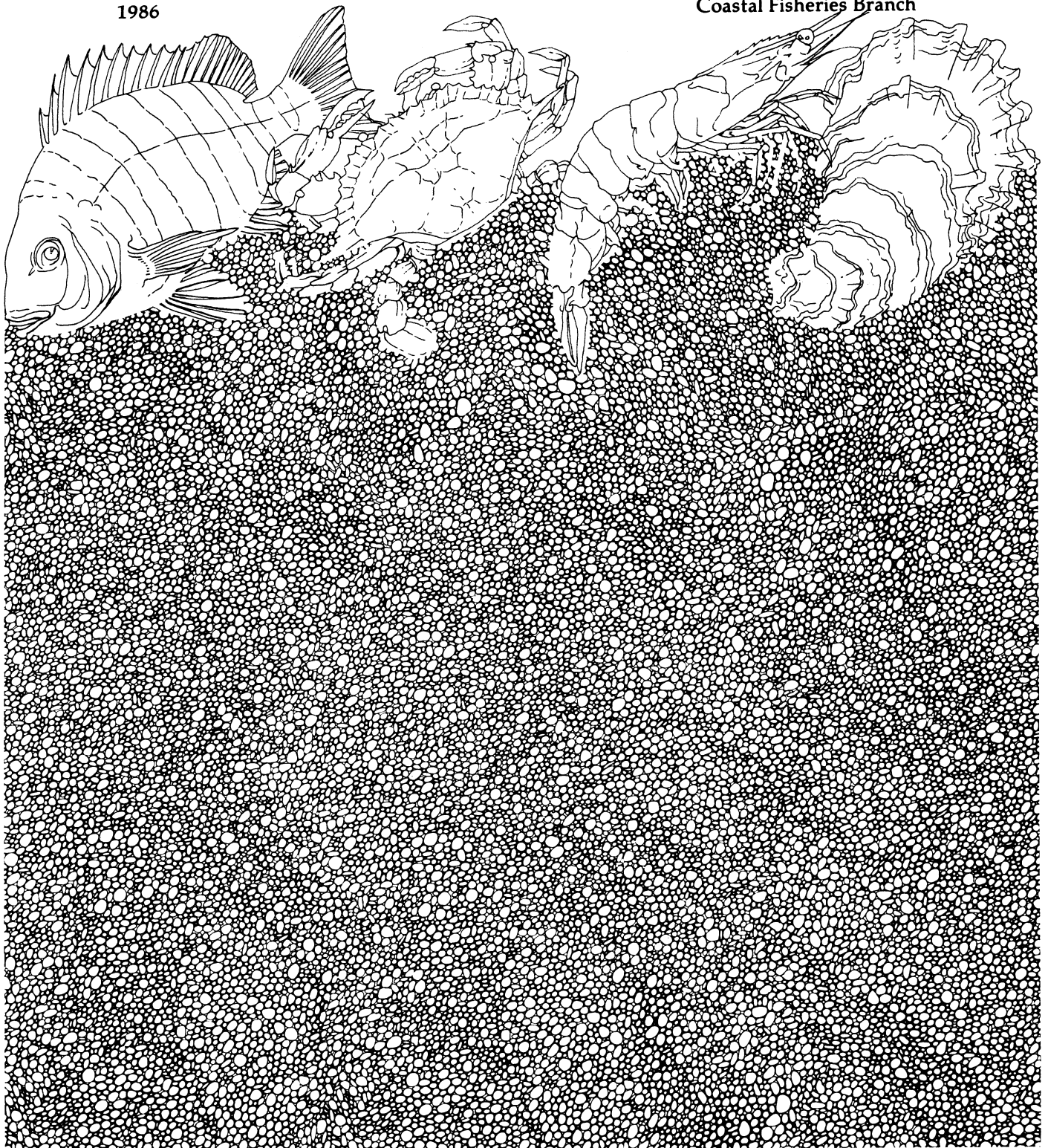


A Summary of 10 Years of Stocking Fishes Into Texas Bays

by Gary C. Matlock

Management Data Series Number 104
1986

Texas Parks and Wildlife Department
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ABSTRACT

Texas bays were stocked with over 94 million fish eggs, fry, and fingerlings from October 1975 through December 1985. Red drum (Sciaenops ocellatus) was the major species released (over 89 million fish). However, striped bass (Morone saxatilis), spotted seatrout (Cynoscion nebulosus), black drum (Pogonias cromis), and snook (Centropomus undecimalis) were also stocked. All stockings were intended to revitalize historic or enhance existing fisheries. At least one species was stocked in each of the nine major bay systems.

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. Most effort has focused on red drum (Sciaenops ocellatus) and striped bass (Morone saxatilis). Over 56 million red drum eggs, fry, and fingerlings were stocked during 1975-1982 (Matlock 1984), and 494,000 striped bass fingerlings were stocked during 1975-1977 (Matlock et al. 1984). Stockings of spotted seatrout (Cynoscion nebulosus) and black drum (Pogonias cromis) have occurred since 1983. The objective of this report is to provide a reference document of stocking activities necessary for evaluating stocking in salt water by updating Matlock (1984).

MATERIALS AND METHODS

Fish reared by TPWD at the Perry R. Bass Marine Fisheries Research Station during experimental culture studies or at the John Wilson Marine Fish Hatchery for stocking purposes were stocked into Texas bays. Data for 1983, 1984, and 1985 were taken directly from TPWD data sheets completed at the time of each stocking and summarized by species, life stage (eggs, fry and fingerlings), calendar year, bay system and stocking site (Appendix A). The total length (mm) range and mean were included for fingerlings, if available. Data for 1975 through 1982 were from Matlock (1984) and Matlock et al. (1984), and corrected by updating the data base. Information on red drum eggs released by Dr. Connie Arnold from The University of Texas Marine Science Institute at Port Aransas, was from Matlock (1984).

RESULTS AND DISCUSSION

Over 94 million fish eggs, fry, and fingerlings were stocked into Texas bays from October 1975 through December 1985. Matagorda, San Antonio, and Corpus Christi Bays each received 20-30 million fish (Table 1). However, at least 1.8 million fish were stocked into remaining bay systems except Sabine Lake and East Matagorda Bay. Red drum was the major species stocked.

Striped bass, spotted seatrout, black drum, and snook (Centropomus undecimalis) were also stocked. Red drum stocked prior to 1983 were mainly fry; fingerlings were almost exclusively stocked thereafter (Table 2). Striped bass fingerlings were stocked to examine the feasibility of establishing a fishery in the San Antonio and Corpus Christi Bay systems in the 1970's (Table 3). Matlock et al. (1984) concluded this effort was unsuccessful for unknown reasons. A 5-year stocking program was initiated in 1983 to re-establish the striped bass fishery in the Galveston Bay system using fry. About 1,000,000 fry have been stocked each year (Table 3). Over 1 million spotted seatrout fry and fingerlings have also been stocked in the Matagorda Bay System since 1983 (Table 4). All spotted seatrout produced during spawning and culture experiments at the Perry R. Bass Marine Fisheries Research Station and were placed into Matagorda Bay. Black drum fingerlings reared at the same station as part of a hybrid study were placed into the San

Antonio Bay system on 8 May 1984 (31,000 fish; 25-38 mm) and into the Matagorda Bay system on 17 November 1984 (4,249 fish; 150 mm).

On 29 October 1985, 261 tagged snook fingerlings (90-109 mm) were stocked into the Aransas Bay system in Port Bay. These fish were obtained as eggs from the Florida Department of Natural Resources, reared in earth ponds at the Perry R. Bass Marine Fisheries Research Station, and tagged with internal abdominal tags with external streamers before release. Few, if any, of these fish survived stocking. Handling mortality was extremely high; 1282 of 1615 fish died during transport to the stocking site. Twenty-five fish were held in each of four cages at the stocking site for 48 hours. Survival after 24 hours was 48, 52, 60, and 84%, but by 48 hours survival was 24, 36, 24, and 28%, respectively. No snook were captured in bag seines pulled at the stocking sites and two nearby sites (within 800 m) on 5 and 19 November and 3 December 1985.

LITERATURE CITED

- Matlock, G. C., B. T. Hysmith, and R. L. Colura. 1984. Evaluation of an initial striped bass stocking program in Texas bays. Tex. Parks Wildl. Dep., Coast. Fish. Branch, Mngmnt. Data Ser. No. 56. 10 p.
- Matlock, G. C. 1984. A summary of 7 years of stocking Texas bays with red drum. Tex. Parks Wildl. Dep., Coast. Fish. Branch, Mngmnt. Data Ser. No. 60. 14 p.

Table 1. Number of each species stocked into Texas bays each year from October 1975 through December 1985. Blank indicates none stocked.

Year	Species	Sabine Lake		East Matagorda		San Antonio		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre		Total
		Lake	Galveston	Matagorda	Matagorda	Antonio	Aransas	Christi	Laguna	Madre	Laguna	Madre		
1975	Red drum	20,000		102,000		56,000	17,000	12,703,000						12,842,000
	Striped bass													56,000
1976	Red drum			6,842										6,842
	Striped bass					203,000								203,000
1977	Striped bass	9,950				221,834		2,970						234,754
1978	Red drum		130	40,000		2,250,000	63,603							23,537,333
1979	Red drum		4,724,500	1,844,000		2,160,000	3,811,685	2,314,000	18,596					14,872,781
1980	Red drum		82,514	32,000		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		900,000	23,500										923,500
	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											1,215,000
	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		1,500,000											1,500,000
	Spotted seatrout			915,188										915,188
	Snook						333							333
All years	Red drum	20,000	7,450,889	19,105,129	32,000	24,040,857	5,449,093	28,848,124	2,450,872	1,847,954				89,244,918
	Striped bass	9,950	3,615,000	23,500		480,834		2,970						4,132,254
	Spotted seatrout			1,007,797										1,007,797
	Black drum			35,249										35,249
	Snook						333							333

Table 2. Number of red drum eggs, fry, and fingerlings placed in each Texas bay system in each calendar year from October 1975 through December 1985. Blank indicates none stocked.

Year	Life stage	Bay system											Total						
		Sabine Lake		East Matagorda		San Antonio		Aransas		Corpus Christi		Upper Laguna Madre		Lower Laguna Madre					
1975	Fry																		12,700,000
	Fingerlings	20,000			102,000				17,000					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		2,160,000	2,830,000		1,814,000									13,028,500
	Fingerlings				344,000			981,685					18,596						1,344,281
1980	Eggs													6,500,000					6,500,000
	Fry				9,836,000		6,800,000						1,900,000						18,536,000
	Fingerlings			82,514	32,000			276,540											391,054
1981	Eggs													1,500,000					1,500,000
	Fry																		7,276,000
	Fingerlings				7,276,000			577,500											577,500
1982	Fingerlings							280,000											280,000
1983	Fry			1,018,735															1,018,735
	Fingerlings						2,319,065			4,708,456									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										8,941,194
All years	Eggs																		8,500,000
	Fry			5,743,235	18,652,000		11,210,000	2,830,000	14,514,000										54,849,235
	Fingerlings	20,000		1,707,654	453,129		12,830,857	2,619,093	5,834,124	550,872				1,847,954					25,895,683
	Total	20,000		7,450,889	19,105,129		24,040,857	5,449,093	28,848,124	2,450,872				1,847,954					89,244,918

Table 3. Number of striped bass fry and fingerlings placed in each Texas bay system in each calendar year from October 1975 through December 1985. Blank indicates none stocked.

Year	Life stage	Bay system				Total	
		Sabine Lake	Galveston	Matagorda	San Antonio		Corpus Christi
1975	Fingerlings				56,000	56,000	
1976	Fingerlings				203,000	203,000	
1977	Fingerlings	9,950			221,834	2,970	
1983	Fry		900,00			900,000	
	Fingerlings			23,500		23,500	
1984	Fry		1,215,000			1,215,000	
1985	Fry		1,500,000				
All years	Fry		3,615,000			3,615,000	
	Fingerlings	9,950		23,500	480,834	2,970	517,254
	Total	9,950	3,615,000	23,500	480,834	2,970	4,132,254

Table 4. Number of spotted seatrout fry and fingerlings placed in Matagorda Bay in each calendar year from October 1975 through December 1985. Blank indicates none stocked.

Year	Life stage	Number stocked
1983	Fingerlings	50,000
1984	Fry	41,000
	Fingerlings	1,609
1985	Fry	665,700
	Fingerlings	249,488
All years	Fry	756,700
	Fingerlings	251,097
	Total	1,007,797

Appendix A. Fish stocking dates and sites.

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

Date	Site	Number
10-08-79	Redfish Bay, Harbor Island Corpus Christi Channel, near Port	500,000
09-26-80	Aransas Airport Corpus Christi Channel, near Port	500,000
10-05-80	Aransas Airport	500,000
10-13-80	Corpus Christi Channel at U.T. Lab	500,000
10-16-80	Caster's Cut	500,000
10-19-80	Corpus Christi Channel at U.T. Lab	500,000
10-23-80	Corpus Christi Channel at U.T. Lab	500,000
10-24-80	Caster's Cut	500,000
10-25-80	Ponds-Charlie's Pasture	500,000
10-26-80	Ponds-Charlie's Pasture	500,000
10-27-80	Corpus Christi Channel at U.T. Lab	500,000
11-03-80	Caster's Cut	500,000
11-09-80	Corpus Christi Channel at U.T. Lab	500,000
11-12-80	Corpus Christi Channel at U.T. Lab	500,000
09-03-81	Pond near Port Aransas Airport	500,000
09-05-81	Corpus Christi Channel at U.T. Lab	500,000
09-15-81	Corpus Christi Channel at U.T. Lab	500,000

Table A.2. Date, location, and number of red drum fry (1-3 days old) placed in Texas bays by Texas Parks and Wildlife Department.

Date	Bay system	Bay	Site	Number
08-25-75	Corpus Christi	Redfish	Harbor Island	1,200,000
09-29-75	Corpus Christi	Corpus Christi	Mustang Island	1,000,000
10-03-75	Corpus Christi	Corpus Christi	Mustang Island	500,000
11-09-75	Corpus Christi	Redfish	Harbor Island	10,000,000
11-10-78	San Antonio	Espiritu Santo		2,250,000
11-13-78	Matagorda	Tres Palacios	Turtle Bay	20,000
11-16-78	Matagorda	Tres Palacios	Turtle Bay	20,000
05-11-79	Galveston	West	Christmas Bay	540,000
05-12-79	Galveston	West	Christmas Bay	696,500
05-13-79	Galveston	West	Christmas Bay	1,100,000
05-14-79	Galveston	West	Christmas Bay	597,000
05-15-79	Galveston	West	Christmas Bay	891,000
05-18-79	Galveston	West	Christmas Bay	400,000
05-19-79	Galveston	West	Christmas Bay	500,000
07-14-79	Corpus Christi	Corpus Christi	Shamrock Cove	914,000
07-21-79	Corpus Christi	Corpus Christi	Shamrock Cove	900,000
08-20-79	San Antonio	Espiritu Santo	Pringle Lake	300,000
08-23-79	San Antonio	Espiritu Santo		300,000
08-26-79	San Antonio	Espiritu Santo	Pringle Lake	300,000
08-28-79	Aransas	Redfish		100,000
08-30-79	San Antonio	Espiritu Santo	Pringle Lake	900,000
09-04-79	San Antonio	Espiritu Santo	Pringle Lake	360,000
09-13-79	Aransas	Redfish		80,000
10-06-79	Aransas	Redfish		800,000
10-10-79	Aransas	Redfish		1,350,000
10-12-79	Aransas	Redfish		500,000
10-18-79	Matagorda	Carancahua	Redfish Lake	1,500,000
07-15-80	Matagorda	Carancahua	Redfish Lake	1,600,000
07-16-80	Matagorda	Carancahua		700,000
07-17-80	Matagorda	Carancahua	Redfish Lake	780,000
07-18-80	Matagorda	Carancahua	Redfish Lake	400,000
07-19-80	Matagorda	Carancahua	Redfish Lake	600,000
07-20-80	Matagorda	Carancahua	Redfish Lake	470,000
07-24-80	Matagorda	Carancahua	Redfish Lake	300,000
08-06-80	Matagorda	Carancahua	Redfish Lake	186,000
08-27-80	San Antonio	San Antonio	Swan Point	1,700,000
08-28-80	San Antonio	San Antonio	Swan Point	1,300,000
08-29-80	San Antonio	Barroom		2,200,000
08-31-80	San Antonio	Barroom		1,600,000
09-10-80	Upper Laguna Madre	Upper Laguna Madre	Padre Island between North and South Bird Islands	500,000
09-14-80	Upper Laguna Madre	Upper Laguna Madre	South of John F. Kennedy Causeway	600,000
09-15-80	Upper Laguna Madre	Upper Laguna Madre		500,000

Table A.2. (Cont'd.)

Date	Bay system	Bay	Site	Number
09-21-80	Upper Laguna Madre	Upper Laguna Madre		300,000
10-07-80	Matagorda	Matagorda	Well's Point	1,000,000
10-28-80	Matagorda	Tres Palacios	Turtle Bay at Bridge	1,300,000
10-30-80	Matagorda	Matagorda	Well's Point	300,000
10-31-80	Matagorda	Matagorda	Well's Point	700,000
03-13-81	Matagorda	Matagorda	Well's Point	772,000
03-14-81	Matagorda	Matagorda	Well's Point	804,000
03-17-81	Matagorda	Matagorda	Well's Point	1,700,000
03-20-81	Matagorda	Matagorda	Well's Point	700,000
03-22-81	Matagorda	Matagorda	Well's Point	1,400,000
03-24-81	Matagorda	Matagorda	Well's Point	1,900,000
08-08-83	Galveston	West	Sportsmen's Road	1,018,735

Table A.3. Date, location, and number of red drum fingerlings placed in Texas bays (blank indicates no data). All tagged fish had magnetic tags inserted into the snout except those tagged in April 1976 which received monel jaw tags and those in April 1978 which received plastic streamers.

Date	Bay system		Bay	Site	Number	Total length (mm) Range	Mean	No. tagged
10-02-75	Sabine Lake	Sabine Lake		South Impoundment at Ship Channel	20,000		31	
10-02-75	Matagorda	Matagorda		Oyster Lake	10,000		31	
10-02-75	Matagorda	Turtle		Turtle Bayou	40,000		31	
10-02-75	Matagorda	Tres Palacios		Grassy Point	5,000		31	
10-02-75	Matagorda	Tres Palacios		Collegeport	5,000		31	
10-02-75	Aransas	Copano		Italian Bend	17,000		31	
10-02-75	Corpus Christi	Nueces		Sunset Lake	3,000		31	
10-08-75	Matagorda	Lavaca		Swan Lake	42,000		33	
04-28-76	Matagorda	Matagorda		Well's Point	6,842	102-203	152	5,942
04-25-78	Galveston	West		Jenkins Bayou	130	152-203	45	130
11-16-78	Aransas	St. Charles		Big Tree	50,800	45-55	55	1,585
11-20-78	Aransas	St. Charles		Big Tree	3,500	45-55	52	1,998
11-22-78	Aransas	St. Charles		Big Tree	8,000	45-55	45	1,303
12-06-78	Aransas	St. Charles		Big Tree	1,303	45-55	45	1,303
01-17-79	Aransas	St. Charles		Big Tree	2,856	32-40	37	
06-06-79	Aransas	St. Charles		Big Tree	85,000	37-45	44	
06-07-79	Aransas	St. Charles		Big Tree	45,000	40-50	47	1,345
06-08-79	Aransas	St. Charles		Big Tree	92,000	40-50		
06-11-79	Aransas	St. Charles		Little Devil Bayou	291,000	35-40		
06-12-79	Aransas	St. Charles		Little Devil Bayou	358,000	35-40		
06-13-79	Aransas	St. Charles		Cavasso Creek	83,000	40-55	54	1,834
06-25-79	Aransas	St. Charles		Big Tree	1,834	64-89	76	3,007
06-26-79	Aransas	St. Charles		Big Tree	3,007	64-89	76	5,638
06-27-79	Aransas	St. Charles		Big Tree	5,638	64-89	76	6,850
06-28-79	Aransas	St. Charles		Big Tree	6,850	64-89	76	7,500
07-05-79	Aransas	St. Charles		Big Tree	7,500	85-107	102	
07-24-79	Upper Laguna Madre	Upper Laguna Madre		Padre Island, between North and South Bird Islands	14,600	38-64	48	
08-16-79	Upper Laguna Madre	Upper Laguna Madre		Padre Island, between North and South Bird Islands	3,996	45-55		
10-23-79	Matagorda	Matagorda		Oyster Lake	34,000	39-45	43	

Table A.3. (Cont'd.)

Date	Bay system	Bay	Site	Number	Total length (mm) Range	Mean	No. tagged
10-25-79	Matagorda	Matagorda	Oyster Lake	25,000	40-55	44	
10-30-79	Matagorda	Turtle	Jensen Point	69,000	32-44	43	
11-01-79	Matagorda	Turtle	Jensen Point	53,000	32-44	42	
11-05-79	Matagorda	Turtle	Jensen Point	11,000	32-38		
11-06-79	Matagorda	Keller	Keller Creek	142,000	25-32	30	
11-07-79	Matagorda	Turtle	Jensen Point	10,000	25-32	32	
07-17-80	Galveston	Jones Lake	Highland Bayou Boat Ramp	46,000	35-45	40	
08-04-80	Aransas	St. Charles	Little Devil Bayou	18,940	30-55	32	
08-05-80	Aransas	St. Charles	Little Devil Bayou	40,100	40-50	43	3,974
08-06-80	Aransas	St. Charles	Little Devil Bayou	52,100	30-50	43	1,422
08-07-80	Aransas	St. Charles	Little Devil Bayou	45,000	45-55	43	6,666
08-07-80	Aransas	St. Charles	Little Devil Bayou	102,000	30-35	32	
08-26-80	Galveston	Galveston	Moses Lake	10,714	57-72	66	
08-27-80	Aransas	St. Charles	Little Devil Bayou	9,100	57-72	66	
09-02-80	Aransas	St. Charles	Little Devil Bayou	9,300	35-75	58	
09-23-80	East Matagorda	East Matagorda	St. Mary's Bayou	32,000	38-44	41	
09-24-80	Galveston	West	State Park	12,000	35-45	40	
09-25-80	Galveston	West	Christmas Bay	8,000	45-55	48	
09-26-80	Galveston	West	Christmas Bay	5,800	45-55	50	
05-11-81	Aransas	St. Charles	Little Devil Bayou	577,500	25-32		
10-21-82	Aransas	St. Charles		280,000	25-28	27	
05-17-83	San Antonio	Espiritu Santo	Blackberry Island	306,019	16-32		
05-18-83	San Antonio	Espiritu Santo	Welder Flats	392,626	16-32		
05-19-83	San Antonio	Espiritu Santo	Blackberry Island	373,487	20-33		
05-24-83	San Antonio	Espiritu Santo	Blackberry Island	283,926	19-29		
05-25-83	San Antonio	Espiritu Santo	Blackberry Island	179,785	19-29		
05-26-83	San Antonio	Espiritu Santo	Welder Flats	286,901	20-33		
05-27-83	San Antonio	Espiritu Santo	Blackberry Island	496,321	18-33		
09-07-83	Corpus Christi	Nueces	Near Portland	320,224	29-55		
09-08-83	Corpus Christi	Nueces	White Point	131,059	44-52		
09-09-83	Corpus Christi	Nueces	Near Portland	354,762	19-51		
09-10-83	Corpus Christi	Nueces	White Point	410,827	19-51		
09-11-83	Corpus Christi	Nueces	Near Portland	353,202	19-34		

Table A.3. (Cont'd.)

Date	Bay system	Bay	Site	Number	Range	Total length (mm)		No. tagged
						Mean	Mean	
09-12-83	Corpus Christi	Nueces	White Point	73,030	19-83			
09-13-83	Corpus Christi	Nueces	White Point	204,527	19-76			
11-09-83	Corpus Christi	Nueces	White Point	717,112	28-32			
11-10-83	Corpus Christi	Nueces	Near Portland	94,056	29-34			
11-12-83	Corpus Christi	Nueces	Mid-North shore	292,500	19-29			
11-12-83	Corpus Christi	Nueces	East end of Causeway	527,716	25-34			
11-13-83	Corpus Christi	Nueces	Near Portland	359,200	30-32			
11-14-83	Corpus Christi	Nueces	White Point	536,153	25-28			
11-16-83	Corpus Christi	Nueces	White Point	339,088	19-25			
05-08-84	San Antonio	Espiritu Santo	Welder Flats	37,000	25-38			
05-15-84	Upper Laguna Madre	Upper Laguna Madre	Central Power & Light Barney Davis Intake Canal	532,276	38-44		31	
05-15-84	San Antonio	Espiritu Santo	Blackberry Island	258,817	25-34		29	
05-16-84	San Antonio	Espiritu Santo	Dewberry Island	181,510	25-37		30	
05-17-84	San Antonio	Espiritu Santo	Blackberry Island	295,556	25-32		28	
05-18-84	San Antonio	Espiritu Santo	Long Island	87,000	25-34		29	
05-19-84	San Antonio	Espiritu Santo	Blackberry Island	352,000	19-32		24	
05-20-84	San Antonio	Espiritu Santo	Blackberry Island	441,105	25-34		29	
05-22-84	San Antonio	Espiritu Santo	Blackberry Island	393,056	25-37		30	
05-23-84	San Antonio	Espiritu Santo	Blackberry Island	285,000	25-38		32	
05-24-84	San Antonio	Espiritu Santo	Blackberry Island	331,861			25	
07-03-84	San Antonio	Espiritu Santo	Dewberry Island	288,590	32-40		36	
07-04-84	San Antonio	Espiritu Santo	Bayoucou Point	179,000	36-45		40	
07-05-84	San Antonio	Espiritu Santo	Grass Island	519,162	25-34		30	
07-06-84	San Antonio	Espiritu Santo	Bayoucou Point	402,334	29-35		32	
07-07-84	San Antonio	Espiritu Santo	Barroom Bay	208,175	28-38		33	
07-08-84	San Antonio	Espiritu Santo	Barroom Bay	307,365	26-38		32	
07-10-84	San Antonio	Espiritu Santo	Barroom Bay	451,901	27-38		33	
07-12-84	San Antonio	Espiritu Santo	Bayoucou Point	420,566	26-35		30	
07-13-84	San Antonio	Espiritu Santo	Barroom Bay	538,942	19-25		22	
07-14-84	Lower Laguna Madre	Lower Laguna Madre	Port Mansfield	610,055	11-25		17	
11-17-84	Matagorda	Matagorda	Well's Point	287			203	
01-07-85	Corpus Christi	Nueces	White Point	167,052			31	
01-08-85	Corpus Christi	Nueces	White Point	92,724			27	

Table A.3 (Cont'd.)

Date	Bay system	Bay	Site	Number	Total length (mm) Range	Mean	No. tagged
05-13-85	Aransas	Aransas	Fulton Beach	1,825	121-159		
05-15-85	Galveston	West	Sea Isle Development	464,430	28-34		
05-16-85	Galveston	West	Oak Bayou	223,657	28-32		
05-19-85	San Antonio	Espiritu Santo	Barroom Bay	137,451	19-39		
05-20-85	San Antonio	Espiritu Santo	Barroom Bay	544,546		28	
05-21-85	San Antonio	Espiritu Santo	Barroom Bay	422,715	32-34		
05-22-85	San Antonio	Espiritu Santo	Barroom Bay	274,784	32-36		
05-23-85	San Antonio	Espiritu Santo	Barroom Bay	203,721	32-38		
07-08-85	San Antonio	Espiritu Santo	Bayoucus Island	324,683	33-43		
07-09-85	San Antonio	Espiritu Santo	Barroom Bay	301,351	32-39		
07-10-85	San Antonio	Espiritu Santo	Bayoucus Island	262,900	19-38		
07-11-85	San Antonio	Espiritu Santo	Lighthouse Cove	165,175	33-38		
07-12-85	San Antonio	Espiritu Santo	Barroom Bay	185,912	32-39		
07-13-85	San Antonio	Espiritu Santo	Blackberry Island	283,993	18-51		
07-14-85	San Antonio	Espiritu Santo	Big Bayou	359,955	33-43		
07-15-85	San Antonio	Espiritu Santo	Grass Island	417,456	18-51		
07-16-86	San Antonio	Espiritu Santo	Big Bayou	345,699	25-38		
07-17-85	San Antonio	Espiritu Santo	Barroom Bay	302,511		38	
10-08-85	Lower Laguna Madre		Stover Point	126,540		38	
10-08-85	Aransas	Redfish	Aransas Pass Causeway	156,186		25	
10-09-85	Aransas	Redfish	Aransas Pass Causeway	162,068		25	
10-19-85	Lower Laguna Madre		Stover Point	673,940		25	
10-20-85	Lower Laguna Madre		Stover Point	437,419		25	
10-29-85	Aransas	Redfish	Aransas Pass Causeway	102,686		30	
11-07-85	Corpus Christi	Nueces	Nueces Bay Causeway	603,622	15-33		
11-12-85	Galveston	Christmas	South shore	936,923	18-30		
12-10-85	Corpus Christi	Nueces	Nueces Bay Causeway	259,270		29	

Table A.4. Date, location, and number of spotted seatrout fry (1-3 days old) placed in Texas bays by the Texas Parks and Wildlife Department.

Date	Bay system	Bay	Site	Number
06-23-84	Matagorda	Matagorda	Well's Point	41,000
05-19-85	Matagorda	Matagorda	Well's Point	633,00
05-27-85	Matagorda	Matagorda	Well's Point	30,600
07-27-85	Matagorda	Matagorda	Well's Point	2,100

Table A.5. Site and number of spotted seatrout fingerlings placed in Texas bays by the Texas Parks and Wildlife Department.

Date	Bay system	Bay	Site	Number stocked	Total length (mm)	
					Range	Mean
08-01-83	Matagorda	Matagorda	Well's Point	50,000	34-41	39
11-08-84	Matagorda	Matagorda	Well's Point	1,609	35-45	28
06-08-85	Matagorda	Matagorda	Well's Point	65,914	22-34	28
06-16-85	Matagorda	Matagorda	Well's Point	88,114	22-34	27
06-18-85	Matagorda	Matagorda	Well's Point	17,000	35-45	41
06-25-85	Matagorda	Matagorda	Well's Point	45,800	30-43	35
06-26-85	Matagorda	Matagorda	Well's Point	11,272	40-57	47
08-21-85	Matagorda	Matagorda	Well's Point	21,388	33-49	43

Table A.6. Date, location, and number of striped bass fry (3-10 days old) placed in Texas bays by the Texas Parks and Wildlife Department.

Date	Bay system	Bay	Site	Number
05-04-83	Galveston	Trinity	Near Marker 1, Anahuac Channel	200,000
05-09-83	Galveston	Trinity	Double Bayou	700,000
04-30-84	Galveston	Trinity	Double Bayou	800,000
05-03-84	Galveston	Trinity	Double Bayou	400,000
05-14-84	Galveston	Trinity	Double Bayou	15,000
04-15-84	Galveston	Trinity	Double Bayou	800,000
04-28-85	Galveston	Trinity	Double Bayou	387,500
04-29-85	Galveston	Trinity	Anahuac Park	312,500

Table A.7. Date, location, and number of striped bass fingerlings placed in Texas bays by the Texas Parks and Wildlife Department.

Date	Bay system	Site	Number stocked	Total length (mm)	
				Range	Mean
06-30-75	San Antonio	Middle of bay	56,000		41
05-20-76	San Antonio	Goff Bayou	10,000		43
05-20-76	San Antonio	Guadalupe River	23,000		43
05-20-76	San Antonio	Guadalupe River	71,000		38
05-24-76	San Antonio	Swan Point	1,000		38
05-24-76	San Antonio	Intracoastal Waterway	7,000		38
05-24-76	San Antonio	Middle of bay	9,000		38
05-26-76	San Antonio	Mustang Lake	20,000		36
05-05-77	Corpus Christi	Sunset Lake	3,000	19-38	34
05-10-77	Sabine Lake	South impoundment	10,000	19-38	34
05-10-77	San Antonio	Middle of bay	30,000	19-38	34
05-04-77	San Antonio	Middle of bay	102,000	18-38	34
05-12-77	San Antonio	Middle of bay	50,000	19-38	34
05-25-83	Matagorda	Swan Lake	23,500	23-42	34
04-24-84	Matagorda	Swan Lake North	4 ^a	790-915	847

^a Tagged with internal abdominal tags with external streamer; tag numbers: F28023, F28024, F28025, F28026

