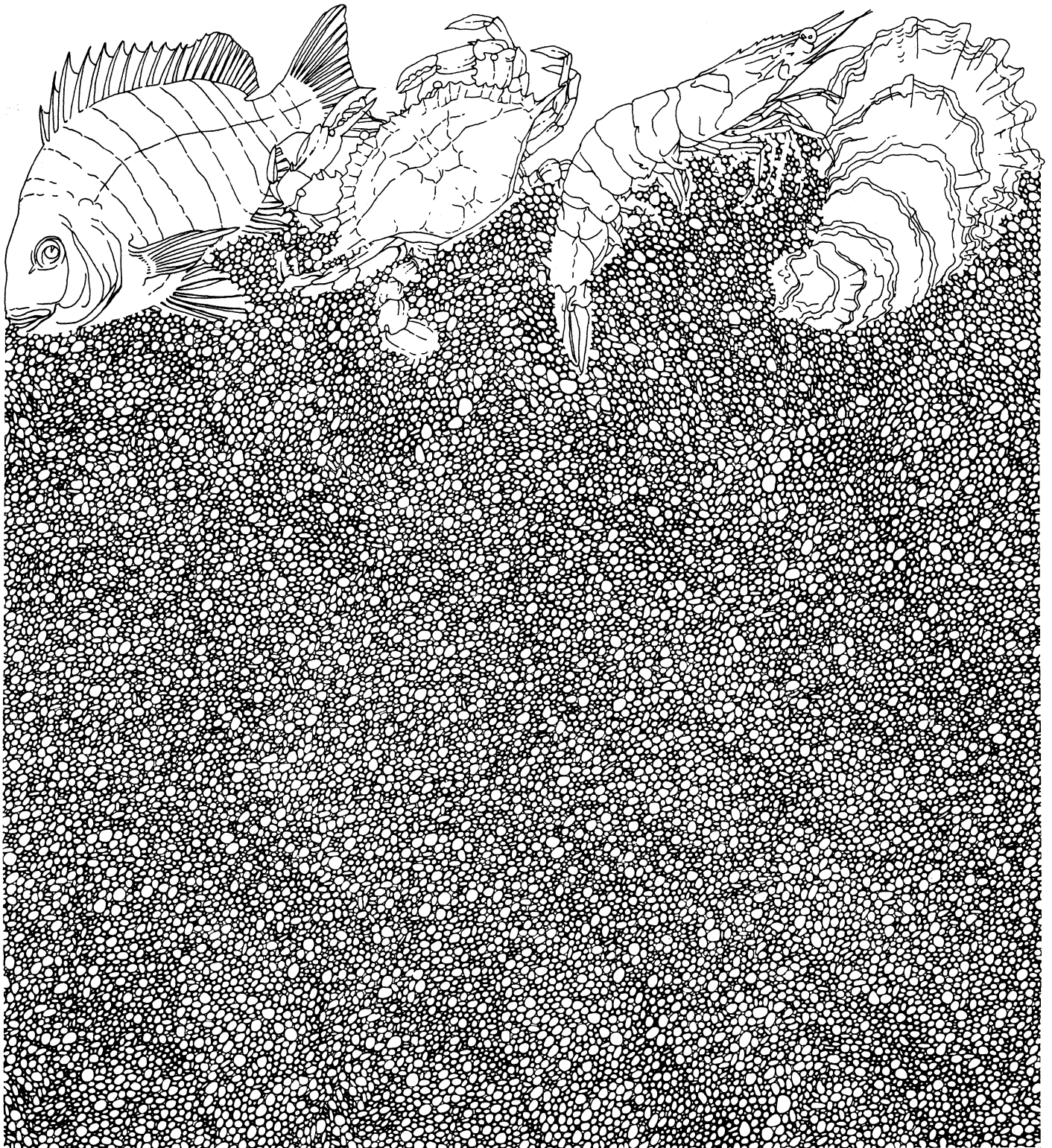


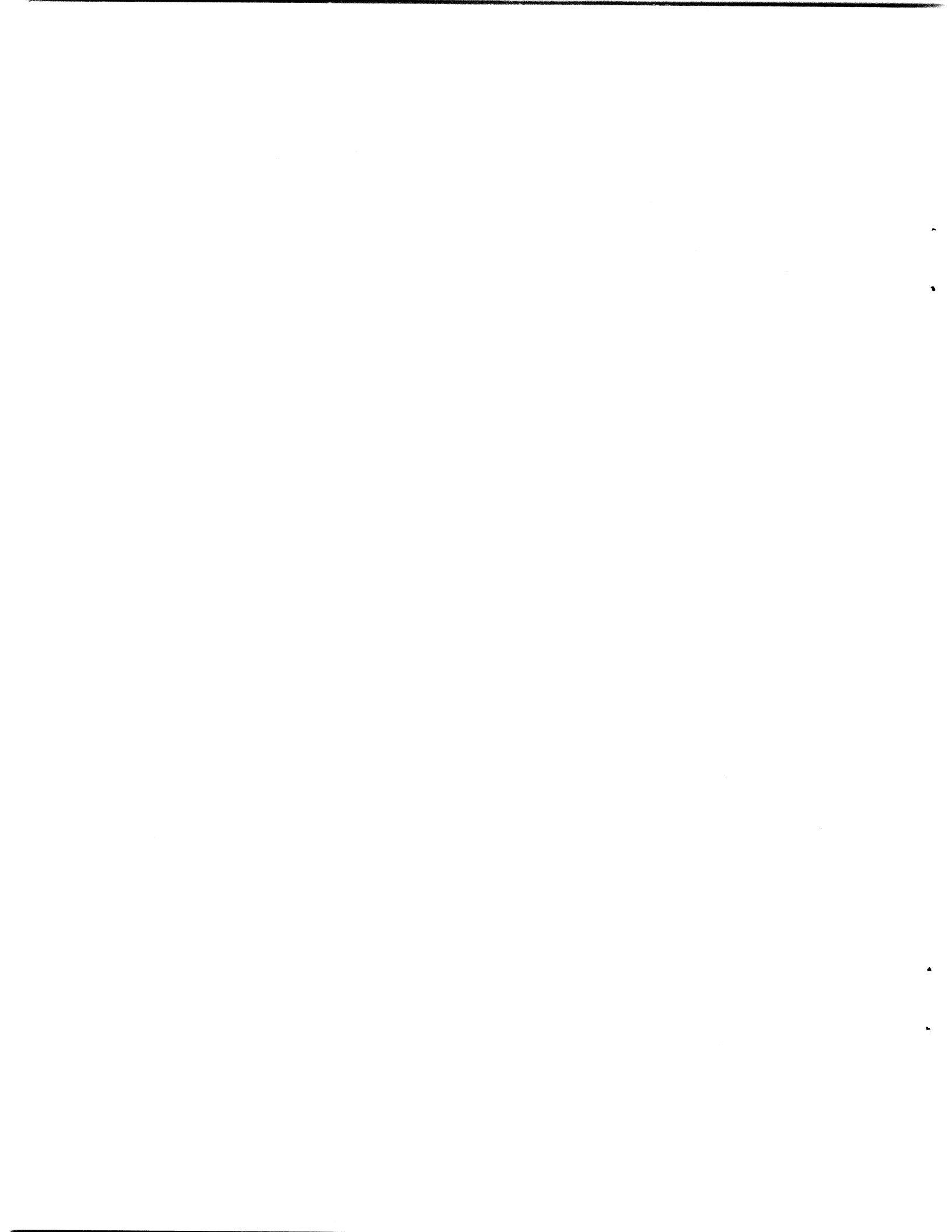
# Effect of Setting Method on Gill Net Catches

by Gary C. Matlock and Albert W. Green

Management Data Series Number 81  
1985

Texas Parks and Wildlife Department  
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## ABSTRACT

The Texas Parks and Wildlife Department's finfish monitoring program involves setting gill nets with the smallest mesh (7.6 cm or 3 inches) always nearest shore. This study compares the number of fishes caught in each of four mesh sizes when nets were set with the smallest mesh near shore versus when the nets were set with the largest mesh near shore. Two nets were fished overnight about 3.2 km (2 miles) apart in each of seven bays in January 1976 and March 1977. Catches of each of 24 species except red drum (Sciaenops ocellatus) in each mesh were similar regardless of setting method. Red drum catches were higher in the two largest meshes, lower in the smallest mesh, and similar in the 10.2-cm (4-inch) mesh when nets were reversed. Reversing the set position of meshes gill nets is not necessary. Changes in relative abundance of all species should be detectable with the current methods.

## INTRODUCTION

Fisheries management within the concept of optimum yield is best achieved when fishery-independent data are available for stock assessments (Radovich 1975). The Texas Parks and Wildlife Department (TPWD) initiated a coastwide gill net program in 1975 to monitor the relative availability and size composition of fish in Texas bays during November through March. Nets containing four stretched meshes arranged in ascending order were set with the smallest mesh (7.6 cm) nearest shore at randomly selected sites (Matlock and Weaver 1979). This approach assumed a direct relationship between fish size and distance from shore if nets were to sample fish populations efficiently, but no data were available to examine this assumed relationship. This study determines if catches in each mesh would be significantly altered by reversing the order in which meshes were fished relative to shore.

## MATERIALS AND METHODS

Monofilament gill nets were 182.9 m long by 1.2 - 1.8 m deep with 45.7-m sections of 7.6-, 10.2-, 12.7-, and 15.2-cm stretched mesh tied together in ascending order. Additional construction details are contained in Matlock and Weaver (1979). Nets were fished overnight at one randomly selected shoreline site in Matagorda, San Antonio, Aransas, and Corpus Christi Bays and upper and lower Laguna Madre systems and at two sites in the Galveston Bay system in January 1976 and in March 1977 with the 7.6-cm mesh nearest shore (Appendix A). Concurrently another net was fished similarly but with the 15.2-cm stretched mesh nearest shore. Both nets were set approximately 3.2 km of shoreline apart.

Each fish caught in each mesh was identified to species (Gallaway et al. 1972) and counted. Corresponding common names follow Robins et al. (1980). Differences ( $P \leq 0.05$ ) among catches in each mesh size caused by the setting method were determined using analyses of variance by ranks because of heteroscedasticity and severe skewness (SAS 1982, Mendis 1980, Schierer et al. 1976). Data were ranked and ties were assigned a mean rank for all observations having the same value. Then data were partitioned by bay system, mesh size, and setting method to increase the power of the tests. An analysis was done for each species represented by  $\geq 40$  individuals and for all fishes combined.

## RESULTS

Setting method did not affect gill net catches in any mesh for any species except red drum (Sciaenops ocellatus). Twenty-four species were caught; fourteen of these species were represented by  $< 40$  individuals (Table 1), and no consistent differences were apparent in catches in each mesh of these untested species when the nets were reversed (Appendix B). These species were alligator gar (Lepisosteus spatula), Atlantic croaker (Micropogonias undulatus), Atlantic cutlassfish (Trichiurus lepturus), bull shark (Carcharhinus leucas), cownose ray (Rhinoptera bonasus), gafftopsail catfish (Bagre marinus), ladyfish (Elops saurus), leopard searobin (Prionotus scitulus), pigfish (Orthopristis chrysoptera), sand seatrout (Cynoscion arenarius), silver perch (Bairdiella chrysoura), skipjack herring (Alosa chrysochloris), southern flounder (Paralichthys lethostigma) and

southern kingfish (Menticirrhus americanus). Of the remaining 10 species, only red drum catches were affected by the setting method (Table 2). Red drum catches in the 12.7 and 15.2-cm meshes were higher when these meshes were set closer to shore (i.e. nets reversed) while catches in the 7.6-cm were lower and catches in the 10.2-cm mesh were similar when nets were reversed.

#### DISCUSSION

Reversing the order in which gill nets are fished by TPWD (7.6 cm mesh closest to shore) during January or March is not necessary. Catches of all species except red drum would not be significantly affected by reversing nets. Large red drum catches would be increased, but small red drum catches would be reduced which would tend to underestimate availability of the population caught in gill nets. However, the objective of the TPWD sampling program is to detect changes in relative abundance and size of as many fishes through as large a size range as possible. Setting in the same way at each site will maximize the possibility of achieving that objective.



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Table 1. Number of each species caught in all gill nets in January 1976 and March 1977 in all bays combined.

| Species              | 1976 | 1977 | Total |
|----------------------|------|------|-------|
| Alligator gar        | 0    | 3    | 3     |
| Atlantic croaker     | 2    | 21   | 23    |
| Atlantic cutlassfish | 0    | 1    | 1     |
| Black drum           | 189  | 174  | 363   |
| Bull shark           | 0    | 6    | 6     |
| Cownose ray          | 0    | 1    | 1     |
| Finescale menhaden   | 34   | 6    | 40    |
| Gafftopsail catfish  | 0    | 39   | 39    |
| Gizzard Shad         | 91   | 202  | 293   |
| Gulf menhaden        | 235  | 80   | 315   |
| Hardhead catfish     | 3    | 78   | 81    |
| Ladyfish             | 0    | 1    | 1     |
| Leopard searobin     | 2    | 0    | 2     |
| Pigfish              | 1    | 0    | 1     |
| Red drum             | 121  | 95   | 216   |
| Sand seatrout        | 6    | 3    | 9     |
| Sheepshead           | 18   | 26   | 44    |
| Silver perch         | 0    | 1    | 1     |
| Skipjack herring     | 4    | 0    | 4     |
| Southern flounder    | 8    | 4    | 12    |
| Southern kingfish    | 0    | 1    | 1     |
| Spot                 | 4    | 36   | 40    |
| Spotted seatrout     | 110  | 149  | 259   |
| Striped mullet       | 65   | 28   | 93    |

Table 2. Summary of factors (years, bay system, mesh size, and setting method) which were significantly different for selected species and all fishes combined according to analyses of variance performed in ranked gill net catches in 1976 and 1977 in seven Texas bay systems.

| Species            | Significant test       | Degrees of freedom | Hm <sup>a</sup> |
|--------------------|------------------------|--------------------|-----------------|
| Black drum         | Bay system             | 6                  | 30.576          |
| Finescale menhaden | Bay system             | 6                  | 39.158          |
| Gizzard shad       | Bay system             | 6                  | 20.220          |
|                    | Mesh size              | 3                  | 31.049          |
|                    | Year X bay system      | 6                  | 16.668          |
| Gulf menhaden      | Bay system             | 6                  | 16.392          |
|                    | Year                   | 1                  | 3.879           |
|                    | Mesh size              | 3                  | 28.744          |
| Hardhead catfish   | Year                   | 1                  | 33.822          |
|                    | Mesh size              | 3                  | 10.744          |
| Red drum           | Set method X mesh size | 3                  | 16.977          |
|                    | Mesh Size              | 3                  | 12.576          |
|                    | Year X by system       | 6                  | 18.517          |
|                    | Year X mesh size       | 3                  | 8.934           |
| Sheepshead         | Mesh size              | 3                  | 12.576          |
|                    | Year X bay system      | 6                  | 18.517          |
|                    | Year X mesh size       | 3                  | 8.934           |
| Spot               | Mesh size              | 3                  | 46.612          |
| Spotted seatrout   | Mesh size              | 3                  | 39.688          |
|                    | Year X bay system      | 6                  | 15.917          |
| Striped mullet     | Mesh size              | 3                  | 51.303          |
| Total fish         | Bay system             | 6                  | 13.512          |
|                    | Mesh size              | 3                  | 32.096          |

<sup>a</sup>Hm statistic is distributed as a chi-square.

Appendix A. List of sites sampled

Appendix A. Table 1. Location of each site sampled with gill nets set with 7.6- cm stretched mesh nearest shore. Station numbers correspond to those in Matlock et al. (1978).

| Bay system         | January 1976   |           |           | March 1977     |           |           |
|--------------------|----------------|-----------|-----------|----------------|-----------|-----------|
|                    | Station number | Latitude  | Longitude | Station number | Latitude  | Longitude |
| Galveston          | 2-142-32       | 29°25'25" | 94°56'20" | 2-201-28       | 29°30'25" | 94°57'05" |
| Galveston          | 2-150-25       | 29°28'35" | 94°39'00" | 2-241-32       | 29°10'00" | 95°02'00" |
| Matagorda          | 3-320-24       | 28°41'54" | 96°11'21" | 3-210-37       | 28°36'12" | 96°26'18" |
| San Antonio        | 4-300-29       | 28°15'12" | 96°39'06" | 4-170-36       | 28°21'00" | 96°35'00" |
| Aransas            | 5-020-27       | 28°01'21" | 97°02'45" | 5-020-27       | 28°01'21" | 97°02'45" |
| Corpus Christi     | 6-130-37       | 27°51'54" | 97°19'38" | 6-130-24       | 27°44'13" | 97°09'50" |
| Upper Laguna Madre | 7-211-28       | 27°16'10" | 97°41'20" | 7-080-27       | 27°19'32" | 97°41'00" |
| Lower Laguna Madre | 8-230-25       | 26°16'55" | 97°17'00" | 8-230-23       | 26°09'00" | 97°10'50" |

**Appendix B. Fish catches in each mesh in each set**

Appendix B. Table 1. Number of fish caught in each mesh in each set in January 1976 and March 1977 in gill nets set with the 7.6-cm mesh closest to shore (A) and nets with the 15.2-cm mesh closest to shore (B). Blanks indicate zero.

| Species       | Bay system         | Set type | 1976 |      | 1977 |      | Total |     |      |      |      |   |   |
|---------------|--------------------|----------|------|------|------|------|-------|-----|------|------|------|---|---|
|               |                    |          | 7.6  | 10.2 | 12.7 | 15.2 |       | 7.6 | 10.2 | 12.7 | 15.2 |   |   |
| Alligator gar | Galveston          | A        |      |      |      |      |       |     |      |      |      |   |   |
|               |                    | B        |      |      |      |      |       |     |      |      |      |   |   |
|               | Galveston          | A        |      |      |      | 1    |       |     |      |      |      |   | 1 |
|               |                    | B        |      |      |      |      |       |     |      |      |      |   |   |
|               | Matagorda          | A        |      |      |      | 1    |       |     |      |      |      |   | 1 |
|               |                    | B        |      |      |      |      |       |     |      |      |      | 1 | 1 |
|               | San Antonio        | A        |      |      |      |      |       |     |      |      |      |   |   |
|               |                    | B        |      |      |      |      |       |     |      |      |      |   |   |
|               | Aransas            | A        |      |      |      |      |       |     |      |      |      |   |   |
|               |                    | B        |      |      |      |      |       |     |      |      |      |   |   |
|               | Corpus Christi     | A        |      |      |      |      |       |     |      |      |      |   |   |
|               |                    | B        |      |      |      |      |       |     |      |      |      |   |   |
|               | Upper Laguna Madre | A        |      |      |      |      |       |     |      |      |      |   |   |
|               |                    | B        |      |      |      |      |       |     |      |      |      |   |   |
|               | Lower Laguna Madre | A        |      |      |      |      |       |     |      |      |      |   |   |
|               |                    | B        |      |      |      |      |       |     |      |      |      |   |   |
| All bays      |                    | A        |      |      |      |      |       |     |      | 2    |      |   | 2 |
|               |                    | B        |      |      |      |      |       |     |      |      | 1    |   | 1 |

Appendix B. Table 1. (Cont'd.).

| Species          | Bay system         | Set type | 1976 |      |      | 1977 |       |     | Total |      |      |      |       |  |    |
|------------------|--------------------|----------|------|------|------|------|-------|-----|-------|------|------|------|-------|--|----|
|                  |                    |          | 7.6  | 10.2 | 12.7 | 15.2 | Total | 7.6 |       | 10.2 | 12.7 | 15.2 | Total |  |    |
| Atlantic croaker | Galveston          | A        |      |      |      |      |       |     |       |      | 5    |      |       |  | 5  |
|                  |                    | B        |      |      |      |      |       |     |       |      | 2    | 1    |       |  | 3  |
|                  | Galveston          | A        |      |      |      |      |       |     |       |      |      |      |       |  |    |
|                  |                    | B        |      |      |      |      |       |     |       |      |      |      |       |  |    |
|                  | Matagorda          | A        |      |      |      |      |       |     |       |      |      |      |       |  |    |
|                  |                    | B        |      |      |      |      |       |     |       |      |      |      |       |  |    |
|                  | San Antonio        | A        | 1    |      |      |      |       |     |       |      |      |      |       |  | 1  |
|                  |                    | B        |      |      |      |      |       |     |       |      |      |      |       |  |    |
|                  | Aransas            | A        |      |      |      |      |       |     |       |      | 1    |      |       |  | 1  |
|                  |                    | B        |      |      |      |      |       |     |       |      |      |      |       |  |    |
|                  | Corpus Christi     | A        | 1    |      |      |      |       |     |       |      |      |      |       |  | 1  |
|                  |                    | B        |      |      |      |      |       |     |       |      | 2    |      |       |  | 2  |
|                  | Upper Laguna Madre | A        |      |      |      |      |       |     |       |      | 2    | 4    |       |  | 6  |
|                  |                    | B        |      |      |      |      |       |     |       |      | 3    | 1    |       |  | 4  |
|                  | Lower Laguna Madre | A        |      |      |      |      |       |     |       |      |      |      |       |  |    |
|                  |                    | B        |      |      |      |      |       |     |       |      |      |      |       |  |    |
| All bays         |                    | A        | 2    |      |      |      |       |     |       | 2    | 8    | 4    |       |  | 12 |
|                  |                    | B        |      |      |      |      |       |     |       |      | 7    | 2    |       |  | 9  |



Appendix B. Table 1. (Cont'd.).

| Species              | Bay system         | Set type | 1976 |      |      | 1977  |     |      |      |       |
|----------------------|--------------------|----------|------|------|------|-------|-----|------|------|-------|
|                      |                    |          | 7.6  | 10.2 | 12.7 | Total | 7.6 | 10.2 | 12.7 | Total |
| Atlantic cutlassfish | Galveston          | A        |      |      |      |       |     |      |      |       |
|                      |                    | B        |      |      |      |       |     |      |      |       |
|                      | Galveston          | A        |      |      |      |       |     |      |      |       |
|                      |                    | B        |      |      |      |       |     |      |      |       |
|                      | Matagorda          | A        |      |      |      |       |     |      |      |       |
|                      |                    | B        |      |      |      |       |     |      |      |       |
|                      | San Antonio        | A        |      |      |      |       |     |      |      |       |
|                      |                    | B        |      |      |      |       |     |      |      |       |
|                      | Aransas            | A        |      |      |      |       |     |      |      |       |
|                      |                    | B        |      |      |      |       |     |      |      |       |
|                      | Corpus Christi     | A        |      |      |      |       |     |      |      |       |
|                      |                    | B        |      |      |      |       |     |      |      |       |
|                      | Upper Laguna Madre | A        |      |      |      |       |     |      |      |       |
|                      |                    | B        |      |      |      |       |     |      |      |       |
|                      | Lower Laguna Madre | A        |      |      |      |       |     |      |      |       |
|                      |                    | B        |      |      |      |       |     |      |      |       |
| All bays             |                    | A        |      |      |      |       |     |      |      |       |
|                      |                    | B        |      |      |      |       |     |      |      |       |

Appendix B. Table 1. (Cont'd.).

| Species            | Bay system         | Set type | 1976  |      |       |      |       |     | 1977  |      |       |      |       |     |       |      |
|--------------------|--------------------|----------|-------|------|-------|------|-------|-----|-------|------|-------|------|-------|-----|-------|------|
|                    |                    |          | 7.6   |      | 10.2  |      | 12.7  |     | 7.6   |      | 10.2  |      | 12.7  |     | 15.2  |      |
|                    |                    |          | Total | 15.2 | Total | 10.2 | Total | 7.6 | Total | 15.2 | Total | 10.2 | Total | 7.6 | Total | 15.2 |
| Black drum         | Galveston          | A        | 11    | 3    | 14    | 3    | 4     | 10  | 3     | 4    | 17    | 3    | 4     | 10  | 3     | 17   |
|                    |                    | B        | 7     | 1    | 9     | 3    | 8     | 1   | 3     | 8    | 13    | 3    | 8     | 1   | 3     | 13   |
| Galveston          | Galveston          | A        | 2     | 18   | 24    | 7    | 3     | 2   | 3     | 15   | 7     | 3    | 2     | 2   | 3     | 15   |
|                    |                    | B        | 1     | 1    | 1     | 4    | 1     | 2   | 1     | 2    | 7     | 4    | 1     | 1   | 2     | 7    |
| Matagorda          | Matagorda          | A        | 3     | 3    | 9     | 3    | 8     | 19  | 8     | 19   | 31    | 3    | 8     | 19  | 4     | 31   |
|                    |                    | B        | 1     | 14   | 25    | 5    | 22    | 33  | 5     | 22   | 60    | 5    | 22    | 33  | 5     | 60   |
| San Antonio        | San Antonio        | A        | 1     |      | 1     |      | 5     |     | 5     | 5    |       |      |       |     |       | 5    |
|                    |                    | B        | 1     |      | 1     |      |       |     |       |      |       |      |       |     |       |      |
| Aransas            | Aransas            | A        |       |      |       |      |       |     |       |      |       |      |       |     |       |      |
|                    |                    | B        | 2     | 1    | 6     | 2    | 13    | 15  | 2     | 13   | 15    | 2    | 13    |     |       | 15   |
| Corpus Christi     | Corpus Christi     | A        | 3     |      | 5     |      | 1     | 1   |       | 2    |       |      |       |     |       | 2    |
|                    |                    | B        | 6     |      | 6     |      | 1     | 1   |       | 6    |       |      |       |     |       | 1    |
| Upper Laguna Madre | Upper Laguna Madre | A        | 2     | 1    | 5     |      |       |     |       |      |       |      |       |     | 3     | 3    |
|                    |                    | B        | 13    | 2    | 22    | 6    | 1     | 1   |       | 6    |       |      |       | 1   | 1     | 1    |
| Lower Laguna Madre | Lower Laguna Madre | A        | 6     | 26   | 58    |      |       |     |       |      |       |      |       |     |       | 1    |
|                    |                    | B        | 1     | 2    | 3     |      | 3     |     |       | 3    |       |      |       |     |       | 3    |
| All bays           | All bays           | A        | 18    | 51   | 116   | 12   | 34    | 33  | 10    | 89   | 18    | 51   | 116   | 12  | 34    | 89   |
|                    |                    | B        | 22    | 18   | 73    | 7    | 17    | 25  | 36    | 85   | 22    | 18   | 73    | 7   | 17    | 85   |

Appendix B. Table 1. (Cont'd.).

| Species    | Bay system         | Set type | 1976 |      |      | 1977 |      |      | Total |
|------------|--------------------|----------|------|------|------|------|------|------|-------|
|            |                    |          | 7.6  | 10.2 | 12.7 | 7.6  | 10.2 | 12.7 |       |
| Bull shark | Galveston          | A        |      |      |      |      |      |      |       |
|            |                    | B        |      |      |      |      |      |      |       |
|            | Galveston          | A        |      |      |      |      |      |      |       |
|            |                    | B        |      |      |      |      |      |      |       |
|            | Matagorda          | A        |      |      |      |      |      |      | 1     |
|            |                    | B        |      |      |      |      |      |      | 1     |
|            | San Antonio        | A        |      |      |      |      |      |      | 1     |
|            |                    | B        |      |      |      |      |      |      | 4     |
|            | Aransas            | A        |      |      |      |      |      |      |       |
|            |                    | B        |      |      |      |      |      |      |       |
|            | Corpus Christi     | A        |      |      |      |      |      |      |       |
|            |                    | B        |      |      |      |      |      |      |       |
|            | Upper Laguna Madre | A        |      |      |      |      |      |      |       |
|            |                    | B        |      |      |      |      |      |      |       |
|            | Lower Laguna Madre | A        |      |      |      |      |      |      | 2     |
|            |                    | B        |      |      |      |      |      |      | 4     |
|            | All bays           | A        |      |      |      |      |      |      | 2     |
|            |                    | B        |      |      |      |      |      |      | 4     |

Appendix B. Table 1. (Cont'd.).

| Species            | Bay system         | Set type | 1976 |      | 1977 |      |       |     |      |      |      |       |  |  |
|--------------------|--------------------|----------|------|------|------|------|-------|-----|------|------|------|-------|--|--|
|                    |                    |          | 7.6  | 10.2 | 12.7 | 15.2 | Total | 7.6 | 10.2 | 12.7 | 15.2 | Total |  |  |
| Cownose ray        | Galveston          | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                    |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |
| Galveston          | Galveston          | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                    |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |
| Matagorda          | Matagorda          | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                    |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |
| San Antonio        | San Antonio        | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                    |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |
| Aransas            | Aransas            | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                    |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |
| Corpus Christi     | Corpus Christi     | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                    |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |
| Upper Laguna Madre | Upper Laguna Madre | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                    |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |
| Lower Laguna Madre | Lower Laguna Madre | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                    |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |
| All bays           | All bays           | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                    |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |

Appendix B. Table 1. (Cont'd.).

| Species            | Bay system         | Set type | 1976 |      |      | 1977 |     |      | Total |
|--------------------|--------------------|----------|------|------|------|------|-----|------|-------|
|                    |                    |          | 7.6  | 10.2 | 12.7 | 15.2 | 7.6 | 10.2 |       |
| Finescale menhaden | Galveston          | A        |      |      |      |      |     |      |       |
|                    |                    | B        |      |      |      |      |     |      |       |
| Galveston          | Galveston          | A        |      |      |      |      |     |      |       |
|                    |                    | B        |      |      |      |      |     |      |       |
| Matagorda          | Matagorda          | A        |      |      |      |      |     |      |       |
|                    |                    | B        |      |      |      |      |     |      |       |
| San Antonio        | San Antonio        | A        |      |      |      |      |     |      |       |
|                    |                    | B        |      |      |      |      | 1   |      | 1     |
| Aransas            | Aransas            | A        | 1    | 13   | 2    |      |     |      | 16    |
|                    |                    | B        | 3    | 12   |      |      | 4   | 1    | 15    |
| Corpus Christi     | Corpus Christi     | A        | 3    |      |      |      |     |      | 3     |
|                    |                    | B        |      |      |      |      |     |      |       |
| Upper Laguna Madre | Upper Laguna Madre | A        |      |      |      |      |     |      |       |
|                    |                    | B        |      |      |      |      |     |      |       |
| Lower Laguna Madre | Lower Laguna Madre | A        |      |      |      |      |     |      |       |
|                    |                    | B        |      |      |      |      |     |      |       |
| All bays           | All bays           | A        | 4    | 13   | 2    |      |     |      | 19    |
|                    |                    | B        | 3    | 12   |      |      | 4   | 2    | 15    |
|                    |                    |          |      |      |      |      |     |      | 6     |

Appendix B. Table 1. (Cont'd.).

| Species             | Bay system | Set type | 1976 |      |      | 1977 |       |     | Total |      |      |      |   |    |
|---------------------|------------|----------|------|------|------|------|-------|-----|-------|------|------|------|---|----|
|                     |            |          | 7.6  | 10.2 | 12.7 | 15.2 | Total | 7.6 |       | 10.2 | 12.7 | 15.2 |   |    |
| Gafftopsail catfish | Galveston  | A        |      |      |      |      |       |     |       |      |      |      | 1 |    |
|                     |            | B        |      |      |      |      |       |     |       |      |      |      |   |    |
|                     | Galveston  | A        |      |      |      |      |       |     |       |      |      |      |   |    |
|                     |            | B        |      |      |      |      |       |     |       |      |      |      |   |    |
| Matagorda           |            | A        |      |      |      |      |       |     |       |      |      |      |   | 5  |
|                     |            | B        |      |      |      |      |       |     |       |      |      |      |   | 1  |
| San Antonio         |            | A        |      |      |      |      |       |     |       |      |      |      |   | 8  |
|                     |            | B        |      |      |      |      |       |     |       |      |      |      |   |    |
| Aransas             |            | A        |      |      |      |      |       |     |       |      |      |      |   | 4  |
|                     |            | B        |      |      |      |      |       |     |       |      |      |      |   | 1  |
| Corpus Christi      |            | A        |      |      |      |      |       |     |       |      |      |      |   | 5  |
|                     |            | B        |      |      |      |      |       |     |       |      |      |      |   | 14 |
| Upper Laguna Madre  |            | A        |      |      |      |      |       |     |       |      |      |      |   |    |
|                     |            | B        |      |      |      |      |       |     |       |      |      |      |   |    |
| Lower Laguna Madre  |            | A        |      |      |      |      |       |     |       |      |      |      |   |    |
|                     |            | B        |      |      |      |      |       |     |       |      |      |      |   |    |
| All bays            |            | A        |      |      |      |      |       |     |       |      |      |      |   | 23 |
|                     |            | B        |      |      |      |      |       |     |       |      |      |      |   | 16 |

Appendix B. Table 1. (Cont'd.).

| Species      | Bay system         | Set type | 1976 |      |      |      |       | 1977 |      |      |      |       |
|--------------|--------------------|----------|------|------|------|------|-------|------|------|------|------|-------|
|              |                    |          | 7.6  | 10.2 | 12.7 | 15.2 | Total | 7.6  | 10.2 | 12.7 | 15.2 | Total |
|              |                    |          |      |      |      |      |       |      |      |      |      |       |
| Gizzard shad | Galveston          | A        | 9    | 10   | 3    |      | 22    | 1    | 2    |      |      | 3     |
|              |                    | B        | 10   | 17   | 3    |      | 30    | 1    | 4    |      |      | 5     |
|              | Galveston          | A        |      | 1    |      |      | 1     | 21   | 5    | 2    |      | 28    |
|              |                    | B        | 5    | 5    | 1    |      | 11    | 68   | 8    | 1    |      | 77    |
|              | Matagorda          | A        | 2    |      |      |      | 2     |      | 1    |      |      | 1     |
|              |                    | B        |      |      |      |      |       |      | 3    |      |      | 3     |
|              | San Antonio        | A        |      |      |      |      |       | 14   | 7    | 1    |      | 22    |
|              |                    | B        |      | 1    |      |      | 1     | 7    | 1    |      |      | 8     |
|              | Aransas            | A        |      |      |      |      |       |      | 2    |      |      | 2     |
|              |                    | B        |      |      |      |      |       | 4    | 3    | 2    |      | 9     |
|              | Corpus Christi     | A        |      |      |      |      |       |      |      |      |      |       |
|              |                    | B        |      |      |      |      |       |      | 2    |      |      | 2     |
|              | Upper Laguna Madre | A        |      | 1    |      |      | 1     |      | 10   | 8    |      | 18    |
|              |                    | B        |      |      |      |      |       | 9    | 9    | 5    |      | 23    |
|              | Lower Laguna Madre | A        | 1    | 9    | 8    |      | 18    |      |      |      |      | 1     |
|              |                    | B        | 1    | 4    |      |      | 5     | 1    |      |      |      |       |
| All bays     |                    | A        | 12   | 21   | 11   |      | 44    | 36   | 27   | 11   |      | 74    |
|              |                    | B        | 16   | 27   | 4    |      | 47    | 90   | 30   | 8    |      | 128   |

Appendix B. Table 1. (Cont'd.).

| Species            | Bay system | Set type | 1976 |      |      |      | 1977 |      |      |      | Total |  |    |
|--------------------|------------|----------|------|------|------|------|------|------|------|------|-------|--|----|
|                    |            |          | 7.6  | 10.2 | 12.7 | 15.2 | 7.6  | 10.2 | 12.7 | 15.2 |       |  |    |
| Gulf menhaden      | Galveston  | A        | 14   | 1    |      |      | 15   |      |      |      |       |  |    |
|                    |            | B        | 76   |      | 2    | 1    | 79   | 6    |      |      |       |  | 6  |
|                    | Galveston  | A        |      |      |      |      |      |      |      | 5    |       |  | 5  |
|                    |            | B        | 6    |      |      |      | 6    | 36   |      |      |       |  | 36 |
| Matagorda          |            | A        | 8    | 3    |      |      | 11   |      |      | 2    |       |  | 2  |
|                    |            | B        | 74   | 3    | 8    |      | 85   | 4    |      |      |       |  | 4  |
| San Antonio        |            | A        |      |      |      |      |      |      |      |      |       |  |    |
|                    |            | B        |      |      |      |      |      | 4    |      |      |       |  | 4  |
| Aransas            |            | A        | 4    |      |      |      | 4    |      |      |      |       |  |    |
|                    |            | B        | 6    |      |      |      | 6    | 21   |      |      |       |  | 21 |
| Corpus Christi     |            | A        | 2    | 17   | 1    |      | 20   |      |      |      |       |  |    |
|                    |            | B        |      | 9    |      |      | 9    | 2    |      |      |       |  | 2  |
| Upper Laguna Madre |            | A        |      |      |      |      |      |      |      |      |       |  |    |
|                    |            | B        |      |      |      |      |      |      |      |      |       |  |    |
| Lower Laguna Madre |            | A        |      |      |      |      |      |      |      |      |       |  |    |
|                    |            | B        |      |      |      |      |      |      |      |      |       |  |    |
| All bays           |            | A        | 28   | 21   | 1    |      | 50   | 7    |      |      |       |  | 7  |
|                    |            | B        | 162  | 12   | 10   | 1    | 185  | 73   |      |      |       |  | 73 |



Appendix B. Table 1. (Cont'd.).

| Species              | Bay system         | Set type | 1976 |      |      | 1977 |      |      | Total |
|----------------------|--------------------|----------|------|------|------|------|------|------|-------|
|                      |                    |          | 7.6  | 10.2 | 12.7 | 7.6  | 10.2 | 12.7 |       |
| Hardhead<br>cattfish | Galveston          | A        |      |      |      | 3    |      |      | 3     |
|                      |                    | B        |      |      |      | 5    | 1    | 1    | 7     |
|                      | Galveston          | A        |      |      |      | 6    | 4    |      | 10    |
|                      |                    | B        |      |      |      | 5    |      | 1    | 9     |
|                      | Matagorda          | A        |      |      |      |      | 1    |      | 1     |
|                      |                    | B        |      |      |      | 4    | 1    |      | 5     |
|                      | San Antonio        | A        |      |      |      | 3    |      |      | 3     |
|                      |                    | B        |      |      |      |      | 3    | 1    | 4     |
|                      | Aransas            | A        |      |      |      | 4    |      |      | 4     |
|                      |                    | B        |      |      |      | 4    | 5    | 1    | 12    |
|                      | Corpus Christi     | A        | 1    | 1    |      |      | 1    |      | 1     |
|                      |                    | B        |      |      |      | 1    | 2    | 1    | 4     |
|                      | Upper Laguna Madre | A        |      |      |      | 2    | 2    | 1    | 5     |
|                      |                    | B        |      |      |      | 1    |      | 2    | 3     |
|                      | Lower Laguna Madre | A        |      | 1    |      |      | 1    | 3    | 4     |
|                      |                    | B        |      |      |      | 3    |      |      | 3     |
| All bays             |                    | A        | 1    | 2    |      | 18   | 9    | 4    | 31    |
|                      |                    | B        |      |      |      | 23   | 12   | 4    | 47    |

Appendix B. Table 1. (Cont'd.).

| Species  | Bay system         | Set type | 1976  |      |      | 1977  |      |      |
|----------|--------------------|----------|-------|------|------|-------|------|------|
|          |                    |          | 7.6   | 10.2 | 12.7 | 7.6   | 10.2 | 12.7 |
|          |                    |          | Total |      |      | Total |      |      |
| Ladyfish | Galveston          | A        |       |      |      |       |      |      |
|          |                    | B        |       |      |      |       |      |      |
|          | Galveston          | A        |       |      |      |       |      |      |
|          |                    | B        |       |      |      |       |      |      |
|          | Matagorda          | A        |       |      |      |       |      |      |
|          |                    | B        |       |      |      |       |      |      |
|          | San Antonio        | A        |       |      |      |       |      |      |
|          |                    | B        |       |      |      |       |      |      |
|          | Aransas            | A        |       |      |      |       |      |      |
|          |                    | B        |       |      |      |       |      |      |
|          | Corpus Christi     | A        |       |      |      |       |      |      |
|          |                    | B        |       |      |      |       |      |      |
|          | Upper Laguna Madre | A        |       |      |      |       |      |      |
|          |                    | B        |       |      |      |       |      |      |
|          | Lower Laguna Madre | A        |       |      |      | 1     |      | 1    |
|          |                    | B        |       |      |      |       |      |      |
|          | All bays           | A        |       |      |      | 1     |      | 1    |
|          |                    | B        |       |      |      |       |      |      |

Appendix B. Table 1. (Cont'd.).

| Species             | Bay system         | Set type | 1976 |      | 1977 |      |     |      |      |      |       |  |  |  |
|---------------------|--------------------|----------|------|------|------|------|-----|------|------|------|-------|--|--|--|
|                     |                    |          | 7.6  | 10.2 | 12.7 | 15.2 | 7.6 | 10.2 | 12.7 | 15.2 | Total |  |  |  |
| Leopard<br>searobin | Galveston          | A        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     |                    | B        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     | Galveston          | A        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     |                    | B        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     | Matagorda          | A        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     |                    | B        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     | San Antonio        | A        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     |                    | B        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     | Aransas            | A        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     |                    | B        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     | Corpus Christi     | A        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     |                    | B        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     | Upper Laguna Madre | A        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     |                    | B        |      | 2    |      |      |     |      |      |      |       |  |  |  |
|                     | Lower Laguna Madre | A        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     |                    | B        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     | All bays           | A        |      |      |      |      |     |      |      |      |       |  |  |  |
|                     |                    | B        |      |      |      |      |     |      |      |      |       |  |  |  |



Appendix B. Table 1. (Cont'd.).

| Species            | Bay system         | Set type | 1976 |      |      |      | 1977  |     |      |      | Total |
|--------------------|--------------------|----------|------|------|------|------|-------|-----|------|------|-------|
|                    |                    |          | 7.6  | 10.2 | 12.7 | 15.2 | Total | 7.6 | 10.2 | 12.7 |       |
| Red drum           | Galveston          | A        | 3    |      | 1    |      | 4     | 2   | 6    | 1    | 9     |
|                    |                    | B        | 4    | 3    | 1    | 8    | 16    | 4   | 4    | 6    | 14    |
| Galveston          | Galveston          | A        | 8    | 7    |      |      | 15    |     |      |      | 15    |
|                    |                    | B        | 2    | 6    | 1    | 8    | 17    | 1   | 1    | 14   | 21    |
| Matagorda          | Matagorda          | A        | 4    |      |      |      | 4     | 5   |      |      | 5     |
|                    |                    | B        | 1    |      | 1    | 5    | 7     | 1   |      | 1    | 2     |
| San Antonio        | San Antonio        | A        | 6    | 3    | 1    |      | 10    | 15  |      |      | 15    |
|                    |                    | B        |      |      | 12   | 3    | 15    |     |      |      | 15    |
| Aransas            | Aransas            | A        |      |      |      |      |       | 9   | 2    | 1    | 12    |
|                    |                    | B        |      |      | 1    | 1    | 2     |     |      |      | 2     |
| Corpus Christi     | Corpus Christi     | A        | 3    |      |      |      | 3     |     | 1    |      | 1     |
|                    |                    | B        |      |      |      | 3    | 3     | 1   | 1    | 4    | 3     |
| Upper Laguna Madre | Upper Laguna Madre | A        | 1    | 1    |      | 1    | 3     |     |      |      | 3     |
|                    |                    | B        | 10   | 1    | 2    | 1    | 14    |     |      |      | 14    |
| Lower Laguna Madre | Lower Laguna Madre | A        |      |      | 2    | 4    | 6     | 4   | 1    |      | 1     |
|                    |                    | B        |      |      | 2    | 2    | 2     | 2   | 2    | 1    | 7     |
| All bays           | All bays           | A        | 25   | 11   | 4    | 5    | 45    | 31  | 10   | 2    | 43    |
|                    |                    | B        | 17   | 10   | 20   | 29   | 76    | 4   | 9    | 25   | 52    |

Appendix B. Table 1. (Cont'd.).

| Species            | Bay system         | Set type | 1976 |      |      | 1977 |     |      | Total |
|--------------------|--------------------|----------|------|------|------|------|-----|------|-------|
|                    |                    |          | 7.6  | 10.2 | 12.7 | 15.2 | 7.6 | 10.2 |       |
| Sand seatrout      | Galveston          | A        |      |      |      |      |     |      |       |
|                    |                    | B        |      |      |      |      | 1   |      | 1     |
| Galveston          | Galveston          | A        |      |      |      |      |     |      |       |
|                    |                    | B        | 2    | 1    |      |      |     |      | 3     |
| Matagorda          | Matagorda          | A        |      |      | 1    |      |     |      | 1     |
|                    |                    | B        |      |      |      |      |     |      |       |
| San Antonio        | San Antonio        | A        |      |      |      |      |     |      |       |
|                    |                    | B        |      |      |      |      |     |      |       |
| Aransas            | Aransas            | A        |      |      |      |      |     |      |       |
|                    |                    | B        |      |      |      |      |     |      |       |
| Corpus Christi     | Corpus Christi     | A        | 2    |      |      |      |     |      | 2     |
|                    |                    | B        |      |      |      |      | 2   |      | 2     |
| Upper Laguna Madre | Upper Laguna Madre | A        |      |      |      |      |     |      |       |
|                    |                    | B        |      |      |      |      |     |      |       |
| Lower Laguna Madre | Lower Laguna Madre | A        |      |      |      |      |     |      |       |
|                    |                    | B        |      |      |      |      |     |      |       |
| All bays           | All bays           | A        | 2    |      | 1    |      |     |      | 3     |
|                    |                    | B        | 2    | 1    |      |      | 3   |      | 3     |

Appendix B. Table 1. (Cont'd.).

| Species            | Bay system         | Set type | 1976 |      |      | 1977 |     |      | Total |
|--------------------|--------------------|----------|------|------|------|------|-----|------|-------|
|                    |                    |          | 7.6  | 10.2 | 12.7 | 15.2 | 7.6 | 10.2 |       |
| Sheepshead         | Galveston          | A        |      |      |      |      |     |      |       |
|                    |                    | B        |      |      |      |      |     |      |       |
| Galveston          | Galveston          | A        |      |      | 1    | 1    |     |      |       |
|                    |                    | B        |      | 2    | 1    | 3    |     | 1    | 1     |
| Matagorda          | Matagorda          | A        |      |      |      |      | 1   |      | 1     |
|                    |                    | B        |      |      | 1    | 1    |     |      |       |
| San Antonio        | San Antonio        | A        |      |      |      |      |     | 1    | 1     |
|                    |                    | B        |      |      |      |      |     | 1    | 1     |
| Aransas            | Aransas            | A        |      |      |      |      | 3   | 6    | 10    |
|                    |                    | B        |      |      |      |      | 1   | 7    | 8     |
| Corpus Christi     | Corpus Christi     | A        |      |      | 2    | 1    | 3   | 3    | 3     |
|                    |                    | B        |      |      |      | 1    | 1   | 1    | 1     |
| Upper Laguna Madre | Upper Laguna Madre | A        |      |      | 1    | 2    | 3   |      |       |
|                    |                    | B        |      |      |      |      |     |      |       |
| Lower Laguna Madre | Lower Laguna Madre | A        |      |      | 2    | 4    | 6   |      |       |
|                    |                    | B        |      |      |      |      |     |      |       |
| All bays           | All bays           | A        |      | 5    | 8    | 13   | 4   | 10   | 15    |
|                    |                    | B        |      | 2    | 3    | 5    | 2   | 8    | 11    |

Appendix B. Table 1. (Cont'd.).

| Species      | Bay system         | Set type | 1976 |      |      | 1977 |       |     | Total |      |      |      |  |   |
|--------------|--------------------|----------|------|------|------|------|-------|-----|-------|------|------|------|--|---|
|              |                    |          | 7.6  | 10.2 | 12.7 | 15.2 | Total | 7.6 |       | 10.2 | 12.7 | 15.2 |  |   |
| Silver perch | Galveston          | A        |      |      |      |      |       |     |       |      |      |      |  |   |
|              |                    | B        |      |      |      |      |       |     |       |      |      |      |  |   |
|              | Galveston          | A        |      |      |      |      |       |     |       |      |      |      |  |   |
|              |                    | B        |      |      |      |      |       |     |       |      |      |      |  |   |
|              | Matagorda          | A        |      |      |      |      |       |     |       |      |      |      |  |   |
|              |                    | B        |      |      |      |      |       |     |       |      |      |      |  |   |
|              | San Antonio        | A        |      |      |      |      |       |     |       |      |      |      |  | 1 |
|              |                    | B        |      |      |      |      |       |     |       |      |      |      |  |   |
|              | Aransas            | A        |      |      |      |      |       |     |       |      |      |      |  |   |
|              |                    | B        |      |      |      |      |       |     |       |      |      |      |  |   |
|              | Corpus Christi     | A        |      |      |      |      |       |     |       |      |      |      |  |   |
|              |                    | B        |      |      |      |      |       |     |       |      |      |      |  |   |
|              | Upper Laguna Madre | A        |      |      |      |      |       |     |       |      |      |      |  |   |
|              |                    | B        |      |      |      |      |       |     |       |      |      |      |  |   |
|              | Lower Laguna Madre | A        |      |      |      |      |       |     |       |      |      |      |  |   |
|              |                    | B        |      |      |      |      |       |     |       |      |      |      |  |   |
|              | All bays           | A        |      |      |      |      |       |     |       |      |      |      |  | 1 |
|              |                    | B        |      |      |      |      |       |     |       |      |      |      |  |   |



Appendix B. Table 1. (Cont'd.).

| Species          | Bay system         | Set type | 1976 |      |      | 1977 |       |     |      |      |      |       |  |  |
|------------------|--------------------|----------|------|------|------|------|-------|-----|------|------|------|-------|--|--|
|                  |                    |          | 7.6  | 10.2 | 12.7 | 15.2 | Total | 7.6 | 10.2 | 12.7 | 15.2 | Total |  |  |
| Skipjack herring | Galveston          | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                  |                    | B        |      | 1    |      |      |       |     |      |      |      |       |  |  |
|                  | Galveston          | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                  |                    | B        | 1    | 2    |      |      | 3     |     |      |      |      |       |  |  |
|                  | Matagorda          | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                  |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |
|                  | San Antonio        | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                  |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |
|                  | Aransas            | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                  |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |
|                  | Corpus Christi     | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                  |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |
|                  | Upper Laguna Madre | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                  |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |
|                  | Lower Laguna Madre | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                  |                    | B        |      |      |      |      |       |     |      |      |      |       |  |  |
| All bays         |                    | A        |      |      |      |      |       |     |      |      |      |       |  |  |
|                  |                    | B        | 1    | 3    |      |      | 4     |     |      |      |      |       |  |  |

Appendix B. Table 1. (Cont'd.).

| Species           | Bay system         | Set type | 1976 |      |      | 1977 |     |      |      |      |       |   |   |   |
|-------------------|--------------------|----------|------|------|------|------|-----|------|------|------|-------|---|---|---|
|                   |                    |          | 7.6  | 10.2 | 12.7 | 15.2 | 7.6 | 10.2 | 12.7 | 15.2 | Total |   |   |   |
| Southern flounder | Galveston          | A        |      |      | 1    |      |     |      |      |      | 1     |   |   |   |
|                   |                    | B        |      |      |      |      |     |      |      |      |       |   |   |   |
|                   | Galveston          | A        |      | 1    |      |      |     |      |      |      | 1     |   |   |   |
|                   |                    | B        |      |      |      | 1    |     |      |      |      |       |   | 2 | 2 |
|                   | Matagorda          | A        |      |      |      |      |     |      |      |      | 1     |   |   |   |
|                   |                    | B        | 1    |      |      |      |     |      |      |      |       |   |   |   |
|                   | San Antonio        | A        |      |      |      |      |     |      |      | 1    |       |   |   | 1 |
|                   |                    | B        |      |      | 1    | 1    |     |      |      |      | 2     |   |   |   |
|                   | Aransas            | A        |      |      |      |      |     |      |      |      |       |   |   |   |
|                   |                    | B        |      |      |      |      |     |      |      |      |       |   |   |   |
|                   | Corpus Christi     | A        |      |      |      |      |     |      |      |      |       |   |   |   |
|                   |                    | B        |      |      |      |      |     |      |      |      |       | 1 |   | 1 |
|                   | Upper Laguna Madre | A        |      |      |      |      |     |      |      |      |       |   |   |   |
|                   |                    | B        |      |      |      |      |     |      |      |      |       |   |   |   |
|                   | Lower Laguna Madre | A        |      | 1    |      |      |     |      |      |      | 2     |   |   |   |
|                   |                    | B        |      |      |      |      |     |      |      |      |       |   |   |   |
| All bays          |                    | A        |      | 2    | 2    |      |     |      |      | 4    | 1     |   |   | 1 |
|                   |                    | B        | 1    |      | 1    | 2    |     |      |      | 4    |       | 3 |   | 3 |

Appendix B. Table 1. (Cont'd.).

| Species           | Bay system         | Set type | 1976 |      | 1977 |      | Total |     |      |      |      |  |   |
|-------------------|--------------------|----------|------|------|------|------|-------|-----|------|------|------|--|---|
|                   |                    |          | 7.6  | 10.2 | 12.7 | 15.2 |       | 7.6 | 10.2 | 12.7 | 15.2 |  |   |
| Southern kingfish | Galveston          | A        |      |      |      |      |       |     |      |      |      |  |   |
|                   |                    | B        |      |      |      |      |       |     |      |      |      |  |   |
|                   | Galveston          | A        |      |      |      |      |       |     |      |      |      |  |   |
|                   |                    | B        |      |      |      |      |       |     |      |      |      |  |   |
|                   | Matagorda          | A        |      |      |      |      |       |     |      |      |      |  |   |
|                   |                    | B        |      |      |      |      |       |     |      |      |      |  |   |
|                   | San Antonio        | A        |      |      |      |      |       |     |      |      |      |  |   |
|                   |                    | B        |      |      |      |      |       |     |      |      |      |  | 1 |
|                   | Aransas            | A        |      |      |      |      |       |     |      |      |      |  |   |
|                   |                    | B        |      |      |      |      |       |     |      |      |      |  |   |
|                   | Corpus Christi     | A        |      |      |      |      |       |     |      |      |      |  |   |
|                   |                    | B        |      |      |      |      |       |     |      |      |      |  |   |
|                   | Upper Laguna Madre | A        |      |      |      |      |       |     |      |      |      |  |   |
|                   |                    | B        |      |      |      |      |       |     |      |      |      |  |   |
|                   | Lower Laguna Madre | A        |      |      |      |      |       |     |      |      |      |  |   |
|                   |                    | B        |      |      |      |      |       |     |      |      |      |  |   |
|                   | All bays           | A        |      |      |      |      |       |     |      |      |      |  | 1 |
|                   |                    | B        |      |      |      |      |       |     |      |      |      |  |   |

Appendix B. Table 1. (Cont'd.).

| Species  | Bay system         | Set type | 1976 |      |      | 1977 |      |      | Total |
|----------|--------------------|----------|------|------|------|------|------|------|-------|
|          |                    |          | 7.6  | 10.2 | 12.7 | 7.6  | 10.2 | 12.7 |       |
| Spot     | Galveston          | A        |      |      |      | 3    |      |      | 3     |
|          |                    | B        |      |      |      | 8    |      |      | 8     |
|          | Galveston          | A        |      |      |      | 1    |      |      | 1     |
|          |                    | B        |      |      |      |      |      |      |       |
|          | Matagorda          | A        |      |      |      | 1    |      |      | 1     |
|          |                    | B        |      |      |      |      |      |      |       |
|          | San Antonio        | A        | 1    |      |      | 3    |      |      | 3     |
|          |                    | B        | 1    |      |      | 6    | 1    |      | 7     |
|          | Aransas            | A        |      |      |      |      |      |      |       |
|          |                    | B        |      |      |      | 3    |      |      | 3     |
|          | Corpus Christi     | A        | 1    |      |      | 1    |      |      | 1     |
|          |                    | B        |      |      |      | 1    |      |      | 1     |
|          | Upper Laguna Madre | A        |      |      |      |      |      |      |       |
|          |                    | B        | 1    |      |      | 6    |      |      | 6     |
|          | Lower Laguna Madre | A        |      |      |      |      |      |      |       |
|          |                    | B        |      |      |      | 3    |      |      | 3     |
| All bays |                    | A        | 2    |      |      | 8    |      |      | 8     |
|          |                    | B        | 2    |      |      | 27   | 1    |      | 28    |

Appendix B. Table 1. (Cont'd.).

| Species          | Bay system         | Set type | 1976 |      |      |      | 1977  |     |      |      |      |
|------------------|--------------------|----------|------|------|------|------|-------|-----|------|------|------|
|                  |                    |          | 7.6  | 10.2 | 12.7 | 15.2 | Total | 7.6 | 10.2 | 12.7 | 15.2 |
| Spotted seatrout | Galveston          | A        | 2    | 1    | 3    |      | 6     | 3   |      |      | 3    |
|                  |                    | B        | 1    |      |      |      | 1     | 15  | 2    |      | 17   |
|                  | Galveston          | A        | 2    | 5    |      |      | 7     | 10  | 1    | 1    | 12   |
|                  |                    | B        | 6    | 9    | 9    |      | 24    | 2   | 2    |      | 4    |
|                  | Matagorda          | A        | 4    |      |      |      | 4     | 12  | 4    |      | 16   |
|                  |                    | B        | 9    | 2    | 1    |      | 12    | 6   | 1    |      | 7    |
|                  | San Antonio        | A        | 1    | 1    |      |      | 2     | 11  |      |      | 11   |
|                  |                    | B        | 4    | 1    |      |      | 5     | 2   |      |      | 2    |
|                  | Aransas            | A        |      |      |      |      |       | 12  | 7    | 1    | 20   |
|                  |                    | B        |      |      |      |      |       | 17  | 2    |      | 19   |
|                  | Corpus Christi     | A        | 1    |      |      |      | 1     |     | 4    | 2    | 6    |
|                  |                    | B        |      |      | 1    |      | 1     | 1   | 9    | 7    | 17   |
|                  | Upper Laguna Madre | A        | 3    | 2    | 3    | 1    | 9     |     | 1    |      | 1    |
|                  |                    | B        | 3    |      | 1    |      | 4     | 4   |      |      | 4    |
|                  | Lower Laguna Madre | A        |      | 6    | 6    | 2    | 14    |     | 4    | 1    | 5    |
|                  |                    | B        | 6    | 12   | 2    |      | 20    | 2   | 3    |      | 5    |
| All bays         |                    | A        | 12   | 16   | 12   | 3    | 43    | 48  | 21   | 5    | 74   |
|                  |                    | B        | 29   | 24   | 14   |      | 67    | 49  | 19   | 7    | 75   |

Appendix B. Table 1. (Cont'd.).

| Species        | Bay system         | Set type | 1976 |      |      |      | 1977  |     |      |      |      |
|----------------|--------------------|----------|------|------|------|------|-------|-----|------|------|------|
|                |                    |          | 7.6  | 10.2 | 12.7 | 15.2 | Total | 7.6 | 10.2 | 12.7 | 15.2 |
| Striped mullet | Galveston          | A        | 2    |      |      |      | 2     | 3   |      |      | 3    |
|                |                    | B        | 5    |      |      |      | 5     | 1   |      |      | 1    |
|                | Galveston          | A        | 3    |      |      |      | 3     | 2   |      |      | 2    |
|                |                    | B        | 5    |      |      |      | 5     | 2   |      |      | 2    |
|                | Matagorda          | A        | 3    |      |      |      | 3     | 5   |      |      | 5    |
|                |                    | B        |      |      |      |      |       | 1   |      |      | 1    |
|                | San Antonio        | A        | 7    | 1    |      |      | 8     | 2   |      |      | 2    |
|                |                    | B        | 1    |      | 1    |      | 2     |     |      |      |      |
|                | Aransas            | A        | 3    |      |      |      | 3     |     |      |      |      |
|                |                    | B        |      | 1    |      |      | 1     |     |      |      |      |
|                | Corpus Christi     | A        | 8    | 6    | 1    |      | 15    |     |      |      |      |
|                |                    | B        |      |      |      |      |       |     |      |      |      |
|                | Upper Laguna Madre | A        | 5    | 1    |      |      | 6     | 2   |      |      | 2    |
|                |                    | B        | 2    | 1    |      |      | 3     | 2   | 3    |      | 5    |
|                | Lower Laguna Madre | A        |      | 7    |      |      | 7     | 2   |      |      | 2    |
|                |                    | B        |      | 2    |      |      | 2     | 3   |      |      | 3    |
| All bays       |                    | A        | 31   | 15   | 1    |      | 47    | 16  |      |      | 16   |
|                |                    | B        | 13   | 4    | 1    |      | 18    | 9   | 3    |      | 12   |

Appendix B. Table 1. (Cont'd.).

| Species  | Bay system         | Set type | 1976 |      |      |      |       | 1977 |      |      |      |       |
|----------|--------------------|----------|------|------|------|------|-------|------|------|------|------|-------|
|          |                    |          | 7.6  | 10.2 | 12.7 | 15.2 | Total | 7.6  | 10.2 | 12.7 | 15.2 | Total |
|          |                    |          |      |      |      |      |       |      |      |      |      |       |
| All fish | Galveston          | A        | 41   | 12   | 8    | 3    | 64    | 23   | 13   | 11   |      | 47    |
|          |                    | B        | 103  | 21   | 7    | 10   | 141   | 42   | 20   | 8    | 5    | 75    |
|          | Galveston          | A        | 15   | 16   | 2    | 19   | 52    | 52   | 13   | 6    | 3    | 74    |
|          |                    | B        | 27   | 23   | 14   | 10   | 74    | 117  | 11   | 17   | 14   | 159   |
|          | Matagorda          | A        | 24   | 5    | 2    | 3    | 34    | 25   | 15   | 21   | 9    | 70    |
|          |                    | B        | 86   | 8    | 17   | 20   | 131   | 15   | 12   | 22   | 36   | 85    |
|          | San Antonio        | A        | 16   | 6    | 1    |      | 23    | 49   | 13   | 5    | 6    | 73    |
|          |                    | B        | 6    | 2    | 15   | 4    | 27    | 27   | 5    | 3    | 7    | 42    |
|          | Aransas            | A        | 9    | 13   | 2    |      | 24    | 28   | 27   | 21   | 5    | 81    |
|          |                    | B        | 9    | 15   | 4    | 2    | 30    | 54   | 14   | 10   | 2    | 80    |
|          | Corpus Christi     | A        | 21   | 28   | 6    | 1    | 56    |      | 7    | 9    | 2    | 18    |
|          |                    | B        |      | 9    | 7    | 4    | 20    | 10   | 20   | 22   | 5    | 57    |
|          | Upper Laguna Madre | A        | 11   | 7    | 6    | 5    | 29    | 6    | 17   | 9    |      | 32    |
|          |                    | B        | 29   | 8    | 4    | 2    | 43    | 26   | 14   | 6    | 2    | 48    |
|          | Lower Laguna Madre | A        | 1    | 30   | 45   | 36   | 112   | 2    | 7    | 5    |      | 14    |
|          |                    | B        | 8    | 20   | 4    |      | 32    | 16   | 8    | 1    |      | 25    |
| All bays |                    | A        | 138  | 117  | 72   | 67   | 394   | 185  | 112  | 74   | 39   | 410   |
|          |                    | B        | 268  | 106  | 72   | 53   | 499   | 307  | 104  | 89   | 71   | 571   |

