	Mesquite	106	796,575
21	Aransas	Port	247	999,875
22	Aransas	Carlos	127	56,050
23	Aransas	Aransas	154	1,007,475
24	Aransas	Carlos	127	396,150
25	Aransas	Port	247	211,850
26	Aransas	Carlos	102	620,350
27	Aransas	Copano	247	168,964
27	Aransas	Carlos	129	225,286

Table A.3. (Continued)

Date	Bay system	Minor Bay	Grid	No.
May 28	Aransas	Mesquite	106	71,566
28	Aransas	Copano	46	357,834
29	Aransas	Port	247	244,625
30	Aransas	Copano	248	347,225
31	Aransas	Port	261	316,825
31	Aransas	Port	247	833,150
Jun 01	Aransas	Copano	232	642,275
06	Aransas	Aransas	307	196,700
07	Aransas	South	331	167,200
08	Aransas	South	330	580,925
09	Aransas	South	332	857,825
11	Aransas	South	339	324,900
12	Aransas	Redfish	319	218,500
13	Aransas	Redfish	319	1,031,225
14	Aransas	South	330	857,850
15	Aransas	Copano	87	158,175
16	Aransas	Copano	20	118,750
17	Aransas	St. Charles	50	453,625
19	Aransas	Copano	19	206,000
20	Aransas	Little	236	400,425
21	Aransas	Aransas	122	281,675
Jul 11	Aransas	St. Charles	97	271,700
20	Aransas	St. Charles	72	33,725
23	Aransas	Aransas	154	156,750
Aug 03	Aransas	Aransas	154	8,075
06	Aransas	Aransas	123	315,400
07	Aransas	Aransas	124	320,150
11	Aransas	St. Charles	72	38,000
12	Aransas	St. Charles	98	280,725
13	Aransas	St. Charles	74	167,200
14	Aransas	St. Charles	99	327,275
15	Aransas	St. Charles	41	221,350
21	Aransas	Aransas	243	242,725
Sep 13	Aransas	St. Charles	51	472,150
22	Aransas	St. Charles	51	51,300
24	Aransas	St. Charles	35	105,925
25	Aransas	St. Charles	35	332,975
26	Aransas	St. Charles	25	1,499,100
27	Aransas	St. Charles	25	694,925
28	Aransas	St. Charles	24	304,000
29	Aransas	Aransas	304	700,150
30	Aransas	Aransas	304	956,150
Oct 01	Aransas	Mesquite	157	895,375
04	Aransas	Aransas	306	1,030,625
05	Aransas	Little	250	119,700
13	Aransas	Copano	19	347,225
14	Aransas	Aransas	153	472,150
16	Aransas	Aransas	291	1,148,075

Table A.3. (Continued)

Date	Bay system	Minor Bay	Grid	No.
Oct 26 1988	Aransas	St. Charles	10	290,225
28	Aransas	St. Charles	10	781,375
29	Aransas	Aransas	307	80,750
Nov 07	Aransas	St. Charles	6	580,450
08	Aransas	St. Charles	23	95,475
09	Aransas	St. Charles	51	154,850
13	Aransas	St. Charles	97	102,125

Table A.4. Date, location, and number of red drum fingerlings stocked in Texas bays. Blanks indicate no data.

Date	Bay system		Minor Bay	Grid	No.	Total length (mm)		No. tagged
						Range	Mean	
Oct 02 1975	Sabine Lake	Sabine Lake		127	20,000		31	
02	Matagorda	Matagorda		226	10,000		31	
02	Matagorda	Turtle		38	40,000		31	
02	Matagorda	Tres Palacios		57	5,000		31	
02	Matagorda	Tres Palacios		41	5,000		31	
02	Aransas	Copano		248	17,000		31	
02	Corpus Christi	Nueces		68	3,000		31	
08	Matagorda	Lavaca		18	42,000		33	
Apr 28 1976	Matagorda	Matagorda		154	6,842	102-203	152	5,942 ^a
Apr 25 1978	Galveston	West		618	130	152-203	45	130 ^b
Nov 16	Aransas	St. Charles		72	50,800	45-55	55	1,585 ^c
20	Aransas	St. Charles		72	3,500	45-55	52	1,998 ^c
22	Aransas	St. Charles		72	8,000	45-55	45	1,303 ^c
Dec 06	Aransas	St. Charles		72	1,303	45-55	37	
Jan 18 1979	Aransas	St. Charles		72	2,856	32-40	44	
Jun 06	Aransas	St. Charles		72	85,000	37-45	47	
07	Aransas	St. Charles		72	45,000	40-50	54	
08	Aransas	St. Charles		72	92,000	40-50	76	1,834 ^c
11	Aransas	St. Charles		25	291,000	35-40	76	3,007 ^c
12	Aransas	St. Charles		25	358,000	35-40	76	5,638 ^c
13	Aransas	St. Charles		11	83,000	40-55	76	6,850 ^c
25	Aransas	St. Charles		72	1,834	64-89	102	7,500 ^c
26	Aransas	St. Charles		72	3,007	64-89	48	
27	Aransas	St. Charles		72	5,638	64-89		
28	Aransas	St. Charles		72	6,850	64-89		
Jul 05	Aransas	St. Charles		72	7,500	85-107		
24	Upper Laguna Madre	Upper Laguna Madre		78	14,600	38-64		

Table A.4. (Cont'd.).

Date	Bay system		Minor Bay	Grid	No.	Total length (mm)		No. tagged
	Upper	Lower				Range	Mean	
Aug 16 1979	Upper Laguna Madre		Upper Laguna Madre	78	3,996	45-55		
Oct 23	Matagorda		Matagorda	226	34,000	39-45	43	
25	Matagorda		Matagorda	226	25,000	40-55	44	
30	Matagorda		Turtle	71	69,000	32-44	43	
Nov 01	Matagorda		Turtle	71	53,000	32-44	42	
05	Matagorda		Turtle	71	11,000	32-38		
06	Matagorda		Keller	145	142,000	25-32	30	
07	Matagorda		Turtle	71	10,000	25-32	32	
Jul 17 1980	Galveston		Jones Lake	539	46,000	35-45	40	
Aug 04	Aransas		St. Charles	25	18,940	30-55	32	
05	Aransas		St. Charles	25	40,100	40-50	43	3,974 ^c
06	Aransas		St. Charles	25	52,100	30-50	43	1,422 ^c
07	Aransas		St. Charles	25	45,000	45-55	43	6,666 ^c
07	Aransas		St. Charles	25	102,000	30-35	32	
26	Galveston		Galveston	451	10,714	57-72	66	
27	Aransas		St. Charles	25	9,100	57-72	66	
Sep 02	Aransas		St. Charles	25	9,300	35-75	58	
23	East Matagorda		East Matagorda	98	32,000	38-44	41	
24	Galveston		West	618	12,000	35-45	40	
25	Galveston		West	718	8,000	45-55	48	
26	Galveston		West	718	5,800	45-55	50	
May 11 1981	Aransas		St. Charles	25	577,500	25-32		
Oct 21 1982	Aransas		St. Charles	25	280,000	25-28	27	
May 17 1983	San Antonio		Espiritu Santo	211	306,019	16-32		
18	San Antonio		Espiritu Santo	76	392,626	16-32		
19	San Antonio		Espiritu Santo	211	373,487	20-33		
24	San Antonio		Espiritu Santo	211	283,926	19-29		
25	San Antonio		Espiritu Santo	211	179,785	19-29		

Table A.4. (Cont'd.).

Date	Bay system	Minor Bay	Grid	No.	Total length (mm)		No. tagged
					Range	Mean	
May 26 1983	San Antonio	Espiritu Santo	87	286,901	20-33		
27	San Antonio	Espiritu Santo	211	496,321	18-33		
Sep 07	Corpus Christi	Nueces	16	320,224	29-55		
08	Corpus Christi	Nueces	20	131,059	44-52		
09	Corpus Christi	Nueces	16	354,762	19-51		
10	Corpus Christi	Nueces	20	410,827	19-51		
11	Corpus Christi	Nueces	16	353,202	19-34		
12	Corpus Christi	Nueces	20	73,030	19-83		
13	Corpus Christi	Nueces	20	204,527	19-76		
Nov 09	Corpus Christi	Nueces	20	717,112	28-32		
10	Corpus Christi	Nueces	16	94,056	29-34		
12	Corpus Christi	Nueces	11	292,500	19-29		
12	Corpus Christi	Nueces	27	527,716	25-34		
13	Corpus Christi	Nueces	16	359,200	30-32		
14	Corpus Christi	Nueces	20	536,153	25-28		
16	Corpus Christi	Nueces	20	339,008	19-25		
May 08 1984	San Antonio	Espiritu Santo	87	37,000	25-38		
15	Upper Laguna Madre	Upper Laguna Madre	33	532,276	38-44	31	
15	San Antonio	Espiritu Santo	211	258,817	25-34		29
16	San Antonio	Espiritu Santo	224	181,510	25-37		30
17	San Antonio	Espiritu Santo	217	295,556	25-32		28
18	San Antonio	Espiritu Santo	247	87,000	25-34		29
19	San Antonio	Espiritu Santo	211	352,000	19-32		24
20	San Antonio	Espiritu Santo	211	441,105	25-34		29
22	San Antonio	Espiritu Santo	211	393,056	25-37		30
23	San Antonio	Espiritu Santo	211	285,000	25-38		32
24	San Antonio	Espiritu Santo	211	331,861			25
Jul 03	San Antonio	Espiritu Santo	223	288,590	32-40		36
04	San Antonio	Espiritu Santo	226	179,000	36-45		40
05	San Antonio	Espiritu Santo	237	519,162	25-34		30
06	San Antonio	Espiritu Santo	226	402,334	29-35		32

Table A.4. (Cont'd.).

Date	Bay system	Minor Bay	Grid	No.	Total length (mm)		No. tagged
					Range	Mean	
Jul 07 1984	San Antonio	Espiritu Santo	212	208,175	28-38	33	
08	San Antonio	Espiritu Santo	212	307,365	26-38	32	
10	San Antonio	Espiritu Santo	212	451,901	27-38	33	
12	San Antonio	Espiritu Santo	226	420,566	26-35	30	
13	San Antonio	Espiritu Santo	212	538,942	19-25	22	
14	Lower Laguna Madre	Lower Laguna Madre	87	610,055	11-25	17	
Nov 17	Matagorda	Matagorda	154	287		203	
Jan 07 1985	Corpus Christi	Nueces	20	167,052		31	
08	Corpus Christi	Nueces	20	92,724		27	
May 13	Aransas	Aransas	219	1,825	121-159		
15	Galveston	West	665	464,430	28-34		
16	Galveston	West	620	223,657	28-32		
19	San Antonio	Espiritu Santo	212	137,451	19-39		
20	San Antonio	Espiritu Santo	212	544,546	32-34	28	
21	San Antonio	Espiritu Santo	212	422,715	32-36		
22	San Antonio	Espiritu Santo	212	274,784	32-38		
23	San Antonio	Espiritu Santo	212	203,721	33-43		
Jul 08	San Antonio	Espiritu Santo	227	324,683	32-39		
09	San Antonio	Espiritu Santo	212	301,351	19-38		
10	San Antonio	Espiritu Santo	227	262,900	33-38		
11	San Antonio	Espiritu Santo	268	165,175	32-39		
12	San Antonio	Espiritu Santo	212	185,912	18-51		
13	San Antonio	Espiritu Santo	216	283,993	33-43		
14	San Antonio	Espiritu Santo	213	359,955	18-51		
15	San Antonio	Espiritu Santo	252	417,456	25-38		
16	San Antonio	Espiritu Santo	216	345,699		38	
17	San Antonio	Espiritu Santo	212	302,511		38	
Oct 08	Lower Laguna Madre	Lower Laguna Madre	268	126,540			
08	Aransas	Redfish	328	156,186		25	
09	Aransas	Redfish	328	162,068		25	

Table A.4. (Cont'd.).

Date	Bay system		Minor Bay	Grid	No.	Total length (mm)		No. tagged
	Bay system	Bay				Range	Mean	
Oct 19 1985	Lower Laguna Madre	Lower Laguna Madre	268	673, 940		25		
20	Lower Laguna Madre	Lower Laguna Madre	268	437, 419		25		
29	Aransas	Redfish	328	102, 686		30		
Nov 07	Corpus Christi	Nueces	37	603, 622	15-33	26		
12	Galveston	Christmas	718	936, 923	18-30	29		
Dec 10	Corpus Christi	Nueces	37	259, 270				
May 07 1986	Upper Laguna Madre	Upper Laguna Madre	78	511, 805		21		
08	Upper Laguna Madre	Upper Laguna Madre	110	588, 966		32		
09	Lower Laguna Madre	Lower Laguna Madre	268	301, 522		29		
10	Lower Laguna Madre	Lower Laguna Madre	345	536, 155	27-31	28		
11	Lower Laguna Madre	Lower Laguna Madre	307	262, 152		33		
12	East Matagorda	East Matagorda	98	339, 749	27-34			
19	Galveston	Galveston	618	625, 628	27-32	30		
20	Galveston	Galveston	618	419, 152	28-33	30		
21	Sabine Lake	Sabine Lake	248	226, 061	19-30	26		
22	Sabine Lake	Sabine Lake	248	346, 725	22-27	24		
28	Galveston	Christmas	618	400, 754	26-31			
28	Matagorda	West Matagorda	209	788, 366	26-31			
29	Galveston	Cow Trap Lakes	66	67, 286	20-25			
29	Matagorda	Carancahua	22	368, 333	20-25			
Jul 29	Galveston	Christmas		225, 780		26		
30	Galveston	Christmas		206, 956		38		
30	Galveston	Cow Trap Lakes	66	145, 800		38		
31	Matagorda	Keller	145	162, 830	27-53	40		
Nov 19	East Matagorda	East Matagorda	98		159-305	241		683d

Table A.4. (Cont'd.).

Date	Bay system	Minor Bay	Grid	No.	Total length (mm)		No. tagged
					Range	Mean	
May 14 1987	Lower Laguna	Lower Laguna	348	220,165	19-38	33	
	Madre	Madre					
14	Lower Laguna	Lower Laguna	348	220,175	22-38	33	
	Madre	Madre					
15	Lower Laguna	Lower Laguna	348	283,372	31-42	34	
	Madre	Madre					
18	Lower Laguna	Lower Laguna	348	181,884	28-43	36	
	Madre	Madre					
20	San Antonio	San Antonio	165	502,230	25-33	30	
24	San Antonio	San Antonio	165	291,430	25-33	30	
24	Lower Laguna	Lower Laguna	348	144,423	25-33	28	
	Madre	Madre					
Jun 11	Galveston	Christmas	717	578,309	23-38	28	
17	Matagorda	Matagorda	153	132,000	17-30	25	
23	Galveston	Christmas	717	237,732	15-28	20	
Jul 09	Matagorda	Carancahua	151	125,759	20-39	29	
11	Matagorda	Carancahua	151	289,809	15-45	25	
14	Matagorda	Carancahua	151	248,733	24-39	29	
15	Matagorda	Matagorda	153	2,300	35-73	52	
18	Matagorda	Carancahua	151	127,880	15-45	25	
24	Matagorda	Carancahua	151	69,768	32-36	34	
31	Matagorda	Powderhorn Lake	413	201,487	16-59	25	
Aug 01	East Matagorda	East Matagorda	98	62,102	20-46	30	
14	Galveston	Christmas	717	66,110	18-44	35	
Nov 09	East Matagorda	East Matagorda	98	422	150-250	200	422 ^d
11	Upper Laguna	Upper Laguna	33	250,000	-	6	6
	Madre	Madre					
18	East Matagorda	East Matagorda	98	188,152	17-25	21	
25	Galveston	Moses Lake	451	547,216	-		30
27	Galveston	Jones Lake	539	419,663	-		25
Dec 03	Corpus Christi	Corpus Christi	207	63,377	12-25	19	
04	Corpus Christi	Corpus Christi	207	185,017	15-24	19	
10	Corpus Christi	Corpus Christi	207	57,059	14-20	16	

Table A.4. (Cont'd.).

Date	Bay system		Minor Bay	Grid	No.	Total length (mm)		No. tagged
	Bay	Lake				Range	Mean	
Dec 10 1987	Sabine Lake	Clam Lake		230	309,294	14-20	16	
14	Corpus Christi	Corpus Christi		110	182,117	14-28	21	
Mar 17 1988	Upper Laguna Madre	Upper Laguna Madre		12	4,700		25	
Apr 30	Aransas	Redfish		285	702,050	20-25	22	
May 03	Matagorda	Matagorda		153	60		76	
16	Aransas	Aransas		280	187,980		25	
18	Aransas	Aransas		306	137,998		25	
20	Aransas	Aransas		285	236,059		25	
21	Aransas	Aransas		122	20,310		25	
24	Aransas	Aransas		241	27,062		25	
25	Aransas	Aransas		225	21,000		25	
26	Aransas	Carlos		127	544,416		25	
26	Galveston	Christmas		718	288,258	20-25	22	
27	Galveston	Chocolate		607	239,315	20-27	22	
27	Galveston	Swan Lake		511	288,505	20-27	25	
Jun 02	Galveston	Salt Lake		714	169,174	22-39	35	
03	Galveston	Tabbs		35	240,856	16-33	19	
03	Galveston	Dollar		454	314,562	16-33	19	
08	Matagorda	Matagorda		153	114,400		25	
Jul 19	Galveston	Tabbs		35	31,272	20-42	33	
26	Galveston	West		201	518,334	21-43	33	
Aug 09	Sabine Lake	Clam Lake		230	393,076		22	
26	Sabine Lake	Clam Lake		248	152,628		31	
26	Galveston	Cow Trap		65	47,000	30-40	38	
26	Galveston	Cow Trap		65	87,216	30-35	32	
27	Galveston	Cow Trap		65	136,000		38	
Aug 27 1988	Lower Laguna Madre	Lower Laguna Madre		345	421,756		38	
Sep 09	Lower Laguna Madre	Lower Laguna Madre		31	501,780		30	
23	Lower Laguna Madre	Lower Laguna Madre		31	171,903			

Table A.4. (Cont'd.).

Date	Bay system		Minor Bay	Grid	No.	Total length (mm)		No. tagged
	Bay system	Bay				Range	Mean	
Oct 14	Matagorda	Matagorda	Matagorda	153	20	439-536	476	20
20	Matagorda	Matagorda	Matagorda	153	2,425	70-164	130	
20	Matagorda	Matagorda	Matagorda	153	3,277	83-152	130	
21	Matagorda	Matagorda	Matagorda	153	2,211	89-165	125	
Nov 04	Lower Laguna Madre	Lower Laguna Madre	Lower Laguna Madre	230	411,390		25	
10	Lower Laguna Madre	Lower Laguna Madre	Lower Laguna Madre	282	126,178		23	
10	Upper Laguna Madre	Upper Laguna Madre	Upper Laguna Madre	12	202,125		23	
13	Upper Laguna Madre	Upper Laguna Madre	Upper Laguna Madre	78	365,508		25	
14	Upper Laguna Madre	Upper Laguna Madre	Upper Laguna Madre	33	261,379		25	
18	Upper Laguna Madre	Upper Laguna Madre	Upper Laguna Madre	78	58,398		31	
Nov 29	Upper Laguna Madre	Upper Laguna Madre	Upper Laguna Madre	12	228,000		25	
Dec 02	Upper Laguna Madre	Upper Laguna Madre	Upper Laguna Madre	12	110,162		19	
04	Upper Laguna Madre	Upper Laguna Madre	Upper Laguna Madre	12	12,502		22	
07	Upper Laguna Madre	Upper Laguna Madre	Upper Laguna Madre	12	31,400			

^aMonel jaw tags^bPlastic streamers^cMagnetic tags inserted in nose^dInternal anchor

Table A.5. Date, location, and number of spotted seatrout fry (1-3 days old) stocked into Texas bays by the TPWD.

Date	Bay system	Grid	No.
Jun 23 1984	Matagorda	154	41,000
May 19 1985	Matagorda	154	633,000
27	Matagorda	154	30,600
Jul 27	Matagorda	154	2,100
Jun 01 1986	Matagorda	153	9,000
Jun 29 1987	Matagorda	153	10,000
Jul 27	Matagorda	153	315,000
Apr 01 1988	Matagorda	153	339,000
05	Matagorda	153	149,000
10	Matagorda	153	26,160
13	Matagorda	153	74,000
24	Matagorda	153	8,000
26	Matagorda	153	34,020
28	Matagorda	153	1,200
30	Matagorda	153	77,700
May 01	Matagorda	153	4,800
05	Matagorda	236	16,560
07	Matagorda	236	12,240
Jun 03	Matagorda	41	207,000
07	Matagorda	236	141,000
10	Matagorda	236	254,000
15	Matagorda	236	36,000
17	Matagorda	236	128,000
24	Matagorda	153	202,000
27	Matagorda	236	231,000
29	Matagorda	236	18,000
Jul 11	Matagorda	236	917,000
12	Matagorda	236	541,000
13	Matagorda	236	210,000
15	Matagorda	236	100,000
19	Matagorda	236	524,000
21	Matagorda	236	83,000
22	Matagorda	236	286,000
26	Matagorda	236	147,000
28	Matagorda	236	588,000
29	Matagorda	236	2,487,000
Aug 01	Matagorda	236	460,000
03	Matagorda	236	142,000
05	Matagorda	236	105,000
10	Matagorda	236	1,507,800
12	Matagorda	236	793,800
15	Matagorda	236	31,680
25	Matagorda	236	406,980
26	Matagorda	236	124,000
29	Matagorda	236	96,600
31	Matagorda	236	88,200

Table A.5. (Continued)

Date	Bay system	Grid	No.
Sep 01	Matagorda	236	106,260
05	Matagorda	236	93,800
22	Matagorda	236	312,200
23	Matagorda	236	474,600
27	Matagorda	236	344,400
29	Matagorda	236	214,200
Oct 03	Matagorda	236	304,500
05	Matagorda	236	283,500
19	Matagorda	236	168,000

Table A.6. Date, location, and number of spotted seatrout fingerlings stocked into Texas bays by the TPWD. Blanks indicate no data.

Date	Bay system	Minor Bay	Grid	No.	Total length (mm)	
					Range	Mean
Aug 01 1983	Matagorda	Matagorda	154	50,000	34-41	39
Aug 09 1984	Upper Laguna Madre	Upper Laguna Madre	75	4,438		
Nov 08 1984	Matagorda	Matagorda	154	1,609	35-45	28
Jun 08 1985	Matagorda	Matagorda	154	65,914	22-34	28
16	Matagorda	Matagorda	154	88,114	22-34	27
18	Matagorda	Matagorda	154	17,000	35-45	41
25	Matagorda	Matagorda	154	45,800	30-43	35
26	Matagorda	Matagorda	154	11,272	40-57	47
Aug 21	Matagorda	Matagorda	154	21,388	33-49	43
Jun 24 1986	Matagorda	Turtle	71	89,000	20-43	32
Jul 31	Matagorda	Turtle	71	143,000	23-33	28
Sep 05	Galveston ^a	Cow Trap	66	42,073		
Jun 29 1987	Matagorda	Matagorda	153	98,573	27-48	36
Jun 07 1988	Matagorda	Matagorda	236	98,000	20-25	21
Jul 13	Matagorda	Matagorda	236	110,000	19-26	22
26	Matagorda	Matagorda	236	5,853	18-26	23
Aug 05	Matagorda	Matagorda	236	13,850	14-39	20

^aCedar Lakes (Freeport) area.

Table A.7. Date, location, and number of striped bass fry (3-10 d old) stocked into Texas bays by the TPWD.

Date	Bay system	Minor Bay	Grid	No.
May 04 1983	Galveston	Trinity	62	200,000
09	Galveston	Trinity	123	630,000
Apr 30 1984	Galveston	Trinity	123	800,000
May 03	Galveston	Trinity	123	400,000
14	Galveston	Trinity	123	15,000
Apr 15 1985	Galveston	Trinity	123	800,000
Apr 28	Galveston	Trinity	123	400,000
29	Galveston	Trinity	123	312,500
Apr 15 1986	Galveston	Trinity	123	2,578,241
17	Galveston	Trinity	123	1,317,936
22	Galveston	Trinity	123	896,062
Apr 24 1987	Galveston	Trinity	34	874,348
May 01	Galveston	Trinity	34	551,700
02	Galveston	Trinity	34	1,646,037
03	Galveston	Trinity	34	1,572,000
Apr 21 1988	Galveston	Trinity	34	1,603,950
29	Galveston	Trinity	34	2,100,450
30	Galveston	Trinity	34	760,000

Table A.8. Date, location, and number of striped bass fingerlings stocked into Texas bays by the TPWD. Blanks indicate no data.

Date	Bay system	Minor Bay	Grid	No.	Total length (mm)		No. Tagged
					Range	Mean	
Jun 30 1975	San Antonio	San Antonio	105	55,645		41	
May 20 1976	San Antonio	San Antonio	3	9,910		43	
20	San Antonio	Guadalupe River	3	24,705		43	
20	San Antonio	Guadalupe River	3	69,270		38	
24	San Antonio	Guadalupe River	8	16,934		38	
26	San Antonio	Mustang Lake	151	19,934		36	
May 05 1977	Corpus Christi	Sunset Lake	68	2,970	19-38	34	
05	San Antonio	San Antonio	105	32,400	19-38	34	
10	San Antonio	San Antonio	105	29,502	19-38	34	
10	Sabine Lake	Sabine Lake	113	9,950	19-38	34	
11	San Antonio	San Antonio	105	102,240	19-38	34	
12	San Antonio	San Antonio	105	57,692	19-38	34	
May 25 1983	Matagorda	Swan Lake	18	23,500	23-42	34	
Apr 24 1984	Matagorda	Swan Lake	18	4 ^a	790-915	847	
May 20 1986	Galveston	Trinity	34	62,410			
22	Galveston	Trinity	34	38,000			
Jun 04	Galveston	Trinity	34	70,672			
Apr 02 1987	Galveston	Trinity River	b	2,666	203-356	254	2,666 ^a
Dec 14	Galveston	Trinity River	b	4,181	101-445	201	4,181 ^a
Jun 06 1988	Galveston	Trinity	22	174,530			174,530 ^c
09	Galveston	Trinity	22	138,354	19-32		27,000 ^c
Aug 04	Galveston	Brazos River	37	570	51-254		570 ^d

^aInternal abdominal tags with external streamer.

^bNo grid number available.

^cFish immersed in tetracycline.

^d408 fish tagged with internal abdominal tags; 162 fish immersed in tetracycline.

PWD-RP-3400-258A-8/89

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