

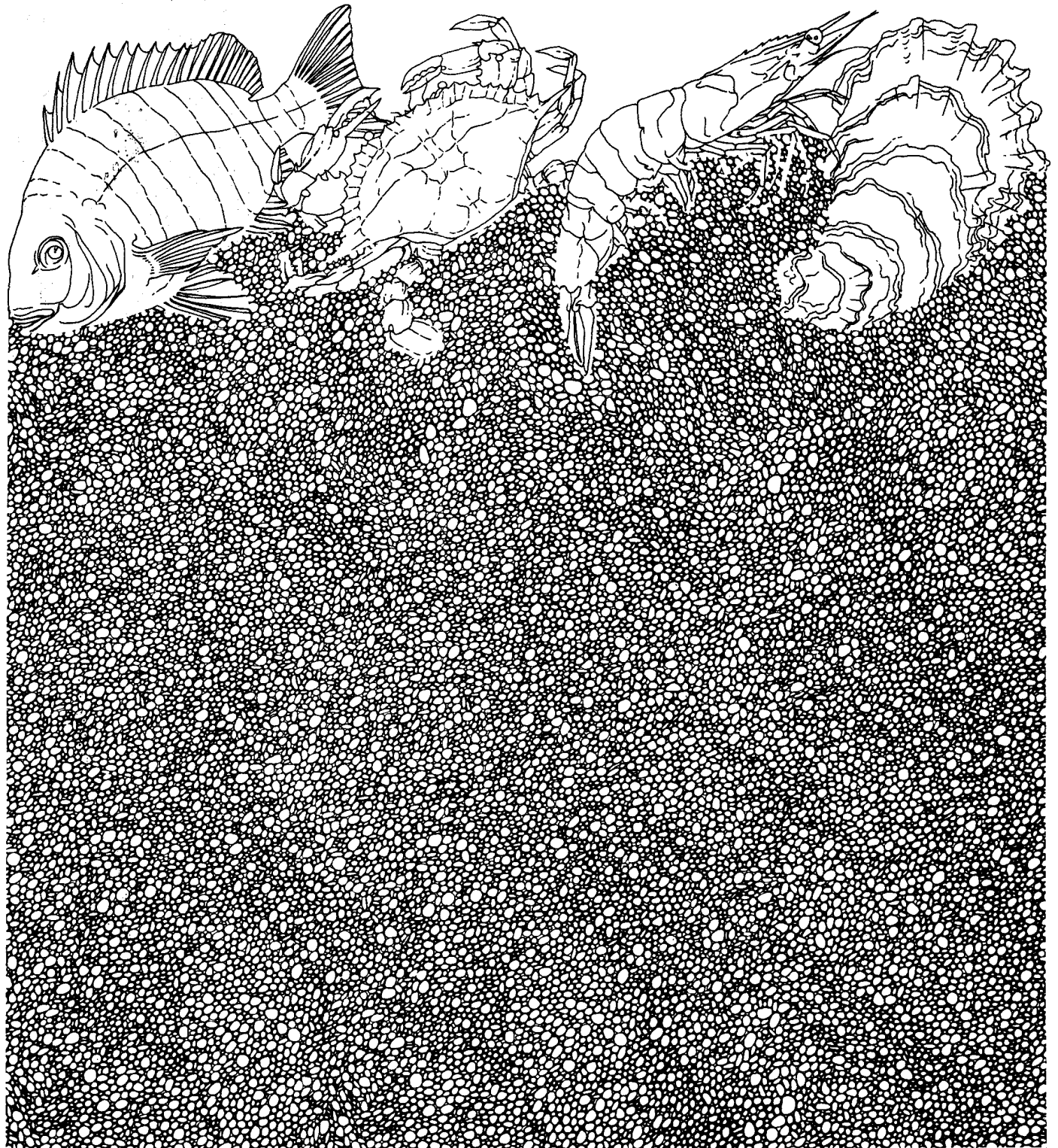
Fish Stocking in Texas Bays: 1975-1987

Paul

by James Daily

Management Data Series Number 147
1988

Texas Parks and Wildlife Department
Coastal Fisheries Branch



FISH STOCKING IN TEXAS BAYS: 1975-1987

by

James Dailey

MANAGEMENT DATA SERIES

No. 147

1988

Texas Parks and Wildlife Department
Coastal Fisheries Branch
4200 Smith School Road
Austin, Texas 78744

ABSTRACT

In 1987, 32,703,162 red drum (Sciaenops ocellatus) eggs, fry and fingerlings were stocked into Texas bays. Matagorda Bay received 325,000 spotted seatrout (Cynoscion nebulosus) fry and 98,573 fingerlings. Galveston Bay received 4,644,085 striped bass (Morone saxatilis) fry and 6,850 tagged 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 speed recovery of overfished stocks (Matlock 1986). This report is a summary of all saltwater stockings that occurred in Texas bays during 1975-1987. Differences in numbers in this report compared to previous versions are due to updating the data base. This report should be considered the most accurate to date. The objective of this report is to update saltwater stocking activities.

MATERIALS AND METHODS

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

RESULTS AND DISCUSSION

A total of 32,703,162 red drum eggs, fry and fingerlings were stocked into all Texas bay systems in 1987 (Tables 1, 2, Appendix A). Four hundred twenty-two red drum (mean size 200 mm TL) were tagged with internal anchor abdominal tags and released into East Matagorda Bay (Appendix A). Galveston Bay was stocked with 4,644,085 striped bass fry (Tables 1 and 3), and two stockings of 6,850 tagged fingerlings (size 254 mm and 201 mm TL) were placed in the Trinity River at its intersection with U.S. Highway 10 (Appendix A). Matagorda Bay received 325,000 and 98,573 spotted seatrout fry and 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. Texas Parks and Wildlife Department, Coastal Fisheries Branch. Management Data Series Number 104. Austin, Texas.

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			
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			42,609								
	Black drum					35,249							35,249
1985	Red drum		1,625,010			4,532,852	422,765	1,122,668	1,237,899				8,941,194
	Striped bass		1,512,500										1,512,500
	Spotted seatrout	915,188			915,188								
	Snook						333						333
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										4,963,321
	Spotted seatrout		42,073		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										4,650,932
	Spotted seatrout				423,573								423,573

Table 1. (Cont'd.).

Year	Bay system										Total
	Sabine Lake	Galveston	East Matagorda	Matagorda	San Antonio	Aranas	Corpus Christi	Upper Laguna Madre	Lower Laguna Madre		
All years											
Red drum	942,080	11,391,275	623,108	21,619,594	25,335,017	29,251,996	29,335,694	3,801,643	3,996,791	130,797,198	
Striped bass	9,950	13,171,753		23,504	480,834		2,970			13,689,011	
Spotted seatrout		43,073		1,672,370							
	1,714,443										
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 1987. Blank indicates none stocked.

Year	Life stage	Bay system											Total						
		Sabine Lake		Galveston		East Matagorda		Matagorda		San Antonio		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre			
1975																			
	Fry																		12,700,000
	Fingerlings	20,000					102,000				17,000								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
	Fry		4,724,500				1,500,000		2,660,000		2,830,000								13,528,500
	Fingerlings						344,000				981,685								1,344,281
1980																			
	Eggs																		6,500,000
	Fry						9,836,000		6,800,000										18,536,000
	Fingerlings										276,540								391,054
1981																			
	Eggs																		1,500,000
	Fry						7,276,000												7,276,000
	Fingerlings										577,500								577,500

Table 2. (Cont'd.).

Year	Life stage	Bay system												Total					
		Sabine		Galveston		East		San		Aransas		Corpus			Upper		Lower		
		Lake	Lake	Matagorda	Matagorda	Antonio	Antonio	Aransas	Aransas	Christi	Christi	Laguna	Laguna		Madre	Madre			
1982	Fingerlings																	280,000	
1983	Fry		1,018,735																1,018,735
	Fingerlings					2,319,065													7,027,521
1984	Fingerlings						287	5,978,940											7,121,558
1985	Fingerlings								4,532,852										8,941,194
1986	Fry																		221,500
	Fingerlings	612,786	2,091,356	340,432	1,319,529														6,564,703
1987	Eggs																		4,306,000
	Fry																		19,275,403
	Fingerlings	309,294	1,849,030	250,676	1,194,936	794,160													6,133,374

Table 2. (Cont'd.).

Year	Bay system											
	Sabine		East		San		Corpus		Upper		Lower	
	Lake	Galveston	Matagorda	Matagorda	Antonio	Aransas	Christi	Laguna	Madre	Laguna	Madre	Total
All years												
Eggs						4,306,000	8,500,000					12,806,000
Fry		5,743,235	18,652,000	11,710,000	22,326,903	14,514,000	1,900,000					74,846,138
Fingerlings	942,080	5,648,040	623,108	2,967,594	13,546,717	2,619,093	6,321,694	1,901,643	3,996,791			38,566,760
Total	942,080	11,391,275	623,108	21,619,594	24,835,017	29,251,996	29,335,694	3,801,643	3,996,791			125,797,198

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
All years Fry		12,993,824				12,993,824
Fingerlings	9,950	177,929	23,504	418,232	2,970	632,585
Total	9,950	13,171,753	23,504	418,232	2,970	13,626,409

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	Galveston	Matagorda	
Life stage	Bay	Bay	Total
1983			
Fingerlings		50,000	50,000
1984			
Fry		41,000	41,000
Fingerlings		1,609	1,609
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
All years			
Fry		1,090,700	1,132,773
Fingerlings	42,073 ^a	581,670	581,670

^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

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	1,000,00
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
Oct 07	Aransas	Aransas	122	66,500
14	Aransas	Aransas	122	88,500
15	Aransas	Aransas	122	190,475

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

Date	Bay system	Minor Bay	Grid	No.
Nov 14 1987	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

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		130 ^b
Nov 16	Aransas	St. Charles	72	50,800	45-55	45	
20	Aransas	St. Charles	72	3,500	45-55	55	1,585 ^c
22	Aransas	St. Charles	72	8,000	45-55	52	1,998 ^c
Dec 06	Aransas	St. Charles	72	1,303	45-55	45	1,303 ^c
Jan 18 1979	Aransas	St. Charles	72	2,856	32-40	37	
Jun 06	Aransas	St. Charles	72	85,000	37-45		
07	Aransas	St. Charles	72	45,000	40-50	44	
08	Aransas	St. Charles	72	92,000	40-50	47	1,345 ^c
11	Aransas	St. Charles	25	291,000	35-40		
12	Aransas	St. Charles	25	358,000	35-40		
13	Aransas	St. Charles	11	83,000	40-55	54	
25	Aransas	St. Charles	72	1,834	64-89	76	1,834 ^c
26	Aransas	St. Charles	72	3,007	64-89	76	3,007 ^c
27	Aransas	St. Charles	72	5,638	64-89	76	5,638 ^c
28	Aransas	St. Charles	72	6,850	64-89	76	6,850 ^c
Jul 05	Aransas	St. Charles	72	7,500	85-107	102	7,500 ^c
24	Upper Laguna Madre	Upper Laguna Madre	78	14,600	38-64	48	

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

Date	Bay system	Minor Bay	Grid	No.	Total length (mm)		No. tagged
					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	25-38		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	Lower Laguna	87	610,055	11-25	17	
	Madre	Madre					
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		28	
21	San Antonio	Espiritu Santo	212	422,715	32-34		
22	San Antonio	Espiritu Santo	212	274,784	32-36		
23	San Antonio	Espiritu Santo	212	203,721	32-38		
Jul 08	San Antonio	Espiritu Santo	227	324,683	33-43		
09	San Antonio	Espiritu Santo	212	301,351	32-39		
10	San Antonio	Espiritu Santo	227	262,900	19-38		
11	San Antonio	Espiritu Santo	268	165,175	33-38		
12	San Antonio	Espiritu Santo	212	185,912	32-39		
13	San Antonio	Espiritu Santo	216	283,993	18-51		
14	San Antonio	Espiritu Santo	213	359,955	33-43		
15	San Antonio	Espiritu Santo	252	417,456	18-51		
16	San Antonio	Espiritu Santo	216	345,699	25-38		
17	San Antonio	Espiritu Santo	212	302,511		38	
Oct 08	Lower Laguna	Lower Laguna	268	126,540		38	
	Madre	Madre					
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
					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		
Dec 10	Corpus Christi	Nueces	37	259,270		29	
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 Madre	Lower Laguna Madre	348	220,165	19-38	33	
14	Lower Laguna Madre	Lower Laguna Madre	348	220,175	22-38	33	
15	Lower Laguna Madre	Lower Laguna Madre	348	283,372	31-42	34	
18	Lower Laguna Madre	Lower Laguna Madre	348	181,884	28-43	36	
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 Madre	Lower Laguna Madre	348	144,423	25-33	28	
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 Madre	Upper Laguna Madre	33	250,000	-	6	
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
					Range	Mean	
Dec 10 1987 14	Sabine Lake	Clam Lake	230	309,294	14-20	16	
	Corpus Christi	Corpus Christi	110	182,117	14-28	21	

^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

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		No.	Total length (mm)	
		Bay	Grid		Range	Mean
Aug 01 1983	Matagorda	Matagorda	154	50,000	34-41	39
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

^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

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 at Hwy 90	b	2,666	203-356	254	2,666 ^a
Dec 14	Galveston	Trinity River at Hwy 90	b	4,181	101-445	201	4,181 ^a

^aInternal abdominal tags with external streamer.

^bNo grid number available.

Dispersal of this publication conforms with Texas State Documents Depository Law, and it is available at Texas State Publications Clearinghouse and Texas Depository Libraries.

PWD-RP-3400-277-9/88