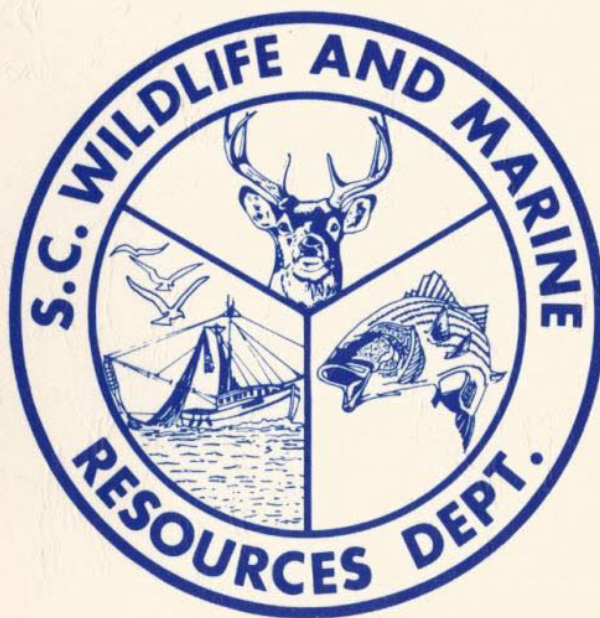


MIDWATER TRAWL DATA FROM SOUTH CAROLINA
ESTUARINE SURVEY CRUISES
(NORTH EDISTO, SOUTH EDISTO, AND COOPER RIVERS), 1973 AND 1974

M. H. Shealy, Jr.

Data Report Number 2



SOUTH CAROLINA MARINE RESOURCES CENTER

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Marine Resources Research Institute
South Carolina Wildlife and Marine Resources Department

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INTRODUCTION

In February 1973 the South Carolina Wildlife and Marine Resources Department, with support from the Coastal Plains Regional Commission, initiated a major statewide estuarine research program. This ongoing project, "An Environmental Base Line Study of South Carolina Estuaries," is primarily an effort of the Marine Resources Division's Marine Resources Research Institute (MRRI) with assistance from the Division's Office of Conservation and Management (OCM). The broad objectives of this program are to determine the biological, chemical, and physical characteristics of the major estuaries of South Carolina, the seasonal changes in these characteristics, and their interactions over a several-year period.

During the initial two years of the program, extensive meteorological, hydrographic, nektonic, planktonic, and benthic sampling were conducted during all seasons at a number of selected estuarine stations.

Massive amounts of data are being generated and various portions are being reported in a series of separate papers. However, since MRRI and OCM personnel, as well as outside agencies, are already making extensive use of the initial midwater results for many different purposes, it was felt that the raw data from the midwater trawling operations should be made available as soon as possible in a single source.

This report presents information on all species captured by midwater trawl in the North and South Edisto and Cooper Rivers during the first two years of quarterly midwater sampling (June 1973 through December 1974).

The data are organized by station, and the tables were generated by IBM 370/145 computer utilizing the Estuarine Survey's computer program (FORTRAN) entitled "Trawl Catch Description by Collection Number."

Included in each table are station number and location, sampling date, species captured, and their total numbers and weights.

METHODS

Sampling Design

The initial two-year segment of the Estuarine Survey midwater trawl study was carried out at 15 stations, seven in the North Edisto, three in the South Edisto, and five in the Cooper River (Figure 1). A listing of stations and their locations, mean depths, tidal ranges, and surface salinity and temperature ranges are given in Table 1.

Trawl Techniques

Trawl operation. All midwater trawling was completed with the South Carolina Wildlife and Marine Resources Department's R/V ANITA, a 16-m (52-ft) shallow-draft research vessel rigged as a stern trawler. Twenty-minute timed trawl tows were made just below the surface against flood tide during daylight. All tows were made at an engine speed of 850 rpm, resulting in a vessel speed of about 3.0 knots against flood tide.

Exact distance covered on any trawl transect during a twenty-minute tow was in large part dependent on current velocity at that location. Distances covered on each tow during the year averaged about 1.5 km (0.8 nautical miles/tow) and generally fell within a range of 1.1 to 1.9 km (0.6 to 1.0 nautical miles/tow).

Description of trawl. Five-foot (1.5-m) Cobb midwater trawls, constructed to project specifications, were utilized throughout the study.



Figure 1. Locations of South Carolina Estuarine Survey midwater trawl stations occupied quarterly in the North and South Edisto and Cooper Rivers during the initial two annual cycles of sampling from June 1973 through December 1974.

Table 1. A listing of 15 Estuarine Survey midwater trawl stations, occupied quarterly in the North and South Edisto and Cooper Rivers, South Carolina during the initial two annual cycles of sampling from June 1973 through December 1974.

Estuary	Station	Latitude	Longitude	Mean Depth (m)	Tidal Range (m)		Surface Salinity Range (o/oo)	Surface Temperature Range (c)
					Mean	Spring		
North Edisto	E001 - Yonges Island	32° 41.2'N	80° 10.4'W	8.0	2.0	2.3	13.9 - 28.3	9.4 - 30.1
	*(E002 - Toogoedoo Creek)	32° 41.3'N	80° 17.3'W	4.0	1.9	2.3	11.9 - 28.4	9.5 - 30.4
	E003 - Bears Bluff	32° 38.8'N	80° 15.7'W	7.4	1.8	2.1	16.2 - 29.1	13.0 - 29.9
	E004 - Dawho River	32° 37.9'N	80° 18.6'W	5.2	1.8	2.1	12.6 - 30.1	9.8 - 30.1
	E005 - Steamboat Creek	32° 36.2'N	80° 17.7'W	7.0	1.7	2.0	15.0 - 30.7	10.5 - 30.1
	E006 - Wadmalav Island	32° 36.5'N	80° 14.8'W	7.1	1.8	2.1	15.4 - 30.0	10.4 - 29.5
	E007 - Point of Pines	32° 35.9'N	80° 13.5'W	6.8	1.7	2.0	17.3 - 31.2	10.2 - 29.4
	E008 - Deveaux Bank	32° 33.6'N	80° 10.7'W	11.0	1.8	2.1	20.4 - 32.5	10.8 - 29.2
South Edisto	*(D001 - Snuggedy Swamp)	32° 39.7'N	80° 24.8'W	3.1	1.9	2.2	< 0.1 - 0.8	8.6 - 28.1
	D002 - Sampson Island	32° 36.3'N	80° 25.4'W	9.8	1.9	2.2	< 0.1 - 7.1	9.2 - 28.1
	F003 - Fenwick Island	32° 33.7'N	80° 23.7'W	5.5	1.9	2.2	0.1 - 24.2	9.3 - 29.0
	D004 - Bay Point	32° 29.7'N	80° 21.2'W	7.5	1.8	2.1	9.3 - 34.1	9.5 - 28.9
Cooper River	C001 - The Tee	33° 04.0'N	79° 55.5'W	9.6	1.2	1.4	< 0.1 - 0.2	11.1 - 25.4
	C002 - Big Island	32° 58.3'N	79° 55.5'W	8.0	1.4	1.7	< 0.1 - 5.3	12.0 - 28.8
	C003 - North Charleston	32° 53.8'N	79° 57.6'W	7.0	1.5	1.8	0.1 - 9.8	12.3 - 28.9
	C004 - Mouth of Cooper	32° 51.1'N	79° 56.0'W	10.4	1.6	1.9	0.7 - 13.5	11.6 - 28.9
	J003 - Cummings Point	32° 44.9'N	79° 51.6'W	8.1	1.5	1.8	9.4 - 22.8	11.8 - 29.2

*Depths too shallow for adequate midwater trawling at these stations.

These nets were built with 1.5-m (5-ft) head rope, foot rope, and vertical ropes. The body of the net was made of 1.9-cm (3/4-inch) stretch mesh, number 110, knotless, green nylon netting. The cod end of the net was made of 1.3-cm (1/2-inch) stretch mesh, number 126 knotless, nylon netting and rigged with 5.1-cm (2-inch) net rings for lazyline and purse rope. The net was attached to two 3.7-m (12-ft) galvanized pipes having outer diameters of 4.4 cm (1-3/4 inch). The bottom pipe was weighted with 11.3 kg to 13.6 kg of lead (25 to 30 lbs) to aid in maintaining proper net mouth opening while trawling.

Six 15.2-cm (6-inch) plastic floats were evenly spaced along the head-rope. Galvanized chain (2/0) was hung loopstyle, 16 links/30.5 cm (12 inches) on the dogear section of the footrope only.

Catch processing. Specimens collected at each station were either processed immediately on board or preserved in 10% formalin and returned to the laboratory for identification, sorting, measuring, and weighing.

All fish were identified to species, and scientific names used are those accepted by the American Fisheries Society (Bailey, et al., 1970). Invertebrates were also identified to species where possible. Invertebrate terminology conforms to MRRI's "Data Processing Forms Instructions" (E. N. Myatt, 1974).

Trawl Stations

All midwater trawl tows at each station were conducted on readily identified station transects. Descriptions of these transects are given below:

I. NORTH EDISTO RIVER:

Yonges Island (E001). Starting point for the trawl transect was always Intracoastal Waterway Marker Number 93. Tows were conducted seaward (i.e. southward) on a transect between that marker and Marker Number 96.

Toogoodoo Creek (E002). Depth was too shallow for adequate midwater trawling at this station.

Bears Bluff (E003). Starting point for the trawl transect was always from the pilings extending from Bears Bluff Point. Tows were conducted seaward on a line with Intracoastal Waterway Marker Number 110.

Dawho River (E004). Starting point for the trawl transect was always at Marker Number 121. Tows were conducted in the main channel.

Steamboat Creek (E005). Starting point for the trawl transect was always at the Steamboat Creek boat ramp. Tows were conducted in mid-channel, trawling toward the creek mouth.

Wadmalaw Island (E006). Starting point for the trawl transect was always at a point opposite a shore marker at latitude $32^{\circ} 36.5'N$ and longitude $80^{\circ} 14.8'W$. Tows were conducted in the left-center portion of the North Edisto main channel, trawling seaward.

Point of Pines (E007). Starting point for the trawl transect was always at the beginning of the tree line aligned with the upriver set of pilings (latitude $32^{\circ} 35.9'N$ and longitude $80^{\circ} 13.5'W$) located on the Coast and Geodetic Survey Chart Number 792. Tows were conducted seaward, trawling along the 6-m (20-ft) depth contour.

Deveaux Bank (E008). Starting point for the trawl transect was always the southern tip of Seabrook Island (excluding the beach covered by an average tide). Tows were conducted seaward, trawling toward Buoy Number 3, along the North Edisto River Range.

II. SOUTH EDISTO RIVER:

Snuggedy Swamp (D001). Depth was too shallow for adequate midwater trawling at this station.

Sampson Island (D002). Starting point for the trawl transect was always opposite the mouth of Sampson Island Creek. Tows were conducted in mid-channel of the South Edisto, trawling seaward.

Fenwick Island (D003). Starting point for the trawl transect was always Intracoastal Waterway Marker Number 154. Tows were conducted in the right-center portion of the South Edisto main channel trawling seaward.

Bay Point (D004). Starting point for the trawl transect was always the entrance marker for Big Bay Creek. Tows were conducted from this marker, trawling seaward parallel to the beach fronting the inlet of the South Edisto River.

III. COOPER RIVER:

The Tee (C001). Starting point for the trawl transect was always immediately seaward of the deep hole at the unmarked river marker in the confluence of the East and West Branches of the Cooper River. Tows were conducted in mid-channel, trawling seaward.

Big Island (C002). Starting point for the trawl transect was always Channel Marker Number 78. Tows were conducted in mid-channel, trawling seaward.

North Charleston (C003). Starting point for the trawl transect was always Buoy Number 58. Tows were conducted seaward, on a line between Buoy Number 58 and Buoy Number 54. On this transect Buoy Number 56 was passed to starboard.

Mouth of Cooper (C004). Starting point for the trawl transect was always opposite the seawardmost dock of the U.S. Naval facilities. Tows were conducted seaward on the port side of the main channel until the vessel track intersected the Cooper River Lower Range. The tow was then always completed on the Cooper River Lower Range.

Cummings Point (J003). Starting point for the trawl transect was always Bell Buoy Number 23. Tows were conducted seaward from Bell Buoy Number 23 toward Buoy Number C1 at the opening of the South Jetties, maintaining a depth greater than 6 m (20 ft).

LITERATURE CITED

- Bailey, Reeve M. (ed.). 1970. A list of common and scientific names of fishes from the United States and Canada. 3rd ed. Amer. Fish. Soc. Spec. Pub. No. 6, Washington, D. C. 150 p.
- Myatt, Evelyn N. 1974. Data processing instruction manual. Mar. Res. Research Institute Data Processing Doc. No. 1, S. C. Wildlf. Mar. Res. Dept., Charleston, S. C. 74 p., plus appendices.

NOTE

Distribution of this report does not constitute formal publication.
The data are subject to revision and interpretation.

 COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
 (M) (MIN)

 73185 73/06/08 E001 0 20 1

 YONGES IS

 AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)
ANCHOA MITCHILLI	347	0.532
MONACANTHUS-HISPIDUS	1	0.301
POMATOMUS SALTATRIX	2	0.665
SCOMBEROMORUS MACULATUS	1	0.001
TRACHYPENEUS COMSTRICTUS	1	0.001
LOLLIGUNCUA BREVIS	5	0.605
GRAND TOTAL	357	0.545

 COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
 (M) (MIN)

 73338 73/09/04 E001 0 20 1

 YONGES IS

 AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)
ANCHOA MICHILLI	1	0.005
CHLOROSCOMBRUS CHRYSURUS	6	0.018
CYPRINOMEMA OGLINUM	2	0.015
SCOMBEROMORUS MACULATUS	1	0.053
SELENE VOMER	1	0.001
GRAND TOTAL	11	0.093

North Edisto River - Yonges Island,
 Station E001


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*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/OY & LOCATION DEPTH DIRECTION DIRECTION
*****
73483 73/12/04 E001 1 20 1 1
YONGES IS AGAINST FLOOD
*****

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SPECIES TOTAL NUMBERS TOTAL WEIGHT (KG)
-----
ANCHOA MITCHILLI 5 0.011
POMATOMUS SALYATRIX 5 0.011
GRAND TOTAL 10 0.022

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ANCHOA MITCHILLI
POMATOMUS SALYATRIX
GRAND TOTAL

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/OY & LOCATION DEPTH DIRECTION DIRECTION
*****
74133 74/03/05 E001 0 20 1 1
YONGES IS AGAINST FLOOD
*****

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SPECIES TOTAL NUMBERS TOTAL WEIGHT (KG)
-----
ANCHOA MITCHILLI 401 0.375
MEMOPSIS BACHEI 401 0.375
GRAND TOTAL 802 0.750

```

ANCHOA MITCHILLI
MEMOPSIS BACHEI
GRAND TOTAL

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/OY & LOCATION DEPTH DIRECTION DIRECTION
*****
74214 74/06/03 E001 0 20 1 1
YONGES IS AGAINST FLOOD
*****

```

```

SPECIES TOTAL NUMBERS TOTAL WEIGHT (KG)
-----
ANCHOA HEPSETUS 45 0.007
ANCHOA MITCHILLI 1 0.050
POMATOMUS SALYATRIX 1 0.050
GRAND TOTAL 47 0.107

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ANCHOA HEPSETUS
ANCHOA MITCHILLI
POMATOMUS SALYATRIX
GRAND TOTAL

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/OY & LOCATION DEPTH DIRECTION DIRECTION
*****
74301 74/09/04 E001 0 20 1 1
YONGES IS AGAINST FLOOD
*****

```

```

SPECIES TOTAL NUMBERS TOTAL WEIGHT (KG)
-----
ANCHOA HEPSETUS 3 0.010
ANCHOA MITCHILLI 590 0.558
ANCHOA MITCHILLI CHRYSURUS 26 0.052
CHLOROSOMUS REGALIS 7 0.019
GONOPODUS COLEMANI 1 0.007
DEPRAILUS ALPIDOTUS 1 0.001
POMATOMUS SALYATRIX 2 0.258
PERNAUS SETIFERUS 69 0.797
CALLINECIES SAPIOUS 2 0.010
LOLLIGUNGULA BREVIS 2 0.010
GRAND TOTAL 709 1.656

```

ANCHOA HEPSETUS
ANCHOA MITCHILLI
ANCHOA MITCHILLI CHRYSURUS
CHLOROSOMUS REGALIS
GONOPODUS COLEMANI
DEPRAILUS ALPIDOTUS
POMATOMUS SALYATRIX
PERNAUS SETIFERUS
CALLINECIES SAPIOUS
LOLLIGUNGULA BREVIS
GRAND TOTAL


```

*****
COLLECTION DATE 74/12/03 STATION NUMBER 8001 TOM 1
NUMBER 74361 YR/MO/DY 74/12/03 & LOCATION YONGES IS DEPTH 0 DURATION 20 DIRECTION
*****
                AGAINST FLOOD
                *****
    
```

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)
ANCHORA MITCHELLII	28	0.035
CALLINECTES SARDIUS	18	0.005
PENAEUS SETIFERUS	1	0.150
GRAND TOTAL	47	0.190


```
*****
COLLECTION DATE STATION NUMBER SAMPLING TCM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
              (M)              (MIN)
-----
73184 73/06/08 E003 0 20 1
              BEARS BLUFF
*****
AGAINST FLOOD
*****
```

```
*****
SPECIES
-----
ANCHOA MITCHILLI 768 0.882
POMATOMUS SALTATRIX 1 0.002
              769 0.884
              GRAND TOTAL
*****
```

North Edisto River - Bears Bluff, Station E003

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*****
COLLECTION DATE STATION NUMBER SAMPLING TCM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
              (M)              (MIN)
-----
73343 73/09/05 E003 0 20 1
              BEARS BLUFF
*****
AGAINST FLOOD
*****
```

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*****
SPECIES
-----
ANCHOA HEPSETUS 1 0.009
ANCHOA MITCHILLI 21 0.627
CARANX CRYSOS 1 0.039
CHLOROSCOMBRUS CHRYSURUS 12 0.039
PEPRILUS ALEP IODIUS 3 0.073
POMATOMUS SALTATRIX 1 0.001
LULLIGUNCULA BREVIS 1 0.004
STOMOLOPHUS MELEAGRIS 2 0.004
              GRAND TOTAL
              44 0.181
*****
```

 COLLECTION NUMBER 74215 DATE 74/06/04 STATION NUMBER E003 TOW DIRECTION 1
 YR/MO/DY 74/06/04 BEARS BLUFF AGAINST FLOOD

 COLLECTION NUMBER 74302 DATE 74/09/04 STATION NUMBER E003 TOW DIRECTION 1
 YR/MO/DY 74/09/04 BEARS BLUFF AGAINST FLOOD

 SPECIES
 ANCHOA HEPSETUS 11 0.007
 ANCHOA MITCHILLI 663 0.832
 SCOMBEROMORUS MACULATUS 1 0.001
 CHRYSAORA QUINQUECIRRA 1 0.078
 LOLLIGUNCULA BREVIS 1 0.001
 GRAND TOTAL 683 0.919

 COLLECTION NUMBER 74132 DATE 74/03/05 STATION NUMBER EC23 TOW DIRECTION 1
 YR/MO/DY 74/03/05 BEARS BLUFF AGAINST FLOOD

 COLLECTION NUMBER 74302 DATE 74/09/04 STATION NUMBER E003 TOW DIRECTION 1
 YR/MO/DY 74/09/04 BEARS BLUFF AGAINST FLOOD

 SPECIES
 ANCHOA MITCHILLI 79 0.006
 AEGATHOA OCELLATA 3 0.007
 LOLLIGUNCULA BREVIS 82 0.013
 GRAND TOTAL 164 0.026

 SPECIES
 ANCHOA MITCHILLI 1121 0.892
 MEGALOPS LEIJOI 1 0.001
 MEGALOPS BACHEI 1 0.001
 GRAND TOTAL 1123 0.894

 COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
 NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION

 74382 74/12/03 E033 0 20 1
 BEARS BLUFF AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHORA MITCHILLI	720	0.709
BAIROLELLA CHRYSURA	1	0.012
BREVORTIA TYRANNUS	1	0.083
LEPIDOSTOMUS XANTHURUS	1	0.018
OLLIGONEURUS PUCIO	2	0.003
PALLASIA CHALCETES VULGARIS	15	0.001
PALLASIA CHALCETES VULGARIS	2	0.086
CALLINectes SAPIDUS	2	0.002
GRAND TOTAL	743	0.914


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*****
COLLECTION DATE STATION NUMBER SAMPLING TCM TCM
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION DIRECTION
*****
73182 73/06/CT E004 0 20 1
*****
DAHO RV
*****
AGAINST FLOOD
*****

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SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA MITCHILLI	209	0.199
SCOMBEROMORUS MACULATUS	3	0.001
LOLLIGUNGLA BREVIS	1	0.001
GRAND TOTAL	213	0.201

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TCM TCM
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION DIRECTION
*****
73349 73/09/06 E004 0 20 1
*****
DAHO RV
*****
AGAINST FLOOD
*****

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SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA MITCHILLI	44	0.016
OPYSTHONEMA OBLINUM	1	0.008
GRAND TOTAL	45	0.024

North Edisto River - Daho River,
Station E004


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*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DIRECTION DIRECTION
              73/12/C5          E004          1          1          1
              73/12/05          DAMHO RV          0          20          AGAINST FLOOD
*****

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SPECIES              TOTAL NUMBERS  TOTAL WEIGHT(KG)
-----
ANCHOA HEPSETUS      2          0.002
ANCHOA MITCHILLI    1902       1.185
ANCHOA MITCHILLI    2          0.001
ANCHOA MITCHILLI    1          0.008
ANCHOA MITCHILLI    1          0.001
CALLINECTES SAPIDUS 1          0.006
CALLINECTES SAPIDUS 1          0.006
GRAND TOTAL         1911       1.203

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*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DIRECTION DIRECTION
              74/06/04          E004          0          20          AGAINST FLOOD
              74/06/04          DAMHO RV          0          20          AGAINST FLOOD
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SPECIES              TOTAL NUMBERS  TOTAL WEIGHT(KG)
-----
ANCHOA HEPSETUS      4          0.004
ANCHOA MITCHILLI    291       0.272
RHOPILEMA VERRILLI  295       0.276
GRAND TOTAL         295       0.276

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*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DIRECTION DIRECTION
              74/03/C6          E004          0          20          AGAINST FLOOD
              74/03/06          DAMHO RV          0          20          AGAINST FLOOD
*****

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SPECIES              TOTAL NUMBERS  TOTAL WEIGHT(KG)
-----
ANCHOA MITCHILLI    142       0.126
ANCHOA MITCHILLI    1          0.001
ANCHOA MITCHILLI    1          0.001
NEROOPSIS BACHEI    1          0.001
GRAND TOTAL         142       0.126

```

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DIRECTION DIRECTION
              74/09/05          E004          0          20          AGAINST FLOOD
              74/09/05          DAMHO RV          0          20          AGAINST FLOOD
*****

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SPECIES              TOTAL NUMBERS  TOTAL WEIGHT(KG)
-----
ANCHOA HEPSETUS      9          0.040
ANCHOA MITCHILLI    12         0.009
CHLOROSCOMBRUS CHRYSURUS 3          0.015
OPTITHONEMA OGLINUM  2          0.014
PEPRILUS ALEPIDOTUS  1          0.016
SCOMBEROMORUS MACULATUS 1          0.033
PENAEUS SETIFERUS   1          0.013
CALLINECTES SAPIDUS  1          0.239
GRAND TOTAL         32         0.386

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*****
COLLECTION DATE 74/12/03 STATION NUMBER E004 TOW 1
NUMBER 74384 74/12/03 01400 RV SAMPLING DURATION 20 TOM
(DUR) (MIN) DIRECTION
*****
AGAINST FLOOD
*****

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SPECIES TOTAL NUMBERS TOTAL WEIGHT(KG)
ANCORA MITCHELLI 33 0.024
ANEMOPSIS LEIDYI 33 0.024
GRAND TOTAL

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*****
COLLECTION NUMBER 73181
DATE YR/MO/DY 73/06/07
STATION NUMBER & LOCATION E005
SAMPLING DEPTH (M) 0
DURATION (MIN) 20
TOW DIRECTION 1
AGAINST FLOOD
*****
    
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SPECIES
-----
ANGHOA MITCHILLI
MONACANTHUS HISPIDUS
GRAND TOTAL
TOTAL NUMBERS 279
TOTAL WEIGHT (KG) 0.371
                0.001
                ---
                0.372
    
```

North Edisto River - Steamboat Creek,
Station E005

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*****
COLLECTION NUMBER 73342
DATE YR/MO/DY 73/09/05
STATION NUMBER & LOCATION E005
SAMPLING DEPTH (M) 0
DURATION (MIN) 20
TOW DIRECTION 1
AGAINST FLOOD
*****
    
```

NO CATCH


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*****
COLLECTION DATE STATION NUMBER SAMPLING TOW DURATION TOW
NUMBER YR/MO/DY & LOCATION DEPTH (M) (MIN) DIRECTION
*****
73486 73/12/04 E005 1 20 1 AGAINST FLOOD
STEAMBOAT CR
*****
    
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*****
TOTAL NUMBERS 1
TOTAL WEIGHT (KG) 0.001
*****
    
```

```

*****
SPECIES ANCHOA MITCHILLI
          MONACANTHUS HISPIDUS
          SCOMBEROMORUS MACULATUS
          RHOPILEMA VERMILLI
          LOLLIGUNGULA BREVIS
          GRAND TOTAL
          1189
          1.181
    
```

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOW DURATION TOW
NUMBER YR/MO/DY & LOCATION DEPTH (M) (MIN) DIRECTION
*****
74131 74/03/05 E005 0 20 1 AGAINST FLOOD
STEAMBOAT CR
*****
    
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*****
TOTAL NUMBERS 262
TOTAL WEIGHT (KG) 0.221
*****
    
```

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*****
SPECIES ANCHOA MITCHILLI
          CALLINectes SAPIIDUS
          OVALIPES GUADALUPENSIS
          GRAND TOTAL
          264
          0.227
    
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```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOW DURATION TOW
NUMBER YR/MO/DY & LOCATION DEPTH (M) (MIN) DIRECTION
*****
74221 74/06/04 E005 0 20 1 AGAINST FLOOD
STEAMBOAT CR
*****
    
```

```

*****
TOTAL NUMBERS 1119
TOTAL WEIGHT (KG) 1.119
*****
    
```

```

*****
SPECIES ANCHOA MITCHILLI
          MONACANTHUS HISPIDUS
          SCOMBEROMORUS MACULATUS
          RHOPILEMA VERMILLI
          LOLLIGUNGULA BREVIS
          GRAND TOTAL
          1189
          1.181
    
```

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOW DURATION TOW
NUMBER YR/MO/DY & LOCATION DEPTH (M) (MIN) DIRECTION
*****
74306 74/09/04 E005 0 20 1 AGAINST FLOOD
STEAMBOAT CR
*****
    
```

```

*****
TOTAL NUMBERS 4
TOTAL WEIGHT (KG) 0.016
*****
    
```

```

*****
SPECIES ANCHOA MITCHILLI
          MONACANTHUS HISPIDUS
          SCOMBEROMORUS MACULATUS
          RHOPILEMA VERMILLI
          LOLLIGUNGULA BREVIS
          GRAND TOTAL
          128
          0.635
    
```



```

*****
COLLECTION DATE 74/12/04 STATION NUMBER 5035 TCM SAMPLING TCM DIRECTION
NUMBER 74388 74/12/04 5035 0 20 (MIN) 1
*****
LOCATION STEAMBOAT CR AGAINST FLOOD
*****

```

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCORA MITCHELLI	950	0.933
PERIPATIA PARTINICA	1	0.002
CELLIACUS STREPTUS	5	0.018
CELLIACUS BREVIS		0.018
GRAND TOTAL	957	0.954


```

*****
COLLECTION DATE STATION NUMBER SAMPLING DEPTH TID DIRECTION
NUMBER YR/MO/DY & LOCATION (M) (MIN) TOM
-----
73180 73/06/07 E006 0 20 1
*****
WADMALAW
*****
AGAINST FLOOD
*****

```

```

SPECIES TOTAL NUMBERS TOTAL WEIGHT (KG)
-----
ANCHOVA MITCHILLI 993 1.002
POMATOMUS SALATRIX 1 0.001
SCOMBEROMORUS MACULATUS 1 0.001
GRAND TOTAL 995 1.004

```

North Edisto River - Wadmaw Island,
Station E006

```

*****
COLLECTION DATE STATION NUMBER SAMPLING DEPTH TID DIRECTION
NUMBER YR/MO/DY & LOCATION (M) (MIN) TOM
-----
73341 73/09/05 E006 0 20 1
*****
WADMALAW
*****
AGAINST FLOOD
*****

```

```

SPECIES TOTAL NUMBERS TOTAL WEIGHT (KG)
-----
CARANX HIPPOS 1 0.001
MONACANTHUS HISPIDUS 1 0.001
GRAND TOTAL 2 0.002

```

 COLLECTION NUMBER 73489
 DATE YR/MO/DY 73/12/05
 STATION NUMBER & LOCATION E006
 WADMALAW
 SAMPLING DEPTH (M) 1
 TOW DURATION (MIN) 20
 TOW DIRECTION 1
 AGAINST FLOOD

SPECIES
 ANCHOA MITCHILLI 117 0.086
 CALLINectes SAPIDUS 1 0.001
 GRAND TOTAL 118 0.087
 TOTAL NUMBERS
 TOTAL WEIGHT (KG)

 COLLECTION NUMBER 74220
 DATE YR/MO/DY 74/06/04
 STATION NUMBER & LOCATION E006
 WADMALAW
 SAMPLING DEPTH (M) 0
 TOW DURATION (MIN) 20
 TOW DIRECTION 1
 AGAINST FLOOD

SPECIES
 ANCHOA MITCHILLI 1294 1.510
 SCOMBEROMORUS MACULATUS 1 0.001
 LOLLIGUNCULA BREVIS 5 0.003
 GRAND TOTAL 1300 1.514
 TOTAL NUMBERS
 TOTAL WEIGHT (KG)

 COLLECTION NUMBER 74130
 DATE YR/MO/DY 74/03/05
 STATION NUMBER & LOCATION E006
 WADMALAW
 SAMPLING DEPTH (M) 0
 TOW DURATION (MIN) 20
 TOW DIRECTION 1
 AGAINST FLOOD

SPECIES
 ALOSA SAPIDISSIMA 1 0.007
 ANCHOA MITCHILLI 50 0.071
 MENOPHSIS LEIDYI 1 0.001
 NEKOPSIS BACHEI 1 0.001
 GRAND TOTAL 51 0.078
 TOTAL NUMBERS
 TOTAL WEIGHT (KG)

 COLLECTION NUMBER 74307
 DATE YR/MO/DY 74/09/05
 STATION NUMBER & LOCATION E006
 WADMALAW
 SAMPLING DEPTH (M) 0
 TOW DURATION (MIN) 20
 TOW DIRECTION 1
 AGAINST FLOOD

SPECIES
 ANCHOA HERSETIUS 1 0.003
 ANCHOA MITCHILLI 40 0.038
 ANCHOA SCOMBERUS 11 0.040
 CHIROSCOMBERUS CHRYSURUS 1 0.001
 STELLIER LANCOLATUS 1 0.001
 SYNOUDUS FORTENSIS 1 0.001
 PENAEUS SETIFERUS 16 0.227
 CALLINECTES ORNATUS 1 0.011
 CALLINECTES SAPIDUS 1 0.175
 AEGATHOA OCULATA 1 0.001
 LOLLIGUNCULA BREVIS 1 0.001
 GRAND TOTAL 79 0.517
 TOTAL NUMBERS
 TOTAL WEIGHT (KG)


```

*****
COLLECTION DATE 74/12/04 STATION NUMBER E326 TOM DIRECTION 1
NUMBER YR/MO/DY 74/12/04 & LOCATION WADMALAH DURATION (MIN) 20 AGAINST FLOOD
SAMPLING DEPTH (M) 0
*****

```

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCODA MITCHILLI	202	0.225
MUGIL CURTISI	1	0.018
PERCULUS SETIFERUS	1	0.005
MNEYROPSIS LEIOPT	2	0.0
LOLLIGUNCULA BREVIS		
GRAND TOTAL	206	0.248

 COLLECTION NUMBER 73179 DATE YR/MO/DY 73/06/07 STATION NUMBER & LOCATION E007 PT OF PINES
 SAMPLING DEPTH (M) 0 DURATION (MIN) 20 TOW DIRECTION 1 TOW DIRECTION AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA MITCHILLI	45	0.042
MICROGASTER HISPIDUS	1	0.001
SCOMBEROMORUS MACULATUS	1	0.001
GRAND TOTAL	47	0.044

North Esisto River - Point of Pines,
 Station E007

 COLLECTION NUMBER 73340 DATE YR/MO/DY 73/09/05 STATION NUMBER & LOCATION E007 PT OF PINES
 SAMPLING DEPTH (M) 0 DURATION (MIN) 20 TOW DIRECTION 1 TOW DIRECTION AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
CARANX HIPPOS	1	0.001
GRAND TOTAL	1	0.001

 COLLECTION NUMBER 73488 DATE 73/12/05 STATION NUMBER EC37 LOCATION PT OF PINES
 SAMPLING DEPTH (M) 1 DURATION (MIN) 20 TOM DIRECTION 1 AGAINST FLOOD

SPECIES TOTAL NUMBERS TOTAL WEIGHT (KG)
 ANCHOA MITCHILLI 48 0.034
 GRAND TOTAL 48 0.034

 COLLECTION NUMBER 74219 DATE 74/06/04 STATION NUMBER E007 LOCATION PT OF PINES
 SAMPLING DEPTH (M) 0 DURATION (MIN) 20 TOM DIRECTION 1 AGAINST FLOOD

SPECIES TOTAL NUMBERS TOTAL WEIGHT (KG)
 ANCHOA HEPSETUS 1 0.001
 ANCHOA MITCHILLI 1287 1.127
 MICROPOGON UNDULATUS 2 0.001
 SCOMBEROMORUS MACULATUS 3 0.001
 LOLLIGUNCULA BREVIS 3 0.001
 GRAND TOTAL 1292 1.152

 COLLECTION NUMBER 74129 DATE 74/03/05 STATION NUMBER EC37 LOCATION PT OF PINES
 SAMPLING DEPTH (M) 0 DURATION (MIN) 20 TOM DIRECTION 1 AGAINST FLOOD

SPECIES TOTAL NUMBERS TOTAL WEIGHT (KG)
 LEIOSTOMUS XANTHURUS 1 0.015
 RHOPILEMA VERRILLI 2 0.026
 GRAND TOTAL 3 0.041

 COLLECTION NUMBER 74305 DATE 74/09/94 STATION NUMBER E037 LOCATION PT OF PINES
 SAMPLING DEPTH (M) 0 DURATION (MIN) 20 TOM DIRECTION 1 AGAINST FLOOD

SPECIES TOTAL NUMBERS TOTAL WEIGHT (KG)
 ANCHOA HEPSETUS 1 0.006
 GRAND TOTAL 1 0.006

 COLLECTION NUMBER 74386 DATE 74/12/04 STATION NUMBER E007 SAMPLING DEPTH (M) 0 DURATION (MIN) 20 FROM DIRECTION 1 AGAINST FLOOD *****

 PT OF PINES

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCORA HITCHELLI	87	0.110
COLLIGARCUA BREVIS	3	0.606
GRAND TOTAL	90	0.716


```

*****
COLLECTION DATE          STATION NUMBER   SAMPLING   TOM   TOM
NUMBER      YR/MO/DY      & LOCATION DEPTH    DURATION DIRECTION
              73178      73/06/06      E008      0      20      1
              *****
              DE VEUX BK
              *****
              AGAINST FLOOD
*****
    
```

```

SPECIES
-----
MNEMIDOPSIS LEIDYI
TUBULARIA CRUCEA
GRAND TOTAL
-----
TOTAL   TOTAL
NUMBERS WEIGHT(KG)
-----
0       0.0
    
```

North Existo River - Deveux Bank,
Station E008

```

*****
COLLECTION DATE          STATION NUMBER   SAMPLING   TOM   TOM
NUMBER      YR/MO/DY      & LOCATION DEPTH    DURATION DIRECTION
              73339      73/09/05      E008      0      20      1
              *****
              DE VEUX BK
              *****
              AGAINST FLOOD
*****
    
```

NO CATCH


```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DIRECTION DIRECTION
*****
73487 73/12/05 EC08 DE VEAUX BK 1 20 1 AGAINST FLOOD
*****
    
```

NO CATCH

```

SPECIES
TOTAL NUMBERS TOTAL WEIGHT(KG)
    
```

```

ANCHOA MITCHILLI 130 0.057
STOMOLOPHUS MELEAGRIS 1 0.054
GRAND TOTAL 131 0.121
    
```

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DIRECTION DIRECTION
*****
74128 74/03/05 EC28 DE VEAUX BK 0 20 1 AGAINST FLOOD
*****
    
```

```

SPECIES
TOTAL NUMBERS TOTAL WEIGHT(KG)
    
```

```

MEMBRAS MARTINICA 1 0.003
MEMOPSIS BACHELII 1 0.063
RHOPILEMA VERRILLI 1 1.446
STOMOLOPHUS MELEAGRIS 3 1.512
GRAND TOTAL 6 3.028
    
```

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DIRECTION DIRECTION
*****
74304 74/09/04 EC08 DE VEAUX BK 0 20 1 AGAINST FLOOD
*****
    
```

```

SPECIES
TOTAL NUMBERS TOTAL WEIGHT(KG)
    
```

```

ANCHOA HEPSETUS 3 0.008
ANCHOA MITCHILLI 6 0.006
CALLINECTES SAPIDUS 1 0.001
GRAND TOTAL 10 0.095
    
```



```

*****
COLLECTION NUMBER 74385
DATE YR/MO/DY 74/12/03
STATION NUMBER EC98
& LOCATION DE VEUX BK
SAMPLING DEPTH (M) 0
ICM DURATION (MIN) 20
TON DIRECTION 1
AGAINST FLOOD
*****

```

```

TOTAL NUMBERS
TOTAL WEIGHT(KG)

```

```

78
2
80
0.073
0.003
0.076

```

SPECIES

ANCHORA MITCHELLI

CALLINECTES SAPIDUS

GRAND TOTAL


```

*****
COLLECTION DATE STATION NUMBER SAMPLING TIME TOW
NUMBER YR/MO/DY & LOCATION (M) DURATION DIRECTION
*****
73176 73/06/06 D002 0 20 1
*****
SAMPSON IS
*****
AGAINST FLOOD
*****

```

```

SPECIES TOTAL TOTAL
NUMBERS WEIGHT (KG)
-----
ANCHOA MITCHILLI 930 1.123
BREVORTIA TYRANNUS 21 1.080
MONACANTHUS HISPIDUS 2 0.051
PICMATOMUS SALTATRIX 2 0.009
STELLIFER LANCEOLATUS 1 0.001
-----
GRAND TOTAL 955 2.231

```

South Edisto River - Sampson Island,
Station D002

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TIME TOW
NUMBER YR/MO/DY & LOCATION (M) DURATION DIRECTION
*****
73347 73/09/06 D002 0 20 1
*****
SAMPSON IS
*****
AGAINST FLOOD
*****

```

```

SPECIES TOTAL TOTAL
NUMBERS WEIGHT (KG)
-----
ANCHOA MITCHILLI 779 0.381
OPTIMONEMA OCLINUM 1 0.001
SCOMBEROMORUS MACULATUS 85 0.345
PENAEUS SETIFERUS 1 0.001
-----
GRAND TOTAL 865 0.744

```



```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
(MIN)
-----
74137 74/03/26 D022 0 20 1
AGAINST FLOOD
SAMPSON IS
*****

```

```

SPECIES TOTAL TOTAL
NUMBERS WEIGHT(KG)
-----

```

ANCHOA MITCHILLI

57

0.023

PALAEONETES PUGIO

3

0.001

GRAND TOTAL

60

0.024

```

TOTAL TOTAL
NUMBERS WEIGHT(KG)
-----

```

ANCHOA MITCHILLI 327 0.075
 BREVOORTIA TYRANNUS 3 0.031
 CYMATOCYBUS SALTATRIX 1 0.004
 SCOMBEROMORPHUS MACULATUS 135 0.454
 PENAEUS SETIFERUS 467 0.569

GRAND TOTAL

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
(MIN)
-----
74224 74/06/05 D002 0 20 1
AGAINST FLOOD
SAMPSON IS
*****

```

```

SPECIES TOTAL TOTAL
NUMBERS WEIGHT(KG)
-----

```

ANCHOA MITCHILLI 285 0.304
 BREVOORTIA TYRANNUS 14 0.172
 CYMATOCYBUS SALTATRIX 1 0.022
 SCOMBEROMORPHUS MACULATUS 1 0.001
 PENAEUS AZTECUS 12 0.017
 TRACHYPNEUS CONSTRICTUS 1 0.002

317

0.575

GRAND TOTAL

```

TOTAL TOTAL
NUMBERS WEIGHT(KG)
-----

```

ALOSA SAPIDISSIMA 2 0.006
 ANCHOA MITCHILLI 236 0.240
 BREVOORTIA TYRANNUS 8 0.034
 DOROSOMA PETENENSE 1 0.110
 MEMBRAS MARTINICA 1 0.013
 MICROPOGON UNDULATUS 990 0.179
 STELLIFER LANCEOLATUS 1 0.004
 PENAEUS SETIFERUS 4 0.016

GRAND TOTAL

1250

1.327

South Edisto River - Fenwick Island,
Station D003

```

*****
COLLECTION DATE STATION NUMBER SAMPLING DURATION TOW
NUMBER YR/MO/DY & LOCATION DEPTH (M) (MIN) DIRECTION
-----
73493 73/12/06 0003 0 20 1
*****
FENWICK IS
*****
AGAINST FLOOD
*****

SPECIES TOTAL TOTAL
NUMBERS WEIGHT (KG)
-----
ANCUDA MITCHELLI 2536 1.581
BRYOZOA 7 0.148
CYCLOPS 1 0.007
MYSIDAE 17 0.007
PENAEUS SETIFERUS 120 0.006
CALLINECTES SAPIOLUS 1 0.032
-----
GRAND TOTAL 2683 2.335

```



```

*****
COLLECTION NUMBER 73174
DATE YR/MO/DY 73/06/06
STATION NUMBER & LOCATION DC04
SAMPLING DEPTH (M) 0
TOW DURATION (MIN) 20
TOW DIRECTION 1
*****
AGAINST FLOOD
*****

```

```

SPECIES
-----
ANCHOA MITCHILLI 554 0.644
HYPSOBLENNIUS HENTZI 1 0.013
GRAND TOTAL 555 0.657

```

South Edisto River - Bay Point,
Station D004

```

*****
COLLECTION NUMBER 73345
DATE YR/MO/DY 73/09/06
STATION NUMBER & LOCATION D004
SAMPLING DEPTH (M) 0
TOW DURATION (MIN) 20
TOW DIRECTION 1
*****
AGAINST FLOOD
*****

```

```

SPECIES
-----
ANCHOA HEPSETUS 1 0.002
GRAND TOTAL 1 0.002

```

 COLLECTION NUMBER 73491 DATE YR/MO/DY 73/12/06 STATION NUMBER & LOCATION 5004 BAY POINT TOW DIRECTION 1 AGAINST FLOOD SAMPLING DEPTH (M) 1 TOM DURATION (MIN) 20 ICM DIRECTION 1 AGAINST FLOOD

NO CATCH

 SPECIES
 ANCHOA MITCHILLI 320 0.347
 SPHEROIDEA MACULATUS 1 0.001
 TRICHTURUS LEPTURUS 1 0.067
 PENAEUS AZTECUS 1 0.012
 STOMOLOPHUS MELEGRIS 6 0.021
 MEMBRAS MARTINICA 7 0.006
 NEMOPOPSIS LEIDYI 338 5.897
 LOLLIGUNGULA BREVIS
 GRAND TOTAL

 COLLECTION NUMBER 74135 DATE YR/MO/DY 74/03/06 STATION NUMBER & LOCATION 0004 BAY POINT TOW DIRECTION 1 AGAINST FLOOD SAMPLING DEPTH (M) 0 TOM DURATION (MIN) 20 ICM DIRECTION 1 AGAINST FLOOD

 SPECIES
 ANCHOA MITCHILLI 686 0.542
 BREVOORTIA TYRANNUS 1 0.018
 CALLINectes SAPIOUS 1 0.002
 MEMBRAS MARTINICA 688 0.562
 NEMOPOPSIS LEIDYI
 GRAND TOTAL

 COLLECTION NUMBER 74311 DATE YR/MO/DY 74/09/06 STATION NUMBER & LOCATION 0004 BAY POINT TOW DIRECTION 1 AGAINST FLOOD SAMPLING DEPTH (M) 0 TOM DURATION (MIN) 20 ICM DIRECTION 1 AGAINST FLOOD

 SPECIES
 ANCHOA MITCHILLI 12 0.044
 CHLOROSCOMBRUS CHRYSURUS 4 0.004
 STOMOLOPHUS MELEGRIS 16 0.048
 GRAND TOTAL

 COLLECTION NUMBER 74390 DATE YR/MO/DY 74/12/05 STATION NUMBER & LOCATION 0004 BAY POINT TOW DIRECTION 1 AGAINST FLOOD SAMPLING DEPTH (M) 0 TOM DURATION (MIN) 20 ICM DIRECTION 1 AGAINST FLOOD

 SPECIES
 ALOSA AESTIVALIS 1 0.003
 ANCHOA MITCHILLI 23 0.054
 MEMBRAS MARTINICA 76 3.171
 CALLINectes SAPIOUS 1 0.001
 NEMOPOPSIS LEIDYI 2 0.005
 LOLLIGUNGULA BREVIS 103 0.204
 GRAND TOTAL

Cooper River - The Tee,
Station C001

```
*****
COLLECTION DATE          STATION NUMBER   SAMPLING   TOM   TOM
NUMBER   YR/MO/DY        & LOCATION   DEPTH     DURATION DIRECTION
              (M)           (MIN)
-----
73188   73/06/18        C001      0       20       1
              THE TEE
*****
AGAINST FLOOD
```

```
*****
SPECIES
-----
ANACHARIS CANADENSIS      TOTAL   TOTAL
                          NUMBERS  WEIGHT(KG)
                          -----
                          0         1.361
                          -----
                          1.361
GRAND TOTAL
```

```
*****
COLLECTION DATE          STATION NUMBER   SAMPLING   TOM   TOM
NUMBER   YR/MO/DY        & LOCATION   DEPTH     DURATION DIRECTION
              (M)           (MIN)
-----
73335   73/09/03        C001      0       20       1
              THE TEE
*****
AGAINST FLOOD
```

```
*****
SPECIES
-----
ANACHARIS CANADENSIS      TOTAL   TOTAL
                          NUMBERS  WEIGHT(KG)
                          -----
                          0         0.057
                          -----
                          0.057
GRAND TOTAL
```



```

*****
COLLECTION DATE STATION NUMBER SAMPLING TCM TOW
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION
-----
73482 73/12/03 C021 1 20 1
THE TEE AGAINST FLOOD
*****

```

NO CATCH


```

*****
COLLECTION DATE STATION NUMBER SAMPLING TCM TOM
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION DIRECTION
-----
73187 73/06/18 C032 0 20 1
*****
BIG ISLAND
*****
AGAINST FLOOD
*****

```

```

SPECIES
-----
BREVOORTIA TYRANNUS 60 0.056
ANACHARIS CANADENSIS 3.021
GRAND TOTAL 60 0.077

```

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TCM TOM
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION DIRECTION
-----
73334 73/09/03 C002 0 20 1
*****
BIG ISLAND
*****
AGAINST FLOOD
*****

```

```

SPECIES
-----
ANACHARIS CANADENSIS 0 0.170
GRAND TOTAL 0 0.170

```

Cooper River - Big Island
Station C002


```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION
-----
73481 73/12/03 C002 1 20 1
BIG ISLAND AGAINST FLOOD
*****

```

NO CATCH

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION
-----
74126 74/03/04 C002 0 20 1
BIG ISLAND AGAINST FLOOD
*****

```

NO CATCH

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION
-----
74210 74/06/03 C002 0 20 1
BIG ISLAND AGAINST FLOOD
*****

```

NO CATCH

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION
-----
74297 74/09/03 C002 0 20 1
BIG ISLAND AGAINST FLOOD
*****

```

```

SPECIES TOTAL TOTAL
NUMBERS WEIGHT(KG)
-----
ALOSA SAPIDISSIMA 1 0.002
CALLINectes SAPIOUS 1 0.367
ANACHARIS CANADENSIS 1 0.069
GRAND TOTAL 2 0.069

```

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION
-----
74378 74/12/02 C002 0 20 1
BIG ISLAND AGAINST FLOOD
*****

```

```

SPECIES TOTAL TOTAL
NUMBERS WEIGHT(KG)
-----
ALOSA AESTIVALIS 1 0.002
ANCHOVA MITCHILLI 1 0.100
GRAND TOTAL 2 0.102

```



```

*****
COLLECTION NUMBER 73186
DATE YR/MO/DY 73/06/18
STATION NUMBER & LOCATION C003
SAMPLING DEPTH (M) 0
DURATION (M: N) 20
TOW DIRECTION 1
*****
N CHARLESTON
*****
AGAINST FLOOD

```

```

SPECIES
-----
BREVORTIA TYRANNUS
LEPOMIS MACROCHIRUS
GRAND TOTAL
-----
TOTAL NUMBERS 4
TOTAL WEIGHT(KG) 0.003
0.005
0.006

```

Cooper River - North Charleston,
Station C003

```

*****
COLLECTION NUMBER 73333
DATE YR/MO/DY 73/09/03
STATION NUMBER & LOCATION C003
SAMPLING DEPTH (M) 0
DURATION (MIN) 20
TOW DIRECTION 1
*****
N CHARLESTON
*****
AGAINST FLOOD

```

NO CATCH

```

*****
COLLECTION NUMBER 73460
DATE YR/MO/DY 73/12/03
STATION NUMBER & LOCATION C003
SAMPLING DEPTH (M) 1
DURATION (MIN) 20
TOW DIRECTION 1
*****
N CHARLESTON
*****
AGAINST FLOOD

```

NO CATCH


```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
*****
74125 74/03/04 C003 N CHARLESTON 0 20 1
*****
AGAINST FLOOD
*****

```

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
*****
74296 74/09/03 C003 N CHARLESTON 0 20 1
*****
AGAINST FLOOD
*****

```

NO CATCH

TOTAL
NUMBERS

TOTAL
WEIGHT(KG)

4
4

0.004
0.004

GRAND TOTAL

SPECIES

ANCHOA MITCHILLI

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
*****
74377 74/12/02 C003 N CHARLESTON 0 20 1
*****
AGAINST FLOOD
*****

```

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
*****
74209 74/06/03 C003 N CHARLESTON 0 20 1
*****
AGAINST FLOOD
*****

```

NO CATCH

NO CATCH


```

*****
COLLECTION DATE STATION NUMBER SAMPLING TCM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
-----
73190 73/06/18 C004 0 20 1
MOUTH AGAINST FLOOD
*****

```

NO CATCH

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TCM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
-----
73337 73/09/04 C004 0 20 1
MOUTH AGAINST FLOOD
*****

```

Cooper River - Mouth of Cooper,
Station C004

```

SPECIES TOTAL TOTAL
NUMBERS WEIGHT(KG)
-----
ANCHOA MITCHILLI 1 0.001
GRAND TOTAL 1 0.001

```

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*****
COLLECTION DATE STATION NUMBER SAMPLING TCM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
-----
73479 73/12/03 C004 1 20 1
MOUTH AGAINST FLOOD
*****

```

NO CATCH


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*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION DIRECTION
*****
74124 74/03/04 C004 0 20 1 AGAINST FLOOD
MOUTH
*****

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*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION DIRECTION
*****
74299 74/09/03 C004 0 20 1 AGAINST FLOOD
MOUTH
*****

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*****
SPECIES TOTAL TOTAL TOTAL
NUMBERS WEIGHT(KG) WEIGHT(KG)
*****
PENAEUS SETIFERUS 1 0.012
CYANEA CAPILLATA 2 0.026
GRAND TOTAL 3 0.038
*****

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*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION DIRECTION
*****
74212 74/06/03 C004 0 20 1 AGAINST FLOOD
MOUTH
*****

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*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION DIRECTION
*****
74376 74/12/02 C004 0 20 1 AGAINST FLOOD
MOUTH
*****

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*****
SPECIES TOTAL TOTAL
NUMBERS WEIGHT(KG) WEIGHT(KG)
*****
ANCHOA MITCHILLI 117 0.013
SYMPHURUS PLAGIOSA 118 0.002
GRAND TOTAL 235 0.015
*****

```

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION DIRECTION
*****
74299 74/09/03 C004 0 20 1 AGAINST FLOOD
MOUTH
*****

```

```

*****
SPECIES TOTAL TOTAL
NUMBERS WEIGHT(KG) WEIGHT(KG)
*****
ANCHOA HEPSETUS 1 0.006
NEMOPSIS BACHEI 1 0.006
GRAND TOTAL 2 0.006
*****

```

NO CATCH


```

*****
COLLECTION NUMBER 73189
DATE YR/MO/DY 73/06/18
STATION NUMBER & LOCATION J003
SAMPLING DEPTH (M) 0
DURATION (MIN) 20
TOW DIRECTION 1
*****
AGAINST FLOOD
CUMMINGS PT
*****

```

```

SPECIES
-----
ANCHOA MITCHILLI
MICROPOGON UNDULATUS
-----
TOTAL NUMBERS 2
TOTAL WEIGHT (KG) 0.003
-----
GRAND TOTAL 3 0.006
-----

```

Cooper River - Cummings Point,
Station J003

```

*****
COLLECTION NUMBER 73336
DATE YR/MO/DY 73/09/04
STATION NUMBER & LOCATION J003
SAMPLING DEPTH (M) 0
DURATION (MIN) 20
TOW DIRECTION 1
*****
AGAINST FLOOD
CUMMINGS PT
*****

```

```

SPECIES
-----
ANCHOA MITCHILLI
ANACHARIS CANADENSIS
-----
TOTAL NUMBERS 16
TOTAL WEIGHT (KG) 0.002
-----
GRAND TOTAL 16 0.049
-----

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*****
COLLECTION NUMBER 73476
DATE YR/MO/DY 73/12/03
STATION NUMBER & LOCATION J003
SAMPLING DEPTH (M) 1
DURATION (MIN) 20
TOW DIRECTION 1
*****
AGAINST FLOOD
CUMMINGS PT
*****

```

NO CATCH


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*****
COLLECTION DATE STATION NUMBER SAMPLING TCA TOM DIRECTION
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION
-----
74123 74/03/04 J003 0 20 1 AGAINST FLOOD
*****
CUMMINGS PT
*****

```

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
CYANEA CAPILLATA	20	0.542
STECOPOPHUS MELAGRIS	21	1.021
GRAND TOTAL		1.563

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*****
COLLECTION DATE STATION NUMBER SAMPLING TCA TOM DIRECTION
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION
-----
74213 74/06/03 J003 0 20 1 AGAINST FLOOD
*****
CUMMINGS PT
*****

```

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA MITCHILLI	311	0.251
REVOURTELLI TYRANNUS	5	0.002
SCOPelogrus maculatus	10	0.604
PEANUS AZTECUS	132	0.722
GRAND TOTAL	458	0.979

```

*****
COLLECTION DATE STATION NUMBER SAMPLING TCA TOM DIRECTION
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION
-----
74300 74/09/03 J003 0 20 1 AGAINST FLOOD
*****
CUMMINGS PT
*****

```

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA HEPSETUS	1	9.003
ANCHOA MITCHILLI	1220	9.899
CHLOROSOMBRUS CHRYSURUS	2	0.018
SCOPelogrus maculatus	3	0.014
PEANUS SETIFERUS	14	0.264
LOLLIGUNCUA BREVIS	3	0.610
GRAND TOTAL	1250	9.027

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*****
COLLECTION DATE STATION NUMBER SAMPLING TCA TOM DIRECTION
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION
-----
74380 74/12/02 J003 0 20 1 AGAINST FLOOD
*****
CUMMINGS PT
*****

```

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA MITCHILLI	312	0.556
REVOURTELLI TYRANNUS	1	0.072
MUGILUS ALBENSIS	1	0.007
PEANUS SETIFERUS	33	0.305
LOLLIGUNCUA BREVIS	1	0.001
GRAND TOTAL	350	0.693

TWENTY-FIVE HOUR STATION SUPPLEMENT

During the second year of the program, additional midwater trawl tows were conducted during three quarters of the year at three selected 25-hour stations in the North and South Edisto and Cooper Rivers. These studies were added to assess tidal and day-night influences on midwater nektonic communities. All procedures were identical to those previously described (pages 1 through 5), but midwater trawling was conducted on maximum flood and maximum ebb, both day and night, rather than against flood tide during daylight only.

Twenty-five hour stations were located at Point of Pines, Fenwick Island, and Fort Johnson in the North Edisto, South Edisto, and Cooper River estuaries, respectively (Figure 1, Table 1). These stations were occupied seasonally with the midwater trawling included in May, July, and November 1974.

The data are organized by station, date, and tide stage. The tables were generated by IBM 370/145 computer utilizing the Estuarine Survey's computer program (FORTRAN) entitled "Trawl Catch Description by Collection Number."


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.....
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
(M) (MIN)
.....
74181 74/05/01 E257 0 20 1
PT OF PINES AGAINST FLOOD
.....
    
```

```

.....
SPECIES TOTAL TOTAL
NUMBERS WEIGHT(KG)
.....
ANCHOA MITCHILLI 641 0.908
MNEIOPSIS LEIDYI
.....
GRAND TOTAL 641 0.908
    
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North Ezisto River - Point of Pines
25-hour station E257

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.....
COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
(M) (MIN)
.....
74183 74/05/01 E257 0 20 3
PT OF PINES AGAINST EBB
.....
    
```

```

.....
SPECIES TOTAL TOTAL
NUMBERS WEIGHT(KG)
.....
ANCHOA MITCHILLI 32 0.032
BAIROIELLA CHRYSURA 1 0.113
POMATONUS SALTATRIX 1 0.227
TRICHIURUS LEPTURUS 1 0.113
STOMOLOPHUS MELEAGRIS 3 3.175
.....
GRAND TOTAL 38 3.660
    
```


.....
 COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
 (M) (MIN)

 74251 74/07/09 E257 0 20 1

 PT OF PINES

 AGAINST FLOOD

.....
 COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
 (M) (MIN)

 74249 74/07/09 E257 0 20 1

 PT OF PINES

 AGAINST FLOOD

SPECIES TOTAL TOTAL
 NUMBERS WEIGHT(KG)

 ANCHOA MITCHILLI 4 0.002
 ANCHOA MESPSETUS 1 0.002
 MACHIONOPSIS LEIDYI 5 0.004

 GRAND TOTAL 5 0.004

SPECIES TOTAL TOTAL
 NUMBERS WEIGHT(KG)

 ANCHOA MESPSETUS 4 0.006
 ANCHOA MITCHILLI 2 0.003
 CHAYSARA QUINQUECIRRHIA 2 0.007
 LOLLIGUNCULA BREVIS 8 0.002

 GRAND TOTAL 8 0.016

.....
 COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
 (M) (MIN)

 74252 74/07/10 E257 0 20 3

 PT OF PINES

 AGAINST EBB

.....
 COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
 (M) (MIN)

 74250 74/07/09 E257 0 20 3

 PT OF PINES

 AGAINST EBB

SPECIES TOTAL TOTAL
 NUMBERS WEIGHT(KG)

 LOLLIGUNCULA BREVIS 7 0.005
 PEPRILUS ALEPIDOTUS 1 0.001
 ANCHOA MITCHILLI 1 0.002
 CALLINECTES ORNATUS 4 0.004
 HEROS CUCUMIS 2 1.361
 STOMOLOPHUS HELEAGRIS 15 1.373
 MACHIONOPSIS LEIDYI

 GRAND TOTAL 15 1.373

SPECIES TOTAL TOTAL
 NUMBERS WEIGHT(KG)

 ANCHOA MITCHILLI 22 0.028
 ANCHOA MESPSETUS 16 0.016
 MACHIONOPSIS LEIDYI 38 0.044

 GRAND TOTAL 38 0.044

.....
 COLLECTION DATE STATION NUMBER SAMPLING DEPTH TOM TOM
 NUMBER YR/MO/DY & LOCATION (M) (MIN) DIRECTION

 74253 74/07/10 E257 0 20 1

 PT OF PINES AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)
ANCHOA WITCHILLI	373	0.170
ANCHOA HEPSETUS	5	0.005
CHRYSOORA QUINQUECIRRA	2	0.0
GRAND TOTAL	380	0.175

COLLECTION NUMBER	DATE	STATION NUMBER & LOCATION	SAMPLING DEPTH (M)	TOW DURATION (MIN)	TOW DIRECTION	COLLECTION NUMBER	DATE	STATION NUMBER & LOCATION	SAMPLING DEPTH (M)	TOW DURATION (MIN)	TOW DIRECTION
74362	74/11/12	E257 PT OF PINES	0	20	1 AGAINST FLOOD	74364	74/11/13	E257 PT OF PINES	0	20	1 AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA MITCHILLI	2473	2.530
CHLOROSCOMBRUS CHRYSURUS	2	0.010
MNEMIOPSIS LEIDYI		
GRAND TOTAL	2475	2.540

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA MITCHILLI	129	0.150
MUGIL CUREMA	2	0.022
BAIRDIELLA CHRYSURA	1	0.012
LOLLIGUNCULA BREVIS	12	0.040
MEMBRAS MARTINICA	21	0.042
PALAEOMNETES PUGIO	3	0.002
PENAEUS SETIFERUS	1	0.012
OPHICHTHUS GOMESI	1	0.025
MNEMIOPSIS LEIDYI		
GRAND TOTAL	170	0.305

COLLECTION NUMBER	DATE	STATION NUMBER & LOCATION	SAMPLING DEPTH (M)	TOW DURATION (MIN)	TOW DIRECTION	COLLECTION NUMBER	DATE	STATION NUMBER & LOCATION	SAMPLING DEPTH (M)	TOW DURATION (MIN)	TOW DIRECTION
74363	74/11/12	E257 PT OF PINES	0	20	3 AGAINST EBB	74365	74/11/13	E257 PT OF PINES	0	20	3 AGAINST EBB

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA MITCHILLI	36	0.050
LOLLIGUNCULA BREVIS	3	0.012
MUGIL CUREMA	3	0.031
MEMBRAS MARTINICA	7	0.010
MYZONIA PUNCTATUS	2	0.020
CALLINectes SAPIIDUS	1	0.113
PALAEOMNETES PUGIO	1	0.001
MNEMIOPSIS LEIDYI	1	0.003
PORTUNUS GIBBESII	1	0.002
GRAND TOTAL	54	0.242

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA HEPSETUS	5	0.050
ANCHOA MITCHILLI	27	0.040
LOLLIGUNCULA BREVIS	1	0.002
MEMBRAS MARTINICA	1	0.002
STORLOPHUS MELLAGRIS	1	1.568
PALAEOMNETES PUGIO	1	0.001
MNEMIOPSIS LEIDYI		
BERGE CUCUMIS		
GRAND TOTAL	36	1.683

.....
 COLLECTION DATE STATION NUMBER SAMPLING DEPTH TOW TOW
 NUMBER YR/MO/DY & LOCATION (M) (MIN) DIRECTION

 74366 7/11/13 E257 0 20 1

 PT OF PINES AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA MITCHELLI	6120	7.768
CHLOROSCOMBRUS CHRYSURUS	6	0.015
LOLLIGUNCULA BREVIS	26	0.100
GRAND TOTAL	6152	7.883

.....
 COLLECTION DATE STATION NUMBER SAMPLING TOW TOW
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
 (H) (MIN)

 74194 74/05/06 D253 0 20 1
 FENWICK IS AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA HEPSETUS	1	0.008
ANCHOA MITCHILLI	1661	2.041
LAGOCEPHALUS LAEVIGATUS	1	0.001
LEIOTOMUS XANTHURUS	1	0.008
MICROPOGON UNDULATUS	7	0.113
POMATOMUS SALTATORIX	1	0.057
SPHOERODES MACULATUS	1	0.001
STELLIFER LANCEOLATUS	1	0.008
PALAEONETES VULGARIS	1	0.001
PENAEUS SETIFERUS	5	0.085
CALLINectes ORNATUS	3	0.227
LOLLIGUNCULA BREVIS	1	0.002
MNEPTOPSIS LEIDYI		
SCYPHOZOA	8	0.0
GRAND TOTAL	1692	2.552

South Zaireo River - Fenwick Island
 05-hour station D253

.....
 COLLECTION DATE STATION NUMBER SAMPLING TOW TOW
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
 (H) (MIN)

 74195 74/05/06 D253 0 20 3
 FENWICK IS AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA HEPSETUS	3	0.006
ANCHOA MITCHILLI	1269	1.814
BAIROIELLA CHRYSURA	1	0.007
BREVOORTIA TYRANNUS	18	0.454
MICROPOGON UNDULATUS	31	0.060
PHONOTUS SP.	2	0.002
RISSOLA MARGINATA	3	0.012
STELLIFER LANCEOLATUS	5	0.010
SYMPHURUS PLAGIOSA	3	0.004
PENAEUS SETIFERUS	5	0.045
TRACHYNEUS CONSTRICTUS	2	0.003
CALLINectes ORNATUS	1	0.005
MNEPTOPSIS LEIDYI		
RHOPILETA VERRILLI	3	0.150
GRAND TOTAL	1346	2.572

.....
 COLLECTION DATE 74/05/07 STATION NUMBER 0253 TOM 1
 NUMBER 7419R YR/MO/DY & LOCATION FENWICK IS DIRECTION AGAINST FLOOD
 SAMPLING DEPTH (M) 0 DURATION (MIN) 20

 FENWICK IS

 AGAINST FLOOD

.....
 COLLECTION DATE 74/05/07 STATION NUMBER 0253 TOM 1
 NUMBER 74196 YR/MO/DY & LOCATION FENWICK IS DIRECTION AGAINST FLOOD
 SAMPLING DEPTH (M) 0 DURATION (MIN) 20

 FENWICK IS

 AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)
ANCHOA MITCHILLI	449	0.908
GOBIOSOMA BOSCI	1	0.003
LEIDOSTOMUS XANTHURUS	3	0.010
MICROPOGON UNULATUS	70	0.085
PENAEUS SETIFERUS	16	0.227
TRACHYPNEUS CONSTRICTUS	2	0.003
CALLINectes ORNATUS	5	0.025
CALLINectes SARDUS	1	0.008
MEGALOPUS LEIDYI	1	0.008
NEOMOPSIS BACHEI	5	0.142
RHOPILEMA VERRILLI	555	1.427
GRAND TOTAL	555	1.427

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)
ANCHOA MITCHILLI	1475	2.268
BREVORTIA TYRANNUS	10	0.227
MICROPOGON UNULATUS	30	0.190
STELLIFER LANCEOLATUS	19	0.085
SYMPHUS PLAGIOSA	1	0.002
PRINECTES MACULATUS	2	0.003
PALAEOMETES PUGIO	3	0.002
PENAEUS SETIFERUS	10	0.227
TRACHYPNEUS CONSTRICTUS	1	0.008
CALLINectes ORNATUS	3	0.028
LOLLIGONULA BREVIB	2	0.004
MEGALOPUS LEIDYI	2	0.004
NEOMOPSIS BACHEI	1556	3.030
SCYPHOZOA	1556	3.030
GRAND TOTAL	1556	3.030

.....
 COLLECTION DATE 74/05/07 STATION NUMBER 0253 TOM 3
 NUMBER 74197 YR/MO/DY & LOCATION FENWICK IS DIRECTION AGAINST EBB
 SAMPLING DEPTH (M) 0 DURATION (MIN) 20

 FENWICK IS

 AGAINST EBB

.....
 COLLECTION DATE 74/05/07 STATION NUMBER 0253 TOM 3
 NUMBER 74197 YR/MO/DY & LOCATION FENWICK IS DIRECTION AGAINST EBB
 SAMPLING DEPTH (M) 0 DURATION (MIN) 20

 FENWICK IS

 AGAINST EBB

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)
ANCHOA MITCHILLI	454	0.908
APIUS FELIS	1	0.027
BREVORTIA TYRANNUS	1	0.001
MICROPOGON UNULATUS	116	0.227
PEPRILLUS ALEPIDOTUS	1	0.113
PRIONCYUS SP.	1	0.001
STELLIFER LANCEOLATUS	80	0.340
TRACHYPNEUS LEPTURUS	6	0.227
PENAEUS SETIFERUS	23	0.454
CALLINectes ORNATUS	3	0.019
LOLLIGONULA BREVIB	10	0.050
MEGALOPUS LEIDYI	12	0.085
NEOMOPSIS BACHEI	709	2.452
RHOPILEMA VERRILLI	709	2.452
GRAND TOTAL	709	2.452

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)
ANCHOA MITCHILLI	454	0.908
APIUS FELIS	1	0.027
BREVORTIA TYRANNUS	1	0.001
MICROPOGON UNULATUS	116	0.227
PEPRILLUS ALEPIDOTUS	1	0.113
PRIONCYUS SP.	1	0.001
STELLIFER LANCEOLATUS	80	0.340
TRACHYPNEUS LEPTURUS	6	0.227
PENAEUS SETIFERUS	23	0.454
CALLINectes ORNATUS	3	0.019
LOLLIGONULA BREVIB	10	0.050
MEGALOPUS LEIDYI	12	0.085
NEOMOPSIS BACHEI	709	2.452
RHOPILEMA VERRILLI	709	2.452
GRAND TOTAL	709	2.452

.....
 COLLECTION DATE 74/07/11 STATION NUMBER 0253 TOM 1
 NUMBER 74259 YR/MO/DY 74/07/11 SAMPLING DEPTH 0 DURATION (MIN) 20 DIRECTION 1
 AGAINST FLOOD
 FENWICK IS

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)
ANCHOA MITCHILLI	561	0.454
ANCHOA HEPSETUS	10	0.030
MUGIL CEPHALUS	1	0.005
POMATOMUS SALTATRIX	1	0.014
LEIOTOMUS XANTHURUS	1	0.015
CYNOSCION REGALIS	3	0.030
DOROSOMA PETENENSE	5	0.008
LOLLIGUNGULA BREVIS	4	0.008
NEMOPHIS BACHEI		
CHRYSAORA QUINQUECIRRA	3	0.003
PENAEUS SETIFERUS	5	0.022
PENAEUS AZTECUS	11	0.033
MNEMIOPSIS LEIDYI	1	0.005
STOMOLOPHUS MELEAGRIS		
GRAND TOTAL	606	0.631

.....
 COLLECTION DATE 74/07/11 STATION NUMBER 0253 TOM 1
 NUMBER 74257 YR/MO/DY 74/07/11 SAMPLING DEPTH 0 DURATION (MIN) 20 DIRECTION 1
 AGAINST FLOOD
 FENWICK IS

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)
ANCHOA MITCHILLI	1278	0.454
CYNOSCION REGALIS	4	0.015
PEPRILIUS ALEPIDOTUS	5	0.142
SELENE VOLVA	1	0.005
STELLIFER LANCEOLATUS	1	0.004
PENAEUS AZTECUS	2	0.016
PENAEUS SETIFERUS	14	0.005
TRACHYPNEUS CONstrictus	3	0.004
STOMOLOPHUS MELEAGRIS	2	0.010
CHRYSAORA QUINQUECIRRA	7	0.113
GRAND TOTAL	1317	0.852

.....
 COLLECTION DATE 74/07/12 STATION NUMBER 0253 TOM 1
 NUMBER 74260 YR/MO/DY 74/07/12 SAMPLING DEPTH 0 DURATION (MIN) 20 DIRECTION 1
 AGAINST FLOOD
 FENWICK IS

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)
ANCHOA MITCHILLI	1079	0.937
ANCHOA HEPSETUS	7	0.020
BREVORTIA TYRANNUS	2	0.042
PEPRILIUS ALEPIDOTUS	7	0.010
CYNOSCION REGALIS	2	0.010
LOLLIGUNGULA BREVIS	4	0.004
CHRYSAORA QUINQUECIRRA	216	5.897
STOMOLOPHUS MELEAGRIS	11	0.018
CALLINECTES OPHATUS	1	0.003
CHLOROSOMERUS CHRYSURUS	1	0.001
PENAEUS AZTECUS	1	0.005
TRACHYPNEUS CONstrictus	2	0.002
STELLIFER LANCEOLATUS	2	0.004
GRAND TOTAL	1335	6.953

.....
 COLLECTION DATE 74/07/11 STATION NUMBER 0253 TOM 1
 NUMBER 74258 YR/MO/DY 74/07/11 SAMPLING DEPTH 0 DURATION (MIN) 20 DIRECTION 1
 AGAINST FLOOD
 FENWICK IS

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)
ANCHOA HEPSETUS	4	0.012
CHLOROSOMERUS CHRYSURUS	3	0.015
ANCHOA MITCHILLI	412	0.113
CALLINECTES ORNATUS	1	0.002
LIPINIA SP.	4	0.002
PENAEUS SETIFERUS	1	0.005
MNEMIOPSIS LEIDYI	3	0.024
STOMOLOPHUS MELEAGRIS	52	0.915
CHRYSAORA QUINQUECIRRA		
GRAND TOTAL	480	1.088


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.....
COLLECTION DATE STATION NUMBER SAMPLING TOW TOW
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION
-----
74261 74/07/12 0253 0 20 1
.....
FENWICK IS
.....
AGAINST FLOOD
.....

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.....
SPECIES TOTAL TOTAL TOTAL
NUMBERS NUMBERS WEIGHT(KG)
-----
OPISTHONEMA OGLINUM 1 0.010
ANCHOA HITCHILLI 34 0.040
ANCHOA HEPSETUS 7 0.031
CHLOROSCOMBRUS CHRYSURUS 2 0.040
PEPILUS ALEPIDOTUS 1 0.007
CHRYSORA QUINQUECIRRA 2 0.020
LIBINIA SP. 1 0.005
.....
GRAND TOTAL 48 0.153
.....

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COLLECTION DATE 7/4/11/14 STATION NUMBER 74371 SAMPLING DEPTH 0 TOV 20 DIRECTION 1
 NUMBER 74368 YR/MO/DY 74/11/14 STATION NUMBER & LOCATION D253 FENWICK IS TOV 20 DIRECTION 1
 AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)	SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA MITCHILLI	2530	3.118	ANCHOA MITCHILLI	510	0.462
PEPRILUS ALEPIDOTUS	1	0.010	BAIRDIELLA CHRYSURA	1	0.008
CHLOROSCOMBRUS CHRYSURUS	1	0.003	MUGIL CEPHALUS	1	0.016
LOLLIGUNCULA BREVIS	3	0.040	LOLLIGUNCULA BREVIS	11	0.044
BERGE CUCUMIS			MUGIL CUREMA	5	0.110
			BREVOORTIA TYRANNUS	1	0.012
GRAND TOTAL	2535	3.171	CYNOSCION REGALIS	1	0.009
			STELLIFER LANCEOLATUS	1	0.008
			MEMBRAS MARTINICA	4	0.008
			ASTROSCOPUS Y. GRAECUM	1	0.001
			PENAEUS SETIFERUS	67	0.469
			GRAND TOTAL	603	1.145

COLLECTION DATE 7/4/11/14 STATION NUMBER 74372 SAMPLING DEPTH 0 TOV 20 DIRECTION 3
 NUMBER 74370 YR/MO/DY 74/11/14 STATION NUMBER & LOCATION D253 FENWICK IS TOV 20 DIRECTION 3
 AGAINST EBB

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)	SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
STELLIFER LANCEOLATUS	2	0.006	ANCHOA MITCHILLI	1350	1.588
BAIRDIELLA CHRYSURA	2	0.020	STELLIFER LANCEOLATUS	40	0.198
LOLLIGUNCULA BREVIS	20	0.040	CYNOSCION REGALIS	5	0.110
CYNOSCION REGALIS	1	0.015	MUGIL CUREMA	7	0.070
ANCHOA MITCHILLI	2618	2.835	LOLLIGUNCULA BREVIS	1	0.008
PENAEUS SETIFERUS	2	0.020	BAIRDIELLA CHRYSURA	1	0.008
RHOPILEMA VERRILLI	1	0.0	SYMPHURUS PLAGIUSA	1	0.008
MNEIOPSIS LEIDYI			SQUILLA EMPUSA	1	0.003
			CALLINECTES SAPIOUS	1	0.014
GRAND TOTAL	2646	2.936	PALAEHNETES SP.	1	0.003
			PENAEUS SETIFERUS	3	0.003
			XIPHOPENEUS KUOYERI	143	1.729
			RHOPILEMA VERRILLI	1	0.003
			MNEIOPSIS LEIDYI	1	0.003
			MEMBRAS MARTINICA	1	0.003
			GRAND TOTAL	1559	3.772


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COLLECTION DATE STATION NUMBER SAMPLING TOW TCM
NUMBER YR/MO/DY & LOCATION (M) DURATION DIRECTION
(M) (MIN)
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74373 74/11/15 0253 0 20 3
FENWICK IS AGAINST EBR
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SPECIES TOTAL TOTAL TOTAL
NUMBERS WEIGHTS
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MUGIL CUREMA 2 0.023
ANCHOA MITCHELLI 610 10.206
LULLIGANULA RHEVIS 62 0.226
ETIOPELLA CHRYSOBA 1 0.006
CANSICION NEGALIS 1 0.008
CRISTIGONEA COKIMUM 2 0.014
PENARUS AZTECUS 10 0.146
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GRAND TOTAL 8186 10.633
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COLLECTION DATE STATION NUMBER SAMPLING TON TOW
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION
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74201 74/05/13 J251 0 20 1
.....
CHARS HARBOR
.....
AGAINST FLOOD
.....

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SPECIES TOTAL TOTAL
NUMBERS WEIGHT(KG)
.....

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MNEHIOPSIS LEIDYI

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GRAND TOTAL 0 0.0
.....

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Charleses Harbor - Fort Johnson
25-hour station 2291

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COLLECTION DATE STATION NUMBER SAMPLING TON TOW
NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION
.....
74202 74/05/13 J251 0 20 3
.....
CHARS HARBOR
.....
AGAINST FLOOD
.....

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SPECIES TOTAL TOTAL
NUMBERS WEIGHT(KG)
.....

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SPHROIDES MACULATUS
MNEHIOPSIS LEIDYI

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.....
GRAND TOTAL 1 0.001
.....

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 COLLECTION DATE STATION NUMBER SAMPLING TOW TOW
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION (MIN) DIRECTION

 74205 74/05/14 J251 0 20 1
 CHARS HARBOR AGAINST FLOOD

SPECIES TOTAL NUMBERS TOTAL WEIGHT(KG)

BEROE CUCUMIS
 MNCHIOPSIS LEI DYI

GRAND TOTAL 0 0.0

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 COLLECTION DATE STATION NUMBER SAMPLING TOW TOW
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION (MIN) DIRECTION

 74203 74/05/13 J251 0 20 1
 CHARS HARBOR AGAINST FLOOD

SPECIES TOTAL NUMBERS TOTAL WEIGHT(KG)

ARIUS FELIS
 BEROE CUCUMIS
 MNCHIOPSIS LEI DYI

GRAND TOTAL 1 0.037

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 COLLECTION DATE STATION NUMBER SAMPLING TOW TOW
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION (MIN) DIRECTION

 74204 74/05/14 J251 0 20 3
 CHARS HARBOR AGAINST EBB

SPECIES TOTAL NUMBERS TOTAL WEIGHT(KG)

BEROE CUCUMIS
 MNCHIOPSIS LEI DYI

GRAND TOTAL 0 0.0

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 COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
 NUMBER YR/MO/DY & LOCATION DEPTH DIRECTION DIRECTION
 (M) (MIN) (MIN)

 74236 74/07/01 J251 0 20 1 1
 CHAPS HARBOR AGAINST FLOOD

 COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
 NUMBER YR/MO/DY & LOCATION DEPTH DIRECTION DIRECTION
 (M) (MIN) (MIN)

 74238 74/07/02 J251 0 20 1 1
 CHAPS HARBOR AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)	SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)
CHLOSOMBRUS CHRYSURUS	2	0.005	ANCHOA MITCHELLI	19	0.005
PEPRILUS ALEPIDOTUS	3	0.004	CALLINectes SAPIDUS	1	0.113
ANCHOA WEPSETUS	4	0.012	SCYPHOZOA	1	0.003
CHRYSALPA QUINQUECIRRA	2	0.098	PENAEUS SETIFERUS	1	0.121
MAEMIOPSIS LEIDYI	11	0.119			
GRAND TOTAL	11	0.119	GRAND TOTAL	21	0.121

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 COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
 NUMBER YR/MO/DY & LOCATION DEPTH DIRECTION DIRECTION
 (M) (MIN) (MIN)

 74237 74/07/01 J251 0 20 3 3
 CHAPS HARBOR AGAINST EBB

 COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
 NUMBER YR/MO/DY & LOCATION DEPTH DIRECTION DIRECTION
 (M) (MIN) (MIN)

 74239 74/07/02 J251 0 20 1 1
 CHAPS HARBOR AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)	SPECIES	TOTAL NUMBERS	TOTAL WEIGHT(KG)
PEPRILUS ALEPIDOTUS	4	0.002	PEPRILUS ALEPIDOTUS	6	0.008
ANCHOA MITCHELLI	168	0.020	SCYPHOZOA	6	0.008
ANCHOA WEPSETUS	2	0.003	MNEMIOPSIS LEIDYI	6	0.008
LOLLIGUNCULA BREVIS	2	0.003			
PENAEUS AZTECUS	71	0.227			
MNEMIOPSIS LEIDYI	247	0.255	GRAND TOTAL	247	0.255

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 COLLECTION DATE STATION NUMBER SAMPLING TOW TOW
 NUMBER YR/MO/DY & LOCATION DEPTH (M) DURATION (MIN) DIRECTION

 74241 74/07/02 J251 0 20 1

 CHARS HARBOR

 AGAINST FLOOD

SPECIES	TOTAL NUMBERS	TOTAL WEIGHT (KG)
ANCHOA HEPSETUS	2	0.004
PEPRILUS ALEPIODOTUS	1	0.001
SCYPHOZOA		
MNENIOPSIS LEIDYI		
GRAND TOTAL	3	0.005

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 COLLECTION DATE STATION NUMBER SAMPLING TOW TO
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
 (M) (MIN)
 74353 74/11/04 J251 0 20 1
 CHARS HARBOR
 AGAINST FLOOD

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 SPECIES TOTAL TOTAL
 NUMBERS WEIGHT(KG)
 ANCHOA MITCHILLI 173 0.200
 SELENE VOMER 1 0.015
 BREVOORTIA TYRANNUS 1 0.010
 PENAEUS SETIFERUS 1 0.008
 MNEKIOPSIS LEIDYI
 GRAND TOTAL 176 0.233

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 COLLECTION DATE STATION NUMBER SAMPLING TOW TO
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
 (M) (MIN)
 74354 74/11/05 J251 0 20 3
 CHARS HARBOR
 AGAINST EBB

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 SPECIES TOTAL TOTAL
 NUMBERS WEIGHT(KG)
 ANCHOA MITCHILLI 275 0.350
 ANCHOA HEPSETUS 3 0.004
 PENAEUS SETIFERUS 1 0.003
 GRAND TOTAL 279 0.362

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 COLLECTION DATE STATION NUMBER SAMPLING TOW TO
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
 (M) (MIN)
 74351 74/11/04 J251 0 20 1
 CHARS HARBOR
 AGAINST FLOOD

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 SPECIES TOTAL TOTAL
 NUMBERS WEIGHT(KG)
 ANCHOA HEPSETUS 1 0.006
 ANCHOA MITCHILLI 306 0.250
 GRAND TOTAL 307 0.256

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 COLLECTION DATE STATION NUMBER SAMPLING TOW TO
 NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
 (M) (MIN)
 74352 74/11/04 J251 0 20 3
 CHARS HARBOR
 AGAINST EBB

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 SPECIES TOTAL TOTAL
 NUMBERS WEIGHT(KG)
 ANCHOA MITCHILLI 1417 1.361
 ANCHOA HEPSETUS 2 0.012
 STELLIFER LANCEOLATUS 1 0.002
 LOLLIGUNCULA BREVIS 1 0.005
 MNEKIOPSIS LEIDYI
 GRAND TOTAL 1421 1.380

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COLLECTION DATE STATION NUMBER SAMPLING TOM TOM
NUMBER YR/MO/DY & LOCATION DEPTH DURATION DIRECTION
(M) (MIN)

74355	74/11/05	J251	0	20	1
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CHARS HARBOR
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AGAINST FLOOD
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NO CATCH

