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**1986 AND 1987 YEAR CLASS REPORT  
FOR THE HUDSON RIVER ESTUARY  
MONITORING PROGRAM**

**VOLUME II**

**June 1989**



**Lawler, Matusky & Skelly Engineers  
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Pearl River, New York 10965**

1986 AND 1987 YEAR CLASS REPORT  
FOR THE HUDSON RIVER ESTUARY  
MONITORING PROGRAM

VOLUME II

Prepared for

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New York, New York 10003

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APPENDIX A

1986-1987 YEAR CLASS REPORT:

QUALITY ASSURANCE/QUALITY CONTROL SUMMARY REPORT

## QUALITY ASSURANCE REVIEW REPORT

### INTRODUCTION

As part of the quality assurance program for Consolidated Edison Company of New York, Inc.'s (Con Edison) Year Class report, Lawler, Matusky & Skelly Engineers (LMS) performed quality assurance audits of the data received. LMS audited the utility's 1986 and 1987 beach seine, fall shoals, and ichthyoplankton SAS files against microfilm of the original data sheets. Based on a random inspection of 5% of the data sheets from each sampling effort, the error rate associated with each data set has been calculated. In addition, LMS performed a 100% audit on calculated variables in selected files. This report presents the results of the auditing effort in compliance with Subtasks 2.1 and 2.2 of the 1986-1987 year class report.

### SUBTASK 2.1 - 100% AUDIT OF 5% OF SAMPLES

To check the accuracy of the data collected in the field and analyzed in the laboratory, 5% of the 1986 and 1987 beach seine, fall shoals, and ichthyoplankton samples were selected by means of a random numbers program. The program then generated a computer listing of the data for each parameter,\* by data set. Data on the microfilmed copies of original data sheets were compared\*\* with the data in the computer listing to determine the accuracy of the data entered into the computer.

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\*Full parameter names can be found in the Con Edison data dictionary.

\*\*RIV\_RUN, which was not on the original data sheets, was checked by comparing the date and inventory number to be sure all data appeared in the correct week.

1986 Beach Seines

Thirty-six samples were checked for the following parameters from data set XBSSLV3:

YEAR	DATE	WAVE_HT
TASK_CD	TIME	BTM_TYP
SAMPLE	RIV_MILE	USE_CODE
SITE	BEACH	COMMENTS

A total of 432 data fields were reviewed. No errors were found.

Thirty-six samples were checked for the following parameters from data set XBSSLV4:

YEAR	GEAR
TASK_CD	SAM_NARR
SAMPLE	

A total of 180 data fields were reviewed. No errors were found.

Thirty-six samples with 177 observations were checked for the following parameters from data set XBSSLV5:

YEAR	DIV_1	CT_LC4
TASK_CD	DIV_2	CT_YOY
SAMPLE	CT_LC1	CT_YRLNG
GEAR	CT_LC2	CT_YR_OLD
TAXON	CT_LC3	

A total of 2478 data fields were reviewed. No errors were found.

Thirty-six samples with 188 observations were checked for the following parameters from data set XBSSLV6.

YEAR	FISH_ID	LH
TASK_CD	LIFE_STG	QA_INIT
SAMPLE	LENGTH	INITIALS
GEAR	PM	PROC_DT
TAXON		

A total of 2444 data fields were reviewed. No errors were found.

Thirty-six samples were checked for the following parameters from data set XBSSWC5:

YEAR	D_0
TASK_CD	COND
SAMPLE	WQ_SDPTH
GEAR	PROC_DT
H2O_TEMP	

A total of 324 data fields were evaluated. Although no major errors were found, there were several discrepancies. The date entered in the PROC\_DT field is actually the sample date, which is different from the process date. The data entered in field WQ\_SDPTH is 0.3 for all samples, but the data sheets are either blank or have a "1" in the water quality depth column. Presumably, all water quality measurements were taken at a depth of 1 ft, i.e., 0.3 m.

\* \* \*

Overall, 36 samples containing 5858 fields were checked for accuracy. No major errors were found. The discrepancies mentioned above were noted.

1986 Fall Shoals

One hundred eighteen samples were checked for the following parameters from data set XFSLV3:

YEAR	TIME	WAVE_HT
TASK_CD	RIV_MILE	VESL_CD
SAMPLE	RIV_DPTH	TOW_SPD
SITE	USE_CODE	TOW_DIR
DATE		

A total of 1534 data fields were reviewed. No errors were found.

One hundred eighteen samples were checked for the following parameters from data set XFSLV4:

YEAR	FLO_N	DURATION
TASK_CD	FLO_STRT	SAM_DPTH
SAMPLE	FLO_END	SAM_NARR
GEAR	FLOW_DIF	

A total of 1298 data fields were reviewed. The data sheet for sample 980499 shows 22866? (8 or 6) in field FLO\_STRT and 14830 in FLO\_DIF. The computer list shows FLO\_STRT to be 228660 and FLO\_DIF to be 14836. This is one error, or an accuracy rate of 99.92%.

One hundred eighteen samples with 531 observations were checked for the following parameters for data set XFSLV5:

YEAR	CT_YOY	DIV_2
TASK_CD	CT_YRLNG	CT_LC1
SAMPLE	CT_YR_OLD	CT_LC2
GEAR	CT_OLDER	CT_LC3
TAXON	DIV_1	CT_LC4

A total of 7965 data fields were reviewed. No errors were found.

One hundred eighteen samples with 309 observations were checked for the following parameters from data set XFSLV6:

YEAR	TAXON
TASK_CD	FISH_ID
SAMPLE	LENGTH
GEAR	PM

A total of 2472 data fields were reviewed. No errors were found.

\* \* \*

Overall, 118 samples containing 13,269 fields were checked for accuracy. The only unresolved error, sample 980499 in data set XFSLV4, can probably be attributed to illegible writing.

#### 1986 Ichthyoplankton

One hundred twenty samples were checked for the following parameters from data set XLRLV3:

YEAR	DATE	WAVE_HT
TASK_CD	TIME	VESL_CD
SAMPLE	RIV_MILE	TOW_SPD
GEAR	RIV_DPTH	TOW_DIR
SITE	USE_CODE	

A total of 1680 data fields were reviewed. No errors were found.

One hundred twenty samples were checked for the following parameters from data set XLRLV4:

YEAR	FLO_N	DURATION
TASK_CD	FLO_STRT	SAM_DPTH
SAMPLE	FLO_END	SAM_NARR
GEAR	FLOW_DIF	

A total of 1320 data fields were reviewed. No errors were found.

One hundred twenty samples with 641 observations were checked for the following parameters from data set XLRLV5:

YEAR	CT_PYSL	DIV_1
TASK_CD	CT_UNID	DIV_2
SAMPLE	CT_YOY	CT_LC1
GEAR	CT_YRLNG	CT_LC2
TAXON	CT_YR_OL	CT_LC3
CT_EGGS	CT_OLDER	CT_LC4
CT_YSL		

This is a total of 12,179 data fields. On the data sheet for sample 882205 under TAXON 39, Atlantic sturgeon, the DIV\_1 and DIV\_2 were entered as 40 and 150 mm, respectively, but the computer list had 0 and 0. For sample 880038 the DIV\_2 length cutoff for TAXON 10, American eel, was 20 mm on the data sheet and 90 mm on the list; for TAXON 13, hogchoker, the length cutoff was 70 mm on the data sheet and 55 mm on the computer list. These are three errors, giving an accuracy rate of 99.98%.

One hundred twenty samples with 3582 observations were checked for the following parameters from data set XLRLV6:

YEAR	TAXON
TASK_CD	LIFE_STG
SAMPLE	LENGTH
GEAR	

A total of 25,074 data fields were reviewed. No errors were found.

\* \* \*

Overall, 120 samples containing 40,253 fields were checked for accuracy. The only unresolved errors were in data set XLRLV5.

1987 Beach Seines

Fifty-eight samples were checked for the following parameters from data set XBSSLV3:

YEAR	DATE	WAVE_HT
TASK_CD	TIME	BTM_TYP
SAMPLE	RIV_MILE	USE_CODE
SITE	BEACH	COMMENTS

A total of 696 data fields were reviewed. No errors were found.

Fifty-eight samples were checked for the following parameters from data set XBSSLV4:

YEAR	GEAR
TASK_CD	SAM_NARR
SAMPLE	

A total of 290 data fields were reviewed. No errors were found.

Fifty-eight samples with 300 observations were checked for the following parameters from data set XBSSLV5:

YEAR	DIV_1	CT_LC4
TASK_CD	DIV_2	CT_YOY
SAMPLE	CT_LC1	CT_YRLNG
GEAR	CT_LC2	CT_YR_OLD



A total of 3600 data fields were reviewed. No errors were found.

Fifty-eight samples with 398 observations were checked for the following parameters for data set XBSSLV6:

YEAR	FISH_ID	LM
TASK_CD	LIFE_STG	QA_INIT
SAMPLE	LENGTH	INITIALS
GEAR	PM	PROC_DT
TAXON		

This is a total of 5174 data fields. Sample 230793 had a "4" in the PM column on the data sheet, but a "1" on the computer list. This is one error, giving an accuracy rate of 99.98%.

Fifty-eight samples were checked for the following parameters for data set XBSSWC5:

YEAR	GEAR	COND
TASK_CD	H2O_TEMP	WQ_SDPTH
SAMPLE	D_O	PROC_DT

A total of 522 data fields were reviewed. No errors were found.

\* \* \*

Overall, 58 samples with 10,282 observations were checked for accuracy. The only unresolved error was found in data set XBSSLV6 (sample 230793).

#### 1987 Fall Shoals

One hundred samples were checked for the following parameters from data set XFSLV3:

YEAR	TIME	WAVE_HT
TASK_CD	RIV_MILE	VESL_CD
SAMPLE	RIV_DPTH	TOW_SPD
SITE	USE_CODE	TOW_DIR
DATE		

This is a total of 1300 data fields. No errors were found.

One hundred samples were checked for the following parameters from data set XFSLV4:

YEAR	FLO_N	DURATION
TASK_CD	FLO_STRT	SAM_DPTH
SAMPLE	FLO_END	SAM_NARR
GEAR	FLO_DIF	

A total of 1100 fields were reviewed. Sample 980540 has FLO\_N of 21285 on the data sheet and 91285 on the computer list; sample 980726 has FLO\_N of 91279 on the data sheet and 91277 on the computer list. The computer list is probably correct based on identification numbers of other flowmeters on file. Ten samples had the RIV\_DPTH value entered in the SAM\_DPTH field on the computer list. There was no SAM\_DPTH on the data sheets. This is two errors, giving an accuracy rate of 99.82%.

One hundred samples with 479 observations were checked for the following parameters from data set XFSLV5:

YEAR	CT_YOY	DIV_2
TASK_CD	CT_YRLNG	CT_LC1
SAMPLE	CT_YR_OL	CT_LC2
GEAR	CT_OLDER	CT_LC3
TAXON	DIV_1	CT_LC4

A total of 7185 data fields were reviewed. Fifteen samples had DIV\_1 and DIV\_2 length cutoff values on the computer list, but these values were not on the data sheets.

One hundred samples with 450 observations were checked for the following parameters for data set XFSLV6:

YEAR	TAXON
TASK_CD	FISH_ID
SAMPLE	LENGTH
GEAR	PM

This is a total of 3600 data fields. No errors were found.

\* \* \*

Overall, 100 samples with 13,185 data fields were checked for accuracy. There were two errors in data set XFSLV4 in addition to the above-mentioned discrepancy in data set XFSLV5.

#### 1987 Ichthyoplankton

One hundred thirty-seven samples were checked for the following parameters from data set XLRLV3:

YEAR	DATE	WAVE_HT
TASK_CD	TIME	VESL_CD
SAMPLE	RIV_MILE	TOW_SPD
GEAR	RIV_DPTH	TOW_DIR
SITE	USE_CODE	

A total of 1918 data fields were reviewed. No errors were found.

One hundred thirty-seven samples were checked for the following parameters from data set XLRLV4:

YEAR	FLO_N	DURATION
TASK_CD	FLO_STRT	SAM_DPTH
SAMPLE	FLO_END	PM
GEAR	FLO_DIF	

A total of 1507 data fields were reviewed. Thirty-seven samples had the RIV\_DPTH value in the SAM\_DPTH field on the computer list. The data sheet had only a RIV\_DPTH value. Sample 882437 has a FLO\_STRT of 87933? (6 or 0) and FLO\_DIF of 10428. The computer list has FLO\_STRT of 879336 and FLO\_DIF of 10422. Assuming that the only errors are the two for FLO\_STRT and FLO\_DIF, the accuracy rate is 99.87%.

One hundred thirty-seven samples with 692 observations were checked for the following parameters in data set XLRLV5:

YEAR	CT_YSL	DIV_1
TASK_CD	CT_PYSL	DIV_2
SAMPLE	CT_UNID	CT_LC1
GEAR	CT_YRLNG	CT_LC2
TAXON	CT_YR_OL	CT_LC3
CT_EGGS	CT_OLDER	CT_LC4
CT_YOY		

A total of 13,148 data fields were reviewed. No errors were found.

One hundred thirty-seven samples with 3363 observations were checked for the following parameters in data set XLRLV6:

YEAR	TAXON
TASK_CD	FISH_ID
SAMPLE	LIFE_STG
GEAR	LENGTH

A total of 26,904 data fields were reviewed. Sample 880456 has one length error for TAXON 35, white perch (FISH\_ID 15); the length is 2.8 cm on the computer list; it should be 2.3 cm, as on the data sheet. Sample 880666 has one length error for TAXON 35, white perch (FISH\_ID 21); the length is 2.9 cm on the computer list; it should be 2.4 cm, as on the data sheet. This is two errors, giving an accuracy rate of 99.99%.

\* \* \*

Overall, 137 samples with 44,477 data fields were checked for accuracy and four errors were found.

#### Total 1986 and 1987 Samples

The total number of samples checked was 569 and the total number of data fields was 127,324. With only 11 errors, there is an overall accuracy rate of 99.99%.

#### SUBTASK 2.2 - 100% QC OF FIVE FIELDS

Five designated fields were checked by means of SAS computer programs (listings of which appear in Attachment A; the actual programs will be sent at the end of the project). These programs generated graphs that showed values out of range and printouts with messages for possible errors.

The five fields that were checked are:

VOLUME STRATA	Checked for ichthyoplankton (ICHLRLV4) and fall shoals (ICHFSLV4)
BEACH RIV_MILE RIV_RUN	Checked for beach seines (BSSLV3)

The files given were:

ICHLRLV4 with variables YEAR, SAM\_DPTH, TASK\_CD, SAMPLE, GEAR,  
STRATA, FLO\_N, FLO\_DIF, VOLUME, DURATION

ICHLRLV3 with variables YEAR, TASK\_CD, SAMPLE, DATE, TIME,  
RIV\_MILE, RIV\_DPTH, USE\_CODE

FLOWDATA with variables FLO\_N, B, A, DATE

#### VOLUME

In order to check the volume, a new volume was calculated as follows:

$$\text{VOL\_CAL} = (\text{FLO\_DIF} - A \times \text{DURATION} \times 60) / (100 \times B) \text{ where } A \text{ and } B \text{ are calibrated factors from FLOWDATA}$$

If data in field GEAR equal 18, then the VOL\_CAL field is multiplied by 2.743066. The new VOL\_CAL was subtracted from the original VOLUME. If the difference was >0.2, an error was noted. Table 1 presents possible errors identified by this program of (VOLUME - VOL\_CAL). Figures 1-4 graph VOLUME vs FLO\_DIF.

#### STRATA

A program was run to check STRATA as follows:

If STRATA = 1 (shoals), then RIV\_DPTH  $\leq$  6.1 m (20 ft)

If STRATA = 2 (bottom), then RIV\_DPTH > 6.1 m (20 ft)  
and (RIV\_DPTH - SAM\_DPTH)  $\leq$  3.1 m (10 ft)

If STRATA = 3 (channel), then RIV\_DPTH > 6.1 m (20 ft)  
and (RIV\_DPTH - SAM\_DPTH) > 3.1 m (10 ft)

Tables 2 and 3 show possible errors.

TABLE 1  
SAMPLES WHERE (VOL\_CAL - VOLUME) >0.2

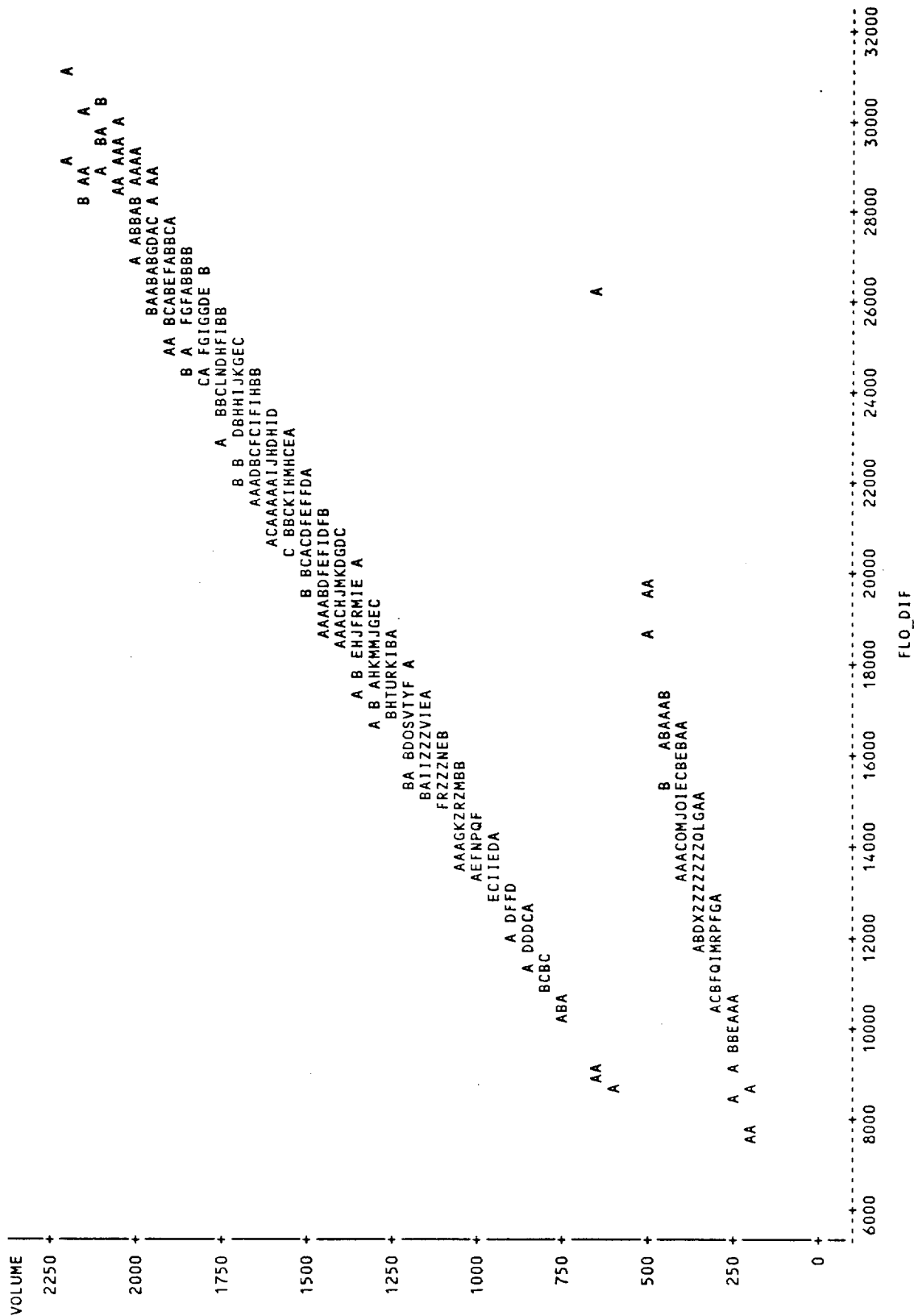
SAMPLE	VOLUME	VOL_CAL	DIFFERENCE
017042	366.1	368.1	-2.0
017045	569.5	574.1	-4.6
017048	460.7	463.9	-3.2
017051	459.9	463.2	-3.3
017054	928.5	937.6	-9.1
017057	488.6	492.2	-3.6
017060	534.5	538.7	-4.2
017063	596.6	601.6	-5.0
017066	504.8	508.6	-3.8
017069	499.9	503.6	-3.7
017072	456.9	460.1	-3.2
981985	1561.2	1563.0	-1.8
981988	1723.5	1725.4	-1.9
981997	1708.1	1710.0	-1.9
982000	1689.8	1691.7	-1.9
982003	1714.9	1716.8	-1.9
982009	1577.0	1578.8	-1.8
982018	1664.2	1666.0	-1.8
982024	1752.9	1754.0	-1.1
982030	1666.8	1668.6	-1.8
982033	1491.1	1492.7	-1.6
982036	1563.7	1565.4	-1.7
982039	1510.0	1511.7	-1.7
982045	1605.3	1607.1	-1.8
982048	1558.7	1560.5	-1.8
982054	1844.7	1846.7	-2.0
982057	1544.4	1546.1	-1.7
982063	1720.6	1722.5	-1.9
982065	1712.7	1714.6	-1.9
982068	1800.8	1802.9	-2.1
982070	1783.7	1785.7	-2.0
982073	1571.3	1573.0	-1.7
982076	1592.3	1594.1	-1.8
982082	2044.0	2046.3	-2.3
982091	1755.2	1757.1	-1.9
982094	1729.2	1731.1	-1.9
982097	1382.8	1384.4	-1.6
982100	1324.0	1325.5	-1.5
982103	1812.7	1814.7	-2.0

Figure 1

Subtask 2.2 for \FISH86\ 1986 Falls Shoals  
volume vs flo\_dif

16:14 Tuesday, June 21, 1988 2

Plot of VOLUME\*FLO\_DIF. Legend: A = 1 obs, B = 2 obs, etc.



NOTE: 96 obs hidden.

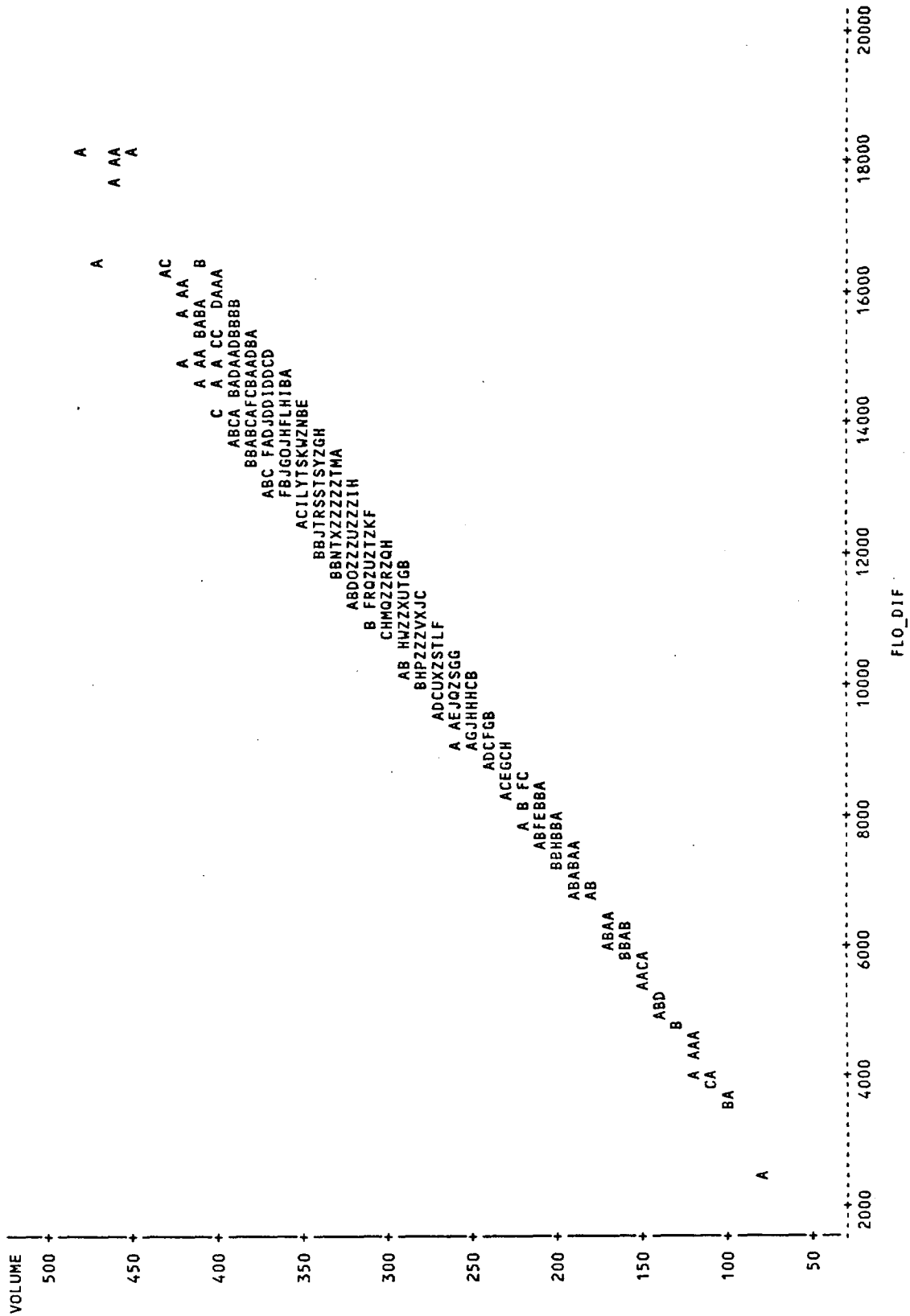


Figure 2

Subtask 2.2 for \ICHB6\ 1986 Ichthyoplankton  
volume vs flo\_dif

8:43 Wednesday, June 22, 1988 3

Plot of VOLUME\*FLO\_DIF. Legend: A = 1 obs, B = 2 obs, etc.



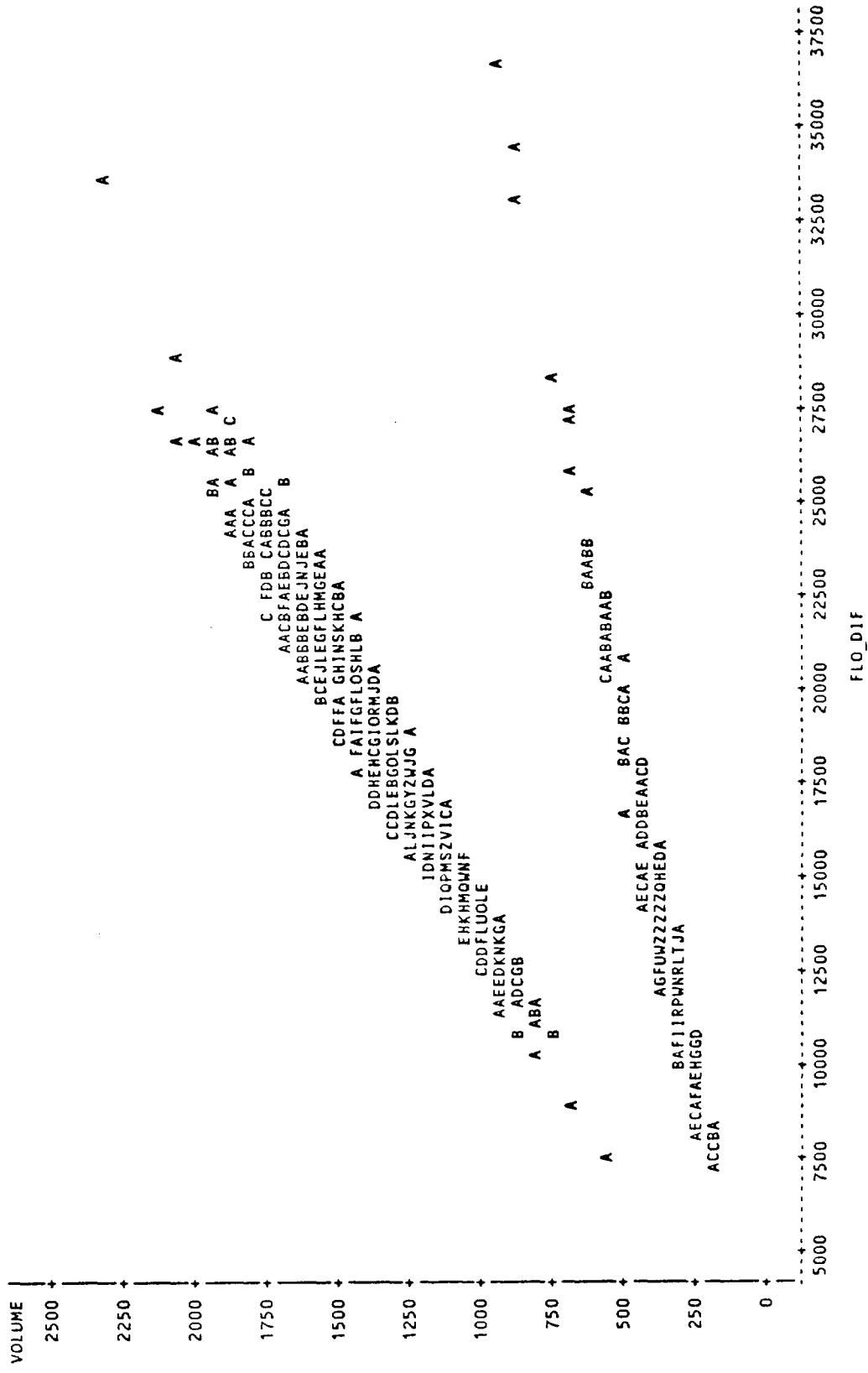
NOTE: 2 obs had missing values. 170 obs hidden.

Figure 3

Subtask 2.2 for \BSFS87\ 1987 Falls Shoats  
Volume vs flo\_dif

11:16 Friday, July 1, 1988 6

Plot of VOLUME\*FLO\_DIF. Legend: A = 1 obs, B = 2 obs, etc.



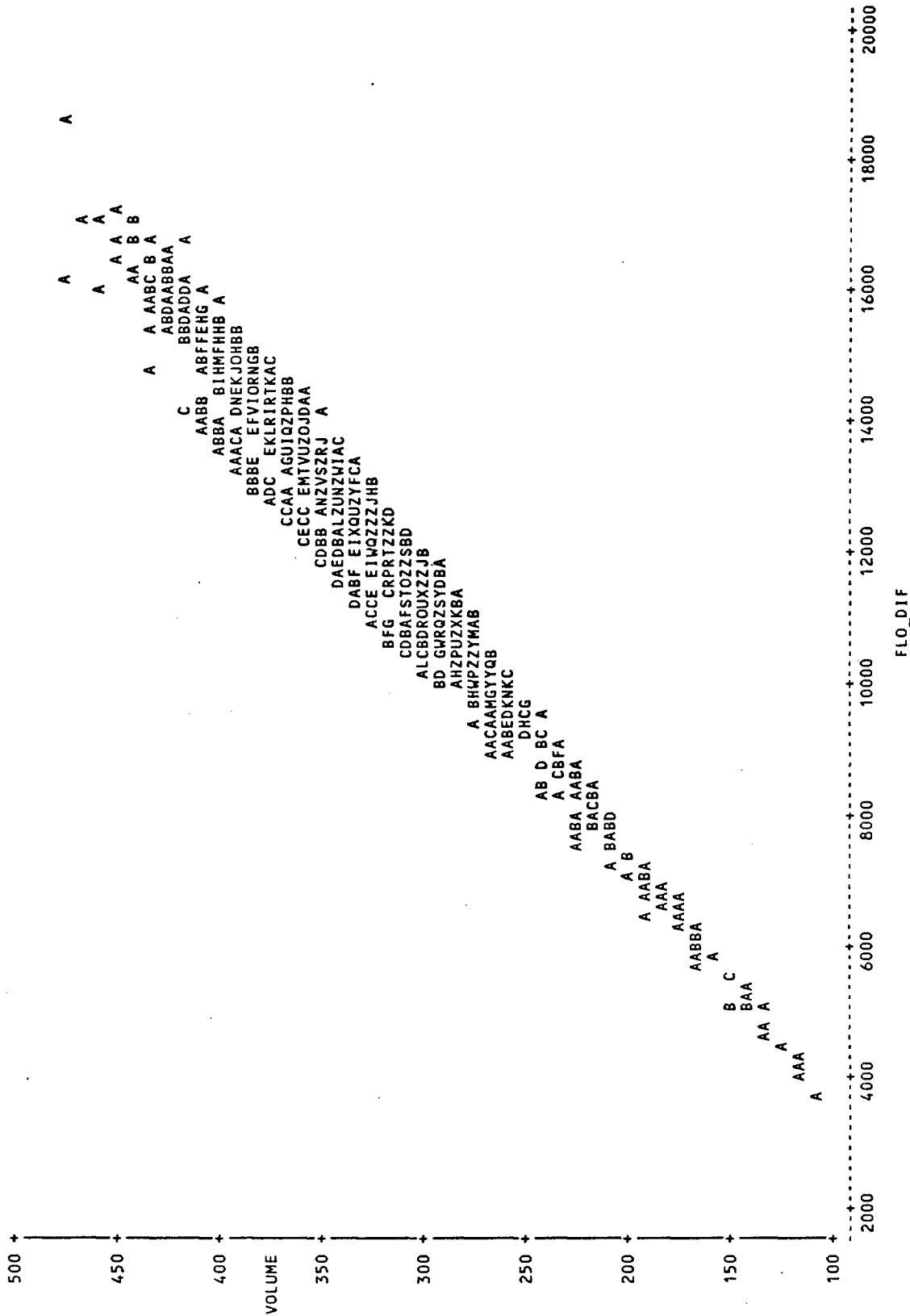
NOTE: 41 obs hidden.

Figure 4

Subtask 2.2 for \ICH87\ 1987 Ichthyoplankton  
volume vs flo\_dif

17:00 Tuesday, June 21, 1988 6

Plot of VOLUME\*FLO\_DIF. Legend: A = 1 obs, B = 2 obs, etc.



NOTE: 97 obs hidden.

TABLE 2

1986 - SAMPLES WITH POSSIBLE STRATA ERRORS

SAMPLE NUMBER	STRATA	RIV_DPTH	SAM_DPTH	RIV_DPTH - SAM_DPTH
980277	3	18.3	15.8	2.5
981034	3	12.8	10.1	2.7
981103	3	15.2	12.2	3.0
981264	3	9.1	7.3	1.8
981356	3	9.4	8.5	2.9
981395	3	9.8	7.6	2.2
981414	3	7.3	4.6	2.7
981619	3	15.2	12.2	3.0
981744	3	15.2	12.2	3.0
981759	3	12.8	10.4	2.4
981764	3	7.9	4.9	3.0
981838	3	12.2	9.8	2.4
981940	3	13.7	11.0	2.7
981974	3	7.6	5.2	2.4
982034	3	12.8	10.4	2.4
982078	3	7.6	4.6	3.0
982139	3	15.2	12.2	3.0
982218	3	9.1	6.4	2.7
880397	3	14.3	11.3	3.0
882221	3	7.3	5.2	2.1
882417	3	10.7	8.2	2.5
882471	3	9.8	8.5	1.3

TABLE 3 (Page 1 of 2)

1987 - SAMPLES WITH POSSIBLE STRATA ERRORS

SAMPLE NUMBER	STRATA	RIV_DPTH	SAM_DPTH	(RIV_DPTH - SAM_DPTH)
980803	1	6.4	6.4	0
981239	2	6.1	6.1	0
981344	3	6.1	3.0	3.1
981514	3	7.9	5.5	2.4
981579	2	6.1	6.1	0
981626	3	15.2	12.8	2.4
981873	3	6.1	3.0	3.1
981874	3	6.1	3.0	3.1
981982	3	6.1	3.0	3.1
981986	3	5.2	3.0	2.2
982108	2	6.1	6.1	0
982109	2	6.1	6.1	0
982110	3	6.1	3.0	3.1
982113	2	5.5	5.5	0
880027	3	7.6	6.1	1.5
880033	3	8.8	5.8	3.0
880035	3	8.5	6.7	1.8
880036	3	6.7	4.6	2.1
880039	3	6.7	4.0	2.7
880040	3	6.7	4.0	2.7
880043	3	7.3	5.5	1.8
880047	3	12.2	9.8	2.4
880049	3	12.2	9.8	2.4
880092	3	15.2	12.2	3.0
880110	3	9.1	6.4	2.7
880124	3	9.8	7.9	1.9
880134	3	7.6	4.6	3.0
880136	3	7.0	4.3	2.7
880137	3	7.0	4.9	2.1
880140	3	7.0	4.9	2.1
880141	3	7.0	4.9	2.1
880142	3	6.7	4.0	2.7
880143	3	7.0	4.9	2.1
880146	3	6.4	3.7	2.7
880147	3	8.8	6.1	1.7
880163	3	12.2	9.8	2.4
880176	3	10.7	8.5	2.2
880205	3	10.7	7.6	3.1
880267	3	9.4	6.7	2.7
880619	3	13.7	10.7	3.0
880681	3	14.3	11.3	3.0
880682	3	14.0	11.0	3.0

TABLE 3 (Page 2 of 2)

1987 - SAMPLES WITH POSSIBLE STRATA ERRORS

SAMPLE NUMBER	STRATA	RIV_DPTH	SAM_DPTH	(RIV_DPTH - SAM_DPTH)
880716	3	15.2	12.2	3.0
880720	3	8.8	5.8	3.0
880892	3	13.1	10.1	3.0
880911	3	13.1	10.1	3.0
880918	3	15.2	12.2	3.0
880935	3	13.7	11.0	2.7
880976	3	15.2	12.2	3.0
881026	3	18.3	17.1	1.2
881051	3	15.2	12.2	3.0
881172	3	12.2	9.8	2.4
881209	3	12.8	9.8	3.0
881235	3	10.1	7.0	3.1
881280	3	12.5	10.7	1.8
881327	3	15.2	12.2	3.0
881444	3	8.5	6.4	2.1
881537	3	12.2	9.1	3.1
881551	3	11.0	8.5	2.5
881611	3	7.0	5.5	1.5
881619	3	15.2	12.2	3.0
881651	3	9.8	7.9	1.9
881878	3	6.4	4.3	2.1
882055	3	15.2	12.2	3.0
882088	3	15.2	12.2	3.0
882122	3	8.5	5.8	2.7
882137	3	12.5	10.1	2.4
882405	3	13.7	11.0	2.7
882422	3	12.5	10.1	2.4
882496	3	10.4	8.2	2.2
882536	3	14.9	11.9	3.0
882720	3	7.3	4.3	3.0
882741	3	7.6	4.6	3.0
882774	3	13.4	10.7	2.7
882793	3	14.6	11.6	3.0
882851	3	15.5	12.5	3.0
883029	3	14.6	13.4	1.2
883129	3	15.2	12.2	3.0
883693	3	12.2	9.8	2.4

BEACH, RIV\_MILE, RIV\_RUN

Table 4 from Con Edison's 1987 Standard Operating Procedures (Table III-3) was used as the basis of an SAS program that was run to verify that BEACH and RIV\_MILE matched each other and were in the correct region. No problems were found.

RIV\_RUN values were checked to make sure that all samples had a valid RIV\_RUN number.

TABLE 4

III-4  
Rev. 5  
Change 0  
2/15/88

TABLE III-3. 1987 DESIGNATION OF BEACH SEINE SURVEY SITES  
WITHIN SUBREGIONS.

REGION I	(RM 12-23)
12-14	268, 267, 266, 265
15-17	264, 263, 262
18-20	261, 260, 259, 258
21-23	257, 256, 255, 254
REGION II	(RM 24-33)
24-26	253, 252, 251, 250, 249, 248, 247, 246, 270, 271, 283, 284
27-29	245, 244, 243, 242, 272
30-33	241, 240, 239, 238, 237, 236, 269, 285
REGION III	(RM 34-38)
34-35	235, 234, 233, 232, 231, 230, 229, 274, 275, 277
36-38	228, 227, 226, 225, 224, 223, 222, 221, 220 276, 278, 279, 280, 281, 282
REGION IV	(RM 39-46)
39-41	219, 218, 217, 216, 215, 214, 213, 212, 211, 210, 209, 208
42-44	207, 206, 205, 204, 203, 202, 201
45-46	200, 199, 198
REGION V	(RM 47-55)
47-49	197, 196
50-52	195, 194, 193
53-55	192, 191, 190, 189
REGION VI	(RM 56-61)
56-58	188, 187, 186, 185, 184, 183, 182
59-61	181, 180, 179, 178, 177, 176, 175, 174
REGION VII	(RM 62-76)
62-64	173, 172, 171, 170, 169, 168, 167, 166, 165, 164, 163
65-67	162, 161, 160
68-70	159, 158, 157, 156, 155
71-73	154, 153, 152, 151, 150
74-76	149, 148, 147, 146, 145, 144
REGION VIII	(RM 77-85)
77-79	143, 142, 141, 140, 139, 138
80-82	137, 136, 135, 134
83-85	133, 132, 131, 130, 129, 128, 127



TABLE 4

III-5  
 Rev. 5  
 Change 0  
 2/15/88

TABLE III-3. (Continued)

REGION IX (RM 86-93)

86-87 126,125,124,123  
 88-90 122,121,120  
 91-93 119,118,117,116

REGION X (RM 94-106)

94-97 115,114,113,112,111,110,109,108,107,106,105,104,103,102,  
 98-100 101,100,99  
 101-103 -----  
 104-106 98,97,96

REGION XI (RM 107-124)

107-109 95,94,93,92  
 110-112 91,90,89,88  
 113-115 87,86,85,84,83,82,81,80,79  
 116-118 78,77,76,75,74,73  
 119-121 72,71,70,69,68,67,66,65  
 122-124 64,63,62,61,60,59,58,57,56,55

REGION XII (RM 125-152)

125-128 54,53,52,51,50,49,48,47,46,45,44,43  
 129-131 42,41,40,39,38,37,36,35,34,33  
 132-134 32,31,30,29,28,27  
 135-137 26,25,24  
 138-140 23,22,21,20,19,18,17,16,15,14,13,12,11,10  
 141-143 9,8,7,6  
 144-146 5,4  
 147-149 3,2  
 150-152 1

```

1  OPTIONS LS=132 PS=60 CENTER;
2  /* File BSB6TK22.SAS 1986 Sub-Task 2.2 6/17/88 115-148 R.Uy
3  Check 1986 Beach Seine BEACH,RIV_MILE,RIV_RUN.... */
4
5  LIBNAME SAS01 'FISH86';
6  DATA zfile3(KEEP=year task_cd sample date time beach riv_mile
7  riv_run use code err_1 err_2 msg_1 msg_2);
8  SET SAS01.BSSLV3;
9  err_1=0; err_2=0; LENGTH msg_1 $30 msg_2 $30;
10 IF riv_mile = . OR riv_mile < T2 OR riv_mile > 152 THEN err_1 = 1;
11 IF riv_run = . THEN err_1 = 3;
12 IF beach = . OR beach <-1 THEN err_1 = 4;
13 IF err_1 = 1 THEN msg_1='RIV MILE Not 12-152';
14 IF err_1 = 3 THEN msg_1='Missing RIV RUN';
15 IF err_1 = 4 THEN msg_1='Missing BEACH';
16
17 IF err_1 NE 1 AND err_1 NE 4 THEN DO;
18 IF(riv_mile GE 12 AND riv_mile LE 24) THEN zreg = 11;
19 IF(riv_mile GE 15 AND riv_mile LE 17) THEN zreg = 12;
20 IF(riv_mile GE 18 AND riv_mile LE 20) THEN zreg = 13;
21 IF(riv_mile GE 21 AND riv_mile LE 23) THEN zreg = 14;
22 IF(riv_mile GE 24 AND riv_mile LE 26) THEN zreg = 21;
23 IF(riv_mile GE 27 AND riv_mile LE 29) THEN zreg = 22;
24 IF(riv_mile GE 30 AND riv_mile LE 33) THEN zreg = 23;
25 IF(riv_mile GE 34 AND riv_mile LE 35) THEN zreg = 31;
26 IF(riv_mile GE 36 AND riv_mile LE 38) THEN zreg = 32;
27 IF(riv_mile GE 39 AND riv_mile LE 41) THEN zreg = 41;
28 IF(riv_mile GE 42 AND riv_mile LE 44) THEN zreg = 42;
29 IF(riv_mile GE 45 AND riv_mile LE 46) THEN zreg = 43;
30 IF(riv_mile GE 47 AND riv_mile LE 49) THEN zreg = 51;
31 IF(riv_mile GE 50 AND riv_mile LE 52) THEN zreg = 52;
32 IF(riv_mile GE 53 AND riv_mile LE 55) THEN zreg = 53;
33 IF(riv_mile GE 56 AND riv_mile LE 58) THEN zreg = 61;
34 IF(riv_mile GE 59 AND riv_mile LE 61) THEN zreg = 62;
35 IF(riv_mile GE 62 AND riv_mile LE 64) THEN zreg = 71;
36 IF(riv_mile GE 65 AND riv_mile LE 67) THEN zreg = 72;
37 IF(riv_mile GE 68 AND riv_mile LE 70) THEN zreg = 73;
38 IF(riv_mile GE 71 AND riv_mile LE 73) THEN zreg = 74;
39 IF(riv_mile GE 74 AND riv_mile LE 76) THEN zreg = 75;
40 IF(riv_mile GE 77 AND riv_mile LE 79) THEN zreg = 81;
41 IF(riv_mile GE 80 AND riv_mile LE 82) THEN zreg = 82;
42 IF(riv_mile GE 83 AND riv_mile LE 85) THEN zreg = 83;
43 IF(riv_mile GE 86 AND riv_mile LE 87) THEN zreg = 91;
44 IF(riv_mile GE 88 AND riv_mile LE 90) THEN zreg = 92;
45 IF(riv_mile GE 91 AND riv_mile LE 93) THEN zreg = 93;
46 IF(riv_mile GE 94 AND riv_mile LE 97) THEN zreg = 101;
47 IF(riv_mile GE 98 AND riv_mile LE 100) THEN zreg = 102;
48 IF(riv_mile GE 101 AND riv_mile LE 103) THEN zreg = 103;
49 IF(riv_mile GE 104 AND riv_mile LE 106) THEN zreg = 104;
50 IF(riv_mile GE 107 AND riv_mile LE 109) THEN zreg = 111;
51 IF(riv_mile GE 110 AND riv_mile LE 112) THEN zreg = 112;
52 IF(riv_mile GE 113 AND riv_mile LE 115) THEN zreg = 113;
53 IF(riv_mile GE 116 AND riv_mile LE 118) THEN zreg = 114;
54 IF(riv_mile GE 119 AND riv_mile LE 121) THEN zreg = 115;
55 IF(riv_mile GE 122 AND riv_mile LE 124) THEN zreg = 116;
56 IF(riv_mile GE 125 AND riv_mile LE 128) THEN zreg = 121;
57 IF(riv_mile GE 129 AND riv_mile LE 131) THEN zreg = 122;
58 IF(riv_mile GE 132 AND riv_mile LE 134) THEN zreg = 123;
59 IF(riv_mile GE 135 AND riv_mile LE 137) THEN zreg = 124;
60 IF(riv_mile GE 138 AND riv_mile LE 140) THEN zreg = 125;
61 IF(riv_mile GE 141 AND riv_mile LE 143) THEN zreg = 126;
62 IF(riv_mile GE 144 AND riv_mile LE 146) THEN zreg = 127;
63 IF(riv_mile GE 147 AND riv_mile LE 149) THEN zreg = 128;
64 IF(riv_mile GE 150 AND riv_mile LE 152) THEN zreg = 129;
65 err_2 = zreg;
66 IF(zreg=11 AND beach LE 268 AND beach GE 265) THEN err_2 = 0;
67 IF(zreg=12 AND beach LE 264 AND beach GE 262) THEN err_2 = 0;
68 IF(zreg=13 AND beach LE 261 AND beach GE 258) THEN err_2 = 0;
69 IF(zreg=14 AND beach LE 257 AND beach GE 254) THEN err_2 = 0;
70 IF(zreg=21 AND beach LE 253 AND beach GE 246) THEN err_2 = 0;
71 IF(zreg=21 AND beach LE 271 AND beach GE 270) THEN err_2 = 0;
72 IF(zreg=21 AND beach LE 284 AND beach GE 283) THEN err_2 = 0;
73 IF(zreg=22 AND beach LE 245 AND beach GE 242) THEN err_2 = 0;
74 IF(zreg=22 AND beach = 272) THEN err_2 = 0;
75 IF(zreg=23 AND beach LE 241 AND beach GE 236) THEN err_2 = 0;
76 IF(zreg=23 AND beach = 269) THEN err_2 = 0;
77 IF(zreg=23 AND beach = 285) THEN err_2 = 0;
78 IF(zreg=31 AND beach = 277) THEN err_2 = 0;
79 IF(zreg=31 AND beach LE 275 AND beach GE 274) THEN err_2 = 0;
80 IF(zreg=31 AND beach LE 235 AND beach GE 229) THEN err_2 = 0;
81 IF(zreg=32 AND beach LE 282 AND beach GE 278) THEN err_2 = 0;
82 IF(zreg=32 AND beach = 276) THEN err_2 = 0;
83 IF(zreg=32 AND beach LE 228 AND beach GE 220) THEN err_2 = 0;
84 IF(zreg=41 AND beach LE 219 AND beach GE 208) THEN err_2 = 0;
85 IF(zreg=42 AND beach LE 207 AND beach GE 201) THEN err_2 = 0;
86 IF(zreg=43 AND beach LE 200 AND beach GE 198) THEN err_2 = 0;
87 IF(zreg=51 AND beach LE 197 AND beach GE 196) THEN err_2 = 0;
88 IF(zreg=52 AND beach LE 195 AND beach GE 193) THEN err_2 = 0;
89 IF(zreg=53 AND beach LE 192 AND beach GE 189) THEN err_2 = 0;
90 IF(zreg=61 AND beach LE 188 AND beach GE 182) THEN err_2 = 0;

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.....1.....2.....3.....4.....5.....6.....7.....8
91 IF(zreg=62 AND beach LE 181 AND beach GE 174) THEN err_2 = 0;
92 IF(zreg=71 AND beach LE 173 AND beach GE 163) THEN err_2 = 0;
93 IF(zreg=72 AND beach LE 162 AND beach GE 160) THEN err_2 = 0;
94 IF(zreg=73 AND beach LE 159 AND beach GE 155) THEN err_2 = 0;
95 IF(zreg=74 AND beach LE 154 AND beach GE 150) THEN err_2 = 0;
96 IF(zreg=75 AND beach LE 149 AND beach GE 144) THEN err_2 = 0;
97 IF(zreg=81 AND beach LE 143 AND beach GE 138) THEN err_2 = 0;
98 IF(zreg=82 AND beach LE 137 AND beach GE 134) THEN err_2 = 0;
99 IF(zreg=83 AND beach LE 133 AND beach GE 127) THEN err_2 = 0;
100 IF(zreg=91 AND beach LE 126 AND beach GE 123) THEN err_2 = 0;
101 IF(zreg=92 AND beach LE 122 AND beach GE 120) THEN err_2 = 0;
102 IF(zreg=93 AND beach LE 119 AND beach GE 116) THEN err_2 = 0;
103 IF(zreg=101 AND beach LE 115 AND beach GE 102) THEN err_2 = 0;
104 IF(zreg=102 AND beach LE 101 AND beach GE 99) THEN err_2 = 0;
105 IF(zreg=104 AND beach LE 98 AND beach GE 96) THEN err_2 = 0;
106 IF(zreg=111 AND beach LE 95 AND beach GE 92) THEN err_2 = 0;
107 IF(zreg=112 AND beach LE 91 AND beach GE 88) THEN err_2 = 0;
108 IF(zreg=113 AND beach LE 87 AND beach GE 79) THEN err_2 = 0;
109 IF(zreg=114 AND beach LE 78 AND beach GE 73) THEN err_2 = 0;
110 IF(zreg=115 AND beach LE 72 AND beach GE 65) THEN err_2 = 0;
111 IF(zreg=116 AND beach LE 64 AND beach GE 55) THEN err_2 = 0;
112 IF(zreg=121 AND beach LE 54 AND beach GE 43) THEN err_2 = 0;
113 IF(zreg=122 AND beach LE 42 AND beach GE 33) THEN err_2 = 0;
114 IF(zreg=123 AND beach LE 32 AND beach GE 27) THEN err_2 = 0;
115 IF(zreg=124 AND beach LE 26 AND beach GE 24) THEN err_2 = 0;
116 IF(zreg=125 AND beach LE 23 AND beach GE 10) THEN err_2 = 0;
117 IF(zreg=126 AND beach LE 9 AND beach GE 6) THEN err_2 = 0;
118 IF(zreg=127 AND beach LE 5 AND beach GE 4) THEN err_2 = 0;
119 IF(zreg=128 AND beach LE 3 AND beach GE 2) THEN err_2 = 0;
120 IF(zreg=129 AND beach=1) THEN err_2 = 0;
121 END;
122 IF err_2 > 0 THEN msg_2 = 'undesigned beach in region';
123 IF err_1 > 0 OR err_2 > 0 THEN OUTPUT; RUN;
124
125 TITLE 'Subtask 2.2 Audit 1986 BEACH, RIV MILE, RIV RUN...\FISH86';
126 PROC PRINT DATA=zfile3; TITLE2 'Suspicious Samples'; RUN;
127
128 PROC PLOT DATA=SAS01.BSSLV3; TITLE2 'BEACH VS RIV_MILE';
129 PLOT beach*riv_mile; RUN;

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.....1.....2.....3.....4.....5.....6.....7.....8

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1 OPTIONS LS=132 PS=60 CENTER;  
2 /* File BS87TK22.SAS 1987 Sub-Task 2.2 6/17/88 115-148 R.Uy  
3 Check 1987 Beach Seine BEACH,RIV_MILE,RIV_RUN.... */  
4  
5 LIBNAME SAS01 'BSFS87';  
6 DATA zfile3(KEEP=year task cd sample date time beach riv_mile  
7 riv_run use code err_1 err_2 msg_1 msg_2);  
8 SET SAS01.BSSLV3;  
9 err_1=0; err_2=0; LENGTH msg_1 $30 msg_2 $30;  
10 IF riv_mile = . OR riv_mile < T2 OR riv_mile > 152 THEN err_1 = 1;  
11 IF riv_run = . THEN err_1 = 3;  
12 IF beach = . OR beach < 1 THEN err_1 = 4;  
13 IF err_1 = 1 THEN msg_1='RIV_MILE Not 12-152';  
14 IF err_1 = 3 THEN msg_1='Missing RIV RUN';  
15 IF err_1 = 4 THEN msg_1='Missing BEACH';  
16  
17 IF err_1 NE 1 AND err_1 NE 4 THEN DO;  
18 IF(riv_mile GE 12 AND riv_mile LE 24) THEN zreg = 11;  
19 IF(riv_mile GE 15 AND riv_mile LE 17) THEN zreg = 12;  
20 IF(riv_mile GE 18 AND riv_mile LE 20) THEN zreg = 13;  
21 IF(riv_mile GE 21 AND riv_mile LE 23) THEN zreg = 14;  
22 IF(riv_mile GE 24 AND riv_mile LE 26) THEN zreg = 21;  
23 IF(riv_mile GE 27 AND riv_mile LE 29) THEN zreg = 22;  
24 IF(riv_mile GE 30 AND riv_mile LE 33) THEN zreg = 23;  
25 IF(riv_mile GE 34 AND riv_mile LE 35) THEN zreg = 31;  
26 IF(riv_mile GE 36 AND riv_mile LE 38) THEN zreg = 32;  
27 IF(riv_mile GE 39 AND riv_mile LE 41) THEN zreg = 41;  
28 IF(riv_mile GE 42 AND riv_mile LE 44) THEN zreg = 42;  
29 IF(riv_mile GE 45 AND riv_mile LE 46) THEN zreg = 43;  
30 IF(riv_mile GE 47 AND riv_mile LE 49) THEN zreg = 51;  
31 IF(riv_mile GE 50 AND riv_mile LE 52) THEN zreg = 52;  
32 IF(riv_mile GE 53 AND riv_mile LE 55) THEN zreg = 53;  
33 IF(riv_mile GE 56 AND riv_mile LE 58) THEN zreg = 61;  
34 IF(riv_mile GE 59 AND riv_mile LE 61) THEN zreg = 62;  
35 IF(riv_mile GE 62 AND riv_mile LE 64) THEN zreg = 71;  
36 IF(riv_mile GE 65 AND riv_mile LE 67) THEN zreg = 72;  
37 IF(riv_mile GE 68 AND riv_mile LE 70) THEN zreg = 73;  
38 IF(riv_mile GE 71 AND riv_mile LE 73) THEN zreg = 74;  
39 IF(riv_mile GE 74 AND riv_mile LE 76) THEN zreg = 75;  
40 IF(riv_mile GE 77 AND riv_mile LE 79) THEN zreg = 81;  
41 IF(riv_mile GE 80 AND riv_mile LE 82) THEN zreg = 82;  
42 IF(riv_mile GE 83 AND riv_mile LE 85) THEN zreg = 83;  
43 IF(riv_mile GE 86 AND riv_mile LE 87) THEN zreg = 91;  
44 IF(riv_mile GE 88 AND riv_mile LE 90) THEN zreg = 92;  
45 IF(riv_mile GE 91 AND riv_mile LE 93) THEN zreg = 93;  
46 IF(riv_mile GE 94 AND riv_mile LE 97) THEN zreg = 101;  
47 IF(riv_mile GE 98 AND riv_mile LE 100) THEN zreg = 102;  
48 IF(riv_mile GE 101 AND riv_mile LE 103) THEN zreg = 103;  
49 IF(riv_mile GE 104 AND riv_mile LE 106) THEN zreg = 104;  
50 IF(riv_mile GE 107 AND riv_mile LE 109) THEN zreg = 111;  
51 IF(riv_mile GE 110 AND riv_mile LE 112) THEN zreg = 112;  
52 IF(riv_mile GE 113 AND riv_mile LE 115) THEN zreg = 113;  
53 IF(riv_mile GE 116 AND riv_mile LE 118) THEN zreg = 114;  
54 IF(riv_mile GE 119 AND riv_mile LE 121) THEN zreg = 115;  
55 IF(riv_mile GE 122 AND riv_mile LE 124) THEN zreg = 116;  
56 IF(riv_mile GE 125 AND riv_mile LE 128) THEN zreg = 121;  
57 IF(riv_mile GE 129 AND riv_mile LE 131) THEN zreg = 122;  
58 IF(riv_mile GE 132 AND riv_mile LE 134) THEN zreg = 123;  
59 IF(riv_mile GE 135 AND riv_mile LE 137) THEN zreg = 124;  
60 IF(riv_mile GE 138 AND riv_mile LE 140) THEN zreg = 125;  
61 IF(riv_mile GE 141 AND riv_mile LE 143) THEN zreg = 126;  
62 IF(riv_mile GE 144 AND riv_mile LE 146) THEN zreg = 127;  
63 IF(riv_mile GE 147 AND riv_mile LE 149) THEN zreg = 128;  
64 IF(riv_mile GE 150 AND riv_mile LE 152) THEN zreg = 129;  
65 err_2 = zreg;  
66 IF(zreg=11 AND beach LE 268 AND beach GE 265) THEN err_2 = 0;  
67 IF(zreg=12 AND beach LE 264 AND beach GE 262) THEN err_2 = 0;  
68 IF(zreg=13 AND beach LE 261 AND beach GE 258) THEN err_2 = 0;  
69 IF(zreg=14 AND beach LE 257 AND beach GE 254) THEN err_2 = 0;  
70 IF(zreg=21 AND beach LE 253 AND beach GE 246) THEN err_2 = 0;  
71 IF(zreg=21 AND beach LE 271 AND beach GE 270) THEN err_2 = 0;  
72 IF(zreg=21 AND beach LE 284 AND beach GE 283) THEN err_2 = 0;  
73 IF(zreg=22 AND beach LE 245 AND beach GE 242) THEN err_2 = 0;  
74 IF(zreg=22 AND beach = 272) THEN err_2 = 0;  
75 IF(zreg=23 AND beach LE 241 AND beach GE 236) THEN err_2 = 0;  
76 IF(zreg=23 AND beach = 269) THEN err_2 = 0;  
77 IF(zreg=23 AND beach = 285) THEN err_2 = 0;  
78 IF(zreg=31 AND beach = 277) THEN err_2 = 0;  
79 IF(zreg=31 AND beach LE 275 AND beach GE 274) THEN err_2 = 0;  
80 IF(zreg=31 AND beach LE 235 AND beach GE 229) THEN err_2 = 0;  
81 IF(zreg=32 AND beach LE 282 AND beach GE 278) THEN err_2 = 0;  
82 IF(zreg=32 AND beach = 276) THEN err_2 = 0;  
83 IF(zreg=32 AND beach LE 228 AND beach GE 220) THEN err_2 = 0;  
84 IF(zreg=41 AND beach LE 219 AND beach GE 208) THEN err_2 = 0;  
85 IF(zreg=42 AND beach LE 207 AND beach GE 201) THEN err_2 = 0;  
86 IF(zreg=43 AND beach LE 200 AND beach GE 198) THEN err_2 = 0;  
87 IF(zreg=51 AND beach LE 197 AND beach GE 196) THEN err_2 = 0;  
88 IF(zreg=52 AND beach LE 195 AND beach GE 193) THEN err_2 = 0;  
89 IF(zreg=53 AND beach LE 192 AND beach GE 189) THEN err_2 = 0;  
90 IF(zreg=61 AND beach LE 188 AND beach GE 182) THEN err_2 = 0;
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.....1.....2.....3.....4.....5.....6.....7.....8
91 IF(zreg=62 AND beach LE 181 AND beach GE 174) THEN err_2 = 0;
92 IF(zreg=71 AND beach LE 173 AND beach GE 163) THEN err_2 = 0;
93 IF(zreg=72 AND beach LE 162 AND beach GE 160) THEN err_2 = 0;
94 IF(zreg=73 AND beach LE 159 AND beach GE 155) THEN err_2 = 0;
95 IF(zreg=74 AND beach LE 154 AND beach GE 150) THEN err_2 = 0;
96 IF(zreg=75 AND beach LE 149 AND beach GE 144) THEN err_2 = 0;
97 IF(zreg=81 AND beach LE 143 AND beach GE 138) THEN err_2 = 0;
98 IF(zreg=82 AND beach LE 137 AND beach GE 134) THEN err_2 = 0;
99 IF(zreg=83 AND beach LE 133 AND beach GE 127) THEN err_2 = 0;
100 IF(zreg=91 AND beach LE 126 AND beach GE 123) THEN err_2 = 0;
101 IF(zreg=92 AND beach LE 122 AND beach GE 120) THEN err_2 = 0;
102 IF(zreg=93 AND beach LE 119 AND beach GE 116) THEN err_2 = 0;
103 IF(zreg=101 AND beach LE 115 AND beach GE 102) THEN err_2 = 0;
104 IF(zreg=102 AND beach LE 101 AND beach GE 99) THEN err_2 = 0;
105 IF(zreg=104 AND beach LE 98 AND beach GE 96) THEN err_2 = 0;
106 IF(zreg=111 AND beach LE 95 AND beach GE 92) THEN err_2 = 0;
107 IF(zreg=112 AND beach LE 91 AND beach GE 88) THEN err_2 = 0;
108 IF(zreg=113 AND beach LE 87 AND beach GE 79) THEN err_2 = 0;
109 IF(zreg=114 AND beach LE 78 AND beach GE 73) THEN err_2 = 0;
110 IF(zreg=115 AND beach LE 72 AND beach GE 65) THEN err_2 = 0;
111 IF(zreg=116 AND beach LE 64 AND beach GE 55) THEN err_2 = 0;
112 IF(zreg=121 AND beach LE 54 AND beach GE 43) THEN err_2 = 0;
113 IF(zreg=122 AND beach LE 42 AND beach GE 33) THEN err_2 = 0;
114 IF(zreg=123 AND beach LE 32 AND beach GE 27) THEN err_2 = 0;
115 IF(zreg=124 AND beach LE 26 AND beach GE 24) THEN err_2 = 0;
116 IF(zreg=125 AND beach LE 23 AND beach GE 10) THEN err_2 = 0;
117 IF(zreg=126 AND beach LE 9 AND beach GE 6) THEN err_2 = 0;
118 IF(zreg=127 AND beach LE 5 AND beach GE 4) THEN err_2 = 0;
119 IF(zreg=128 AND beach LE 3 AND beach GE 2) THEN err_2 = 0;
120 IF(zreg=129 AND beach=1) THEN err_2 = 0;
121 END;
122 IF err_2 > 0 THEN msg_2 = 'undesigned beach in region';
123 IF err_1 > 0 OR err_2 > 0 THEN OUTPUT; RUN;
124
125 TITLE 'Subtask 2.2 Audit 1987 BEACH, RIV_MILE, RIV_RUN...\BSFS87';
126 PROC PRINT DATA=zfile3; TITLE2 'Suspicious Samples'; RUN;
127
128 PROC PLOT DATA=SAS01.BSSLV3; TITLE2 'BEACH VS RIV_MILE';
129 PLOT beach*riv_mile; RUN;
.....1.....2.....3.....4.....5.....6.....7.....8

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1  OPTIONS LS=132 PS=60 CENTER;
2  /* File F586TK22.SAS 1986 Sub-Task 2.2 6/17/88 115-148 R.Uy
3  Check 1986 Falls Shoal VOLUME,STRATA,RIV_MILE,RIV_RUN... */
4
5  LIBNAME SAS01 'FISH86';
6  DATA zlv3(KEEP=year task_cd sample date time riv_mile riv_run
7  gear strata riv_dpth sam_dpth use_code duration flo_n flo_dif
8  volume err_1 err_2 err_3 msg_a err_4 msg_b flo_strt flo_end);
9  MERGE SAS01.ICHFSLV3 SAS01.ICHFSLV4; BY year task_cd sample;
10 err_1=0; err_2=0; err_3=0; err_4=0; LENGTH msg_a $30 msg_b $30;
11 IF strata EQ 1 AND riv_dpth GT 6.1 THEN err_1 EQ 1;
12 IF strata EQ 2 AND (riv_dpth - sam_dpth) GT 3.1 THEN err_1 = 1;
13 IF strata EQ 3 AND (riv_dpth - sam_dpth) LE 3.1 THEN err_1 = 1;
14 IF strata GT 1 AND riv_dpth LE 6.1 THEN err_1 = err_1 + 10;
15 IF use_code NE 5 THEN DO; * NOT for voided samples;
16 IF riv_mile LT 12 OR riv_mile GT 152 THEN err_2 = 1;
17 IF riv_run LT 1 THEN err_3 = 1; END; RUN;
18
19 PROC SORT DATA=SAS01.FLOW OUT=zflow; BY flo_n date; RUN;
20 PROC SORT DATA=zlv3 OUT=zfld; BY flo_n date time; RUN;
21 DATA zvol(DROP=A B N flo); MERGE zfld(IN=INFLD) zflow(IN=INFLOW);
22 BY flo_n date; RETAIN A_val B_val N_flo;
23 err_4 = 0;
24 IF INFLOW AND INFLD THEN err_4 = 1; *calibrating & using...;
25 IF INFLOW THEN DO;
26 A_val = A; B_val = B; N_flo = flo_n; END;
27 IF (INFLD AND use_code NE 5) THEN DO;
28 IF ABS(flo_n - n_flo) GT 0.5 THEN DO;
29 err_4 = 2; vol_cal = .X; END;
30 ELSE
31 vol_cal = (flo_dif - A_val * duration * 60) / (100 * B_val);
32 IF ABS(vol_cal - volume) GT 0.1 THEN err_4 = err_4 + 10;
33 vol_cal = ROUND(vol_cal, 0.1);
34 END;
35 IF INFLD THEN OUTPUT;
36 RUN;
37
38 PROC SORT DATA=zvol OUT=zlv3; BY year task_cd sample; RUN;
39 DATA zerr; SET zlv3;
40 IF err_1 GT 0 OR err_2 GT 0 OR err_3 GT 0 OR err_4 GT 0;
41 IF err_1 GT 0 THEN msg_a = 'wrong DPTH for STRATA';
42 IF err_2 GT 0 THEN msg_a = 'RIV MILE not 12-152';
43 IF err_3 GT 0 THEN msg_a = 'RIV_RUN not >=1';
44 IF err_4 EQ 1 THEN msg_b = 'cal_FLO_N in use at same time';
45 IF err_4 EQ 2 THEN msg_b = 'FLO_N missing or NOT calibrated';
46 IF err_4 GE 10 THEN msg_b = 'VOL_CAL - VOLUME > 0.1';
47 RUN;
48
49 TITLE 'Subtask 2.2 for \FISH86\ 1986 Falls Shoals';
50 TITLE2 'Suspicious samples';
51 PROC PRINT DATA=zerr; RUN;
52
53 DATA SAS01.zlv3; set zlv3; RUN;
54 DATA zlv3; SET zlv3; IF use_code NE 5; RUN;
55 PROC PLOT DATA=zlv3;
56 PLOT vol_cal*duration; TITLE2 'volume vs duration'; RUN;
57 PROC PLOT DATA=zlv3;
58 PLOT vol_cal*flo_dif; TITLE2 'volume vs flo_dif'; RUN;

```

```

1 .....1.....2.....3.....4.....5.....6.....7.....8
2 OPTIONS LS=132 PS=60 CENTER;
3 /* File LR86TK22.SAS 1986 Sub-Task 2.2 6/17/88 115-148 R.Uy
4 Check 1986 Ichthyo VOLUME,STRATA,RIV_MILE,RIV_RUN... */
5 LIBNAME SAS01 'ICH86';
6 DATA zlv3(KEEP=year task_cd sample date time riv_mile riv_run
7 gear strata riv_dpth sam_dpth use_code duration flo_n flo_dif
8 volume err_1 err_2 err_3 err_4 flo_strt flo_end);
9 MERGE SAS01.ICHLRLV3 SAS01.ICHLRLV4; BY year task_cd sample;
10 err_1=0; err_2=0; err_3=0; err_4=0;
11 IF strata EQ 1 AND riv_dpth GT 6.1 THEN err_1 = 1;
12 IF strata EQ 2 AND (riv_dpth - sam_dpth) GT 3.1 THEN err_1 = 1;
13 IF strata EQ 3 AND (riv_dpth - sam_dpth) LE 3.1 THEN err_1 = 1;
14 IF strata EQ 1 AND riv_dpth LE 6.1 THEN err_1 = err_1 + 10;
15 IF use_code NE 5 THEN DO; * NOT for voided samples;
16 IF riv_mile LT 12 OR riv_mile GT 152 THEN err_2 = 1;
17 IF riv_run LT 1 THEN err_3 = 1; END; RUN;
18
19 PROC SORT DATA=SAS01.FLOWDATA OUT=zflow; BY flo_n date; RUN;
20 PROC SORT DATA=zlv3 OUT=zfld; BY flo_n date time; RUN;
21 DATA zvol(DROP=A B N flo); MERGE zfld(IN=INFLD) zflow(IN=INFLOW);
22 BY flo_n date; RETAIN A_val B_val N_flo;
23 err_4 = 0;
24 IF INFLOW AND INFLD THEN err_4 = 1; *calibrating & using...;
25 IF INFLOW THEN DO;
26 A_val = A; B_val = B; N_flo = flo_n; END;
27 IF(INFLD AND use_code NE 5) THEN DO;
28 IF ABS(flo_n - n_flo) GT 0.5 THEN DO;
29 err_4 = 2; vol_cal = .X; END;
30 ELSE
31 vol_cal = (flo_dif - A_val * duration*60) / (100*B_val);
32 IF gear EQ 18 THEN vol_cal = vol_cal * 2.743066;
33 IF(ABS(vol_cal - volume) GT 0.2) THEN err_4 = err_4 + 10;
34 vol_cal = ROUND(vol_cal,0.1);
35 END;
36 IF INFLD THEN OUTPUT;
37 RUN;
38
39 PROC SORT DATA=zvol OUT=zlv3; BY year task_cd sample; RUN;
40 DATA zerr; SET zlv3;
41 IF err_1 GT 0 OR err_2 GT 0 OR err_3 GT 0 OR err_4 GT 0;
42 IF err_1 GT 0 THEN msg_a = 'wrong DPTH for STRATA';
43 IF err_2 GT 0 THEN msg_a = 'RIV_MILE not 12-152';
44 IF err_3 GT 0 THEN msg_a = 'RIV_RUN not >=1';
45 IF err_4 EQ 1 THEN msg_b = 'cal.FLO_N in use at same time';
46 IF err_4 EQ 2 THEN msg_b = 'FLO_N missing or uncalibrated';
47 IF err_4 GE 10 THEN msg_b = 'VOL_CAL - VOLUME > 0.1';
48 RUN;
49
50 TITLE 'Subtask 2.2 for \ICH86\ 1986 Ichthyoplankton';
51 TITLE2 'Suspicious samples';
52 PROC PRINT DATA=zerr; RUN;
53
54 DATA SAS01.zlv3; set zlv3; RUN;
55 DATA zlv3; SET zlv3; IF use_code NE 5; RUN;
56 PROC PLOT DATA=zlv3;
57 PLOT volume*duration; TITLE2 'volume vs duration'; RUN;
58 PROC PLOT DATA=zlv3;
59 PLOT volume*flo_dif; TITLE2 'volume vs flo_dif'; RUN;

```

```

1 .....1.....2.....3.....4.....5.....6.....7.....8
2 OPTIONS LS=132 PS=60 CENTER;
3 /* File LR87TK22.SAS 1987 Sub-Task 2.2 6/17/88 115-148 R.Uy
4 Check 1987 Ichthyo VOLUME,STRATA,RIV_MILE,RIV_RUN... */
5 LIBNAME SAS01 'ICH87';
6 DATA zlv3(KEEP=year task_cd sample date time riv mile riv_run
7 gear strata riv_dpth sam_dpth use_code duration flo_n flo_dif
8 volume err_1 err_2 err_3 err_4 flo_strt flo_end);
9 MERGE SAS01.ICHRLV3 SAS01.ICHRLV4; BY year task_cd sample;
10 err_1=0; err_2=0; err_3=0; err_4=0;
11 IF strata EQ 1 AND riv_dpth GT 6.1 THEN err_1 = 1;
12 IF strata EQ 2 AND (riv_dpth - sam_dpth) GT 3.1 THEN err_1 = 1;
13 IF strata EQ 3 AND (riv_dpth - sam_dpth) LE 3.1 THEN err_1 = 1;
14 IF strata GT 1 AND riv_dpth LE 6.1 THEN err_1 = err_1 + 10;
15 IF use_code NE 5 THEN DO; * NOT for voided samples;
16 IF riv_mile LT 12 OR riv_mile GT 152 THEN err_2 = 1;
17 IF riv_run LT 1 THEN err_3 = 1; END; RUN;
18
19 PROC SORT DATA=SAS01.FLOWDATA OUT=zflow; BY flo_n date; RUN;
20 PROC SORT DATA=zlv3 OUT=zfld; BY flo_n date time; RUN;
21 DATA zvol(DROP=A B N flo); MERGE zfld(IN=INFLD) zflow(IN=INFLOW);
22 BY flo_n date; RETAIN A_val B_val N_flo;
23 err_4 = 0;
24 IF INFLOW AND INFLD THEN err_4 = 1; *calibrating & using...;
25 IF INFLOW THEN DO;
26 A_val = A; B_val = B; N_flo = flo_n; END;
27 IF(INFLD AND use_code NE 5) THEN DO;
28 IF ABS(flo_n - n_flo) GT 0.5 THEN DO;
29 err_4 = 2; vol_cal = .X; END;
30 ELSE
31 vol_cal = (flo dif - A_val * duration*60) / (100*B_val);
32 IF gear EQ 18 THEN vol_cal = vol_cal * 2.743066;
33 IF ABS(vol_cal - volume) GT 0.2 THEN err_4 = err_4 + 10;
34 vol_cal = ROUND(vol_cal,0.1);
35 END;
36 IF INFLD THEN OUTPUT;
37 RUN;
38
39 PROC SORT DATA=zvol OUT=zlv3; BY year task_cd sample; RUN;
40 DATA zerr; SET zlv3;
41 IF err_1 GT 0 OR err_2 GT 0 OR err_3 GT 0 OR err_4 GT 0;
42 IF err_1 GT 0 THEN msg_a = 'wrong DPTH for STRATA';
43 IF err_2 GT 0 THEN msg_a = 'RIV MILE not 12-152';
44 IF err_3 GT 0 THEN msg_a = 'RIV RUN not >=1';
45 IF err_4 EQ 1 THEN msg_b = 'cal_FLO_N in use at same time';
46 IF err_4 EQ 2 THEN msg_b = 'FLO_N missing or uncalibrated';
47 IF err_4 GE 10 THEN msg_b = 'VOL_CAL - VOLUME > 0.1';
48 RUN;
49
50 TITLE 'Subtask 2.2 for \ICH87\ 1987 Ichthyoplankton';
51 TITLE2 'Suspicious samples';
52 PROC PRINT DATA=zerr; RUN;
53
54 DATA SAS01.zlv3; set zlv3; RUN;
55 DATA zlv3; SET zlv3; IF use_code NE 5; RUN;
56 PROC PLOT DATA=zlv3;
57 PLOT volume*duration; TITLE2 'volume vs duration'; RUN;
58 PROC PLOT DATA=zlv3;
59 PLOT volume*flo_dif ; TITLE2 'volume vs flo_dif'; RUN;
.....1.....2.....3.....4.....5.....6.....7.....8

```



```
1  OPTIONS LS=132 PS=60 CENTER;  
2  /* File BS86TK22.SAS 1986 Sub-Task 2.2 6/17/88 115-148 R.Uy  
3  Check 1986-87 Beach Seine BEACH,RIV_MILE,RIV_RUN.... */  
4  
5  * 1986 Output RIV_MILE min,max,n by BEACH no. ;  
6  LIBNAME SAS01 'FISH86';  
7  PROC SORT DATA=SAS01.B5SLV3 OUT=zfile1; BY beach; RUN;  
8  PROC MEANS DATA=zfile1 NOPRINT N MISS MIN MAX; BY beach; VAR riv_mile;  
9  OUTPUT OUT=zfile2 N=n MISS=nmiss MIN=min_rm MAX=max_rm; RUN;  
11 DATA zfile3(KEEP=year task_cd sample date time beach riv_mile  
12 riv_run use code err_1 err_2 msg_1 msg_2 min_rm max_rm n);  
13 MERGE zfile2 zfile1; BY beach;  
14 err_1=0; err_2=0; msg_1='.'; msg_2='.';  
15 IF riv_mile = . OR riv_mile < 12 OR riv_mile > 152 THEN err_1 = 1;  
16 IF ABS(riv_mile - min_rm) > 0.9 OR ABS(riv_mile - max_rm) > 0.9  
17 THEN err_1 = 2;  
18 IF riv_run = . THEN err_1 = 3;  
19 IF beach = . OR beach < 1 THEN err_1 = 4;  
20 IF err_1 = 1 THEN msg_1='RIV_MILE Not 12-152';  
21 IF err_1 = 2 THEN msg_1='min RIV_MILE < max';  
22 IF err_1 = 3 THEN msg_1='Missing RIV_RUN';  
23 IF err_1 = 4 THEN msg_1='Missing BEACH';  
24  
25 IF err_1 = 0 THEN;  
26 IF(riv_mile >= 12 AND riv_mile <= 24) THEN zreg = 11;  
27 IF(riv_mile >= 15 AND riv_mile <= 17) THEN zreg = 12;  
28 IF(riv_mile >= 18 AND riv_mile <= 20) THEN zreg = 13;  
29 IF(riv_mile >= 21 AND riv_mile <= 23) THEN zreg = 14;  
30 IF(riv_mile >= 24 AND riv_mile <= 26) THEN zreg = 21;  
31 IF(riv_mile >= 27 AND riv_mile <= 29) THEN zreg = 22;  
32 IF(riv_mile >= 30 AND riv_mile <= 33) THEN zreg = 23;  
33 IF(riv_mile >= 34 AND riv_mile <= 35) THEN zreg = 31;  
34 IF(riv_mile >= 36 AND riv_mile <= 38) THEN zreg = 32;  
35 IF(riv_mile >= 39 AND riv_mile <= 41) THEN zreg = 41;  
36 IF(riv_mile >= 42 AND riv_mile <= 44) THEN zreg = 42;  
37 IF(riv_mile >= 45 AND riv_mile <= 46) THEN zreg = 43;  
38 IF(riv_mile >= 47 AND riv_mile <= 49) THEN zreg = 51;  
39 IF(riv_mile >= 50 AND riv_mile <= 52) THEN zreg = 52;  
40 IF(riv_mile >= 53 AND riv_mile <= 55) THEN zreg = 53;  
41 IF(riv_mile >= 56 AND riv_mile <= 58) THEN zreg = 61;  
42 IF(riv_mile >= 59 AND riv_mile <= 61) THEN zreg = 62;  
43 IF(riv_mile >= 62 AND riv_mile <= 64) THEN zreg = 71;  
44 IF(riv_mile >= 65 AND riv_mile <= 67) THEN zreg = 72;  
45 IF(riv_mile >= 68 AND riv_mile <= 70) THEN zreg = 73;  
46 IF(riv_mile >= 71 AND riv_mile <= 73) THEN zreg = 74;  
47 IF(riv_mile >= 74 AND riv_mile <= 76) THEN zreg = 75;  
48 IF(riv_mile >= 77 AND riv_mile <= 79) THEN zreg = 81;  
49 IF(riv_mile >= 80 AND riv_mile <= 82) THEN zreg = 82;  
50 IF(riv_mile >= 83 AND riv_mile <= 85) THEN zreg = 83;  
51 IF(riv_mile >= 86 AND riv_mile <= 87) THEN zreg = 91;  
52 IF(riv_mile >= 88 AND riv_mile <= 90) THEN zreg = 92;  
53 IF(riv_mile >= 91 AND riv_mile <= 93) THEN zreg = 93;  
54 IF(riv_mile >= 94 AND riv_mile <= 97) THEN zreg = 101;  
55 IF(riv_mile >= 98 AND riv_mile <= 100) THEN zreg = 102;  
56 IF(riv_mile >= 101 AND riv_mile <= 103) THEN zreg = 103;  
57 IF(riv_mile >= 104 AND riv_mile <= 106) THEN zreg = 104;
```

APPENDIX B

1986-1987 WATER QUALITY

APPENDIX TABLE 1

WEIGHTED MEAN TEMPERATURE (C) BY REGION AND WEEK  
HUDSON RIVER ESTUARY, 1986, (ASSOCIATED WITH THE  
LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
28APR86	11.1	12.1	11.5	11.7	12.0	12.5	12.0	12.2	13.5	14.1	14.3	15.1
05MAY86	12.0	12.3	12.3	12.9	13.3	13.6	13.6	14.4	14.9	14.7	15.1	14.6
12MAY86	14.1	14.5	14.5	14.7	14.7	15.2	15.5	16.0	16.4	16.9	16.9	16.8
19MAY86	17.0	17.2	16.8	16.9	17.3	17.7	17.4	17.9	18.7	19.0	19.4	19.9
26MAY86	19.2	19.4	19.6	18.9	19.7	20.7	20.6	20.9	20.8	20.6	20.5	20.8
02JUN86	19.2	19.6	20.8	20.7	21.0	21.2	21.5	21.3	21.2	21.2	21.3	21.4
09JUN86	20.5	20.6	21.7	21.9	21.6	21.8	21.2	20.7	20.4	20.7	20.6	20.9
16JUN86	21.2	22.2	22.5	22.0	21.1	21.1	21.6	21.0	21.2	21.1	20.6	20.3
23JUN86	22.5	22.5	22.7	22.6	21.7	21.7	21.4	21.0	21.0	20.7	20.4	20.5
30JUN86	21.7	22.7	23.3	22.6	22.2	22.4	22.0	21.5	22.0	22.5	22.6	22.9
07JUL86	22.8	24.1	24.4	24.1	23.5	23.9	23.2	23.0	23.4	24.1	24.6	24.1
21JUL86	23.5	25.4	25.4	25.6	25.1	25.1	25.0	24.9	25.0	25.1	25.4	24.8
04AUG86	25.5	25.6	26.1	25.7	25.3	25.3	25.6	25.2	25.1	25.0	24.9	24.5
18AUG86	25.3	26.3	26.7	26.1	25.6	25.7	25.3	24.7	24.6	24.1	24.0	23.7
01SEP86	21.3	22.0	22.9	24.2	23.4	23.0	22.7	21.7	21.0	21.8	22.1	21.1
15SEP86	21.1	21.2	21.9	22.1	21.1	21.0	20.8	19.9	19.4	19.0	19.4	19.7
29SEP86	19.9	20.7	21.2	21.8	20.9	20.4	19.5	19.0	19.0	19.2	17.9	17.2
13OCT86	17.1	17.9	18.1	17.7	16.8	16.9	16.4	15.0	14.3	13.7	13.2	12.1
27OCT86	15.0	15.4	16.0	15.7	15.2	14.8	13.9	12.4	11.9	11.3	11.3	11.2
10NOV86	12.0	11.9	12.4	11.2	10.0	9.4	8.2	8.2	8.1	7.6	7.5	7.4
17NOV86	6.4	5.4	8.6	7.1	6.7	6.5	5.0	3.7	3.1	3.0	2.8	2.6

APPENDIX TABLE 1

MEAN TEMPERATURE (C) WEIGHTED BY REGION  
 HUDSON RIVER ESTUARY, 1986, (ASSOCIATED WITH THE  
 BEACH SEINE SURVEY)

WEEK BEGINNING MONDAY	REGIONS												
	YK	TZ	CH	IP	MP	CW	PK	HP	KG	SG	CS	AL	
14JUL86	23.4	24.7	25.2	24.4	24.8	26.3	24.8	23.8	23.3	25.2	26.2	23.3	
28JUL86	24.7	26.3	25.4	24.7	25.2	25.6	25.5	25.2	25.3	25.4	27.3	26.2	
11AUG86	26.4	26.7	25.1	25.5	25.9	26.2	26.2	25.1	24.6	26.3	24.7	23.4	
25AUG86	24.7	22.8	23.3	25.5	23.4	25.3	25.0	24.6	23.3	23.0	24.1	22.6	
08SEP86	22.2	22.6	23.7	23.4	23.2	22.2	22.5	21.9	21.4	21.0	20.7	20.1	
22SEP86	20.2	20.9	21.1	22.9	21.1	20.5	19.8	18.8	18.7	19.2	19.0	17.7	
06OCT86	19.9	18.9	19.2	20.1	17.1	15.4	18.8	17.9	17.1	15.3	16.7	14.9	
20OCT86	16.1	15.6	16.4	17.5	16.7	16.7	15.6	14.0	12.9	13.0	13.0	11.5	
03NOV86	14.1	11.3	14.3	14.5	14.9	12.9	10.9	10.6	9.0	9.2	10.3	9.6	
17NOV86	9.8	8.5	7.9	9.7	8.9	8.0	7.5	4.0	4.0	4.0	4.2	3.9	

APPENDIX TABLE 1

WEIGHTED MEAN DISSOLVED OXYGEN (MG/L) BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1986, (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	MP	CW	PK	HP	KG	SG	CS	AL
28APR86	9.7	10.2	10.0	9.8	9.9	9.5	9.5	9.5	9.7	9.4	9.0	8.9
05MAY86	9.1	9.8	10.1	9.7	10.3	10.8	10.3	10.2	10.6	10.2	8.9	8.8
12MAY86	9.1	9.5	9.6	9.7	10.2	11.3	10.7	10.6	11.0	11.8	8.9	7.8
19MAY86	10.2	11.9	10.0	9.6	9.4	10.4	9.8	9.3	9.7	10.2	8.6	5.9
26MAY86	9.5	9.5	8.9	8.7	8.1	7.7	7.6	7.6	8.4	8.7	8.2	7.9
02JUN86	7.6	7.9	7.9	8.2	7.9	8.3	8.3	8.2	8.7	8.7	7.7	7.5
09JUN86	7.7	7.9	10.5	10.0	7.4	7.7	8.0	8.1	8.9	9.1	8.4	8.4
16JUN86	6.8	7.1	7.6	7.4	8.0	8.3	8.0	8.6	8.3	8.8	8.5	8.1
23JUN86	7.8	8.5	8.0	8.3	8.0	7.6	8.2	8.4	8.6	8.9	8.7	8.6
30JUN86	6.8	7.4	7.6	7.7	8.8	8.9	8.6	8.0	8.5	10.0	9.4	8.2
07JUL86	7.4	7.6	7.7	7.1	6.9	7.9	8.9	8.6	9.8	10.8	9.6	8.2
21JUL86	5.1	7.6	6.9	6.3	6.5	6.9	6.8	6.9	8.0	8.7	9.6	7.7
04AUG86	5.1	8.4	6.5	6.0	6.0	6.6	6.6	6.7	7.2	7.4	7.7	7.6
18AUG86	5.8	6.7	6.9	6.2	6.3	6.4	6.1	6.1	8.3	8.4	8.2	7.7
01SEP86	5.6	6.2	6.0	5.4	6.4	6.5	6.6	7.5	8.7	9.1	8.9	8.1
15SEP86	5.6	7.8	7.9	6.9	6.9	7.0	7.0	7.6	8.1	8.7	9.1	7.7
29SEP86	7.5	8.3	7.6	7.1	6.5	7.0	7.3	7.8	8.2	8.6	8.5	8.7
13OCT86	7.2	8.3	8.1	8.6	8.4	8.4	8.5	9.4	9.6	10.1	9.6	10.6
27OCT86	8.4	7.9	7.7	8.0	8.9	9.4	9.7	10.0	10.3	10.4	10.4	11.4
10NOV86	9.0	9.5	9.2	9.0	9.5	9.7	9.8	9.7	10.0	10.6	11.1	11.6
17NOV86	10.5	11.3	10.5	10.2	10.6	10.1	10.6	11.1	12.0	12.0	12.4	13.1

APPENDIX TABLE 1

WEIGHTED MEAN DISSOLVED OXYGEN (MG/L) BY REGION AND WEEK  
HUDSON RIVER ESTUARY, 1986, (ASSOCIATED WITH THE  
BEACH SEINE SURVEY)

WEEK BEGINNING MONDAY	REGIONS												
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	
14JUL86	7.8	8.7	8.4	8.6	7.9	11.0	7.9	8.0	7.7	9.2	9.6	7.7	
28JUL86	6.4	8.1	6.8	6.1	6.2	6.1	6.6	6.7	7.0	7.0	10.0	6.8	
11AUG86	7.9	9.6	8.1	8.7	8.3	11.5	7.8	7.1	8.4	10.4	8.6	7.7	
25AUG86	7.9	9.1	8.3	8.1	7.4	9.6	8.5	8.5	8.1	8.8	11.2	7.9	
08SEP86	6.8	8.4	8.4	7.1	6.8	9.5	7.4	8.4	8.8	8.9	9.6	8.5	
22SEP86	6.0	8.1	8.4	7.2	6.5	7.9	7.7	8.2	8.4	8.9	9.6	8.8	
06OCT86	7.7	8.6	8.6	8.4	8.6	9.0	8.5	9.0	10.7	9.2	10.1	10.1	
20OCT86	8.2	9.4	9.3	9.0	9.0	10.0	9.8	9.8	9.7	10.7	10.4	10.3	
03NOV86	7.5	9.3	8.7	8.8	8.9	10.0	10.2	9.8	10.5	10.4	10.7	10.2	
17NOV86	9.4	10.4	10.4	10.5	10.7	10.7	11.1	12.4	11.8	12.1	12.2	12.2	

APPENDIX TABLE 1

WEIGHTED MEAN SALINITY (PPT) BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1986, (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS									
						CW	PK	HP	KG	SG	CS	AL			
28APR86	8.4	4.1	2.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
05MAY86	13.4	5.4	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12MAY86	9.3	5.7	3.5	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19MAY86	9.7	6.0	3.0	1.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26MAY86	3.6	1.7	0.6	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
02JUN86	6.8	3.5	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09JUN86	6.9	3.8	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16JUN86	9.1	3.7	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23JUN86	2.7	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30JUN86	9.9	2.4	0.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
07JUL86	9.7	6.2	3.9	3.2	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21JUL86	12.7	5.6	3.2	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
04AUG86	9.3	5.9	3.6	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18AUG86	7.1	2.6	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
01SEP86	11.9	6.6	5.3	3.9	1.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15SEP86	12.0	6.1	4.1	2.4	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29SEP86	11.6	6.5	5.1	4.3	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13OCT86	13.8	7.0	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27OCT86	11.5	7.6	6.4	4.3	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10NOV86	7.7	3.8	2.0	0.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
17NOV86	1.3	0.1	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1

APPENDIX TABLE 1

MEAN SALINITY (PPT) WEIGHTED BY REGION  
 HUDSON RIVER ESTUARY, 1986, (ASSOCIATED WITH THE  
 BEACH SEINE SURVEY)

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS								
						CW	PK	HP	KG	SG	CS	AL		
14JUL86	10.6	6.1	3.4	3.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
28JUL86	6.4	4.3	2.1	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11AUG86	5.2	3.4	1.5	0.8	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25AUG86	5.2	1.9	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
08SEP86	9.0	6.1	4.4	2.9	1.0	0.8	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
22SEP86	11.8	4.7	3.4	2.5	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06OCT86	8.0	4.9	2.9	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20OCT86	.	3.3	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
03NOV86	10.6	6.1	4.7	3.3	2.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
17NOV86	6.2	2.2	0.5	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0



APPENDIX TABLE 1

PERCENT SATURATION BY REGION AND WEEK  
HUDSON RIVER ESTUARY, 1986, (ASSOCIATED WITH THE  
LONG RIVER ICTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS												
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	
28APR86	93.6	98.1	93.4	91.0	92.2	89.1	87.9	88.5	93.5	91.6	88.2	88.4	
05MAY86	92.9	94.6	94.9	92.6	98.3	104	98.7	100	105	100	88.4	86.5	
12MAY86	94.7	96.7	96.5	97.4	101	113	107	107	113	121	92.1	80.0	
19MAY86	112	129	105	100	99.0	109	102	97.5	104	110	92.8	64.5	
26MAY86	106	104	97.6	93.4	87.9	86.1	84.6	84.7	94.2	96.5	91.4	87.8	
02JUN86	85.7	87.7	89.7	91.8	88.0	93.2	93.7	92.5	97.5	97.6	87.2	84.9	
09JUN86	89.8	89.6	120	123	84.6	88.1	90.4	90.2	98.6	101	93.3	93.5	
16JUN86	81.1	83.6	89.0	84.7	90.2	93.1	91.0	96.1	92.8	98.3	94.3	90.0	
23JUN86	92.0	98.8	92.7	95.9	91.4	85.9	93.1	94.0	96.2	99.1	96.1	95.4	
30JUN86	82.1	87.3	90.1	89.3	100	102	98.0	90.6	96.9	116	109	95.7	
07JUL86	91.7	94.4	94.5	86.6	81.3	93.7	104	100	115	128	116	97.7	
21JUL86	65.6	95.5	85.9	77.6	78.4	83.9	81.7	83.6	96.5	105	117	93.3	
04AUG86	66.1	106	82.0	73.7	73.1	80.1	80.8	81.1	86.8	89.9	92.4	91.4	
18AUG86	74.3	84.7	86.7	76.8	76.9	78.4	74.1	.	98.9	99.7	97.0	91.0	
01SEP86	68.6	73.8	72.5	66.1	75.6	76.4	76.8	85.2	97.1	103	102	91.2	
15SEP86	68.2	90.9	92.5	79.8	77.3	78.6	78.2	83.7	87.7	93.4	98.5	84.0	
29SEP86	88.5	95.8	88.6	83.1	73.5	78.1	79.2	84.1	87.9	93.3	89.5	89.9	
13OCT86	81.8	91.7	87.0	90.8	86.8	86.9	87.1	93.5	93.7	97.3	91.1	99.0	
27OCT86	89.6	82.8	81.4	82.8	89.2	93.2	93.8	93.8	95.2	94.7	95.0	104	
10NOV86	87.6	90.2	87.3	81.8	84.4	84.7	83.6	82.0	84.8	88.4	92.4	96.7	
17NOV86	86.4	89.3	90.6	83.9	86.9	82.3	83.2	84.2	89.4	89.2	91.4	96.6	

APPENDIX TABLE 1

PERCENT SATURATION BY REGION AND WEEK  
HUDSON RIVER ESTUARY, 1986, (ASSOCIATED WITH THE  
BEACH SEINE SURVEY)

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
14JUL86	98.5	109	105	105	95.0	137	95.4	94.4	104	112	119	90.2
28JUL86	80.2	104	83.8	73.1	75.0	74.5	80.5	80.8	84.9	84.9	126	84.5
11AUG86	102	123	98.9	107	102	142	96.0	85.8	100	130	104	90.1
25AUG86	98.4	112	93.7	102	86.6	117	103	102	95.1	102	133	90.9
08SEP86	82.7	101	102	85.2	80.4	109	85.6	96.1	100	99.3	107	94.0
22SEP86	71.3	93.2	96.3	84.9	73.3	87.7	84.4	88.1	90.5	96.6	103	92.4
06OCT86	89.4	96.4	94.9	92.8	88.8	90.0	91.0	94.8	111	92.1	104	99.9
20OCT86	.	99.0	96.6	95.0	92.0	103	98.2	95.0	91.8	102	98.9	95.0
03NOV86	78.5	88.4	88.1	88.5	89.2	94.5	91.8	88.4	90.4	90.5	95.2	89.2
17NOV86	86.9	90.6	88.2	92.0	92.7	90.8	92.4	94.7	90.6	92.0	93.5	92.9

APPENDIX TABLE 1

WEIGHTED MEAN CONDUCTIVITY (mS/cm) BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1986, (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS								
						CW	PK	HP	KG	SG	CS	AL		
28APR86	10.6	5.6	2.8	0.9	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2
05MAY86	16.6	7.2	2.0	0.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
12MAY86	12.6	8.0	5.1	3.2	1.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
19MAY86	13.7	8.8	4.7	2.2	1.9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
26MAY86	5.9	2.9	1.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
02JUN86	10.3	5.7	2.9	1.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
09JUN86	10.9	6.3	1.2	0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
16JUN86	14.3	6.2	2.8	0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23JUN86	4.7	1.1	0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
30JUN86	15.3	4.1	1.7	1.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
07JUL86	15.5	10.6	7.1	5.9	2.7	0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
21JUL86	20.6	10.0	6.0	4.1	1.0	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
04AUG86	16.0	10.6	6.7	3.2	0.7	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2
18AUG86	12.6	5.0	1.6	0.4	0.3	0.2	0.2	0.2	0.2	0.6	0.2	0.2	0.3	0.2
01SEP86	18.4	10.9	9.1	7.1	2.9	1.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15SEP86	18.6	10.0	7.0	4.3	1.5	0.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
29SEP86	17.4	10.3	8.3	7.3	2.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
13OCT86	19.3	10.4	4.2	1.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
27OCT86	15.4	10.6	9.2	6.4	2.9	1.0	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1
10NOV86	10.1	5.1	2.9	0.6	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17NOV86	1.6	0.2	1.7	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2

APPENDIX TABLE 1

MEAN CONDUCTIVITY (MS/CM) WEIGHTED BY REGION  
 HUDSON RIVER ESTUARY, 1986, (ASSOCIATED WITH THE  
 BEACH SEINE SURVEY)

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS							
						CH	PK	HP	KG	SG	CS	AL	
14JUL86	17.4	10.7	6.3	5.6	0.6	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2
28JUL86	11.3	8.1	4.0	1.8	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
11AUG86	9.7	6.5	2.9	1.7	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
25AUG86	9.2	3.5	1.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
08SEP86	14.6	10.2	7.7	5.3	2.0	1.5	0.3	0.3	0.3	0.2	0.2	0.2	0.2
22SEP86	17.9	7.8	5.8	4.4	1.4	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2
06OCT86	12.6	7.8	4.7	1.8	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20OCT86	-	5.0	2.9	1.6	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1
03NOV86	14.2	8.0	6.7	4.8	3.3	0.6	0.2	0.2	0.2	0.1	0.1	0.1	0.2
17NOV86	7.8	2.8	0.7	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2

APPENDIX TABLE 1

WEIGHTED MEAN TEMPERATURE (C) BY REGION AND WEEK  
HUDSON RIVER ESTUARY, 1987, (ASSOCIATED WITH THE  
LONG RIVER ICTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	YK	TZ	REGIONS												
			CH	IP	WP	CW	PK	HP	KG	SG	CS	AL			
13APR87	8.9	9.0	.	.	.	.	.	.	.	.	.	10.1	10.0	10.0	10.0
20APR87	.	.	12.1	11.6	11.4	11.6	11.5	12.1	12.1	12.5	12.9	12.5	12.9	13.0	12.5
27APR87	11.4	11.7	12.2	12.6	11.2	10.6	11.4	11.0	11.0	9.8	9.8	9.8	9.8	12.3	13.3
04MAY87	11.0	11.5	12.1	11.7	12.0	12.1	13.0	12.8	12.8	12.3	12.3	12.3	12.3	12.4	11.9
11MAY87	13.6	13.9	13.8	13.7	14.0	14.6	14.8	14.2	14.2	14.8	15.7	14.8	15.7	15.4	16.3
18MAY87	15.6	16.0	16.5	16.4	15.5	15.8	15.5	15.8	15.8	16.1	16.2	16.1	16.2	16.7	17.7
25MAY87	16.4	17.3	17.8	17.1	16.9	17.6	17.1	17.2	17.2	17.8	18.3	17.8	18.3	18.5	19.1
01JUN87	20.0	19.5	19.8	19.5	18.7	19.0	19.0	19.5	19.5	20.2	21.1	20.2	21.1	22.2	22.5
08JUN87	18.8	20.1	20.2	19.7	19.4	19.2	19.2	19.4	19.4	20.1	20.3	20.1	20.3	20.8	21.3
15JUN87	21.4	21.8	22.4	22.4	21.4	21.0	20.9	21.4	21.4	21.7	21.9	21.7	21.9	22.3	21.8
22JUN87	21.5	23.2	24.0	23.3	22.7	22.8	22.0	22.1	22.1	22.5	23.2	22.5	23.2	23.4	23.8
29JUN87	23.3	22.9	24.0	23.8	23.2	22.9	23.0	23.2	23.2	23.1	23.1	23.1	23.1	23.3	23.0
06JUL87	23.1	24.1	24.3	24.2	23.8	24.2	24.3	23.9	23.9	23.9	23.8	23.9	23.8	23.4	23.5
13JUL87	25.2	25.9	26.7	25.6	25.2	25.4	25.4	25.5	25.5	25.7	26.2	25.7	26.2	26.5	27.1
27JUL87	26.4	26.9	27.6	27.4	26.7	26.4	26.7	26.4	26.4	26.5	27.1	26.5	27.1	27.5	27.9
10AUG87	25.0	25.1	26.2	26.2	25.7	25.5	25.6	25.1	25.1	24.6	24.6	24.6	24.6	24.5	24.5
24AUG87	23.9	23.9	25.1	25.3	25.2	24.7	24.8	24.3	24.3	23.6	23.6	23.6	23.6	23.7	24.6
07SEP87	21.7	22.5	23.5	23.8	23.3	23.7	23.1	22.0	22.0	21.6	21.6	21.6	21.7	21.3	20.7
21SEP87	21.4	22.1	22.0	21.6	20.3	20.4	19.2	18.5	18.5	18.2	17.9	18.2	17.9	17.4	16.9
05OCT87	17.4	17.5	18.1	17.6	16.1	15.7	15.1	14.1	14.1	12.9	11.8	12.9	11.8	12.1	11.6
19OCT87	14.9	14.6	14.4	13.2	12.8	12.0	11.0	10.8	10.8	10.9	10.9	10.9	10.9	10.9	11.2
02NOV87	12.6	12.6	11.9	11.5	11.0	10.8	10.2	10.7	10.7	9.4	9.1	9.4	9.1	9.0	8.5

APPENDIX TABLE 1

MEAN TEMPERATURE (C) WEIGHTED BY REGION  
HUDSON RIVER ESTUARY, 1987, (ASSOCIATED WITH THE  
BEACH SEINE SURVEY)

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
22JUN87	23.3	24.9	26.0	25.8	23.0	22.9	25.0	24.8	25.7	26.3	25.5	24.3
06JUL87	25.0	26.0	25.1	25.1	24.2	24.2	23.7	23.2	23.0	23.2	22.6	22.8
20JUL87	29.4	29.0	27.8	27.6	26.2	28.0	27.6	27.6	26.7	26.4	26.6	25.8
03AUG87	28.2	28.2	27.4	27.2	26.5	26.6	27.2	27.3	26.4	25.9	26.7	25.9
17AUG87	26.9	27.4	27.7	28.7	27.5	27.6	27.7	29.7	27.3	25.9	28.7	27.3
31AUG87	23.2	23.1	24.2	23.6	22.8	23.5	22.4	22.9	23.4	22.8	22.5	21.8
14SEP87	23.3	23.2	23.2	23.6	22.7	23.1	22.4	22.4	22.5	20.6	20.7	20.5
28SEP87	20.0	19.5	22.1	20.8	18.8	18.7	18.5	17.6	17.3	16.8	18.1	17.2
12OCT87	14.9	13.9	15.7	15.2	12.7	11.5	12.7	11.6	10.5	10.8	11.9	10.8
26OCT87	13.7	12.9	13.9	14.0	11.4	10.8	10.6	11.2	11.1	11.3	11.2	11.2
09NOV87	9.7	8.2	9.2	8.0	7.7	6.9	7.0	6.6	5.9	5.7	5.0	5.8

APPENDIX TABLE 1

WEIGHTED MEAN DISSOLVED OXYGEN (MG/L) BY REGION AND WEEK  
HUDSON RIVER ESTUARY, 1987, (ASSOCIATED WITH THE  
LONG RIVER ICTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS												
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	
13APR87	10.7	11.0	.	.	.	.	.	.	10.3	10.2	10.6	11.5	
20APR87	.	.	10.8	10.8	10.8	10.7	10.1	9.2	9.4	8.9	10.4	10.8	
27APR87	8.5	8.3	9.4	9.8	9.6	10.1	9.3	11.1	10.4	10.4	10.1	8.9	
04MAY87	9.0	9.2	9.2	9.3	9.2	9.3	9.5	9.8	9.8	9.9	9.6	9.8	
11MAY87	9.2	9.3	9.2	9.1	9.2	9.5	9.5	11.6	12.0	10.5	10.0	8.0	
18MAY87	7.8	8.8	8.7	8.8	9.1	8.9	8.6	.	10.2	10.4	9.8	7.8	
25MAY87	6.8	8.0	8.8	8.6	8.6	9.4	9.6	9.8	9.5	9.2	9.4	6.6	
01JUN87	10.8	10.4	8.1	8.1	8.2	9.2	9.5	8.3	8.2	8.2	8.7	6.7	
08JUN87	7.7	8.7	8.2	7.6	7.9	8.2	7.6	7.0	7.8	8.4	8.0	7.2	
15JUN87	6.6	7.7	7.8	7.6	7.1	7.5	7.4	7.9	8.4	7.9	7.9	7.6	
22JUN87	5.1	6.5	7.3	7.0	6.8	7.2	6.8	6.9	7.1	7.5	7.8	6.4	
29JUN87	6.7	6.7	7.4	6.6	6.8	7.1	6.3	6.3	6.6	7.0	7.1	6.7	
06JUL87	5.8	6.4	6.5	6.5	8.4	9.5	8.5	8.0	8.4	8.4	8.7	8.4	
13JUL87	4.7	6.6	7.1	6.3	8.2	9.0	8.6	8.6	8.7	9.3	10.0	8.8	
27JUL87	7.6	7.9	7.0	6.9	8.7	9.4	8.6	8.9	9.2	9.2	9.5	7.9	
10AUG87	5.0	6.7	6.8	6.4	7.7	7.8	6.0	5.2	6.4	6.7	7.2	6.2	
24AUG87	4.9	6.7	7.1	6.7	5.9	6.4	6.1	6.6	8.0	8.6	7.8	6.6	
07SEP87	6.0	7.2	7.0	6.5	6.9	6.8	6.1	5.7	7.4	7.6	7.9	7.9	
21SEP87	6.1	6.3	6.4	6.4	6.9	7.6	7.6	7.9	8.1	8.6	9.2	9.7	
05OCT87	8.5	9.8	9.1	9.0	9.2	9.3	9.0	9.7	10.5	10.9	10.5	11.7	
19OCT87	9.0	9.8	10.1	8.4	8.8	9.4	9.9	10.4	10.9	11.0	11.0	11.1	
02NOV87	9.5	9.9	10.8	11.1	11.4	10.9	9.7	9.5	10.0	10.6	10.7	11.5	

APPENDIX TABLE 1

WEIGHTED MEAN DISSOLVED OXYGEN (MG/L) BY REGION AND WEEK  
HUDSON RIVER ESTUARY, 1987, (ASSOCIATED WITH THE  
BEACH SEINE SURVEY)

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
22JUN87	7.7	9.0	11.1	9.8	8.0	7.6	7.8	7.8	8.6	8.6	8.2	6.2
06JUL87	9.5	9.3	7.7	7.2	6.5	7.4	7.3	7.4	7.6	8.1	9.0	7.4
20JUL87	10.6	9.8	7.9	8.2	6.7	8.3	7.2	7.9	8.5	8.4	8.5	7.4
03AUG87	8.3	10.0	8.2	6.8	7.1	7.7	7.6	9.1	9.0	9.4	8.6	7.4
17AUG87	8.8	10.4	10.9	9.5	7.5	8.6	7.7	10.3	10.1	10.3	9.4	8.8
31AUG87	6.6	8.8	9.2	7.2	6.8	9.2	6.9	7.5	9.5	8.5	8.5	7.2
14SEP87	8.4	8.7	8.0	7.7	6.3	9.0	8.2	8.9	9.2	8.6	8.8	9.6
28SEP87	5.5	8.7	8.3	7.7	9.5	10.6	8.9	8.5	9.1	9.5	10.6	11.3
12OCT87	9.9	10.3	10.5	10.0	10.2	10.6	10.4	11.1	11.4	11.5	11.4	11.7
26OCT87	8.6	9.7	9.4	9.2	10.0	10.7	10.9	10.5	10.7	11.4	11.1	11.2
09NOV87	10.9	11.9	11.7	12.0	11.9	12.3	12.4	12.5	12.8	12.8	13.3	13.4



APPENDIX TABLE 1

WEIGHTED MEAN SALINITY (PPT) BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1987, (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	CW	REGIONS									
							PK	HP	KG	SG	CS	AL				
13APR87	4.8	0.5	.	.	.	.	.	.	.	.	.	.	.	.	.	.
20APR87	.	.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27APR87	10.3	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
04MAY87	5.8	3.3	0.8	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0
11MAY87	10.2	6.5	5.3	4.1	1.8	0.9	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18MAY87	9.5	6.2	4.8	3.2	1.4	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25MAY87	11.1	7.2	3.4	1.8	0.9	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
01JUN87	8.8	6.3	4.8	3.3	1.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
08JUN87	12.9	7.0	6.1	4.2	2.9	1.6	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15JUN87	8.9	7.2	5.4	4.0	1.9	1.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
22JUN87	13.0	7.7	4.8	4.0	1.7	0.7	0.2	0.2	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
29JUN87	10.2	8.6	4.8	3.5	1.7	0.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06JUL87	14.2	7.8	5.5	3.5	1.2	0.3	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1
13JUL87	11.8	7.1	4.7	2.2	0.7	0.4	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1
27JUL87	11.8	7.7	5.0	4.2	2.4	1.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10AUG87	11.7	7.2	5.3	4.6	2.3	1.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24AUG87	13.5	8.2	5.7	4.7	2.7	1.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
07SEP87	9.8	6.8	5.1	3.1	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21SEP87	7.2	4.8	2.9	1.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
05OCT87	8.0	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19OCT87	11.7	6.7	5.0	3.1	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
02NOV87	2.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX TABLE 1

MEAN SALINITY (PPT) WEIGHTED BY REGION  
 HUDSON RIVER ESTUARY, 1987, (ASSOCIATED WITH THE  
 BEACH SEINE SURVEY)

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS										
						CW	PK	HP	KG	SG	CS	AL				
22JUN87	11.4	7.3	5.5	3.8	1.0	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
06JUL87	6.8	4.5	4.0	3.1	.	.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20JUL87	8.0	5.1	3.3	3.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
03AUG87	8.9	6.8	4.9	4.4	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17AUG87	8.3	6.7	4.6	3.8	1.7	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31AUG87	10.2	6.9	4.8	3.4	1.2	2.8	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0
14SEP87	5.3	3.9	2.0	1.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28SEP87	4.1	2.8	1.3	0.4	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12OCT87	1.6	0.4	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26OCT87	8.3	3.9	3.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09NOV87	2.0	0.9	0.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX TABLE 1

PERCENT SATURATION BY REGION AND WEEK  
HUDSON RIVER ESTUARY, 1987, (ASSOCIATED WITH THE  
LONG RIVER ICTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS												
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	
13APR87	95.9	95.7	.	.	.	.	.	.	93.8	90.6	93.5	101	
20APR87	.	.	100	98.9	98.5	98.0	92.4	85.6	88.0	84.0	98.6	102	
27APR87	84.2	79.6	88.2	91.7	87.3	90.6	85.0	101	92.0	91.4	93.9	84.9	
04MAY87	85.2	86.4	86.2	86.4	85.3	86.2	89.7	92.9	91.5	92.3	89.7	88.4	
11MAY87	95.4	94.2	92.2	89.9	90.7	94.2	93.8	113	119	105	100	81.4	
18MAY87	84.0	92.9	91.8	91.7	92.3	90.4	87.1	.	103	105	101	82.1	
25MAY87	74.6	87.2	95.2	90.6	89.5	99.1	99.2	101	99.7	97.8	101	71.4	
01JUN87	127	118	91.7	90.1	88.8	99.5	102	90.8	91.0	92.1	100	77.5	
08JUN87	90.3	101	94.7	85.2	87.8	89.4	82.6	76.5	86.2	92.8	89.0	80.8	
15JUN87	79.4	91.8	92.8	89.9	81.4	84.5	82.4	88.7	95.9	90.4	91.0	86.0	
22JUN87	63.0	79.4	89.7	83.7	79.1	83.5	78.2	78.5	81.6	87.9	91.6	75.3	
29JUN87	84.3	82.1	91.1	79.5	80.1	82.8	73.2	73.3	77.6	81.9	82.7	78.0	
06JUL87	74.1	79.6	79.9	79.2	101	113	102	95.3	99.4	99.8	102	98.7	
13JUL87	61.0	85.0	91.0	78.4	99.7	110	105	105	107	115	124	110	
27JUL87	101	103	91.6	89.6	110	118	107	110	115	115	120	101	
10AUG87	65.2	85.3	86.9	81.8	96.2	95.6	73.3	63.0	76.7	80.0	86.0	73.8	
24AUG87	63.4	83.3	88.6	83.6	73.2	77.2	73.9	78.3	94.6	102	92.4	79.7	
07SEP87	72.2	86.5	84.7	78.6	81.4	80.1	70.8	64.9	84.2	86.4	88.9	88.0	
21SEP87	71.6	74.8	74.0	74.0	77.5	84.8	81.9	83.9	86.1	90.3	95.5	100	
05OCT87	93.1	104	96.9	94.0	93.5	94.0	89.8	94.5	99.5	100	97.3	107	
19OCT87	96.1	101	103	82.2	83.9	87.5	89.7	93.8	99.0	99.7	99.8	101	
02NOV87	91.3	93.5	100	102	103	98.4	86.5	86.0	87.6	91.7	92.7	98.1	

APPENDIX TABLE 1

PERCENT SATURATION BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1987, (ASSOCIATED WITH THE  
 BEACH SEINE SURVEY)

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
22JUN87	96.8	114	143	124	94.2	88.4	94.6	93.8	105	107	100	73.8
06JUL87	120	118	95.6	82.9	.	.	86.5	86.1	88.5	94.1	104	86.2
20JUL87	146	132	103	106	83.0	106	91.9	99.8	106	104	105	91.3
03AUG87	112	133	107	87.4	88.9	96.3	96.2	114	112	115	108	90.6
17AUG87	116	137	144	126	96.5	109	97.9	135	128	126	121	111
31AUG87	82.4	108	113	87.2	79.6	110	79.1	87.4	112	99.0	98.5	82.4
14SEP87	102	105	94.3	91.5	72.5	105	94.3	103	107	95.8	98.1	106
28SEP87	61.9	96.0	95.7	85.9	103	114	94.6	88.8	94.8	97.3	112	117
12OCT87	98.6	99.6	106	99.8	96.0	97.0	98.4	102	102	104	106	105
26OCT87	87.6	94.2	92.8	90.5	91.4	96.7	98.1	95.3	97.5	104	101	103
09NOV87	96.9	101	102	102	100	101	102	102	103	102	104	107

APPENDIX TABLE 1

WEIGHTED MEAN CONDUCTIVITY (mS/CM) BY REGION AND WEEK  
HUDSON RIVER ESTUARY, 1987, (ASSOCIATED WITH THE  
LONG RIVER ICTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	CW	REGIONS							
							PK	HP	KG	SG	CS	AL		
13APR87	5.9	0.7	.	.	.	.	.	0.1	0.1	0.2	0.1	0.1	0.1	0.1
20APR87	.	.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
27APR87	12.9	6.7	1.5	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
04MAY87	7.4	4.3	1.2	1.4	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
11MAY87	13.2	8.7	7.3	5.8	2.7	1.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2
18MAY87	13.3	9.1	7.2	4.9	2.2	0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
25MAY87	15.6	10.7	5.4	2.8	1.5	0.6	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3
01JUN87	13.5	9.8	7.7	5.5	2.2	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
08JUN87	18.9	11.1	9.8	6.9	4.9	2.7	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15JUN87	14.3	11.9	9.2	6.9	3.4	2.0	0.5	0.2	0.2	0.3	0.3	0.3	0.3	0.3
22JUN87	20.1	12.9	8.5	7.1	3.1	1.3	0.4	0.2	0.2	0.3	0.3	0.3	0.3	0.3
29JUN87	16.8	14.2	8.5	6.3	3.2	1.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
06JUL87	22.5	13.1	9.7	6.3	2.4	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
13JUL87	19.9	12.7	8.7	4.2	1.4	0.9	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
27JUL87	20.3	13.9	9.5	8.0	4.7	2.1	0.5	0.3	0.3	0.2	0.2	0.2	0.2	0.2
10AUG87	19.7	12.6	9.8	8.4	4.4	2.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
24AUG87	22.0	14.0	10.2	8.5	5.1	2.6	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2
07SEP87	15.7	11.4	8.8	5.7	2.3	0.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
21SEP87	11.7	8.1	5.0	3.3	2.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
05OCT87	11.7	2.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
19OCT87	15.8	9.4	7.2	4.5	2.2	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
02NOV87	3.6	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

APPENDIX TABLE 1

MEAN CONDUCTIVITY (MS/CM) WEIGHTED BY REGION  
 HUDSON RIVER ESTUARY, 1987, (ASSOCIATED WITH THE  
 BEACH SEINE SURVEY)

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS							
						CW	PK	HP	KG	SG	CS	AL	
22JUN87	18.5	12.7	10.0	7.1	1.9	1.2	0.4	0.3	0.3	0.3	0.3	0.3	0.3
06JUL87	12.0	8.4	7.4	5.8	.	.	0.3	0.2	0.3	0.2	0.2	0.2	0.2
20JUL87	15.1	10.0	6.5	5.9	0.8	0.5	0.3	0.2	0.2	0.2	0.2	0.3	0.3
03AUG87	16.3	12.7	9.2	8.4	3.1	1.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
17AUG87	15.0	12.4	8.8	7.5	3.5	1.4	0.4	0.3	0.3	0.2	0.3	0.3	0.2
31AUG87	16.7	11.7	8.6	6.0	2.4	4.8	0.4	0.2	0.3	0.3	0.2	0.2	0.2
14SEP87	9.2	6.7	3.7	2.8	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
28SEP87	6.8	4.7	2.4	0.9	1.7	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2
12OCT87	2.5	0.8	0.7	0.6	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
26OCT87	11.2	5.5	4.4	3.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
09NOV87	2.6	1.2	0.8	1.0	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1

WEEKLY MEANS BY REGIONAL GROUPS  
BEACH SEINE '80

10:16 Friday, July 22, 1988 18

OBS	REGN	WEEK	WEEK_TYPE	FREQ	DO	TEMP	COND	SAL	PSAT	WTDO	WTTP	WTCD	WTSL	WTPS
1	LOWER ESTUARY	22JUN87	0	3	8.9654	24.5808	14.1229	8.29061	113.900	1.00000	1.00000	1.00000	1.00000	1.00000
2	LOWER ESTUARY	06JUL87	0	3	9.0525	25.4845	9.4010	5.20204	114.239	1.00000	1.00000	1.00000	1.00000	1.00000
3	LOWER ESTUARY	20JUL87	0	3	9.6875	28.8888	10.9886	5.72005	130.492	1.00000	1.00000	1.00000	1.00000	1.00000
4	LOWER ESTUARY	03AUG87	0	3	9.0643	28.0617	13.2246	7.10746	121.114	1.00000	1.00000	1.00000	1.00000	1.00000
5	LOWER ESTUARY	17AUG87	0	3	9.9551	27.3120	12.5567	6.83695	131.401	1.00000	1.00000	1.00000	1.00000	1.00000
6	LOWER ESTUARY	31AUG87	0	3	8.1556	23.3224	12.7615	7.60850	100.305	1.00000	1.00000	1.00000	1.00000	1.00000
7	LOWER ESTUARY	14SEP87	0	3	8.4666	23.2564	6.9206	4.00905	101.811	1.00000	1.00000	1.00000	1.00000	1.00000
8	LOWER ESTUARY	28SEP87	0	3	10.1711	14.5968	4.9225	2.94356	84.563	1.00000	1.00000	1.00000	1.00000	1.00000
9	LOWER ESTUARY	12OCT87	0	3	10.2612	13.3547	7.1680	5.19696	91.738	1.00000	1.00000	1.00000	1.00000	1.00000
10	LOWER ESTUARY	26OCT87	0	3	11.5029	8.9080	1.6094	1.17521	100.068	1.00000	1.00000	1.00000	1.00000	1.00000
11	LOWER ESTUARY	09NOV87	0	3	8.3234	24.3529	2.5590	1.31416	100.563	1.00000	1.00000	1.00000	1.00000	1.00000
12	MIDDLE ESTUARY	22JUN87	0	4	7.1240	24.2396	2.5467	1.31443	85.055	1.00000	1.00000	0.59325	0.59325	0.59325
13	MIDDLE ESTUARY	06JUL87	0	4	7.5166	27.3371	1.8091	0.83656	95.404	1.00000	1.00000	1.00000	1.00000	1.00000
14	MIDDLE ESTUARY	20JUL87	0	4	7.2990	26.9586	3.1131	1.56084	92.278	1.00000	1.00000	1.00000	1.00000	1.00000
15	MIDDLE ESTUARY	03AUG87	0	4	8.2521	27.8812	3.0349	1.48121	108.308	1.00000	1.00000	1.00000	1.00000	1.00000
16	MIDDLE ESTUARY	17AUG87	0	4	7.3226	22.9729	2.9339	1.61621	86.232	1.00000	1.00000	1.00000	1.00000	1.00000
17	MIDDLE ESTUARY	31AUG87	0	4	7.7239	22.8940	0.8728	0.39697	90.106	1.00000	1.00000	1.00000	1.00000	1.00000
18	MIDDLE ESTUARY	14SEP87	0	4	9.0194	19.1399	0.7828	0.36635	97.548	1.00000	1.00000	1.00000	1.00000	1.00000
19	MIDDLE ESTUARY	28SEP87	0	4	10.2951	13.1169	0.2586	0.06833	97.946	1.00000	1.00000	1.00000	1.00000	1.00000
20	MIDDLE ESTUARY	12OCT87	0	4	10.2434	11.6304	0.8882	0.51946	94.407	1.00000	1.00000	1.00000	1.00000	1.00000
21	MIDDLE ESTUARY	26OCT87	0	4	12.1615	7.3898	0.3703	0.18599	101.204	1.00000	1.00000	1.00000	1.00000	1.00000
22	MIDDLE ESTUARY	09NOV87	0	4	8.0789	25.4649	0.2665	0.06209	98.671	1.00000	1.00000	1.00000	1.00000	1.00000
23	UPPER ESTUARY	22JUN87	0	5	7.9476	22.9845	0.2443	0.00763	92.531	1.00000	1.00000	1.00000	1.00000	1.00000
24	UPPER ESTUARY	06JUL87	0	5	8.2005	26.7320	0.2463	0.00935	102.306	1.00000	1.00000	1.00000	1.00000	1.00000
25	UPPER ESTUARY	20JUL87	0	5	8.8692	26.5061	0.2377	0.00000	110.212	1.00000	1.00000	1.00000	1.00000	1.00000
26	UPPER ESTUARY	03AUG87	0	5	9.8887	27.8522	0.2332	0.00000	126.042	1.00000	1.00000	1.00000	1.00000	1.00000
27	UPPER ESTUARY	17AUG87	0	5	8.3617	22.7785	0.2467	0.04309	97.172	1.00000	1.00000	1.00000	1.00000	1.00000
28	UPPER ESTUARY	31AUG87	0	5	8.9483	21.4086	0.2028	0.00000	101.188	1.00000	1.00000	1.00000	1.00000	1.00000
29	UPPER ESTUARY	14SEP87	0	5	9.5926	17.4074	0.1873	0.00670	100.158	1.00000	1.00000	1.00000	1.00000	1.00000
30	UPPER ESTUARY	28SEP87	0	5	11.3847	11.1713	0.1401	0.00000	103.655	1.00000	1.00000	1.00000	1.00000	1.00000
31	UPPER ESTUARY	12OCT87	0	5	10.9671	11.2285	0.1542	0.00548	99.993	1.00000	1.00000	1.00000	1.00000	1.00000
32	UPPER ESTUARY	26OCT87	0	5	12.9231	5.8194	0.1324	0.01065	103.342	1.00000	1.00000	1.00000	1.00000	1.00000
33	UPPER ESTUARY	09NOV87	0	5										

APPENDIX C

POUGKEEPSIE WATER WORKS DAILY TEMPERATURE (1951-1987)



POUGHKEEPSIE WATER WORKS DAILY TEMPERATURE

Month	Day	Mean	SD	Mode	-10th		90th		Maximum
					Minimum Percentile	Median Percentile	Median Percentile	Maximum	
JAN	1	1.5	0.9	0.6	0.6	0.6	1.1	2.8	4.4
	2	1.5	1.0	1.1	0.0	0.6	1.1	2.8	4.4
	3	1.6	0.9	1.1	0.6	0.6	1.1	2.8	4.4
	4	1.5	0.8	1.1	0.6	0.6	1.1	2.8	3.3
	5	1.4	0.8	1.1	0.0	0.6	1.1	2.2	3.3
	6	1.2	0.7	1.1	0.0	0.6	1.1	2.2	3.3
	7	1.3	0.8	1.1	0.0	0.6	1.1	2.2	3.3
	8	1.2	0.7	1.1	0.0	0.6	1.1	2.2	3.3
	9	1.2	0.7	0.6	0.0	0.6	1.1	2.2	3.3
	10	1.2	0.6	0.6	0.0	0.6	1.1	2.2	2.8
	11	1.2	0.7	0.6	0.0	0.6	1.1	2.2	2.8
	12	1.1	0.6	0.6	0.6	0.6	1.1	1.7	2.8
	13	1.1	0.6	0.6	0.0	0.6	1.1	1.7	2.8
	14	1.1	0.7	0.6	0.0	0.6	1.1	2.2	2.8
	15	1.1	0.7	1.1	0.0	0.6	1.1	1.7	2.8
	16	1.1	0.6	0.6	0.6	0.6	1.1	1.7	2.8
	17	1.1	0.6	0.6	0.6	0.6	1.1	2.2	2.8
	18	1.1	0.7	0.6	0.6	0.6	1.1	2.2	3.3
	19	1.0	0.6	0.6	0.6	0.6	1.1	1.7	2.8
	20	1.0	0.6	0.6	0.6	0.6	1.1	2.2	2.2
	21	1.0	0.5	0.6	0.0	0.6	1.1	1.7	2.2
	22	1.0	0.5	0.6	0.6	0.6	1.1	1.7	2.2
	23	1.0	0.5	0.6	0.6	0.6	1.1	1.7	2.2
	24	0.9	0.5	0.6	0.0	0.6	0.6	1.7	2.2
	25	0.9	0.5	0.6	0.0	0.6	0.6	1.7	2.2
	26	0.9	0.5	0.6	0.0	0.6	1.1	1.7	2.2
	27	0.9	0.4	1.1	0.0	0.6	1.1	1.7	2.2
	28	1.0	0.4	1.1	0.6	0.6	1.1	1.7	2.2
	29	1.0	0.4	1.1	0.6	0.6	1.1	1.7	2.2
	30	1.0	0.4	1.1	0.6	0.6	1.1	1.7	2.2
	31	0.9	0.4	1.1	0.6	0.6	1.1	1.7	2.2
FEB	1	1.0	0.5	0.6	0.6	0.6	1.1	1.7	2.2
	2	1.0	0.4	1.1	0.6	0.6	1.1	1.7	2.2
	3	0.9	0.4	0.6	0.6	0.6	1.1	1.7	2.2
	4	0.9	0.4	0.6	0.6	0.6	1.1	1.7	1.7
	5	0.9	0.4	0.6	0.6	0.6	1.1	1.1	1.7
	6	1.0	0.4	0.6	0.6	0.6	1.1	1.7	1.7
	7	1.0	0.5	0.6	0.6	0.6	1.1	1.7	2.2
	8	1.0	0.4	0.6	0.6	0.6	1.1	1.7	2.2
	9	0.9	0.4	0.6	0.6	0.6	1.1	1.7	2.2
	10	1.0	0.5	1.1	0.6	0.6	1.1	1.7	3.3
	11	1.0	0.5	0.6	0.0	0.6	1.1	1.7	2.2
	12	1.0	0.4	1.1	0.6	0.6	1.1	1.1	2.2

POUGHKEEPSIE WATER WORKS DAILY TEMPERATURE

Month	Day	Mean	SD	Mode	10th		90th		Maximum
					Minimum	Percentile	Median	Percentile	
	13	1.1	0.5	1.1	0.6	0.6	1.1	1.7	2.2
	14	1.1	0.6	1.1	0.6	0.6	1.1	2.2	2.8
	15	1.0	0.5	1.1	0.6	0.6	1.1	1.7	2.8
	16	1.0	0.6	1.1	0.0	0.6	1.1	2.2	2.8
	17	1.1	0.6	1.1	0.6	0.6	1.1	2.2	2.8
	18	1.1	0.6	1.1	0.0	0.6	1.1	1.7	2.8
	19	1.2	0.6	1.1	0.6	0.6	1.1	2.2	2.8
	20	1.1	0.6	1.1	0.6	0.6	1.1	2.2	2.8
	21	1.2	0.6	1.1	0.6	0.6	1.1	2.2	2.8
	22	1.2	0.8	1.1	0.0	0.6	1.1	2.2	3.9
	23	1.3	0.7	0.6	0.0	0.6	1.1	2.2	2.8
	24	1.3	0.8	1.1	0.0	0.6	1.1	2.2	3.9
	25	1.2	0.6	1.1	0.6	0.6	1.1	2.2	2.8
	26	1.4	0.8	1.1	0.0	0.6	1.1	2.2	3.3
	27	1.6	1.0	1.1	0.0	0.6	1.1	2.8	4.4
	28	1.6	1.1	1.1	0.0	0.6	1.1	2.8	5.0
	29	2.1	1.3	1.1	0.6	0.6	1.9	4.4	4.4
MAR	1	1.6	1.1	1.1	0.6	0.6	1.1	3.3	4.4
	2	1.6	1.1	0.6	0.6	0.6	1.1	3.3	4.4
	3	1.4	0.9	1.1	0.6	0.6	1.1	2.8	3.9
	4	1.5	0.9	0.6	0.6	0.6	1.1	2.8	3.3
	5	1.6	0.9	1.1	0.6	0.6	1.1	2.8	3.3
	6	1.6	0.9	1.1	0.6	0.6	1.1	2.8	3.3
	7	1.7	1.0	1.1	0.6	0.6	1.1	2.8	3.3
	8	1.7	1.0	1.1	0.0	0.6	1.1	3.3	3.3
	9	1.8	1.1	1.1	0.6	0.6	1.7	3.3	4.4
	10	1.8	1.0	1.1	0.6	0.6	1.7	3.3	3.9
	11	1.9	1.0	2.8	0.6	0.6	1.7	2.8	4.4
	12	2.0	1.1	1.1	0.6	0.6	1.7	3.3	4.4
	13	2.0	1.0	1.1	0.6	0.6	1.7	3.3	4.4
	14	2.2	1.2	1.1	0.6	1.1	1.9	3.9	4.4
	15	2.2	1.2	1.1	0.6	1.1	2.2	3.9	5.0
	16	2.3	1.2	2.2	0.6	1.1	2.2	3.9	5.0
	17	2.4	1.2	1.1	0.6	1.1	2.2	4.4	5.0
	18	2.5	1.3	1.1	0.6	1.1	2.2	4.4	5.0
	19	2.4	1.2	1.1	0.6	1.1	2.2	3.9	5.6
	20	2.6	1.1	3.3	0.6	1.1	2.5	3.9	5.6
	21	2.8	1.2	3.3	0.6	1.1	2.8	4.4	5.6
	22	2.9	1.2	3.3	0.6	1.1	2.8	4.4	5.6
	23	3.1	1.2	3.3	0.6	1.7	3.3	5.0	6.1
	24	3.3	1.3	3.3	0.6	1.7	3.3	5.6	6.1
	25	3.5	1.3	4.4	0.6	1.7	3.6	5.0	5.6
	26	3.6	1.2	3.3	0.6	2.2	3.6	5.0	6.1

POUGHKEEPSIE WATER WORKS DAILY TEMPERATURE

Month	Day	Mean	SD	Mode	10th		90th		Maximum
					Minimum	Percentile	Median	Percentile	
	27	3.9	1.3	3.9	1.1	2.2	3.9	5.6	6.7
	28	4.1	1.3	3.3	1.1	2.2	3.9	6.1	6.7
	29	4.3	1.4	4.4	1.1	2.2	4.4	6.7	6.7
	30	4.5	1.5	4.4	1.1	2.8	4.4	6.7	7.8
	31	4.8	1.6	3.3	1.1	3.3	4.4	6.7	8.3
APR	1	5.1	1.7	4.4	1.7	3.3	4.4	6.7	9.4
	2	5.2	1.6	4.4	2.2	3.3	4.4	7.2	8.3
	3	5.4	1.6	4.4	2.8	3.3	5.0	7.2	8.9
	4	5.6	1.4	5.0	2.8	3.9	5.3	7.2	8.9
	5	5.7	1.2	5.6	2.8	4.4	5.6	7.2	7.8
	6	5.9	1.2	5.6	3.3	4.4	5.6	7.2	8.3
	7	6.1	1.4	5.6	2.8	4.4	6.1	7.8	9.4
	8	6.3	1.5	7.2	2.8	4.4	6.1	7.8	9.4
	9	6.2	1.5	5.6	2.8	4.4	6.1	8.3	8.9
	10	6.3	1.6	5.6	2.8	4.4	6.1	8.3	9.4
	11	6.6	1.5	6.7	2.8	4.4	6.7	8.9	9.4
	12	6.7	1.5	5.6	2.8	5.0	6.7	8.9	10.0
	13	6.9	1.6	6.1	2.8	5.6	6.7	8.9	10.6
	14	7.1	1.6	7.2	2.8	5.6	7.2	8.9	11.1
	15	7.4	1.7	7.2	2.8	5.6	7.2	9.4	11.1
	16	7.5	1.6	7.2	3.3	6.1	7.2	10.0	11.1
	17	7.7	1.6	7.2	3.9	6.1	7.5	10.0	11.7
	18	8.0	1.4	7.8	5.6	6.7	7.8	10.0	11.7
	19	8.2	1.4	7.8	5.6	6.7	8.3	10.0	12.2
	20	8.5	1.4	8.9	6.1	6.7	8.3	10.6	12.2
	21	8.9	1.5	7.8	6.1	6.7	8.9	11.1	12.2
	22	9.2	1.7	10.0	6.7	6.7	8.9	11.7	12.8
	23	9.4	1.6	9.4	6.7	7.2	9.4	11.7	12.8
	24	9.6	1.6	9.4	6.7	7.8	9.4	12.2	13.3
	25	9.6	1.6	8.9	6.7	7.8	9.4	11.1	13.3
	26	9.9	1.5	9.4	6.7	7.8	9.4	12.2	13.3
	27	10.0	1.5	9.4	7.2	8.3	10.0	12.2	13.3
	28	10.3	1.4	9.4	7.8	8.9	10.0	12.2	13.3
	29	10.5	1.3	9.4	8.3	8.9	10.0	12.2	13.9
	30	10.8	1.3	10.0	8.9	9.4	10.6	12.2	13.9
MAY	1	11.1	1.4	10.0	8.9	9.4	11.1	12.8	14.4
	2	11.3	1.4	12.2	8.9	9.4	11.1	13.3	14.4
	3	11.5	1.3	12.2	8.9	10.0	11.7	12.8	14.4
	4	11.7	1.4	12.2	8.9	10.0	12.2	13.3	15.0
	5	11.9	1.4	12.2	8.9	10.0	12.2	13.3	15.0
	6	12.1	1.5	12.8	8.9	10.0	12.8	13.3	15.0
	7	12.3	1.5	13.3	8.9	10.6	12.5	14.4	15.0

POUGHKEEPSIE WATER WORKS DAILY TEMPERATURE

Month	Day	Mean	SD	Mode	10th		90th		Maximum
					Minimum	Percentile	Median	Percentile	
	8	12.4	1.5	13.3	8.9	10.6	12.8	13.9	15.0
	9	12.5	1.6	12.8	8.9	10.6	12.8	14.4	15.6
	10	12.7	1.6	12.8	8.9	10.6	12.8	14.4	16.1
	11	12.8	1.7	12.8	9.4	10.6	12.8	15.0	16.1
	12	12.9	1.6	12.8	9.4	11.1	12.8	15.0	16.1
	13	13.2	1.6	12.2	10.0	11.1	13.1	15.6	16.1
	14	13.4	1.5	12.2	10.6	11.1	13.3	15.6	16.7
	15	13.7	1.5	12.2	11.1	11.7	13.3	15.6	16.7
	16	14.0	1.4	12.8	11.1	12.2	13.9	16.1	16.7
	17	14.1	1.4	13.9	11.7	12.2	13.9	16.1	16.7
	18	14.3	1.3	15.0	12.2	12.8	14.4	16.1	16.7
	19	14.7	1.4	15.6	12.2	12.8	15.0	16.1	17.2
	20	15.0	1.4	13.3	12.2	13.3	15.0	16.7	17.8
	21	15.2	1.4	16.1	12.8	13.3	15.6	17.2	17.8
	22	15.5	1.5	16.7	12.8	13.3	15.6	17.2	18.3
	23	15.6	1.5	14.4	12.8	13.9	15.8	17.8	18.3
	24	15.8	1.6	16.7	12.8	13.3	15.6	17.8	18.3
	25	15.9	1.6	16.7	12.8	13.9	15.8	17.8	18.9
	26	16.2	1.6	17.2	12.2	13.9	16.4	17.8	18.9
	27	16.5	1.8	17.8	12.2	14.4	17.2	18.3	20.6
	28	16.8	1.9	17.8	12.2	14.4	17.2	18.9	20.6
	29	17.0	1.8	18.9	12.8	14.4	17.2	18.9	20.6
	30	17.0	1.9	15.0	12.8	15.0	17.2	18.9	20.6
	31	17.1	1.8	15.0	13.3	15.0	17.2	19.4	20.0
JUN	1	17.4	1.8	18.3	13.3	15.0	17.8	19.4	20.0
	2	17.8	1.9	17.8	13.3	15.6	17.8	20.0	22.2
	3	18.0	1.8	20.0	14.4	16.1	18.1	20.0	21.7
	4	18.2	1.9	16.7	13.9	15.6	18.3	20.0	22.2
	5	18.4	1.7	19.4	15.0	16.1	18.9	20.0	22.2
	6	18.5	1.6	20.0	15.6	16.7	18.9	20.0	21.7
	7	18.5	1.5	19.4	15.0	16.7	18.9	20.0	21.1
	8	18.8	1.3	20.6	16.1	17.2	18.9	20.6	20.6
	9	19.2	1.3	20.0	16.7	17.2	19.4	20.6	21.1
	10	19.4	1.2	20.0	17.2	17.8	19.7	21.1	21.7
	11	19.6	1.2	20.0	17.2	17.8	20.0	21.1	21.7
	12	19.8	1.2	18.9	17.2	18.3	20.0	21.1	22.2
	13	19.9	1.1	20.6	17.8	18.3	20.0	21.1	22.2
	14	20.0	1.1	20.6	17.8	18.3	20.0	21.1	21.7
	15	20.1	1.0	20.0	17.8	18.9	20.0	21.1	22.2
	16	20.3	1.0	20.0	17.8	18.9	20.0	21.7	22.2
	17	20.4	1.0	20.6	17.8	19.4	20.6	21.7	22.2
	18	20.6	1.0	21.1	17.8	19.4	20.6	22.2	22.2
	19	20.8	1.0	21.1	17.8	19.4	21.1	22.2	23.3

POUGHKEEPSIE WATER WORKS DAILY TEMPERATURE

Month	Day	Mean	SD	Mode	10th		90th		Maximum
					Minimum Percentile	Median Percentile	Median Percentile	Maximum	
	20	20.9	1.0	21.1	17.8	20.0	21.1	22.2	23.3
	21	21.1	1.0	21.1	17.8	20.0	21.1	22.2	22.8
	22	21.3	1.2	21.1	17.2	20.0	21.1	22.8	23.3
	23	21.4	1.2	21.1	17.2	20.0	21.1	22.8	23.3
	24	21.6	1.1	21.1	17.8	20.0	21.7	23.3	23.3
	25	21.6	1.1	21.1	17.8	20.6	21.7	22.8	23.9
	26	21.8	1.3	21.1	17.8	20.6	21.7	23.3	24.4
	27	21.9	1.3	21.7	17.8	21.1	21.7	23.3	24.4
	28	22.0	1.4	21.7	17.8	21.1	22.2	23.3	24.4
	29	22.2	1.3	21.7	17.8	21.1	22.2	23.3	25.0
	30	22.3	1.4	22.2	17.8	21.1	22.2	23.9	25.0
JUL	1	22.4	1.3	22.8	18.9	21.1	22.5	23.9	25.0
	2	22.6	1.2	22.2	18.9	21.1	22.2	23.9	25.0
	3	22.7	1.2	22.2	19.4	21.1	22.8	23.9	25.0
	4	22.8	1.3	23.3	19.4	21.1	22.8	23.9	25.0
	5	23.0	1.3	22.8	20.0	21.7	22.8	24.4	25.6
	6	23.1	1.2	22.8	20.0	21.7	22.8	24.4	25.6
	7	23.1	1.2	22.2	20.0	21.7	23.3	24.4	25.6
	8	23.2	1.2	23.3	20.0	21.7	23.3	24.4	25.6
	9	23.3	1.2	23.3	20.0	21.7	23.3	24.4	25.6
	10	23.3	1.2	23.3	20.6	21.7	23.3	25.0	25.6
	11	23.4	1.1	23.9	20.6	22.2	23.3	24.4	25.6
	12	23.6	1.1	23.9	21.1	22.2	23.9	25.0	26.1
	13	23.8	1.1	23.9	21.7	22.2	23.9	25.0	26.7
	14	23.9	1.1	23.9	21.7	22.8	23.9	25.0	26.7
	15	24.1	1.1	23.9	21.7	22.8	23.9	25.6	26.7
	16	24.2	1.0	23.9	22.2	22.8	23.9	25.6	26.7
	17	24.2	1.0	24.4	22.2	22.8	24.4	25.6	26.1
	18	24.2	1.0	24.4	22.2	22.8	24.4	25.6	26.1
	19	24.5	1.0	24.4	22.2	23.3	24.4	25.6	26.1
	20	24.6	1.0	25.0	22.2	23.3	24.4	25.6	26.7
	21	24.6	0.9	23.9	22.8	23.3	24.4	25.6	26.1
	22	24.6	1.0	24.4	22.2	23.3	24.4	25.6	26.7
	23	24.7	0.9	25.0	22.2	23.9	25.0	25.6	26.7
	24	24.7	0.9	25.0	22.8	23.3	25.0	25.6	26.7
	25	24.7	0.9	25.0	22.8	23.3	25.0	25.6	26.1
	26	24.8	0.9	25.6	22.8	23.3	25.0	25.6	26.1
	27	25.0	1.0	25.6	22.8	23.9	25.6	26.1	27.2
	28	25.0	1.0	25.6	22.8	23.3	25.6	26.1	27.2
	29	25.1	1.0	25.6	22.8	23.3	25.6	26.1	26.7
	30	25.0	0.9	25.6	23.3	23.3	25.6	26.1	26.7
	31	25.1	0.9	25.6	23.3	23.3	25.6	26.1	26.7

POUGHKEEPSIE WATER WORKS DAILY TEMPERATURE

Month	Day	Mean	SD	Mode	10th		90th		Maximum
					Minimum Percentile	Median Percentile	Median Percentile	Maximum	
AUG	1	25.1	0.9	25.6	23.3	23.9	25.6	26.1	26.7
	2	25.1	0.9	25.6	22.8	23.9	25.6	26.1	26.7
	3	25.2	0.9	25.6	23.3	23.9	25.6	26.1	26.7
	4	25.2	1.0	25.6	23.3	23.9	25.6	26.7	26.7
	5	25.2	1.0	25.6	23.3	23.9	25.6	26.7	27.2
	6	25.2	1.0	25.6	23.3	23.9	25.6	26.7	27.2
	7	25.1	1.0	25.6	23.3	23.9	25.6	26.1	26.7
	8	25.1	1.0	25.6	23.3	23.3	25.6	26.1	27.2
	9	25.2	1.0	25.6	23.3	23.3	25.6	26.7	27.8
	10	25.2	1.1	25.6	23.3	23.9	25.6	26.7	27.8
	11	25.2	1.1	25.6	22.8	23.9	25.6	26.1	27.8
	12	25.1	1.0	25.6	22.8	23.9	25.3	26.1	27.8
	13	25.0	1.2	25.6	22.2	23.3	25.3	26.1	27.8
	14	24.9	1.2	25.6	22.2	22.8	25.0	26.1	27.8
	15	24.9	1.2	25.6	22.2	23.3	25.0	26.1	27.8
	16	24.8	1.1	24.4	22.2	23.3	25.0	26.1	27.8
	17	24.8	1.1	25.6	22.2	23.3	25.0	26.1	26.7
	18	24.7	1.0	25.6	22.8	23.3	25.0	25.6	26.7
	19	24.7	1.1	25.6	22.2	23.3	25.0	26.1	26.7
	20	24.8	1.1	25.6	22.8	23.3	25.0	26.1	26.7
	21	24.7	1.1	25.0	22.2	23.3	25.0	26.1	26.7
	22	24.6	1.1	25.6	22.2	22.8	25.0	25.6	26.7
	23	24.5	1.1	25.6	22.8	22.8	24.4	25.6	26.7
	24	24.5	1.1	25.6	22.2	22.8	24.4	25.6	26.7
	25	24.4	1.1	23.9	21.7	22.8	24.4	25.6	26.1
	26	24.4	1.0	25.0	21.7	22.8	24.4	25.6	26.1
	27	24.4	1.0	25.6	22.2	22.8	24.4	25.6	26.1
	28	24.3	1.0	25.6	22.2	22.8	24.4	25.6	25.6
	29	24.2	1.1	23.9	22.2	22.8	23.9	25.6	26.7
	30	24.3	1.1	24.4	22.2	22.8	24.4	25.6	26.1
	31	24.1	1.0	24.4	22.2	22.8	24.4	25.6	26.1
SEP	1	24.1	1.0	24.4	22.2	22.8	23.9	25.6	26.1
	2	24.0	1.0	24.4	22.2	22.8	23.9	25.6	26.7
	3	23.8	1.0	23.9	22.2	22.8	23.9	25.0	26.1
	4	23.8	1.0	24.4	22.2	22.8	23.9	25.0	25.6
	5	23.8	1.0	24.4	21.7	22.8	23.9	25.0	25.6
	6	23.8	1.0	24.4	22.2	22.2	23.9	25.0	25.6
	7	23.6	1.1	24.4	21.7	22.2	23.3	25.0	25.6
	8	23.5	1.1	24.4	21.7	22.2	23.3	25.0	25.6
	9	23.4	1.1	22.2	21.7	22.2	23.3	25.0	25.6
	10	23.3	1.2	22.8	21.1	21.7	23.1	24.4	25.6
	11	23.1	1.1	22.2	21.1	21.7	22.8	24.4	25.6
	12	23.1	1.1	23.3	21.1	21.7	22.8	25.0	25.6

POUGHKEEPSIE WATER WORKS DAILY TEMPERATURE

Month	Day	Mean	SD	Mode	10th		90th		Maximum
					Minimum	Percentile	Median	Percentile	
	13	22.8	1.3	23.3	20.0	21.1	22.8	23.9	25.6
	14	22.6	1.3	23.3	18.9	21.1	22.8	23.9	25.0
	15	22.4	1.3	22.2	17.8	21.1	22.2	23.9	25.0
	16	22.2	1.3	22.2	17.2	21.1	22.2	23.9	25.0
	17	22.1	1.3	22.2	17.2	20.6	22.2	23.3	25.0
	18	21.9	1.4	21.7	16.7	20.6	22.2	23.3	25.0
	19	21.8	1.3	21.7	16.7	20.6	22.2	23.3	23.9
	20	21.7	1.2	22.2	17.2	20.6	22.2	22.8	23.9
	21	21.3	1.3	21.1	16.7	19.4	21.7	22.8	22.8
	22	21.2	1.3	22.2	16.1	19.4	21.7	22.2	23.3
	23	20.9	1.3	21.1	16.1	19.4	21.1	22.2	22.8
	24	20.7	1.3	21.1	15.6	19.4	21.1	21.7	22.8
	25	20.5	1.3	21.1	15.6	19.4	20.6	21.7	22.2
	26	20.5	1.4	21.7	15.6	18.9	20.6	22.2	22.2
	27	20.3	1.4	20.6	16.1	18.3	20.6	21.7	22.2
	28	20.0	1.4	20.6	15.6	18.3	20.6	21.7	22.2
	29	19.8	1.4	20.6	15.6	18.3	20.6	21.1	22.2
	30	19.7	1.5	20.6	15.6	17.8	20.0	21.1	22.2
OCT	1	19.5	1.5	20.6	16.1	17.2	20.0	21.1	22.2
	2	19.3	1.6	20.6	15.6	16.7	19.4	21.1	22.2
	3	19.2	1.6	20.6	15.6	16.7	19.4	20.6	22.2
	4	19.0	1.6	20.0	15.6	16.1	18.9	20.6	21.7
	5	18.7	1.6	20.0	15.0	16.1	18.9	20.0	21.1
	6	18.6	1.6	17.8	15.0	16.1	18.9	20.0	21.1
	7	18.5	1.6	19.4	15.0	16.1	18.6	20.0	21.1
	8	18.1	1.7	18.9	14.4	15.6	18.6	20.0	21.1
	9	17.9	1.7	18.9	14.4	15.0	17.8	20.0	21.1
	10	17.8	1.6	18.9	14.4	15.6	17.8	19.4	21.1
	11	17.7	1.7	17.8	13.9	15.0	17.8	19.4	21.1
	12	17.4	1.9	17.8	13.3	14.4	17.8	19.4	21.1
	13	17.1	1.9	18.9	13.3	14.4	17.8	18.9	20.0
	14	16.9	2.0	17.8	12.8	14.4	17.2	18.9	21.1
	15	16.7	1.9	17.8	12.2	13.9	17.2	18.9	20.0
	16	16.5	1.9	16.7	12.2	13.9	16.7	18.9	20.0
	17	16.3	1.7	17.2	12.8	13.9	16.7	18.3	20.0
	18	16.2	1.7	16.7	12.2	13.9	16.7	17.8	20.0
	19	15.8	1.9	16.7	11.7	13.3	16.7	17.8	20.0
	20	15.6	2.0	15.6	10.6	12.8	15.6	17.8	19.4
	21	15.3	1.9	15.6	10.6	12.8	15.6	17.2	18.9
	22	15.1	2.0	17.2	10.0	12.2	15.6	17.2	18.9
	23	14.9	2.0	16.1	10.0	12.2	15.6	16.7	18.9
	24	14.8	2.0	15.6	10.0	12.2	15.6	16.7	18.3
	25	14.7	1.9	15.6	10.0	12.2	15.6	16.7	18.3

POUGHKEEPSIE WATER WORKS DAILY TEMPERATURE

Month	Day	Mean	SD	Mode	10th		90th		Maximum
					Minimum	Percentile	Median	Percentile	
	26	14.4	1.9	15.6	10.0	12.2	15.0	16.7	17.8
	27	14.0	1.9	14.4	9.4	11.7	14.4	16.1	17.8
	28	14.0	1.9	14.4	8.9	11.7	14.4	16.1	17.8
	29	13.7	1.9	13.9	8.3	11.1	13.9	16.1	17.8
	30	13.5	1.9	13.9	7.8	11.1	13.9	16.1	16.7
	31	13.3	1.9	13.3	7.2	11.1	13.3	15.6	16.7
NOV	1	13.2	2.0	13.3	7.2	10.6	13.3	15.6	16.7
	2	12.8	2.0	12.2	7.2	10.0	13.1	15.6	16.1
	3	12.7	2.0	11.1	7.2	10.0	12.8	15.0	16.1
	4	12.5	1.9	12.8	7.2	10.0	12.8	15.0	15.6
	5	12.3	2.0	12.2	7.2	10.0	12.2	15.0	15.6
	6	11.9	1.9	12.2	6.7	10.0	12.2	14.4	15.6
	7	11.8	2.0	12.2	6.1	8.9	12.2	14.4	15.0
	8	11.5	2.0	12.2	6.1	8.9	11.7	13.9	15.0
	9	11.2	2.1	12.2	5.6	8.9	11.7	13.9	15.0
	10	10.9	2.0	11.7	5.0	8.9	11.1	13.3	14.4
	11	10.5	2.1	8.9	5.0	8.9	10.8	13.3	13.9
	12	10.4	2.0	12.2	5.0	8.3	10.6	12.8	13.3
	13	10.2	2.0	8.9	5.0	7.8	10.6	12.8	13.3
	14	10.1	1.9	8.9	5.0	8.3	10.0	12.2	13.3
	15	10.0	1.8	8.9	5.0	7.8	10.0	11.7	12.8
	16	9.7	1.9	11.1	5.0	7.2	10.0	11.7	12.8
	17	9.5	1.8	11.1	5.0	7.2	9.4	11.7	12.8
	18	9.3	1.8	8.9	5.0	7.2	8.9	11.7	12.8
	19	9.0	1.8	8.9	5.0	7.2	8.9	11.1	12.2
	20	8.7	1.8	11.1	5.0	6.7	8.9	11.1	11.1
	21	8.5	1.9	7.8	3.9	6.1	8.9	11.1	11.1
	22	8.3	1.8	7.2	3.9	6.1	8.3	10.6	11.1
	23	8.2	1.8	8.9	3.9	6.1	8.3	10.0	11.1
	24	7.8	1.8	8.9	3.9	5.6	7.8	10.0	10.6
	25	7.5	1.8	6.7	3.9	5.0	7.8	10.0	10.6
	26	7.4	1.8	6.7	3.3	4.4	7.2	10.0	10.0
	27	7.1	1.9	6.7	3.3	4.4	6.7	9.4	10.0
	28	7.0	1.9	6.1	3.3	4.4	7.2	9.4	10.0
	29	6.9	1.9	6.7	3.3	3.9	6.7	9.4	10.0
	30	6.6	1.8	6.1	2.8	3.9	6.7	8.9	10.0
DEC	1	6.3	1.8	6.1	2.2	3.9	6.1	8.9	9.4
	2	6.1	1.6	5.6	3.3	3.9	6.1	8.3	8.9
	3	5.8	1.6	6.7	2.8	3.9	5.8	7.8	8.9
	4	5.6	1.5	6.7	2.8	3.9	5.6	7.2	8.3
	5	5.3	1.5	6.7	2.8	3.3	5.6	7.2	7.8
	6	5.3	1.5	5.6	2.8	2.8	5.6	7.2	7.8



POUGHKEEPSIE WATER WORKS DAILY TEMPERATURE

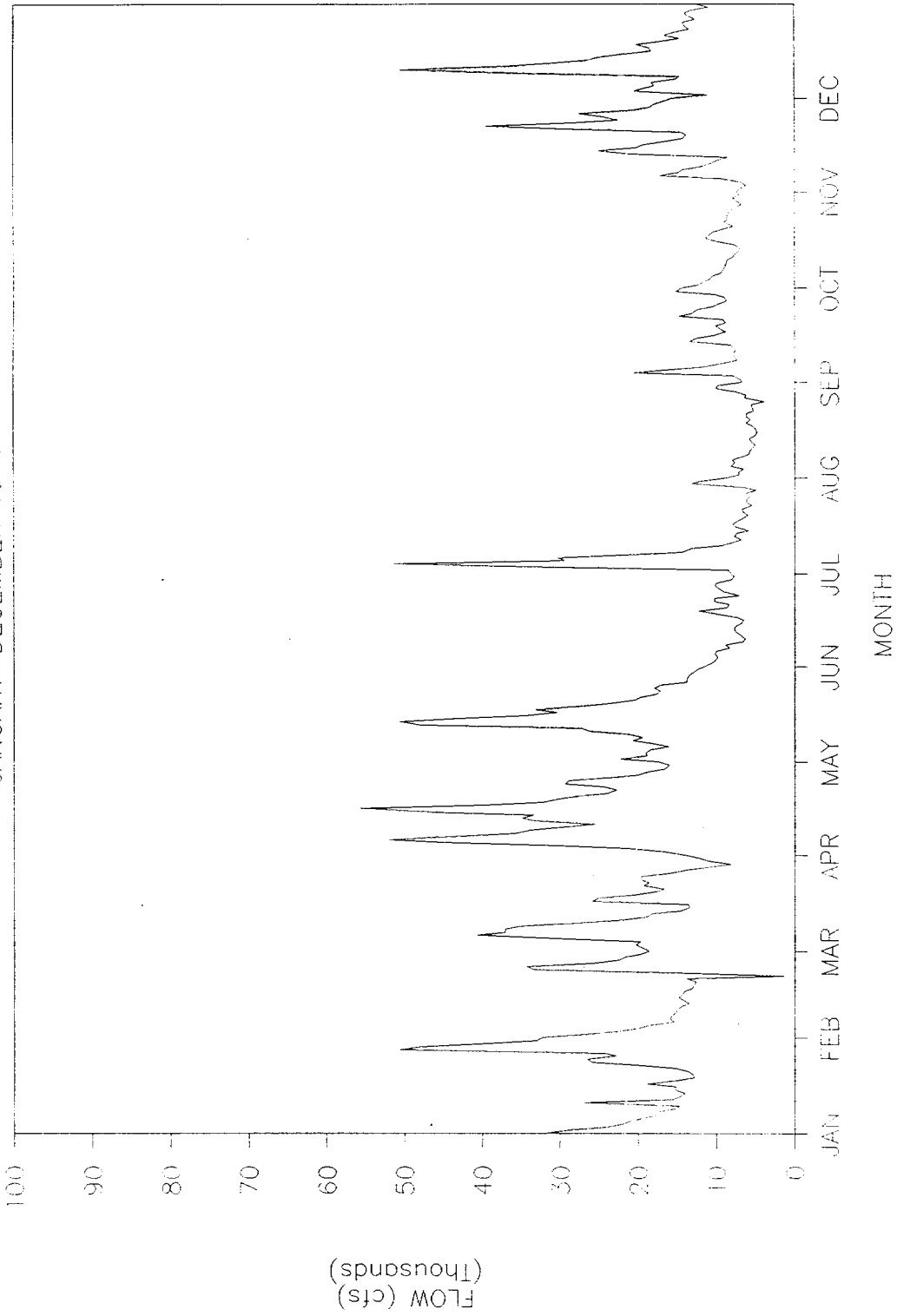
Month	Day	Mean	SD	Mode	10th		90th		Maximum
					Minimum	Percentile	Median	Percentile	
	7	5.2	1.5	6.7	2.8	2.8	5.0	7.2	7.8
	8	4.8	1.5	3.3	2.2	2.8	4.4	6.7	7.8
	9	4.6	1.4	3.3	1.7	2.8	4.4	6.1	7.2
	10	4.3	1.5	3.3	1.1	2.2	4.4	6.1	7.2
	11	4.0	1.4	3.9	1.1	2.2	3.9	5.6	6.7
	12	3.8	1.4	3.3	0.6	2.2	3.9	5.6	6.7
	13	3.8	1.4	3.3	0.6	2.2	3.3	5.6	6.7
	14	3.6	1.4	3.3	0.6	2.2	3.3	5.6	6.7
	15	3.4	1.4	3.3	0.6	1.7	3.3	5.0	6.7
	16	3.2	1.4	2.2	0.6	1.7	3.3	5.0	6.7
	17	3.1	1.3	2.2	0.6	1.1	3.1	5.0	5.6
	18	2.9	1.3	2.2	0.6	1.1	2.5	5.0	5.6
	19	2.7	1.3	1.1	0.6	1.1	2.8	4.4	5.0
	20	2.7	1.3	1.1	0.6	1.1	2.8	4.4	5.0
	21	2.4	1.2	3.3	0.6	0.6	2.2	3.9	4.4
	22	2.2	1.2	1.1	0.6	0.6	2.2	3.9	4.4
	23	2.1	1.2	1.1	0.6	0.6	1.7	3.9	5.0
	24	2.0	1.3	0.6	0.6	0.6	1.7	3.9	5.6
	25	2.0	1.3	0.6	0.6	0.6	1.7	3.3	5.6
	26	1.8	1.3	0.6	0.0	0.6	1.7	3.3	6.1
	27	1.8	1.3	0.6	0.0	0.6	1.7	3.3	6.1
	28	1.8	1.3	1.1	0.0	0.6	1.4	3.3	6.1
	29	1.7	1.2	1.1	0.0	0.6	1.4	3.3	6.1
	30	1.7	1.1	1.1	0.6	0.6	1.1	2.8	6.1
	31	1.7	1.1	1.1	0.0	0.6	1.4	2.8	5.0

APPENDIX D

HUDSON RIVER FLOW AT GREEN ISLAND, NEW YORK (1947-1987)

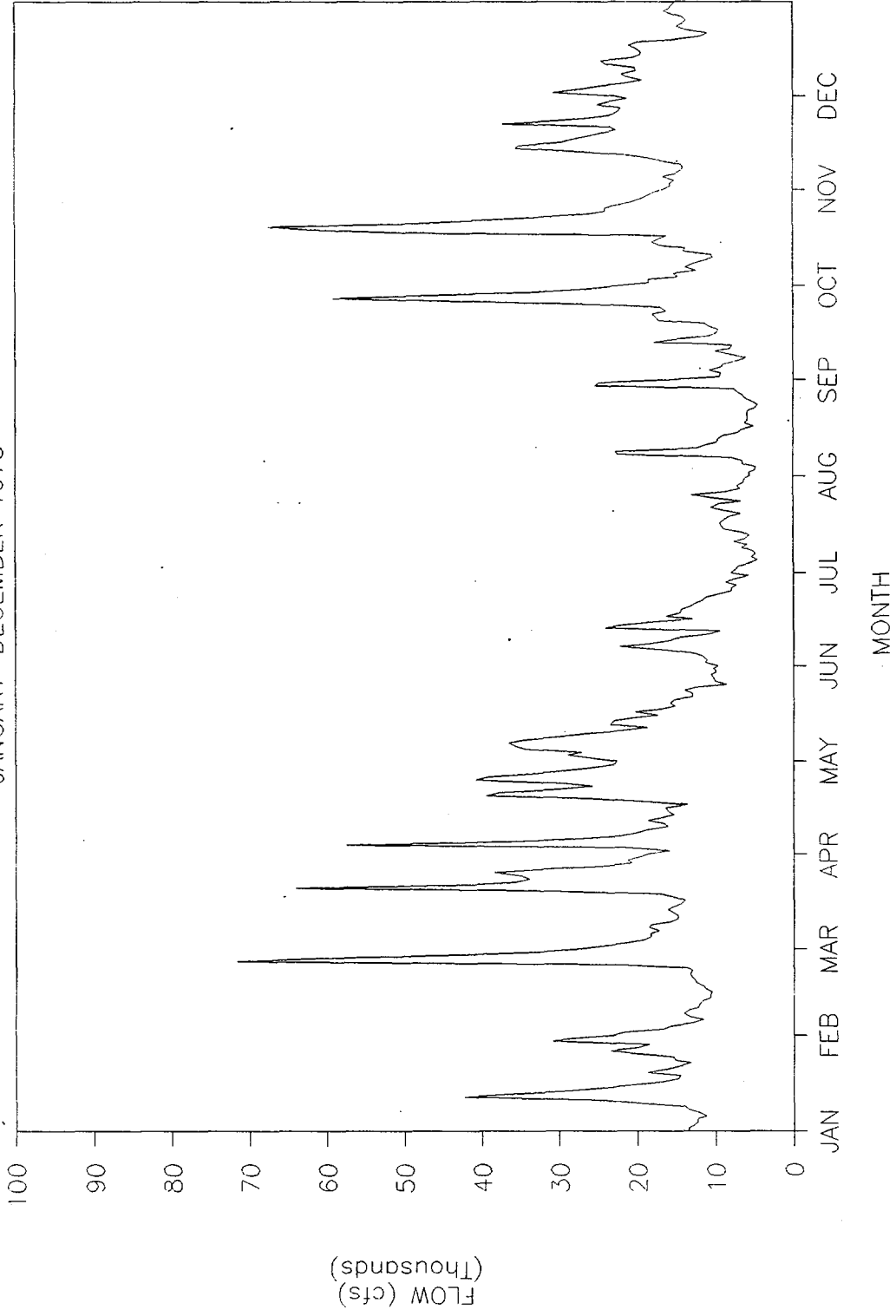
# FRESHWATER FLOW AT GREEN ISLAND, N.Y.

JANUARY - DECEMBER 1974

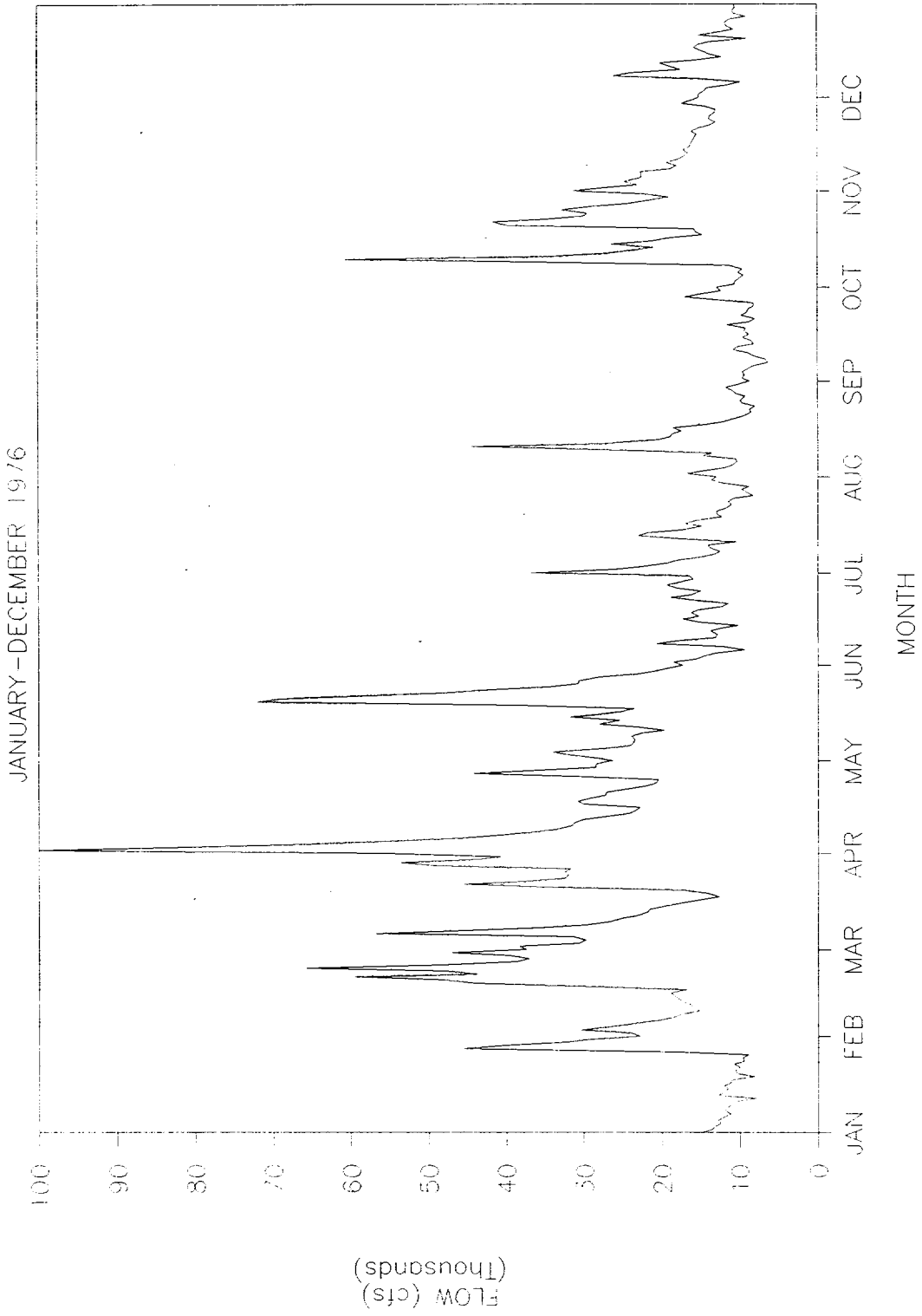


# FRESHWATER FLOW AT GREEN ISLAND, N.Y.

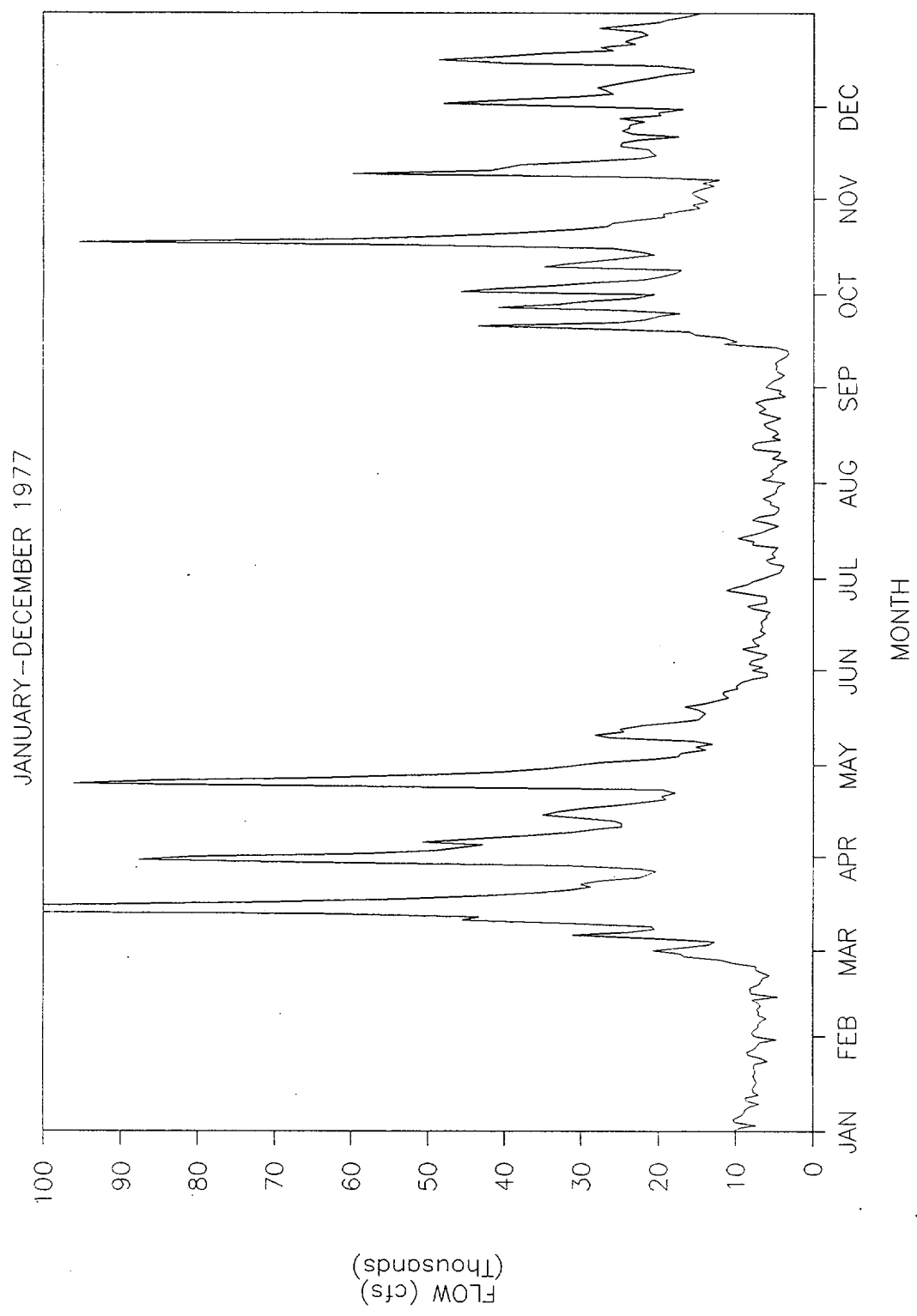
JANUARY-DECEMBER 1975



# FRESHWATER FLOW AT GREEN ISLAND, N.Y.

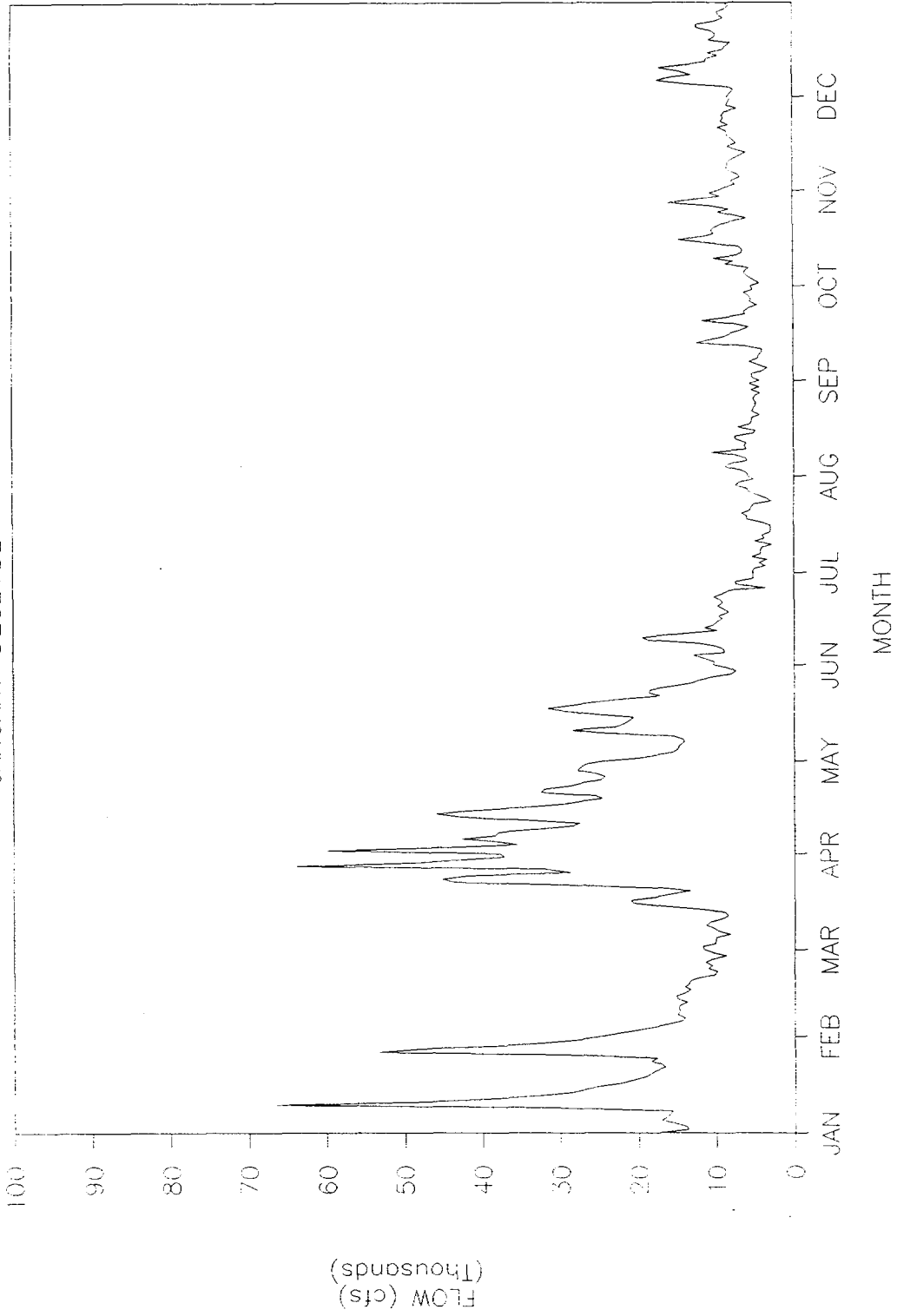


# FRESHWATER FLOW AT GREEN ISLAND, N.Y.

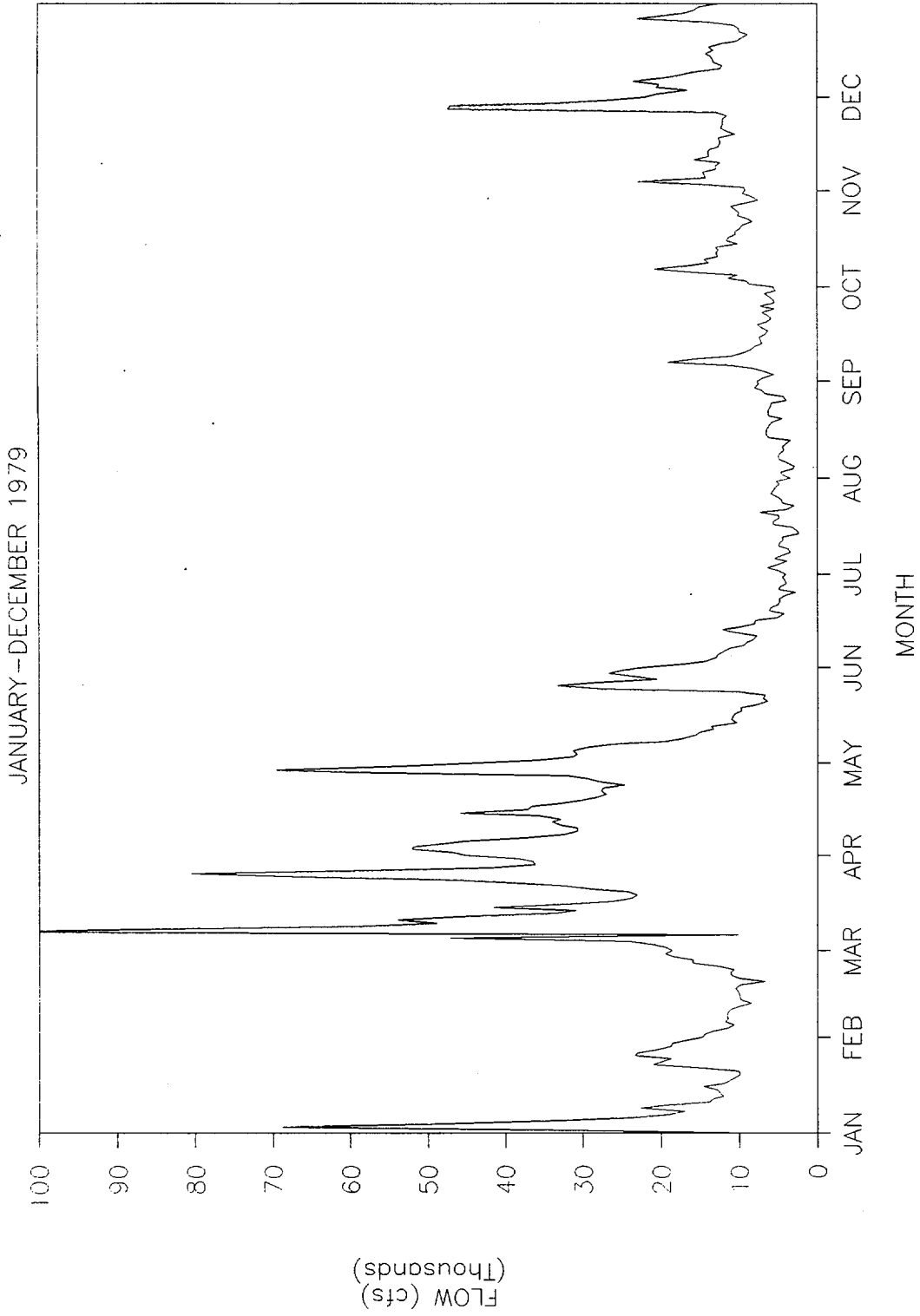


# FRESHWATER FLOW AT GREEN ISLAND, N.Y.

JANUARY - DECEMBER 1978

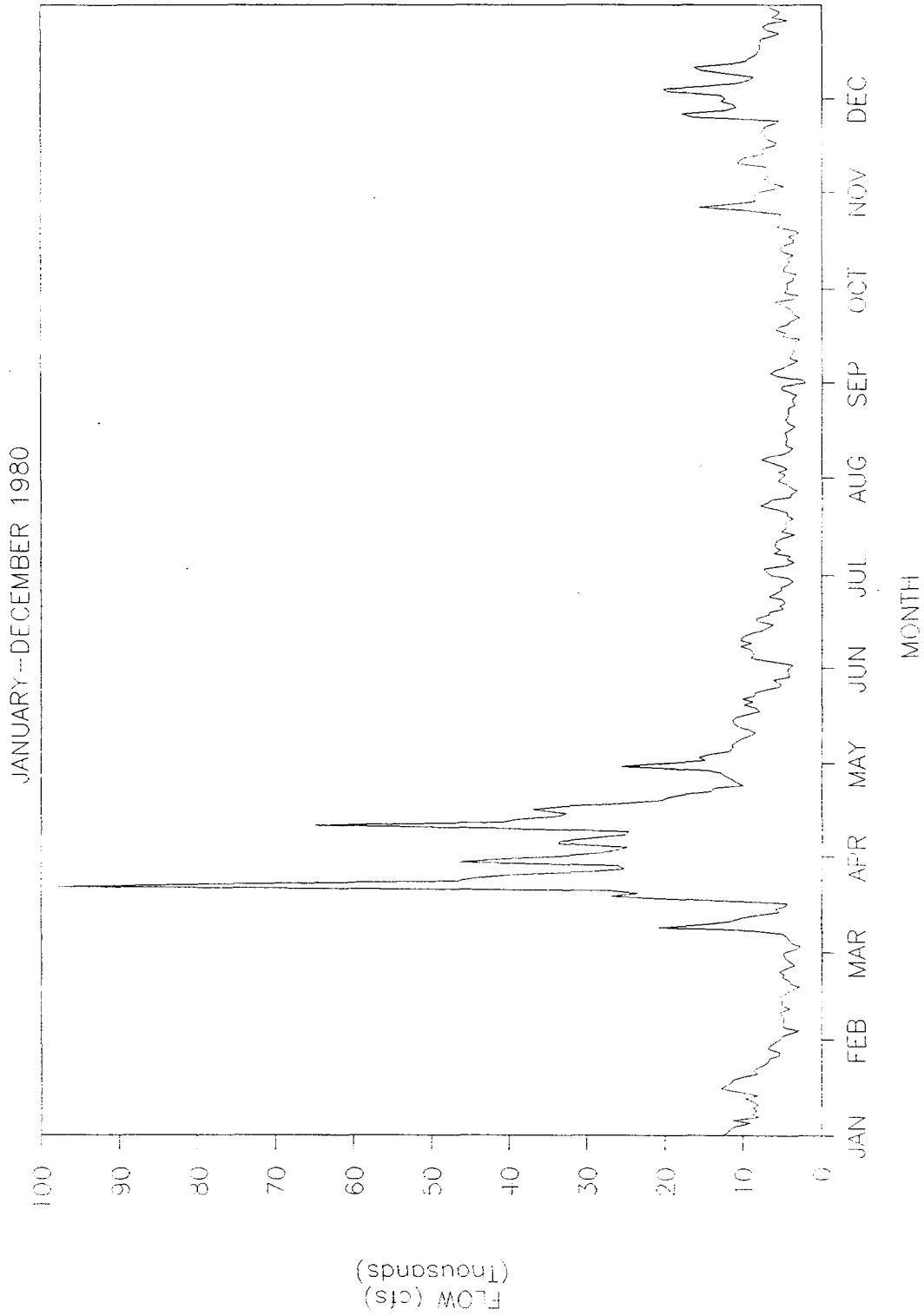


# FRESHWATER FLOW AT GREEN ISLAND, N.Y.



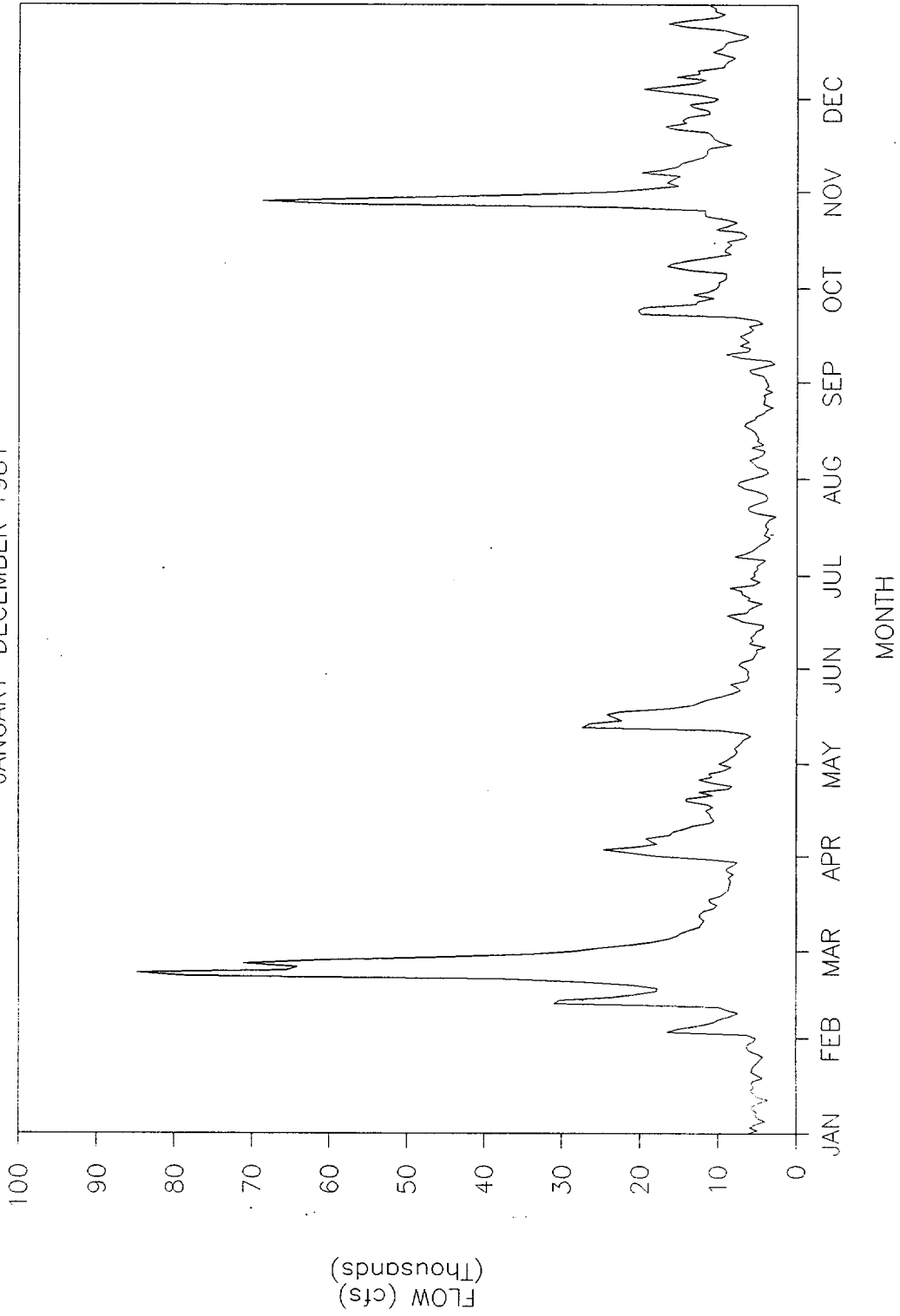


# FRESHWATER FLOW AT GREEN ISLAND, N.Y.



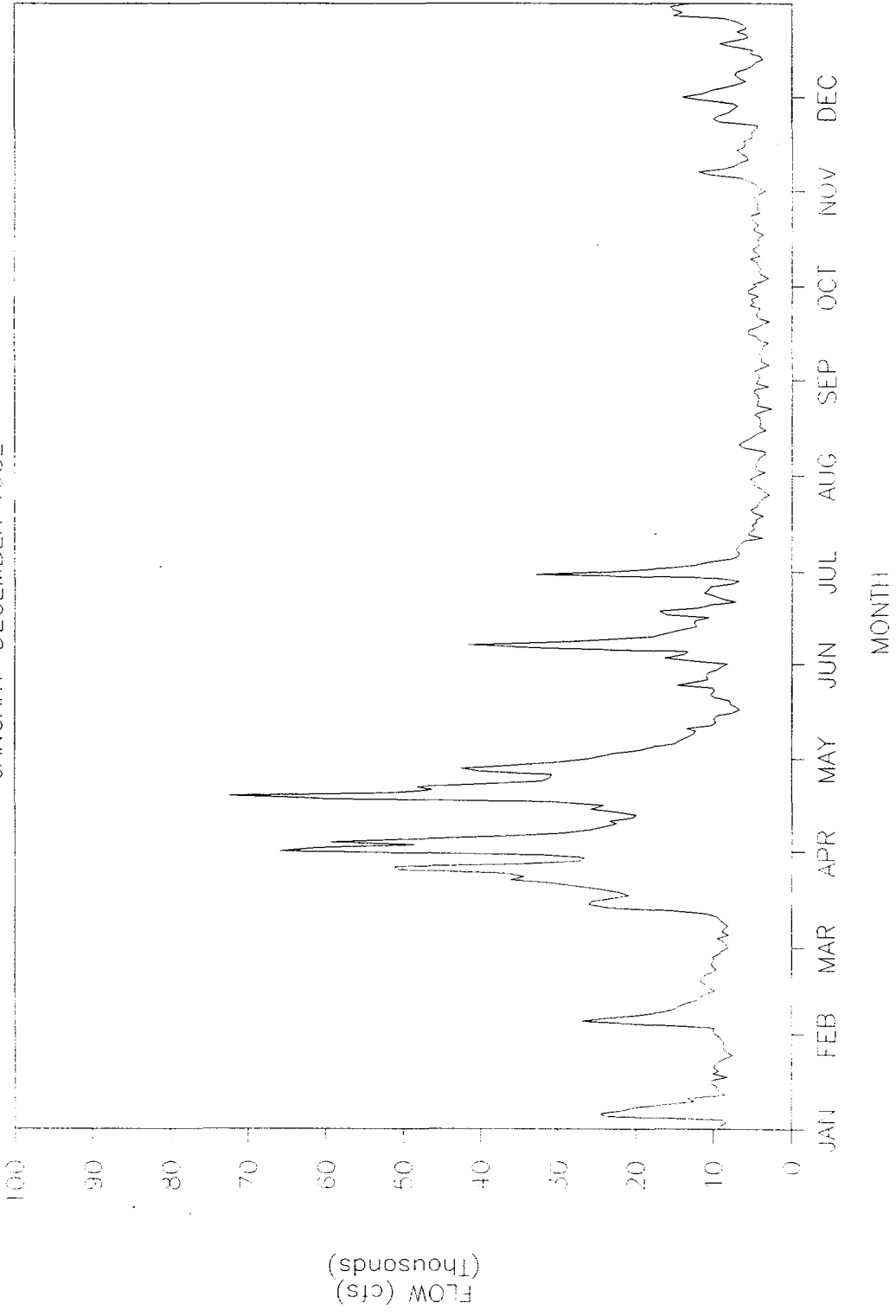
# FRESHWATER FLOW AT GREEN ISLAND, N.Y.

JANUARY - DECEMBER 1981

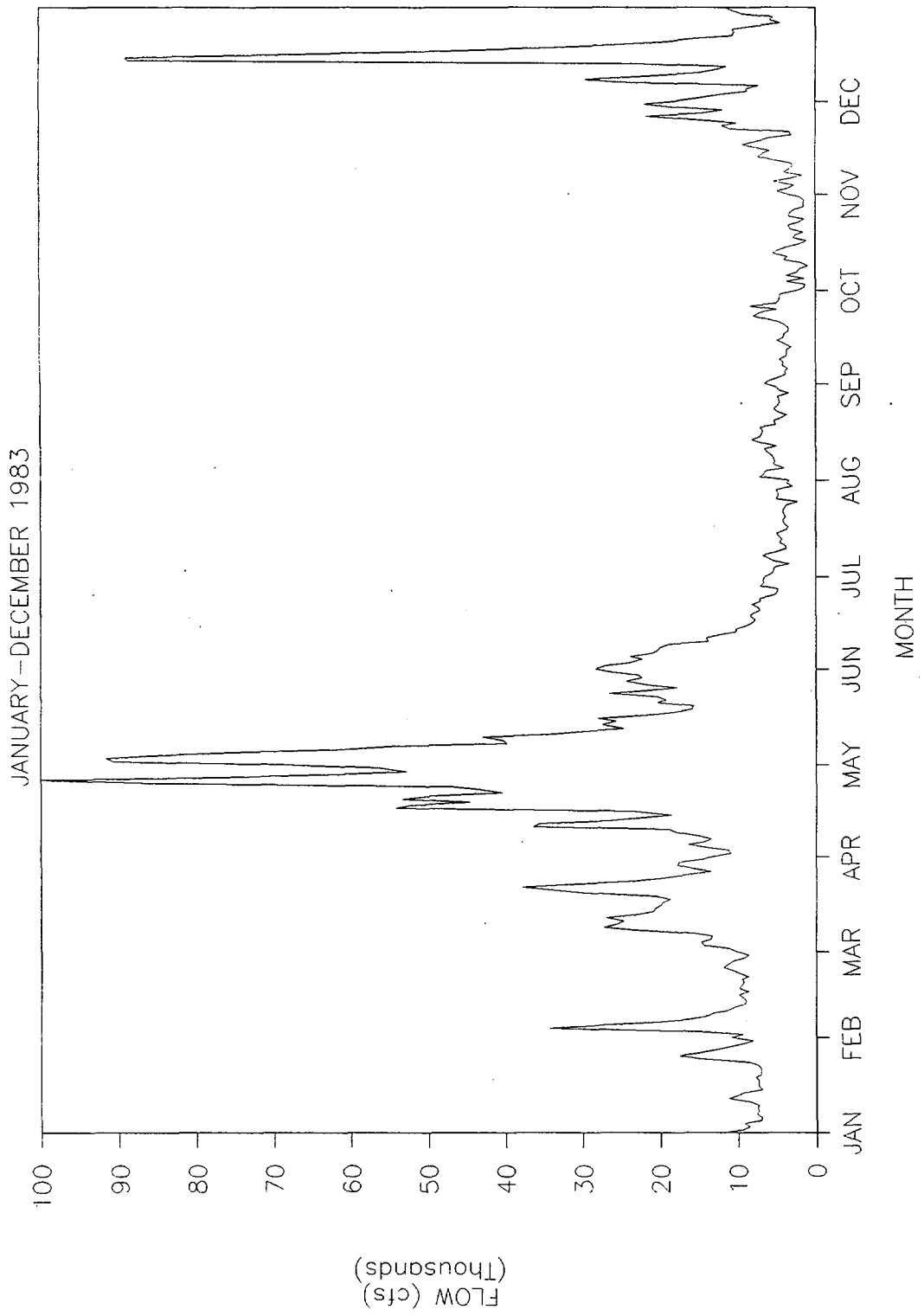


# FRESHWATER FLOW AT GREEN ISLAND, N.Y.

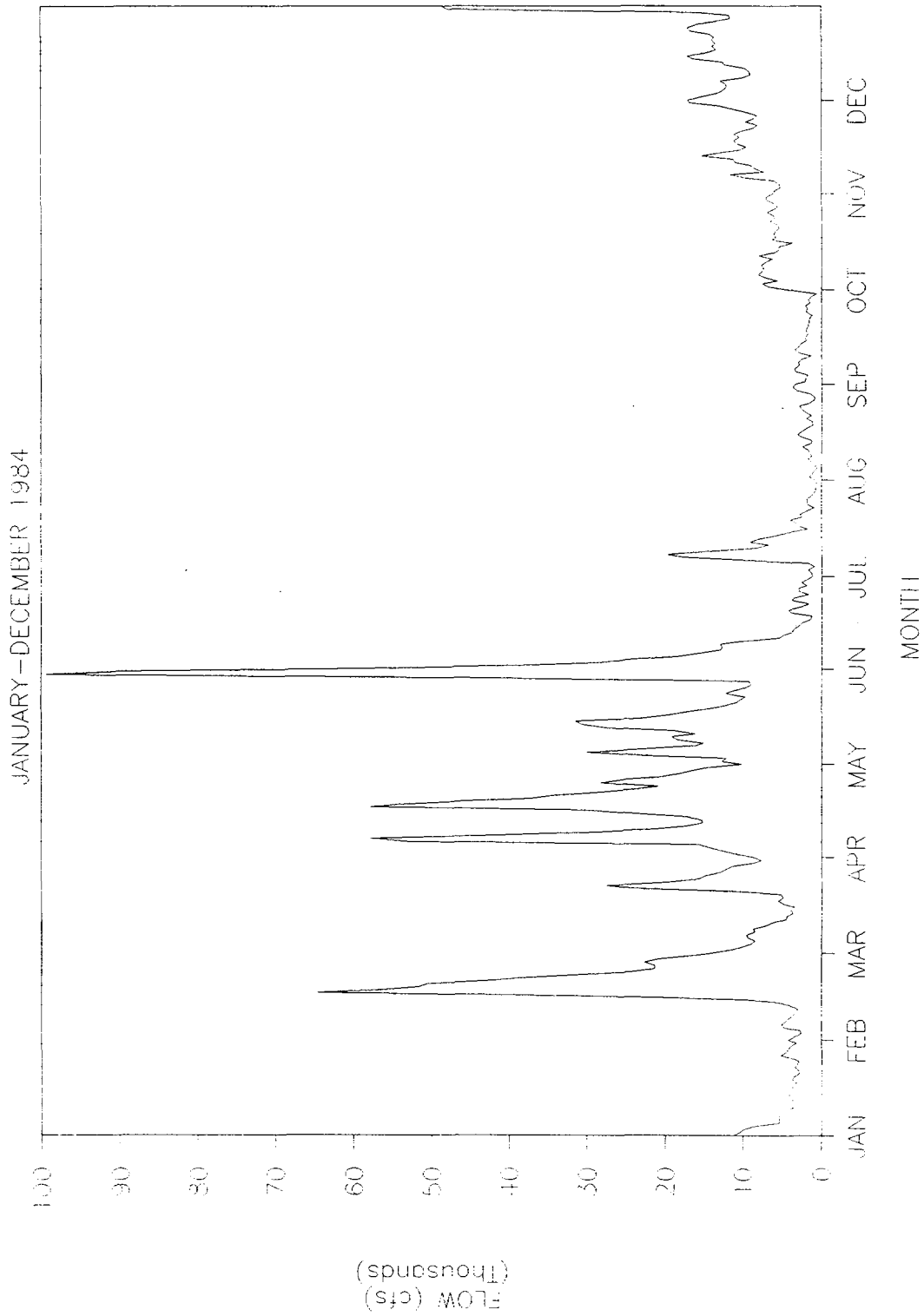
JANUARY-DECEMBER 1982



# FRESHWATER FLOW AT GREEN ISLAND, N.Y.

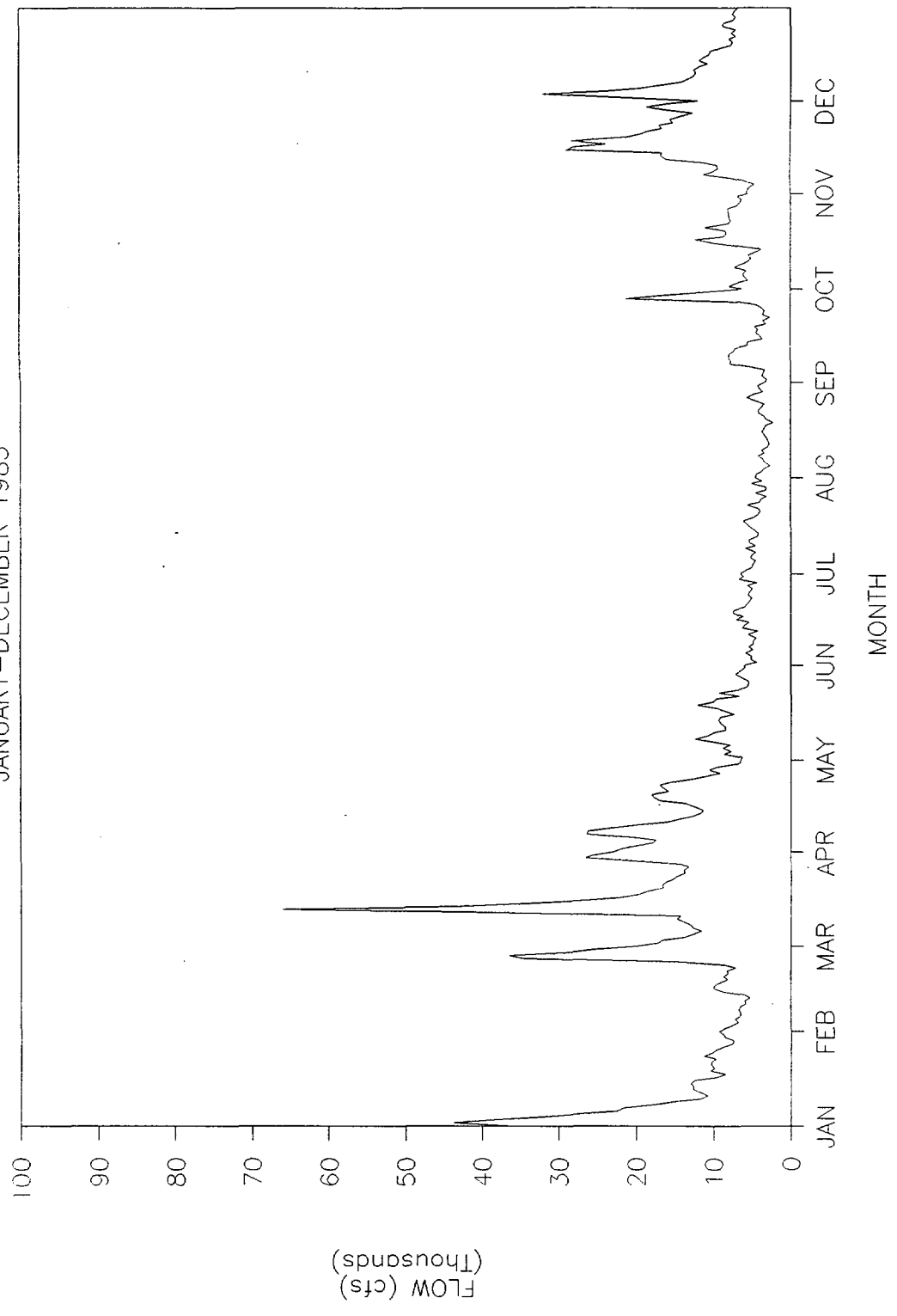


# FRESHWATER FLOW AT GREEN ISLAND, N.Y.

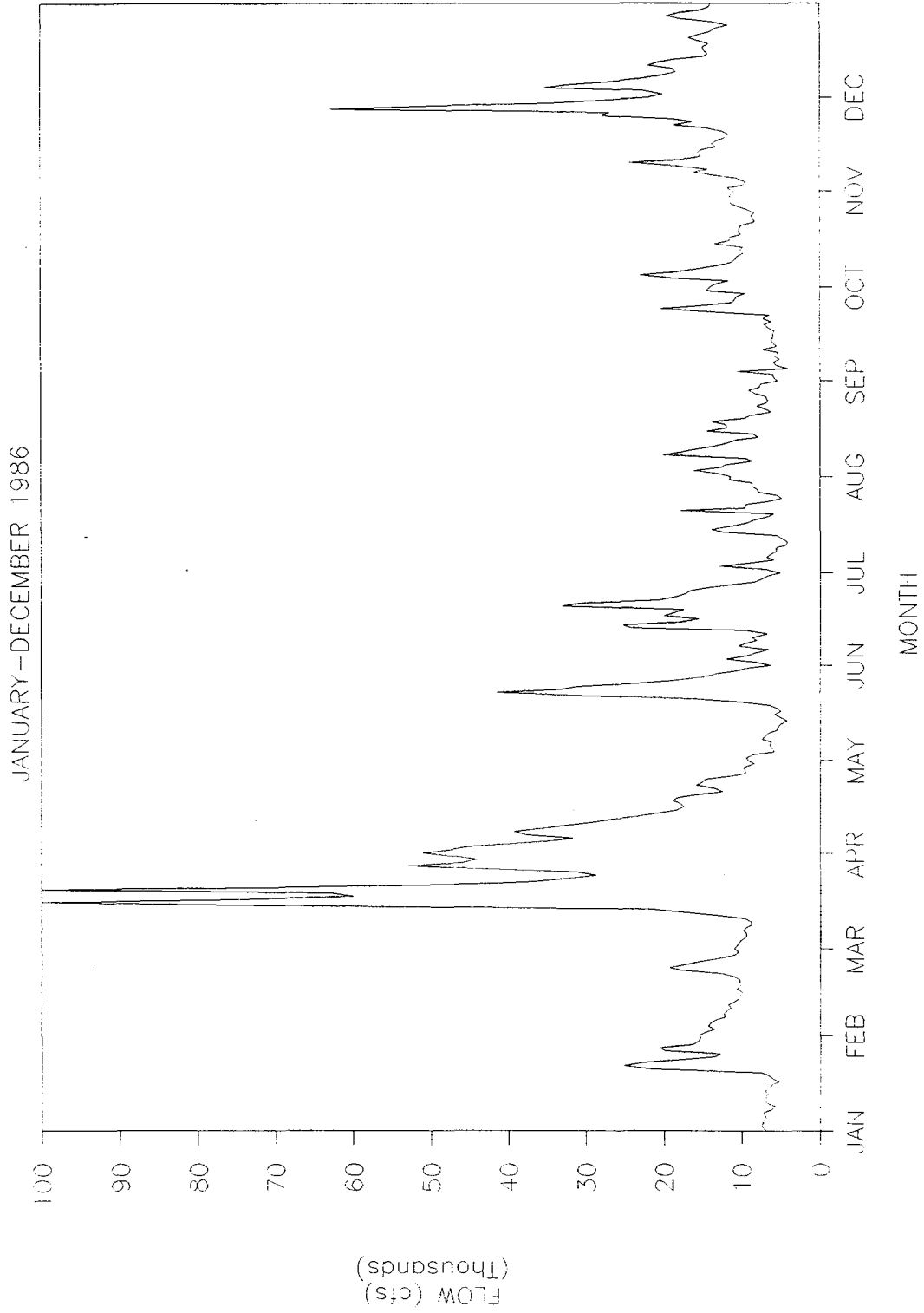


# FRESHWATER FLOW AT GREEN ISLAND, N.Y.

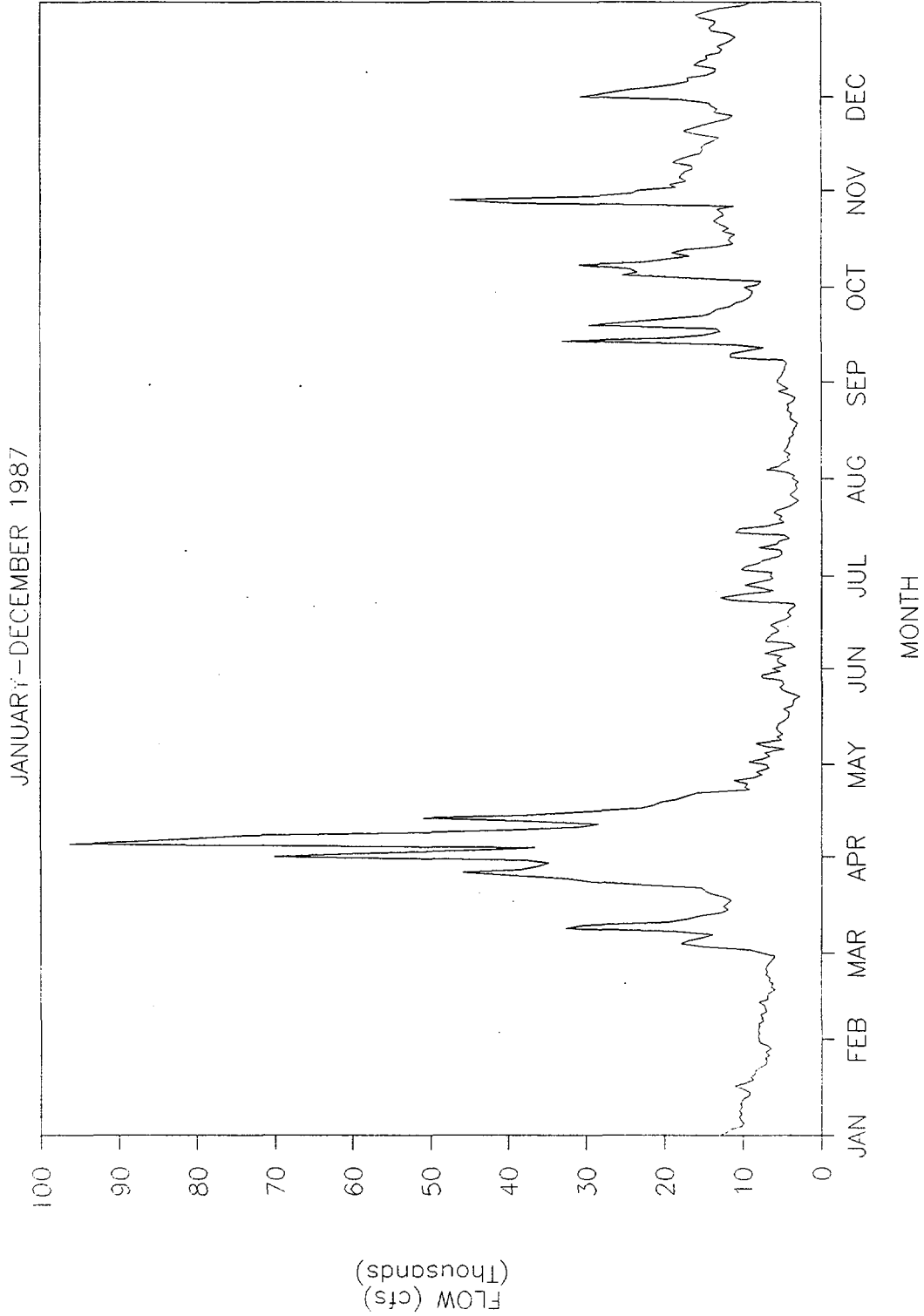
JANUARY-DECEMBER 1985



# FRESHWATER FLOW AT GREEN ISLAND, N.Y.



# FRESHWATER FLOW AT GREEN ISLAND, N.Y.





APPENDIX E

LRS/FSS HUDSON RIVER pH (1974-1978)

WEIGHTED MEAN PH BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1974, (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS												
	YK	TZ	CH	IP	WP	CN	PK	HP	KG	SG	CS	AL	
15APR74	.	.	.	.	.	.	7.3	7.4	7.3	7.3	7.3	.	
22APR74	.	.	.	7.3	7.3	7.3	7.3	7.2	7.2	7.1	7.0	6.9	
29APR74	7.3	7.4	7.4	.	7.4	7.3	7.3	7.2	7.2	7.2	7.1	.	
13MAY74	.	7.2	.	.	7.2	.	.	.	.	7.2	7.4	.	
20MAY74	7.5	.	.	.	7.7	.	.	.	.	.	.	.	
27MAY74	7.5	6.7	6.9	7.1	.	7.0	.	.	.	7.3	7.2	7.2	
03JUN74	.	7.4	.	7.3	.	7.2	7.3	7.5	7.8	6.9	7.0	6.9	
10JUN74	8.1	8.0	7.3	7.4	7.3	7.2	7.4	7.5	7.9	8.1	.	.	
17JUN74	6.6	7.3	7.1	7.3	7.4	7.4	7.5	.	.	7.7	.	.	
24JUN74	.	.	.	7.3	7.4	7.4	7.5	7.3	7.5	.	.	.	
01JUL74	7.6	7.8	7.5	7.5	7.6	7.5	7.5	7.5	7.6	.	.	.	
08JUL74	8.0	7.9	7.8	7.5	.	7.6	7.5	7.5	7.6	.	.	.	
15JUL74	7.6	7.9	7.8	7.5	7.4	.	7.6	7.4	7.5	.	.	.	
22JUL74	7.4	7.6	7.7	7.4	.	7.6	.	7.6	7.6	.	.	.	
29JUL74	7.4	7.6	7.7	7.4	.	.	.	7.7	7.7	.	7.9	.	
05AUG74	7.4	7.4	7.5	7.5	7.6	7.7	.	7.9	7.9	7.9	.	.	
12AUG74	7.3	7.6	.	7.4	7.7	7.8	7.8	7.6	8.0	.	.	.	
19AUG74	7.3	7.5	7.7	.	7.7	7.8	.	.	.	.	.	.	
26AUG74	.	7.6	.	8.0	7.4	7.6	.	.	.	.	.	.	
02SEP74	7.3	7.2	.	7.5	7.5	.	7.3	.	.	.	.	.	
09SEP74	.	7.5	7.5	7.5	7.6	.	7.6	.	.	.	.	.	
16SEP74	7.5	7.6	.	.	7.5	.	.	.	.	.	.	.	

WEIGHTED MEAN PH BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1974, (ASSOCIATED WITH THE  
 LONG RIVER ICTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
23SEP74	.	7.7	.	8.5	7.5	7.6	7.4	.	.	.	.	.
30SEP74	.	7.7	7.3	.	.	.	.	.	.	.	.	.
07OCT74	7.9	7.7	.	7.6	.	.	.	.	.	.	.	.
14OCT74	7.6	7.8	.	.	.	.	.	.	.	.	.	.
21OCT74	7.6	7.8	7.7	.	.	7.6	.	.	.	.	.	.
28OCT74	.	7.5	7.5	7.7	.	.	7.3	.	.	.	.	.
04NOV74	.	7.5	7.5	7.5	.	7.7	.	.	.	.	.	.
11NOV74	7.5	7.5	7.6	.	.	.	.	.	.	.	.	.
18NOV74	.	7.5	7.5	7.7	.	.	.	.	.	.	.	.
25NOV74	.	.	.	.	.	7.5	.	.	.	.	.	.
02DEC74	7.8	.	.	.	7.7	7.8	7.5	.	.	.	.	.
09DEC74	.	7.4	7.4	.	.	.	.	.	.	.	.	.

WEIGHTED MEAN PH BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1975, (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
10MAR75	. 7.3	7.4	7.3	7.5	7.6	.	.	.	.	.	.	.
24MAR75	7.4 .	.	7.2	7.2	7.1	7.1	.	.	.	.	.	.
07APR75	7.5 7.4	7.6	7.4	.	.	7.5	.	.	.	.	.	.
20APR75	7.6 7.4	.	7.3	.	.	7.5	.	.	.	7.6	.	.
05MAY75	. .	7.3	.	7.3	.	7.2	7.0	7.7	7.7	7.6	.	.
12MAY75	7.2 7.4	7.6	7.5	.	.	7.4	7.4	.	7.4	7.5	.	.
19MAY75	7.3 7.4	.	7.3	7.6	.	.	.	7.7	7.7	.	.	.
26MAY75	6.6 7.6	7.7	7.1	7.0	.	7.3	7.1	7.2	7.2	.	.	.
02JUN75	8.1 .	7.8	7.0	7.6	.	7.4	7.4	7.6	7.6	.	7.3	.
09JUN75	7.3 7.3	7.2	7.3	7.4	.	7.4	7.5	.	.	.	.	.
16JUN75	7.6 7.5	7.2	7.2	7.2	.	7.3	7.3	7.4	7.4	.	.	.
23JUN75	. .	7.1	7.5	7.5	.	7.4	.	.	7.5	7.2	.	.
30JUN75	8.0 .	7.2	7.2	.	.	7.3	7.3	8.0	8.1	.	7.3	.
07JUL75	7.4 7.6	7.6	7.3	.	.	7.3	7.3	.	7.8	7.6	.	.
14JUL75	. 7.4	7.5	7.5	7.7	7.7	7.8	.	7.6	7.2	7.4	.	.
21JUL75	. 7.2	7.3	.	.	.	7.4	7.5	.	7.6	.	.	.
28JUL75	6.6 6.6	6.5	7.6	7.5	.	7.5	7.9	.	7.8	.	.	.
11AUG75	7.4 7.4	.	7.2	7.3	.	7.1	7.2	7.8	7.2	7.2	7.2	7.2
18AUG75	7.2 7.3	7.3	7.2	7.2	7.4	7.3	.	.	.	.	.	.
01SEP75	7.3 7.2	7.1	6.9	7.0	7.0	7.0	.	.	.	.	.	.
15SEP75	7.2 7.3	7.4	7.2	7.2	7.2	7.1	.	.	.	.	.	.
29SEP75	7.1 7.3	7.2	7.1	7.2	7.3	7.1	.	.	.	.	.	.

WEIGHTED MEAN PH BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1975, (ASSOCIATED WITH THE  
 LONG RIVER ICTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
13OCT75	7.5	7.6	7.6	7.5	7.4	7.4	7.4	.	.	.	.	.
27OCT75	7.3	7.2	7.1	6.9	7.1	6.9	7.0	.	.	.	.	.
10NOV75	7.5	7.5	7.5	7.5	7.6	7.6	7.5	.	.	.	.	.
17NOV75	7.3	7.5	.	.	.	.	.	.	.	.	.	.
24NOV75	.	7.4	7.3	7.4	7.4	7.4	7.4	.	.	.	.	.
08DEC75	7.7	7.7	7.4	7.4	7.5	7.5	7.5	.	.	.	.	.

WEIGHTED MEAN PH BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1976, (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
.	.	.	.	.	.	.	.	.	.	.	.	.
03MAY76	7.3	.	.	.	.	.	.	.	.	.	.	.
10MAY76	.	7.6	.	.	.	.	.	.	.	.	.	.
16AUG76	7.1	7.1	7.3	7.1	7.0	7.0	7.0	.	.	.	.	.
30AUG76	6.7	7.0	7.1	6.9	6.8	6.7	6.7	.	.	.	.	.
13SEP76	7.2	7.3	7.3	7.3	7.5	7.5	7.5	.	.	.	.	.
27SEP76	6.8	6.9	6.9	6.8	6.8	6.8	6.8	.	.	.	.	.
11OCT76	7.4	7.6	7.5	7.0	7.4	7.4	7.4	.	.	.	.	.
25OCT76	6.5	6.7	6.9	6.6	6.7	6.6	6.5	.	.	.	.	.
08NOV76	7.0	7.1	7.1	7.1	7.6	7.7	7.3	.	.	.	.	.
15NOV76	6.7	6.7	.	.	.	.	.	.	.	.	.	.
22NOV76	.	6.9	7.0	7.0	6.9	6.9	6.9	.	.	.	.	.
06DEC76	7.0	6.9	.	7.3	7.3	7.3	7.2	.	.	.	.	.

WEIGHTED MEAN PH BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1977, (ASSOCIATED WITH THE  
 LONG RIVER ICTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS												
	YK	TZ	CH	IP	MP	CW	PK	HP	KG	SG	CS	AL	
21FEB77	.	6.8	6.9	7.0	.	.	7.1	.	.	.	.	.	
07MAR77	.	.	7.3	7.2	7.3	7.2	.	.	.	.	.	.	
21MAR77	.	7.2	.	.	6.9	.	.	.	.	.	.	.	
04APR77	.	.	7.1	7.1	.	.	7.3	.	.	.	.	.	
18APR77	.	.	6.9	7.0	7.1	7.2	7.2	.	.	.	.	.	
25APR77	.	.	7.1	7.2	7.2	.	.	.	7.2	.	.	.	
02MAY77	6.8	6.9	.	7.0	7.2	7.1	7.1	.	.	.	.	.	
09MAY77	.	.	.	6.8	7.4	.	7.2	7.2	.	.	.	.	
16MAY77	.	.	.	7.4	7.4	.	.	7.3	.	7.5	.	.	
23MAY77	.	.	7.4	7.4	7.1	.	7.4	.	.	.	.	.	
30MAY77	.	7.4	.	.	7.3	7.7	.	7.3	.	.	.	7.1	
06JUN77	7.3	7.3	.	7.3	7.4	.	7.2	7.2	.	.	7.2	7.2	
13JUN77	.	7.7	7.3	7.2	7.6	7.4	7.5	7.3	.	7.3	.	.	
20JUN77	.	7.8	7.6	.	.	7.4	7.3	7.3	.	.	.	.	
27JUN77	7.2	7.3	7.5	7.4	7.4	.	.	.	.	7.6	.	.	
04JUL77	.	.	.	.	7.4	7.3	7.2	.	7.2	.	.	7.3	
11JUL77	.	.	7.1	7.2	7.3	.	7.1	.	.	7.8	7.8	.	
25JUL77	7.3	7.3	7.3	7.3	7.4	.	7.3	.	.	.	.	.	
08AUG77	.	7.2	7.2	7.4	.	.	7.4	.	.	.	.	.	
15AUG77	.	7.4	.	7.2	.	.	.	.	.	.	.	.	
29AUG77	.	.	7.4	7.4	7.4	.	.	.	.	.	.	.	
12SEP77	.	7.4	7.5	.	7.3	.	7.5	.	.	.	.	.	

WEIGHTED MEAN PH BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1977, (ASSOCIATED WITH THE  
 LONG RIVER ICTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS								
						CW	PK	HP	KG	SG	CS	AL		
26SEP77	.	7.5	7.4	.	.	.	.	.	.	.	.	.	.	.
10OCT77	.	.	7.4	.	.	7.3	7.3	.	.	.	.	.	.	.
24OCT77	.	.	.	.	.	.	7.5	.	.	.	.	.	.	.
07NOV77	.	.	7.5	.	.	.	.	.	.	.	.	.	.	.
14NOV77	7.1	.	.	.	.	.	.	.	.	.	.	.	.	.
21NOV77	.	7.6	.	.	.	.	.	.	.	.	.	.	.	.
05DEC77	.	.	7.3	7.4	.	.	.	.	.	.	.	.	.	.



WEIGHTED MEAN PH BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1978, (ASSOCIATED WITH THE  
 LONG RIVER ICTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
27MAR78	.	7.4	.	7.5	7.6	7.4	.	.	.	.	.	.
17APR78	.	.	7.3	7.5	7.3	.	7.4	.	.	.	.	7.4
24APR78	.	.	.	7.5	7.4	.	.	7.5	7.5	.	.	.
01MAY78	6.5	.	.	6.9	6.8	7.1	.	.	7.4	.	.	.
08MAY78	.	7.2	6.8	7.4	6.8	.	.	.	.	.	7.3	.
15MAY78	.	.	.	7.2	6.7	.	7.0	.	7.0	.	.	.
22MAY78	.	.	6.7	6.9	7.0	.	.	6.8	6.8	6.9	7.1	7.2
29MAY78	.	.	.	7.0	7.0	7.2	7.2	7.2	.	.	.	.
05JUN78	.	6.9	.	7.1	.	.	7.0	.	7.0	.	.	.
12JUN78	.	.	.	7.2	7.2	.	6.9	.	.	.	.	.
19JUN78	.	.	.	.	7.2	6.8	6.8	.	.	.	.	.
26JUN78	.	7.1	.	7.1	7.0	.	.	7.2	.	.	.	6.9
03JUL78	.	7.0	.	.	7.0	7.0	7.2	7.0	6.8	.	.	.
17JUL78	.	.	.	7.2	.	.	7.1	7.4	.	7.9	.	7.0
31JUL78	.	6.9	.	6.9	7.1	.	7.2	.	7.6	.	.	6.6
14AUG78	.	.	7.2	7.1	7.1	.	7.2	.	.	.	7.0	.
04SEP78	7.2	.	7.1	.	.	7.4	7.3	.	.	.	.	.
18SEP78	.	.	7.4	7.5	7.6	.	.	.	.	.	.	.
30OCT78	.	7.4	7.4	7.4	7.5	.	.	.	.	.	.	.
27NOV78	.	.	7.0	.	.	.	6.8	.	.	.	.	.

APPENDIX F

LRS/FSS HUDSON RIVER TURBIDITY (1974-1978)

WEIGHTED MEAN TURBIDITY (FTU S) BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1974, (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
15APR74	.	.	.	.	.	.	15.0	20.0	27.0	18.3	22.6	.
22APR74	.	.	.	12.7	17.1	19.1	11.1	15.0	7.9	7.7	6.7	5.5
29APR74	17.6	29.5	24.0	.	23.0	12.0	11.0	9.2	7.4	3.1	2.8	.
13MAY74	.	8.4	.	.	.	8.0	.	.	.	14.5	26.0	.
20MAY74	29.5	.	.	.	.	8.0	.	.	.	.	.	.
27MAY74	21.0	51.0	21.5	11.0	.	19.0	.	.	.	4.6	9.2	7.5
03JUN74	.	23.8	.	13.5	.	11.0	7.4	7.9	6.0	6.9	5.6	6.4
10JUN74	9.2	8.5	9.4	7.4	10.0	9.2	6.4	9.9	6.2	4.7	.	.
17JUN74	11.0	7.6	28.0	11.0	8.3	7.4	22.5	.	.	12.9	.	.
24JUN74	.	.	.	13.9	27.0	13.0	11.0	10.0	9.5	.	.	.
01JUL74	15.7	11.2	8.2	7.7	9.3	7.6	12.5	14.0	8.5	.	.	.
08JUL74	6.1	6.5	8.9	5.8	.	6.6	4.2	13.9	8.3	.	.	.
15JUL74	23.0	5.2	3.3	5.0	5.7	.	3.6	7.4	17.0	.	.	.
22JUL74	26.0	35.7	5.5	.	.	34.0	.	46.0	96.0	.	.	.
29JUL74	21.8	28.3	9.1	4.4	.	.	.	38.0	33.0	.	31.0	.
05AUG74	21.0	14.4	16.0	38.0	26.3	7.5	.	8.0	24.0	4.0	.	.
12AUG74	24.0	6.9	.	14.4	11.0	11.5	14.0	38.0	28.0	.	.	.
19AUG74	16.5	5.7	4.6	.	14.0	15.0	.	.	.	.	.	.
26AUG74	.	7.3	.	8.1	7.7	8.8	.	.	.	.	.	.
02SEP74	31.0	4.2	.	6.7	5.1	.	5.1	.	.	.	.	.
09SEP74	.	3.8	5.3	13.9	17.1	.	6.3	.	.	.	.	.
16SEP74	42.0	8.3	.	.	8.7	.	.	.	.	.	.	.

WEIGHTED MEAN TURBIDITY (FTU\_S) BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1974, (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS								
						CW	PK	HP	KG	SG	CS	AL		
23SEP74	.	14.0	.	8.6	9.6	7.5	5.7	.	.	.	.	.	.	.
30SEP74	.	3.8	8.0	.	.	.	.	.	.	.	.	.	.	.
07OCT74	16.0	11.0	.	8.5	.	.	.	.	.	.	.	.	.	.
14OCT74	65.0	9.8	.	.	.	.	.	.	.	.	.	.	.	.
21OCT74	5.3	7.5	7.3	.	.	4.5	.	.	.	.	.	.	.	.
28OCT74	.	3.4	5.2	7.5	.	.	12.0	.	.	.	.	.	.	.
04NOV74	.	4.2	5.2	7.7	.	7.1	.	.	.	.	.	.	.	.
11NOV74	76.0	14.9	9.0	.	.	.	.	.	.	.	.	.	.	.
18NOV74	.	10.0	12.0	13.8	.	.	.	.	.	.	.	.	.	.
25NOV74	.	.	.	.	.	3.3	.	.	.	.	.	.	.	.
02DEC74	31.0	.	.	.	18.3	13.0	14.0	.	.	.	.	.	.	.
09DEC74	.	18.0	18.0	.	.	.	.	.	.	.	.	.	.	.

WEIGHTED MEAN TURBIDITY (FTU S) BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1975, (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS							AL		
						CW	PK	HP	KG	SG	CS				
10MAR75	.	6.6	12.0	25.0	33.0	23.0	.	.	.	.	.	.	.	.	.
24MAR75	27.0	.	.	7.9	13.5	22.0	15.0	.	.	.	.	.	.	.	.
07APR75	20.0	15.4	23.0	18.0	.	.	41.0	.	.	.	.	.	.	.	.
20APR75	33.0	32.0	.	37.5	.	.	32.0	.	.	.	11.0	.	.	.	.
05MAY75	11.2	18.5	5.7	.	9.4	.	3.5	20.0	2.2	3.2	2.4	.	.	.	.
12MAY75	.	8.4	10.7	3.4	.	.	4.7	5.3	.	3.1	4.0	.	.	.	.
19MAY75	6.2	14.7	.	9.5	10.0	.	.	9.5	2.0	7.5	.	.	.	.	.
26MAY75	11.7	13.4	5.7	6.6	17.0	.	5.0	9.2	7.2	4.0	.	.	.	.	.
02JUN75	4.4	.	2.3	3.0	2.1	.	3.7	3.5	2.7	3.2	.	3.5	.	.	.
09JUN75	14.0	20.0	12.4	15.7	15.0	.	7.1	7.6	.	.	.	.	.	.	.
16JUN75	12.0	8.7	8.5	16.3	20.0	.	6.8	5.3	5.5	5.9	.	.	.	.	.
23JUN75	.	.	7.1	22.0	7.6	.	4.9	.	.	4.4	6.1	.	.	.	.
30JUN75	10.5	.	2.5	5.0	.	.	6.5	6.1	3.3	1.4	.	2.3	.	.	.
07JUL75	16.0	6.0	5.8	8.5	.	.	6.2	5.0	.	3.5	6.5	.	.	.	.
14JUL75	.	6.9	6.8	4.4	13.3	6.0	2.2	.	5.3	4.3	3.6	.	.	.	.
21JUL75	.	7.4	7.7	.	.	.	3.9	6.1	.	4.0	.	.	.	.	.
28JUL75	4.4	4.6	5.2	4.2	6.7	.	3.1	3.3	.	5.0	.	.	.	.	.
11AUG75	15.5	16.6	.	21.8	35.0	.	7.3	6.4	3.5	5.5	10.9	4.7	.	.	.
18AUG75	22.7	4.4	3.1	4.8	4.8	5.8	6.1	.	.	.	.	.	.	.	.
01SEP75	34.5	7.9	5.5	6.6	6.8	5.1	7.3	.	.	.	.	.	.	.	.
15SEP75	4.1	4.3	6.7	16.9	7.4	5.5	6.5	.	.	.	.	.	.	.	.
29SEP75	12.7	11.4	9.0	6.3	10.4	8.7	4.1	.	.	.	.	.	.	.	.

WEIGHTED MEAN TURBIDITY (FTU\_S) BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1975, (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
13OCT75	6.4	4.4	5.6	8.0	7.4	5.4	8.0	.	.	.	.	.
27OCT75	14.0	8.1	10.2	14.2	28.5	26.5	30.6	.	.	.	.	.
10NOV75	14.4	15.7	16.4	19.7	20.0	21.4	6.7	.	.	.	.	.
17NOV75	18.7	17.9	.	.	.	.	.	.	.	.	.	.
24NOV75	.	12.0	14.0	8.8	14.3	19.4	7.7	.	.	.	.	.
08DEC75	22.4	7.0	7.5	13.0	17.0	12.8	6.3	.	.	.	.	.

WEIGHTED MEAN TURBIDITY (FTU S) BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1976 (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS												
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	
03MAY76	.	23.0	.	.	.	.	.	.	.	.	.	.	
10MAY76	.	.	7.5	.	.	.	.	.	.	.	.	.	
16AUG76	18.3	9.3	5.8	9.7	8.2	9.0	8.2	.	.	.	.	.	
30AUG76	58.0	13.5	17.9	17.1	16.2	16.7	10.4	.	.	.	.	.	
13SEP76	14.3	9.2	9.2	8.9	13.9	5.6	11.6	.	.	.	.	.	
27SEP76	30.1	14.8	12.1	16.6	12.1	10.3	14.6	.	.	.	.	.	
11OCT76	14.6	13.3	12.5	12.7	7.7	7.4	10.5	.	.	.	.	.	
25OCT76	50.5	27.2	20.5	15.7	18.4	21.0	24.6	.	.	.	.	.	
08NOV76	23.3	16.6	13.2	22.9	18.2	19.8	26.6	.	.	.	.	.	
15NOV76	41.5	32.0	.	.	.	.	.	.	.	.	.	.	
22NOV76	.	20.0	24.3	20.6	19.8	17.4	26.0	.	.	.	.	.	
06DEC76	23.3	23.6	.	15.0	21.0	19.2	13.6	.	.	.	.	.	

WEIGHTED MEAN TURBIDITY (FTU S) BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1977, (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS											
						CW	PK	HP	KG	SG	CS	AL					
21FEB77	.	22.3	16.7	21.5	.	.	11.0	.	.	.	.	.	.	.	.	.	.
07MAR77	.	.	23.0	17.0	22.0	31.0	.	.	.	.	.	.	.	.	.	.	.
21MAR77	.	155	.	.	84.0	.	.	.	.	.	.	.	.	.	.	.	.
04APR77	.	.	29.0	35.0	.	.	81.0	.	.	.	.	.	.	.	.	.	.
18APR77	.	.	19.0	21.5	29.6	16.0	16.3	.	.	.	.	.	.	.	.	.	.
25APR77	.	.	21.0	24.0	14.3	.	.	.	.	39.0	.	.	.	.	.	.	.
02MAY77	24.0	56.0	.	28.5	31.7	29.0	25.0	.	.	.	.	.	.	.	.	.	.
09MAY77	.	.	.	32.0	26.5	.	17.0	19.0	.	.	.	.	.	.	.	.	.
16MAY77	.	.	.	17.0	21.3	.	.	17.0	.	17.0	.	.	.	17.0	.	.	.
23MAY77	.	.	26.0	26.0	18.0	.	7.4	.	.	.	.	.	.	.	.	.	.
30MAY77	.	13.0	.	.	35.0	32.0	.	21.0	.	.	.	.	.	.	.	5.0	.
06JUN77	15.0	11.5	.	17.5	29.0	.	6.2	10.0	.	.	.	.	.	17.0	8.1	.	.
13JUN77	.	12.0	17.0	18.0	11.0	13.0	8.5	13.3	.	20.0	.	.	.	.	.	.	.
20JUN77	.	20.0	13.0	.	.	11.2	5.4	4.4	.	.	.	.	.	.	.	.	.
27JUN77	19.3	21.0	24.0	11.0	19.5	.	.	.	.	7.8	.	.	.	.	.	.	.
04JUL77	.	.	.	.	19.0	6.6	18.3	.	12.5	.	.	.	.	.	.	4.1	.
11JUL77	.	.	6.3	6.9	15.0	.	11.9	.	.	5.4	9.3	.	.	.	.	.	.
25JUL77	13.0	25.7	15.0	15.0	16.0	.	18.5	.	.	.	.	.	.	.	.	.	.
08AUG77	.	8.0	11.0	8.0	.	.	7.0	.	.	.	.	.	.	.	.	.	.
15AUG77	.	17.0	.	8.0	.	.	.	.	.	.	.	.	.	.	.	.	.
29AUG77	.	.	19.0	14.0	130	.	.	.	.	.	.	.	.	.	.	.	.
12SEP77	.	23.0	15.0	.	5.4	.	4.3	.	.	.	.	.	.	.	.	.	.



WEIGHTED MEAN TURBIDITY (FTU S) BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1977, (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS								
						CW	PK	HP	KG	SG	CS	AL		
26SEP77	.	17.0	10.0	.	.	.	.	.	.	.	.	.	.	.
10OCT77	.	.	18.7	.	.	17.0	18.0	.	.	.	.	.	.	.
24OCT77	.	.	.	.	.	.	76.0	.	.	.	.	.	.	.
07NOV77	.	.	18.0	.	.	.	.	.	.	.	.	.	.	.
14NOV77	26.0	.	.	.	.	.	.	.	.	.	.	.	.	.
21NOV77	.	25.0	.	.	.	.	.	.	.	.	.	.	.	.
05DEC77	.	.	30.0	18.0	.	.	.	.	.	.	.	.	.	.

APPENDIX TABLE 1

WEIGHTED MEAN TURBIDITY (FTU-S) BY REGION AND WEEK  
 HUDSON RIVER ESTUARY, 1978, (ASSOCIATED WITH THE  
 LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEY)

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
27MAR78	.	20.0	.	23.5	53.0	44.0	.	.	.	.	.	.
17APR78	.	.	14.0	20.0	21.7	.	14.0	.	.	.	.	4.7
24APR78	.	.	.	40.0	19.9	.	.	14.0	18.0	.	.	.
01MAY78	17.0	.	.	24.0	21.8	16.0	.	.	8.0	.	.	.
08MAY78	.	17.5	16.0	11.0	9.0	.	.	.	.	.	6.0	.
15MAY78	.	.	.	9.6	8.5	.	5.0	.	7.0	.	.	.
22MAY78	.	.	11.0	13.0	9.5	.	.	11.0	10.0	17.5	18.5	7.0
29MAY78	.	.	.	11.1	7.0	7.0	10.3	6.0	.	.	.	.
05JUN78	.	18.0	.	7.0	.	.	10.3	.	5.0	.	.	.
12JUN78	.	.	.	9.0	12.3	.	10.0	.	.	.	.	.
19JUN78	.	.	.	.	10.0	25.0	6.0	.	.	.	.	.
26JUN78	.	11.5	.	9.5	13.0	.	.	16.0	.	.	.	7.0
03JUL78	.	3.0	.	.	7.7	10.0	4.0	7.0	8.5	.	.	.
17JUL78	.	.	.	6.2	.	.	3.5	6.0	.	13.0	.	10.0
31JUL78	.	6.0	.	6.5	8.5	.	8.0	.	10.0	.	.	11.0
14AUG78	.	.	6.0	5.3	17.0	.	4.0	.	.	.	3.0	.
04SEP78	18.0	.	3.0	.	.	5.0	5.0	.	.	.	.	.
18SEP78	.	.	9.0	7.0	7.5	.	.	.	.	.	.	.
30OCT78	.	9.0	13.2	8.0	8.0	.	.	.	.	.	.	.
27NOV78	.	.	10.0	.	.	.	9.0	.	.	.	.	.

APPENDIX G

ANOVA RESULTS: SPECIAL STUDIES TO EVALUATE JUVENILES  
IN PREVIOUSLY UNSAMPLED AREAS  
(1986 and 1987)

1986 Fall Shoals Special Study  
28 August - 1 October

1987 Fall Shoals Special Study  
Kingston and Saugerties regions, 15-18 September

KEY CODE TO GEAR AND STRATA

GEAR

75 2-m beam trawl

STRATA

2 previously sampled bottom, river depth >20 ft  
6 previously sampled shore zone, 5< river depth <10 ft  
7 previously unsampled shore zone, 5< river depth <10 ft  
8 previously unsampled shoal, 10< river depth <20 ft

REGION

3 Croton-Haverstraw  
5 West Point  
9 Kingston  
11 Catskill

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE, STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 6,7 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=CROTON-HAVERSTRAW TAXON=BAY ANCHOVY LIFE\_STG=YEARLING -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.00429595	0.00429595	0.05	0.8235
Error	13	1.07841194	0.08295476		
Corrected Total	14	1.08270789			
R-Square		C.V.	Root MSE		CPUE Mean
0.003968		273.6019	0.28801869		0.10526925

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	0.00429595	0.00429595	0.05	0.8235
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	0.00429595	0.00429595	0.05	0.8235

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE, STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 6,7 ON REGION 5,9,11....)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=CROTON-HAVERSTRAM TAXON=STRIPED BASS LIFE\_STG=YOUNG-OF-YEAR -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.44216057	0.44216057	2.33	0.1506
Error	13	2.46367433	0.18951341		
Corrected Total	14	2.90583490			
R-Square		C.V.	Root MSE		CPUE Mean
0.152163		124.5439	0.43533138		0.34954048
Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	0.44216057	0.44216057	2.33	0.1506
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	0.44216057	0.44216057	2.33	0.1506

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE, STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 6,7 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=CROTON-HAVERSTRAW TAXON=WHITE PERCH LIFE\_STG=YOUNG-OF-YEAR -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.00730450	0.00730450	0.06	0.8069
Error	13	1.52639684	0.11741514		
Corrected Total	14	1.53370134			
R-Square		C.V.	Root MSE		CPUE Mean
0.004763		214.3298	0.34265893		0.15987458

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	0.00730450	0.00730450	0.06	0.8069
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	0.00730450	0.00730450	0.06	0.8069

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE\_STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 6,7 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=CROTON-HAVERSTRAW TAXON=WHITE PERCH LIFE\_STG=YEARLING -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.02898826	0.02898826	0.65	0.4346
Error	13	0.57976529	0.04459733		
Corrected Total	14	0.60875355			
R-Square		C.V.	Root MSE		CPUE Mean
	0.047619	392.2323	0.21118080		0.05384075
Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	0.02898826	0.02898826	0.65	0.4346
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	0.02898826	0.02898826	0.65	0.4346



1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE, STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 6,7 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=CROTON-HAVERSTRAW TAXON=WHITE PERCH LIFE\_STG=OLDER -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.10590433	0.10590433	0.99	0.3390
Error	13	1.39711118	0.10747009		
Corrected Total	14	1.50301551			

R-Square	C.V.	Root MSE	CPUE Mean
0.070461	207.1779	0.32782631	0.15823418

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	0.10590433	0.10590433	0.99	0.3390
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	0.10590433	0.10590433	0.99	0.3390

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE, STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 6,7 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=KINGSTON TAXON=WHITE PERCH LIFE\_STG=YOUNG-OF-YEAR -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2.34181662	2.34181662	0.67	0.4456
Error	6	21.09686777	3.51614663		
Corrected Total	7	23.43868439			

R-Square	C.V.	Root MSE	CPUE Mean
0.099912	69.96578	1.87513856	2.68007968

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	2.34181662	2.34181662	0.67	0.4456
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	2.34181662	2.34181662	0.67	0.4456

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 6,7 ON REGION 3,5,9,11....)  
 PROGRAM: FSGMSP7.SAS

----- REGION=KINGSTON TAXON=WHITE PERCH LIFE\_STG=YEARLING -----

General Linear Models Procedure

Dependent Variable: CPUUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.72122641	0.72122641	0.26	0.6258
Error	6	16.39202413	2.73200402		
Corrected Total	7	17.11325054			

R-Square	C.V.	Root MSE	CPUE Mean
0.042144	80.33284	1.65287750	2.05753637

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	0.72122641	0.72122641	0.26	0.6258
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	0.72122641	0.72122641	0.26	0.6258

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE\_STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 6,7 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=KINGSTON TAXON=WHITE PERCH LIFE\_STG=OLDER -----

General Linear Models Procedure

Dependent Variable: CPUUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.04388618	0.04388618	0.03	0.8771
Error	6	10.11466939	1.68577823		
Corrected Total	7	10.15855558			
R-Square		C.V.	Root MSE		CPUE Mean
	0.004320	78.03918	1.29837523		1.66374783
Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	0.04388618	0.04388618	0.03	0.8771
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	0.04388618	0.04388618	0.03	0.8771

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE, STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 6,7 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=CATSKILL TAXON=AMERICAN SHAD LIFE\_STG=YOUNG-OF-YEAR -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.02554969	0.02554969	0.06	0.8179
Error	13	6.01679138	0.46283011		
Corrected Total	14	6.04234107			

R-Square	C.V.	Root MSE	CPUE Mean
0.004228	130.3045	0.68031618	0.52209712

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	0.02554969	0.02554969	0.06	0.8179
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	0.02554969	0.02554969	0.06	0.8179

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE, STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 6,7 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=CATSKILL TAXON=WHITE PERCH LIFE\_STG=YOUNG-OF-YEAR -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	4.29846107	4.29846107	4.17	0.0618
Error	13	13.38477030	1.02959772		
Corrected Total	14	17.68323137			
R-Square		C.V.	Root MSE		CPUE Mean
0.243081		111.8999	1.01469095		0.90678482
Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	4.29846107	4.29846107	4.17	0.0618
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	4.29846107	4.29846107	4.17	0.0618

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE, STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 6,7 ON REGION 3,5,9,11...)  
 PROGRAM: FSGMSP7.SAS

----- REGION=CATSKILL TAXON=WHITE PERCH LIFE\_STG=YEARLING -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	19.48638851	19.48638851	8.13	0.0136
Error	13	31.16216594	2.39708969		
Corrected Total	14	50.64855445			

R-Square	C.V.	Root MSE	CPUE Mean
0.384737	81.30494	1.54825375	1.90425534

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	19.48638851	19.48638851	8.13	0.0136
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	19.48638851	19.48638851	8.13	0.0136

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE, STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 6,7 ON REGION 3,5,9,11...)  
 PROGRAM: FSGMLSP7.SAS

----- REGION=CATSKILL TAXON=WHITE PERCH LIFE\_STG=OLDER -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	3.65910464	3.65910464	4.80	0.0473
Error	13	9.91208826	0.76246833		
Corrected Total	14	13.57119290			

R-Square 0.269623  
 C.V. 0.87319432  
 Root MSE 1.39856437

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	3.65910464	3.65910464	4.80	0.0473
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	3.65910464	3.65910464	4.80	0.0473



1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE, STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11....)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=WEST POINT TAXON=ATLANTIC TOMCOD LIFE\_STG=YOUNG-OF-YEAR -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.45516447	0.45516447	0.22	0.6411
Error	18	36.45092288	2.02505127		
Corrected Total	19	36.90608735			
R-Square		C.V.	Root MSE		CPUE Mean
0.012333		80.53709	1.42304296		1.76694102

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	0.45516447	0.45516447	0.22	0.6411
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	0.45516447	0.45516447	0.22	0.6411

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE, STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11...)  
 PROGRAM: FSGMSP7.SAS

----- REGION=WEST POINT TAXON=BAY ANCHOVY LIFE\_STG=YOUNG-OF-YEAR -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2.38033035	2.38033035	4.20	0.0553
Error	18	10.20554235	0.56697458		
Corrected Total	19	12.58587270			

R-Square	C.V.	Root MSE	CPUE Mean
0.189127	97.46136	0.75297714	0.77259045

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	2.38033035	2.38033035	4.20	0.0553
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	2.38033035	2.38033035	4.20	0.0553

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE\_STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11....)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=WEST POINT TAXON=BAY ANCHOVY LIFE\_STG=YEARLING -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	9.08859190	9.08859190	30.76	0.0001
Error	18	5.31828537	0.29546030		
Corrected Total	19	14.40687727			

R-Square  
0.630851

C.V.  
67.98849

Root MSE  
0.54356260

CPUE Mean  
0.79949205

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	9.08859190	9.08859190	30.76	0.0001
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	9.08859190	9.08859190	30.76	0.0001

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE\_STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=NEST POINT TAXON=STRIPED BASS LIFE\_STG=YOUNG-OF-YEAR -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	1.30274761	1.30274761	3.96	0.0620
Error	18	5.92300056	0.32905559		
Corrected Total	19	7.22574817			

R-Square 0.180292  
 C.V. 179.3504  
 Root MSE 0.57363367  
 CPUE Mean 0.31983972

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	1.30274761	1.30274761	3.96	0.0620
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	1.30274761	1.30274761	3.96	0.0620

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE, STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2, 8 ON REGION 3, 5, 9, 11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=WEST POINT TAXON=STRIPED BASS LIFE\_STG=OLDER -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.02355833	0.02355833	1.00	0.3306
Error	18	0.42405000	0.02355833		
Corrected Total	19	0.44760834			
R-Square		C.V.	Root MSE		CPUE Mean
0.052632		447.2136	0.15348724		0.03432079
Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	0.02355833	0.02355833	1.00	0.3306
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	0.02355833	0.02355833	1.00	0.3306

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=WEST POINT TAXON=WHITE PERCH LIFE\_STG=YOUNG-OF-YEAR -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	18.78526313	18.78526313	12.10	0.0027
Error	18	27.94378992	1.55243277		
Corrected Total	19	46.72905305			

R-Square	C.V.	Root MSE	CPUE Mean
0.402004	85.99324	1.24596660	1.44891228

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	18.78526313	18.78526313	12.10	0.0027
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	18.78526313	18.78526313	12.10	0.0027

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2, 8 ON REGION 3, 5, 9, 11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=WEST POINT TAXON=WHITE PERCH LIFE\_STG=YEARLING -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	8.81769653	8.81769653	4.59	0.0460
Error	18	34.54670207	1.91926123		
Corrected Total	19	43.36439859			

R-Square 0.203340  
 C.V. 144.7786  
 Root MSE 1.38537404  
 CPUE Mean 0.95689164

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	8.81769653	8.81769653	4.59	0.0460
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	8.81769653	8.81769653	4.59	0.0460

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11....)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=WEST POINT TAXON=WHITE PERCH LIFE\_STG=OLDER -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	14.74353798	14.74353798	6.99	0.0165
Error	18	37.95307623	2.10850423		
Corrected Total	19	52.69661420			
R-Square		C.V.	Root MSE		CPUE Mean
	0.279782	95.40082	1.45206895		1.52207181

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	14.74353798	14.74353798	6.99	0.0165
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	14.74353798	14.74353798	6.99	0.0165



1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11...)  
 PROGRAM: FGLMSP7.SAS

----- REGION=KINGSTON TAXON=WHITE PERCH LIFE\_STG=YOUNG-OF-YEAR -----

General Linear Models Procedure

Dependent Variable: CPUUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.62862603	0.62862603	0.60	0.4504
Error	18	19.00921387	1.05606744		
Corrected Total	19	19.63783990			
		R-Square			
		0.032011	C.V.	Root MSE	CPUE Mean
			68.61772	1.02765142	1.49764734
Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	0.62862603	0.62862603	0.60	0.4504
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	0.62862603	0.62862603	0.60	0.4504

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=KINGSTON TAXON=WHITE PERCH LIFE\_STG=YEARLING -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	7.70138932	7.70138932	8.58	0.0090
Error	18	16.16058498	0.89781028		
Corrected Total	19	23.86197430			
R-Square		C.V.	Root MSE		CPUE Mean
0.322747		43.61232	0.94752851		2.17261662
Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	7.70138932	7.70138932	8.58	0.0090
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	7.70138932	7.70138932	8.58	0.0090

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE\_STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLNSP7.SAS

----- REGION=KINGSTON TAXON=WHITE PERCH LIFE\_STG=OLDER -----

General Linear Models Procedure

Dependent Variable: CPUUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	6.56554150	6.56554150	11.52	0.0032
Error	18	10.25484562	0.56971365		
Corrected Total	19	16.82038712			
R-Square		C.V.	Root MSE		CPUE Mean
0.390332		21.24785	0.75479378		3.55232935

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	6.56554150	6.56554150	11.52	0.0032
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	6.56554150	6.56554150	11.52	0.0032

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION TAXON, LIFE STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11....)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=CATSKILL TAXON=AMERICAN SHAD LIFE\_STG=YOUNG-OF-YEAR -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2.00860530	2.00860530	4.20	0.0483
Error	34	16.27024107	0.47853650		
Corrected Total	35	18.27884637			
R-Square		C.V.	Root MSE		CPUE Mean
0.109887		114.4533	0.69176333		0.60440689
Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	2.00860530	2.00860530	4.20	0.0483
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	2.00860530	2.00860530	4.20	0.0483

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE, STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11....)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=CATSKILL TAXON=WHITE PERCH LIFE\_STG=YOUNG-OF-YEAR -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.75806841	0.75806841	1.88	0.1790
Error	34	13.69204310	0.40270715		
Corrected Total	35	14.45011151			
R-Square		C.V.	Root MSE		CPUE Mean
0.052461		267.3393	0.63459211		0.23737330

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	0.75806841	0.75806841	1.88	0.1790
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	0.75806841	0.75806841	1.88	0.1790

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE\_STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=CATSKILL TAXON=WHITE PERCH LIFE\_STG=YEARLING -----

General Linear Models Procedure

Dependent Variable: CPUUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	1.54304620	1.54304620	0.97	0.3326
Error	34	54.30494892	1.59720438		
Corrected Total	35	55.84799513			
R-Square		C.V.	Root MSE		CPUE Mean
0.027629		104.9780	1.26380552		1.20387629
Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	1.54304620	1.54304620	0.97	0.3326
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	1.54304620	1.54304620	0.97	0.3326

1986 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11....)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=CATSKILL TAXON=WHITE PERCH LIFE\_STG=OLDER -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2.55366304	2.55366304	2.26	0.1423
Error	34	38.48756106	1.13198709		
Corrected Total	35	41.04122410			
R-Square		C.V.	Root MSE		CPUE Mean
	0.062222	53.26741	1.06394882		1.99737279

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	2.55366304	2.55366304	2.26	0.1423
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	2.55366304	2.55366304	2.26	0.1423

----- TAXON=AMERICAN SHAD -----

General Linear Models Procedure

Dependent Variable: CPU

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.73772303	0.73772303	2.69	0.1059
Error	65	17.83800077	0.27443078		
Corrected Total	66	18.57572380			

R-Square	C.V.	Root MSE	CPUE Mean
0.039714	183.0886	0.52386141	0.28612460

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	0.73772303	0.73772303	2.69	0.1059
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	0.73772303	0.73772303	2.69	0.1059



1987 FALLS SHOALS SPECIAL STUDY  
 PROGRAM: FSGLMSP5.SAS

TAXON=BAY ANCHOVY

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	0.23672278	0.23672278	0.25	0.6156
Error	65	60.44553689	0.92993134		
Corrected Total	66	60.68225967			
R-Square		C.V.	Root MSE		CPUE Mean
0.003901		125.9075	0.96432948		0.76590325
Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	0.23672278	0.23672278	0.25	0.6156
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	0.23672278	0.23672278	0.25	0.6156

TAXON=STRIPED BASS

General Linear Models Procedure

Dependent Variable: CPUUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	4.90695200	4.90695200	4.91	0.0302
Error	65	64.97541984	0.99962184		
Corrected Total	66	69.88237184			

R-Square	C.V.	Root MSE	CPUE Mean
0.070217	105.7025	0.99981090	0.94587272

Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	4.90695200	4.90695200	4.91	0.0302
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	4.90695200	4.90695200	4.91	0.0302

Student-Newman-Keuls test for variable: CPUUE

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 65 MSE= 0.999622  
 WARNING: Cell sizes are not equal.  
 Harmonic Mean of cell sizes= 33.49254

Number of Means 2  
 Critical Range 0.4879391

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	STRATA
A	1.212	34	8
B	0.671	33	2

1987 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE, STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=KINGSTON TAXON=WHITE PERCH LIFE\_STG=YOUNG-OF-YEAR -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	10.32657621	10.32657621	8.65	0.0047
Error	58	69.26544873	1.19423187		
Corrected Total	59	79.59202495			

R-Square 0.129744  
 C.V. 60.93627  
 Root MSE 1.09280917  
 CPUE Mean 1.79336404

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	10.32657621	10.32657621	8.65	0.0047
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	10.32657621	10.32657621	8.65	0.0047

1987 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=KINGSTON TAXON=WHITE PERCH LIFE\_STG=YOUNG-OF-YEAR -----

General Linear Models Procedure

Student-Newman-Keuls test for variable: CPUE

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 58 MSE= 1.194232  
 WARNING: Cell sizes are not equal.  
 Harmonic Mean of cell sizes= 29.7

Number of Means 2  
 Critical Range 0.5676531

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	STRATA
A	2.252	27	8
B	1.418	33	2

1987 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE\_STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLMSP7.SAS

----- REGION=KINGSTON TAXON=WHITE PERCH LIFE\_STG=YEARLING -----

General Linear Models Procedure

Dependent Variable: CPUE						
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F	
Model	1	10.94009026	10.94009026	6.36	0.0144	
Error	58	99.72666230	1.71942521			
Corrected Total	59	110.66675256				
R-Square		C.V.	Root MSE			CPUE Mean
	0.098856	64.01492	1.31126855			2.04837955
Source	DF	Type I SS	Mean Square	F Value	Pr > F	
STRATA	1	10.94009026	10.94009026	6.36	0.0144	
Source	DF	Type III SS	Mean Square	F Value	Pr > F	
STRATA	1	10.94009026	10.94009026	6.36	0.0144	

Student-Newman-Keuls test for variable: CPUE  
 NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 58 MSE= 1.719425  
 WARNING: Cell sizes are not equal.  
 Harmonic Mean of cell sizes= 29.7

Number of Means 2  
 Critical Range 0.6811305  
 Means with the same letter are not significantly different.

SNK Grouping	Mean	N	STRATA
A	2.520	27	8
B	1.662	33	2

1987 FALL SHOAL SPECIAL STUDY (MANOVA BY REGION, TAXON, LIFE\_STG)  
 (SELECT BEAM TRAWL GEAR 75 & STRATA 2,8 ON REGION 3,5,9,11...)  
 PROGRAM: FSGLNSP7.SAS

----- REGION=KINGSTON TAXON=WHITE PERCH LIFE\_STG=OLDER -----

General Linear Models Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2.39529738	2.39529738	1.84	0.1804
Error	58	75.56635021	1.30286811		
Corrected Total	59	77.96164758			
R-Square		C.V.	Root MSE		CPUE Mean
0.030724		38.32628	1.14143248		2.97819804

Source	DF	Type I SS	Mean Square	F Value	Pr > F
STRATA	1	2.39529738	2.39529738	1.84	0.1804
Source	DF	Type III SS	Mean Square	F Value	Pr > F
STRATA	1	2.39529738	2.39529738	1.84	0.1804

Student-Newman-Keuls test for variable: CPUE

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 58 MSE= 1.302868  
 WARNING: Cell sizes are not equal.  
 Harmonic Mean of cell sizes= 29.7

Number of Means 2  
 Critical Range 0.5929102

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	STRATA
A	3.199	27	8
A	2.797	33	2

APPENDIX H

ICHTHYOPLANKTON MEAN CPUE:  
ALL SPECIES AND LIFE STAGES BY GEAR AND STRATUM  
COLLECTED IN THE 1987 SPECIAL STUDIES

American shad study  
Catskill region, 11-29 May

Bay Anchovy study  
Poughkeepsie region, 8-26 June

Morone study  
Tappan Zee region, 8-26 June

KEY CODE TO GEAR AND STRATA

GEAR

- 64 1-m<sup>2</sup> net mounted on an epibenthic sled
- 65 1-m<sup>2</sup> tucker trawl
- 76 1-m<sup>2</sup> pushnet

STRATA

- 1 previously sampled shoal, 10 ≤ river depth ≤ 20 ft
- 2 previously sampled bottom, river depth > 20 ft
- 5 previously unsampled beach, 1 ≤ river depth ≤ 5 ft
- 6 previously sampled shore zone, 5 < river depth < 10 ft
- 7 previously unsampled shore zone, 5 < river depth < 10 ft
- 8 previously unsampled shoal, 10 ≤ river depth ≤ 20 ft



1987 AM.SHAD ICHTHYOPLANKTON SPECIAL STUDIES (SS87SHAD)  
 CPUE (NO.#1000/CU.M)  
 PROGRAM LRCHKSP5.SAS

----- STRATA=2 GEAR=64 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
1	ALEWIFE	0.00	0.00	0.00	40	0
2	BAY ANCHOVY	9.13	0.00	0.00	40	0
3	AMERICAN SHAD	828.14	35.92	62.80	40	0
4	BROWN BULLHEAD	0.00	0.00	0.00	40	0
5	AMERICAN EEL	0.00	0.00	0.00	40	0
6	HOGCHOKER	0.00	0.00	0.00	40	0
7	TESSELATED DARTER	0.00	37.02	0.87	40	0
8	BLUEBACK HERRING	0.00	0.00	0.00	40	0
9	WHITE SUCKER	0.00	0.00	0.00	40	0
10	RAINBOW SMELT	0.00	0.00	25.15	40	0
11	SPOTTAIL SHINER	0.00	0.00	0.00	40	0
12	STRIPED BASS	4.61	0.23	0.61	40	0
13	FOURSPINE STICKLEBACK	0.00	0.00	0.00	40	0
14	ATLANTIC TOMCOD	0.00	0.00	0.00	40	0
15	WHITE CATFISH	0.00	0.00	0.00	40	0
16	WHITE PERCH	2670.74	61.81	308.18	40	0
17	YELLOW PERCH	0.00	1.34	1.26	40	0
18	ALOSA SP.	11940.82	105.61	1079.76	40	0
19	CYPRINIDAE UNIDENTIFIED	0.45	25.50	0.23	40	0
20	MORONE SP.	0.00	0.00	0.00	40	0
21	CENTRARCHIDAE UNIDENTIFIED	0.00	0.00	0.15	40	0
22	UNIDENTIFIABLE	0.25	0.16	11.88	40	0
23	PERCIDAE UNIDENTIFIED	0.00	0.00	0.00	40	0
24	GASTEROSTEIDAE UNIDENTIFIED	0.00	0.00	0.00	40	0

1987 AM. SHAD ICHTHYOPLANKTON SPECIAL STUDIES (SS87SHAD)  
 CPUE (NO.\*1000/CU.M)  
 PROGRAM LRCHKSP5.SAS

----- STRATA=5 GEAR=76 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
25	ALEMIFE	0.00	0.00	0.00	50	0
26	BAY ANCHOVY	0.00	0.00	0.00	50	0
27	AMERICAN SHAD	36.59	28.00	201.07	50	0
28	BROWN BULLHEAD	0.00	0.00	0.00	50	0
29	AMERICAN EEL	0.00	0.00	0.00	50	0
30	HOGCHOKER	0.00	0.00	0.00	50	0
31	TESSELATED DARTER	0.00	531.08	56.81	50	0
32	BLUEBACK HERRING	0.00	0.00	0.00	50	0
33	WHITE SUCKER	0.00	0.00	0.07	50	0
34	RAINBOW SMELT	0.00	0.00	34.65	50	0
35	SPOTTAIL SHINER	0.00	0.00	0.00	50	0
36	STRIPED BASS	0.35	0.74	0.62	50	0
37	FOURSPINE STICKLEBACK	0.00	0.00	0.00	50	0
38	ATLANTIC TOMCOD	0.00	0.00	0.00	50	0
39	WHITE CATFISH	0.00	0.00	0.00	50	0
40	WHITE PERCH	80.57	88.84	325.94	50	0
41	YELLOW PERCH	0.00	3.01	2.45	50	0
42	ALOSA SP.	48.53	377.40	3357.24	50	0
43	CYPRINIDAE UNIDENTIFIED	0.00	34.02	7.20	50	0
44	MORONE SP.	0.00	0.00	0.00	50	0
45	CENTRARCHIDAE UNIDENTIFIED	0.00	0.00	0.27	50	0
46	UNIDENTIFIABLE	0.00	0.00	15.43	50	0
47	PERCIDAE UNIDENTIFIED	0.00	0.00	0.00	50	0
48	GASTEROSTEIDAE UNIDENTIFIED	0.00	0.00	0.00	50	0

1987 AM. SHAD ICTHYOPLANKTON SPECIAL STUDIES (SSB7SHAD)  
 CPUE (NO.\*1000/CU.M)  
 PROGRAM LRCHKSP5.SAS

----- STRATA=7 GEAR=64 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
49	ALEMIFE	0.00	0.00	0.00	25	0
50	BAY ANCHOVY	0.00	0.00	0.00	25	0
51	AMERICAN SHAD	45.79	41.48	113.62	25	0
52	BROWN BULLHEAD	0.00	0.00	0.00	25	0
53	AMERICAN EEL	0.00	0.00	0.00	25	0
54	HOGCHOKER	0.00	0.00	0.00	25	0
55	TESSELATED DARTER	0.00	242.77	10.85	25	0
56	BLUEBACK HERRING	0.00	0.00	0.00	25	0
57	WHITE SUCKER	0.00	0.00	0.00	25	0
58	RAINBOW SMELT	0.00	0.00	24.39	25	0
59	SPOTTAIL SHINER	0.00	0.00	0.00	25	0
60	STRIPED BASS	2.03	0.45	0.45	25	0
61	FOURSPINE STICKLEBACK	0.00	0.00	0.00	25	0
62	ATLANTIC TOMCOD	0.00	0.00	0.00	25	0
63	WHITE CATFISH	0.00	0.00	0.00	25	0
64	WHITE PERCH	167.55	35.81	155.55	25	0
65	YELLOW PERCH	0.00	1.16	1.30	25	0
66	ALOSA SP.	847.91	270.34	1140.23	25	0
67	CYPRINIDAE UNIDENTIFIED	0.00	34.72	2.32	25	0
68	MORONE SP.	0.00	0.00	0.00	25	0
69	CENTRARCHIDAE UNIDENTIFIED	0.00	0.00	0.34	25	0
70	UNIDENTIFIABLE	0.00	0.00	0.84	25	0
71	PERCIDAE UNIDENTIFIED	0.00	0.23	0.00	25	0
72	GASTEROSTEIDAE UNIDENTIFIED	0.00	0.00	0.00	25	0

1987 AM.SHAD ICHTHYOPLANKTON SPECIAL STUDIES (SS87SHAD)  
 CPUE (NO.\*1000/CU.M)  
 PROGRAM LRCHKSP5.SAS

----- STRATA=7 GEAR=76 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
73	ALEWIFE	0.00	0.00	0.00	25	0
74	GAY ANCHOVY	0.00	0.00	0.00	25	0
75	AMERICAN SHAD	24.47	21.98	249.56	25	0
76	BROWN BULLHEAD	0.00	0.00	0.00	25	0
77	AMERICAN EEL	0.00	0.00	0.00	25	0
78	HOGCHOKER	0.00	0.00	0.00	25	0
79	TESSELATED DARTER	0.00	535.83	39.10	25	0
80	BLUEBACK HERRING	0.00	0.00	0.00	25	0
81	WHITE SUCKER	0.00	0.00	0.16	25	0
82	RAINBOW SMELT	0.00	0.00	19.63	25	0
83	SPOTTAIL SHINER	0.00	0.00	0.00	25	0
84	STRIPED BASS	0.69	0.16	0.13	25	0
85	FOURSPINE STICKLEBACK	0.00	0.00	0.00	25	0
86	ATLANTIC TOMCOD	0.00	0.00	0.00	25	0
87	WHITE CATFISH	0.00	0.00	0.00	25	0
88	WHITE PERCH	89.38	107.68	435.46	25	0
89	YELLOW PERCH	0.00	2.08	2.13	25	0
90	ALOSA SP.	222.30	679.39	3848.80	25	0
91	CYPRINIDAE UNIDENTIFIED	0.00	67.66	10.91	25	0
92	MORONE SP.	0.00	0.00	0.00	25	0
93	CENTRARCHIDAE UNIDENTIFIED	0.00	0.00	0.26	25	0
94	UNIDENTIFIABLE	0.00	0.00	9.09	25	0
95	PERCIDAE UNIDENTIFIED	0.00	0.00	0.00	25	0
96	GASTEROSTEIDAE UNIDENTIFIED	0.00	0.00	0.00	25	0

1987 AM. SHAD ICHTHYOPLANKTON SPECIAL STUDIES (SS87SHAD)  
 CPU# (NO.\*1000/CU.M)  
 PROGRAM LRCHKSP5.SAS

----- STRATA=8 GEAR=64 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
97	ALEWIFE	0.00	0.00	0.00	33	0
98	BAY ANCHOVY	0.00	0.00	0.00	33	0
99	AMERICAN SHAD	167.98	51.64	57.93	33	0
100	BROWN BULLHEAD	0.00	0.00	0.00	33	0
101	AMERICAN EEL	0.00	0.00	0.00	33	0
102	HOGCHOKER	0.00	0.00	0.00	33	0
103	TESSELATED DARTER	0.00	111.85	26.67	33	0
104	BLUEBACK HERRING	0.00	0.00	0.00	33	0
105	WHITE SUCKER	0.00	0.00	0.00	33	0
106	RAINBOW SMELT	0.00	0.00	10.66	33	0
107	SPOTTAIL SHINER	0.00	0.00	0.00	33	0
108	STRIPED BASS	5.42	1.38	0.16	33	0
109	FOURSPINE STICKLEBACK	0.00	0.00	0.00	33	0
110	ATLANTIC TOMCOD	0.00	0.00	0.00	33	0
111	WHITE CATFISH	0.00	0.00	0.00	33	0
112	WHITE PERCH	852.28	72.48	175.40	33	0
113	YELLOW PERCH	0.00	1.67	1.57	33	0
114	ALOSA SP.	1450.70	410.08	889.27	33	0
115	CYPRINIDAE UNIDENTIFIED	0.00	21.98	0.34	33	0
116	MORONE SP.	0.00	0.00	0.00	33	0
117	CENTRARCHIDAE UNIDENTIFIED	0.00	0.08	0.35	33	0
118	UNIDENTIFIABLE	0.00	0.09	0.00	33	0
119	PERCIDAE UNIDENTIFIED	0.00	0.00	0.00	33	0
120	GASTEROSTEIDAE UNIDENTIFIED	0.00	0.08	0.00	33	0

1987 AM. SHAD ICHTHYOPLANKTON SPECIAL STUDIES (SS87SHAD)  
 CPUE (NO. \*1000/CU.M)  
 PROGRAM LRCHKSP5.SAS

----- STRATA=8 GEAR=65 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
121	ALEWIFE	0.00	0.00	0.00	67	0
122	BAY ANCHOVY	0.00	0.00	0.00	67	0
123	AMERICAN SHAD	186.99	48.66	54.90	67	0
124	BROWN BULLHEAD	0.00	0.00	0.00	67	0
125	AMERICAN EEL	0.00	0.00	0.00	67	0
126	HOGCHOKER	0.00	0.00	0.00	67	0
127	TESSELATED DARTER	0.00	125.74	12.08	67	0
128	BLUEBACK HERRING	0.00	0.00	0.00	67	0
129	WHITE SUCKER	0.00	0.00	0.00	67	0
130	RAINBOW SMELT	0.00	0.00	15.21	67	0
131	SPOTTAIL SHIMER	0.00	0.00	0.00	67	0
132	STRIPED BASS	11.83	21.07	8.49	67	0
133	FOURSPINE STICKLEBACK	0.00	0.00	0.00	67	0
134	ATLANTIC TOMCOD	0.00	0.00	0.00	67	0
135	WHITE CATFISH	0.00	0.00	0.00	67	0
136	WHITE PERCH	435.03	107.15	439.54	67	0
137	YELLOW PERCH	0.00	1.77	1.76	67	0
138	ALOSA SP.	442.61	216.64	2253.27	67	0
139	CYPRINIDAE UNIDENTIFIED	0.09	19.03	1.03	67	0
140	MORONE SP.	0.00	0.00	0.00	67	0
141	CENTRARCHIDAE UNIDENTIFIED	0.00	0.00	0.37	67	0
142	UNIDENTIFIABLE	0.04	0.05	0.29	67	0
143	PERCIDAE UNIDENTIFIED	0.00	0.00	0.00	67	0
144	GASTEROSTEIDAE UNIDENTIFIED	0.00	0.00	0.00	67	0

1987 BAY ANCHOVY ICHTHYOPLANKTON SPECIAL STUDIES (SS87ANCH)  
 CPUE (NO.\*1000/CU.M)  
 PROGRAM LRCHKSP5.SAS

----- STRATA=1 GEAR=64 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
1	ALEWIFE	0.00	0.00	0.00	16	0
2	BAY ANCHOVY	2533.87	0.20	1087.52	16	0
3	BLUEFISH	0.00	0.00	0.00	16	0
4	AMERICAN EEL	0.00	0.00	0.00	16	0
5	HOGCHOKER	54.78	0.00	0.00	16	0
6	ATLANTIC MENHADEN	0.00	0.00	0.00	16	0
7	ATLANTIC SILVERSIDE	0.00	0.00	0.00	16	0
8	RAINBOW SMELT	0.00	0.00	1.52	16	0
9	STRIPED BASS	0.00	0.00	142.45	16	0
10	ATLANTIC TOMCOD	0.00	0.00	0.00	16	0
11	WHITE PERCH	0.00	0.00	0.59	16	0
12	NORTHERN PIPEFISH	0.00	0.00	0.00	16	0
13	ALOSA SP.	0.00	0.00	0.00	16	0
14	CYPRINIDAE UNIDENTIFIED	0.00	0.00	0.00	16	0
15	WINTER FLOUNDER	0.00	0.00	0.19	16	0
16	LONGEAR SUNFISH	0.00	0.00	0.00	16	0
17	SUMMER FLOUNDER	0.00	0.00	0.00	16	0
18	WINDOWPANE	0.00	0.00	0.38	16	0
19	GOBIIDAE-GOBIES	0.00	0.00	13.98	16	0
20	ATHERINIDAE SP.	0.00	0.00	4.77	16	0
21	BOTHIDAE UNIDENTIFIED	0.00	0.00	0.00	16	0
22	SCIAENIDAE	0.00	0.00	0.00	16	0

----- STRATA=1 GEAR=65 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
23	ALEWIFE	0.00	0.00	0.00	16	0
24	BAY ANCHOVY	8290.25	5.10	1770.54	16	0
25	BLUEFISH	0.00	0.00	0.00	16	0
26	AMERICAN EEL	0.00	0.00	0.00	16	0
27	HOGCHOKER	20.15	2.68	0.00	16	0
28	ATLANTIC MENHADEN	0.00	0.00	0.00	16	0
29	ATLANTIC SILVERSIDE	0.00	0.00	0.00	16	0
30	RAINBOW SMELT	0.00	0.00	0.22	16	0
31	STRIPED BASS	0.00	0.00	15.50	16	0
32	ATLANTIC TOMCOD	0.00	0.00	0.00	16	0
33	WHITE PERCH	0.00	0.00	0.00	16	0
34	NORTHERN PIPEFISH	0.00	0.00	0.00	16	0
35	ALOSA SP.	0.00	0.00	0.00	16	0
36	CYPRINIDAE UNIDENTIFIED	0.00	0.00	0.00	16	0
37	WINTER FLOUNDER	0.00	0.00	0.00	16	0
38	LONGEAR SUNFISH	0.00	0.00	0.00	16	0
39	SUMMER FLOUNDER	0.00	0.00	0.00	16	0
40	WINDOWPANE	0.00	0.00	0.00	16	0
41	GOBIIDAE-GOBIES	0.00	0.00	6.59	16	0
42	ATHERINIDAE SP.	0.00	0.63	8.11	16	0
43	BOTHIDAE UNIDENTIFIED	0.00	0.00	0.00	16	0
44	SCIAENIDAE	0.00	0.00	0.00	16	0

1987 BAY ANCHOVY ICHTHYOPLANKTON SPECIAL STUDIES (SSB7ANCH)  
 CPUE (NO.\*1000/CU.M)  
 PROGRAM LRCHKSP5.SAS

----- STRATA=5 GEAR=76 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
45	ALEWIFE	0.00	0.00	0.00	15	0
46	BAY ANCHOVY	<del>566.86</del>	<del>0.21</del>	940.15	15	0
47	BLUEFISH	0.00	0.00	0.00	15	0
48	AMERICAN EEL	0.00	0.00	0.00	15	0
49	HOGCHOKER	1.62	0.20	2.89	15	0
50	ATLANTIC MENHADEN	0.00	0.00	0.00	15	0
51	ATLANTIC SILVERSIDE	0.00	0.00	0.00	15	0
52	RAINBOW SMELT	0.00	0.00	0.00	15	0
53	STRIPED BASS	0.00	0.00	5.81	15	0
54	ATLANTIC TOMCOD	0.00	0.00	0.00	15	0
55	WHITE PERCH	0.00	0.00	0.00	15	0
56	NORTHERN PIPEFISH	0.00	0.00	0.00	15	0
57	ALOSA SP.	0.00	0.00	0.00	15	0
58	CYPRINIDAE UNIDENTIFIED	0.00	0.00	0.21	15	0
59	WINTER FLOUNDER	0.00	0.00	0.00	15	0
60	LONGEAR SUNFISH	0.00	0.00	0.00	15	0
61	SUMMER FLOUNDER	0.00	0.00	0.00	15	0
62	WINDOWPANE	0.00	0.00	0.00	15	0
63	GOBLIDAE-GOBIES	0.00	0.00	7.18	15	0
64	ATHERINIDAE SP.	0.00	0.65	7.75	15	0
65	BOTHIDAE UNIDENTIFIED	0.00	0.00	0.00	15	0
66	SCIAENIDAE	0.00	0.00	0.00	15	0

----- STRATA=7 GEAR=64 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
67	ALEWIFE	0.00	0.00	0.00	8	0
68	BAY ANCHOVY	<del>420.24</del>	<del>0.16</del>	<del>673.98</del>	8	0
69	BLUEFISH	0.00	0.00	0.00	8	0
70	AMERICAN EEL	0.00	0.00	0.00	8	0
71	HOGCHOKER	0.00	0.00	1.08	8	0
72	ATLANTIC MENHADEN	0.00	0.00	0.00	8	0
73	ATLANTIC SILVERSIDE	0.00	0.00	0.00	8	0
74	RAINBOW SMELT	0.00	0.00	0.70	8	0
75	<del>STRIPED BASS</del>	<del>0.00</del>	<del>0.00</del>	<del>126.42</del>	8	0
76	ATLANTIC TOMCOD	0.00	0.00	0.00	8	0
77	WHITE PERCH	0.00	0.00	0.00	8	0
78	NORTHERN PIPEFISH	0.00	0.00	0.00	8	0
79	ALOSA SP.	0.00	0.00	0.34	8	0
80	CYPRINIDAE UNIDENTIFIED	0.00	0.00	0.00	8	0
81	WINTER FLOUNDER	0.00	0.00	0.00	8	0
82	LONGEAR SUNFISH	0.00	0.00	0.00	8	0
83	SUMMER FLOUNDER	0.00	0.00	0.00	8	0
84	WINDOWPANE	0.00	0.00	0.00	8	0
85	GOBLIDAE-GOBIES	0.00	0.00	0.00	8	0
86	ATHERINIDAE SP.	0.00	0.36	4.27	8	0
87	BOTHIDAE UNIDENTIFIED	0.00	0.00	2.92	8	0
88	SCIAENIDAE	0.00	0.00	0.00	8	0



1987 BAY ANCHOVY ICHTHYOPLANKTON SPECIAL STUDIES (SS87ANCH)  
 CPUE (NO.\*1000/CU.M)  
 PROGRAM LRCHKSP5.SAS

----- STRATA=7 GEAR=76 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
89	ALEWIFE	0.00	0.00	0.00	9	0
90	<del>BAY ANCHOVY</del>	390.9E	7.37	818.85	9	0
91	BLUEFISH	0.00	0.00	0.00	9	0
92	AMERICAN EEL	0.00	0.00	0.00	9	0
93	HOGCHOKER	0.00	0.72	3.20	9	0
94	ATLANTIC MENHADEN	0.00	0.00	0.00	9	0
95	ATLANTIC SILVERSIDE	0.00	0.00	0.00	9	0
96	RAINBOW SMELT	0.00	0.00	0.00	9	0
97	STRIPED BASS	0.00	0.00	3.82	9	0
98	ATLANTIC TOMCOD	0.00	0.00	0.00	9	0
99	WHITE PERCH	0.00	0.00	0.00	9	0
100	NORTHERN PIPEFISH	0.00	0.00	0.00	9	0
101	ALOSA SP.	0.00	0.00	0.00	9	0
102	CYPRINIDAE UNIDENTIFIED	0.00	0.00	0.00	9	0
103	WINTER FLOUNDER	0.00	0.00	0.00	9	0
104	LONGEAR SUNFISH	0.00	0.00	0.00	9	0
105	SUMMER FLOUNDER	0.00	0.00	0.00	9	0
106	WINDOWPANE	0.00	0.00	0.00	9	0
107	Gobiidae-GOBIES	0.00	0.00	0.00	9	0
108	ATHERINIDAE SP.	0.00	0.35	9.00	9	0
109	BOTHIDAE UNIDENTIFIED	0.00	0.34	10.76	9	0
110	SCIAENIDAE	0.00	0.00	0.00	9	0

1987 MORONE ICTHYOPLANKTON SPECIAL STUDIES (SS87MORO)  
 CPUUE (NO.\*1000/CU.M)  
 PROGRAM LRCHKSP5.SAS

----- STRATA=2 GEAR=64 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
1	ALEWIFE	0.00	0.00	0.00	10	0
2	BAY ANCHOVY	0.00	0.00	0.00	10	0
3	AMERICAN SHAD	0.00	0.00	0.27	10	0
4	BROWN BULLHEAD	0.00	0.00	0.00	10	0
5	AMERICAN EEL	0.00	0.00	0.00	10	0
6	HOGCHOKER	0.00	0.00	0.00	10	0
7	TESSELATED DARTER	0.00	0.84	0.00	10	0
8	ATLANTIC MENHADEN	0.00	0.27	0.00	10	0
9	BLUEBACK HERRING	0.00	0.00	0.00	10	0
10	RAINBOW SMELT	0.00	0.00	8.43	10	0
11	SPOTTAIL SHINER	0.00	0.00	0.00	10	0
12	STRIPED BASS	8.97	2.88	409.97	10	0
13	ATLANTIC TOMCOD	0.00	0.00	0.00	10	0
14	WHITE PERCH	254.13	1.95	911.78	10	0
15	ALOSA SP.	0.00	0.28	210.92	10	0
16	CYPRINIDAE UNIDENTIFIED	0.00	0.00	0.00	10	0
17	MORONE SP.	0.00	0.00	134.59	10	0
18	CENTRARCHIDAE UNIDENTIFIED	0.00	0.00	0.30	10	0
19	UNIDENTIFIABLE	0.00	0.00	17.55	10	0

----- STRATA=5 GEAR=76 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
20	ALEWIFE	0.00	0.00	0.00	18	0
21	BAY ANCHOVY	0.00	0.00	0.00	18	0
22	AMERICAN SHAD	0.00	0.00	1.43	18	0
23	BROWN BULLHEAD	0.00	0.00	0.00	18	0
24	AMERICAN EEL	0.00	0.00	0.00	18	0
25	HOGCHOKER	0.00	0.00	0.00	18	0
26	TESSELATED DARTER	0.00	4.15	1.02	18	0
27	ATLANTIC MENHADEN	0.00	0.00	0.00	18	0
28	BLUEBACK HERRING	0.00	0.00	0.00	18	0
29	RAINBOW SMELT	0.00	0.00	6.84	18	0
30	SPOTTAIL SHINER	0.00	0.00	0.00	18	0
31	STRIPED BASS	0.38	12.13	321.66	18	0
32	ATLANTIC TOMCOD	0.00	0.00	0.00	18	0
33	WHITE PERCH	23.43	1.57	104.71	18	0
34	ALOSA SP.	0.00	0.00	929.72	18	0
35	CYPRINIDAE UNIDENTIFIED	1.88	2.33	5.66	18	0
36	MORONE SP.	0.00	0.00	27.35	18	0
37	CENTRARCHIDAE UNIDENTIFIED	0.00	0.00	0.17	18	0
38	UNIDENTIFIABLE	0.00	0.00	1.43	18	0

1987 MORONE ICTHYOPLANKTON SPECIAL STUDIES (SS87MORO)  
 CPUE (NO.\*1000/CU.M)  
 PROGRAM LRCHKSP5.SAS

----- STRATA=7 GEAR=64 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
39	ALEWIFE	0.00	0.00	0.00	9	0
40	BAY ANCHOVY	0.00	0.00	0.00	9	0
41	AMERICAN SHAD	0.00	0.00	5.18	9	0
42	BROWN BULLHEAD	0.00	0.00	0.00	9	0
43	AMERICAN EEL	0.00	0.00	0.00	9	0
44	HOGCHOKER	0.00	0.00	0.00	9	0
45	TESSELATED DARTER	0.00	30.30	13.90	9	0
46	ATLANTIC MENHADEN	0.00	0.00	0.00	9	0
47	BLUEBACK HERRING	0.00	0.00	0.00	9	0
48	RAINBOW SMELT	0.00	0.00	3.46	9	0
49	SPOTTAIL SHINER	0.00	0.00	0.00	9	0
50	STRIPED BASS	3.67	4.95	3093.24	9	0
51	ATLANTIC TOMCOD	1.24	2.70	0.00	9	0
52	WHITE PERCH	0.00	0.00	1381.59	9	0
53	ALOSA SP.	0.00	0.00	962.92	9	0
54	CYPRINIDAE UNIDENTIFIED	0.00	68.47	15.18	9	0
55	MORONE SP.	0.00	0.00	178.06	9	0
56	CENTRARCHIDAE UNIDENTIFIED	0.31	0.00	1.05	9	0
57	UNIDENTIFIABLE	0.00	0.00	0.99	9	0

----- STRATA=7 GEAR=76 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
58	ALEWIFE	0.00	0.00	0.00	9	0
59	BAY ANCHOVY	0.00	0.00	0.00	9	0
60	AMERICAN SHAD	0.00	0.00	2.55	9	0
61	BROWN BULLHEAD	0.00	0.00	0.00	9	0
62	AMERICAN EEL	0.00	0.00	0.00	9	0
63	HOGCHOKER	0.00	0.00	0.00	9	0
64	TESSELATED DARTER	0.00	26.95	2.48	9	0
65	ATLANTIC MENHADEN	0.00	0.00	0.00	9	0
66	BLUEBACK HERRING	0.00	0.00	0.00	9	0
67	RAINBOW SMELT	0.00	0.00	0.34	9	0
68	SPOTTAIL SHINER	0.00	0.00	0.00	9	0
69	STRIPED BASS	0.00	3.13	2684.40	9	0
70	ATLANTIC TOMCOD	0.00	0.00	0.00	9	0
71	WHITE PERCH	0.68	0.68	353.22	9	0
72	ALOSA SP.	0.00	0.00	500.75	9	0
73	CYPRINIDAE UNIDENTIFIED	0.68	11.75	2.54	9	0
74	MORONE SP.	0.00	0.00	327.83	9	0
75	CENTRARCHIDAE UNIDENTIFIED	0.00	0.00	0.00	9	0
76	UNIDENTIFIABLE	0.00	0.00	0.00	9	0

CPUE (NO.\*1000/CU.M)  
PROGRAM LRCHKSP5.SAS

----- STRATA=8 GEAR=64 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
77	ALEWIFE	0.00	0.00	0.00	19	0
78	BAY ANCHOVY	0.15	0.00	0.00	19	0
79	AMERICAN SHAD	0.00	0.00	0.43	19	0
80	BROWN BULLHEAD	0.00	0.00	0.00	19	0
81	AMERICAN EEL	0.00	0.00	0.00	19	0
82	HOGCHOKER	0.00	0.00	0.00	19	0
83	TESSELATED DARTER	0.00	6.95	2.35	19	0
84	ATLANTIC MENHADEN	0.00	0.00	0.00	19	0
85	BLUEBACK HERRING	0.00	0.00	0.00	19	0
86	RAINBOW SMELT	0.00	0.00	10.72	19	0
87	SPOTTAIL SHINER	0.00	0.00	0.00	19	0
88	STRIPED BASS	9.20	1.44	909.64	19	0
89	ATLANTIC TOMCOD	0.00	0.00	0.00	19	0
90	WHITE PERCH	11.15	0.29	661.56	19	0
91	ALOSA SP.	0.00	0.00	686.95	19	0
92	CYPRINIDAE UNIDENTIFIED	0.00	8.70	9.03	19	0
93	MORONE SP.	0.00	0.00	59.08	19	0
94	CENTRARCHIDAE UNIDENTIFIED	0.00	0.00	0.43	19	0
95	UNIDENTIFIABLE	0.00	0.00	0.80	19	0

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----- STRATA=8 GEAR=65 -----

OBS	TAXON	EGGS	YSL	PYSL	NO_SMP	ZCATCH
96	ALEWIFE	0.00	0.00	0.00	18	0
97	BAY ANCHOVY	0.00	0.00	0.00	18	0
98	AMERICAN SHAD	0.00	0.00	4.12	18	0
99	BROWN BULLHEAD	0.00	0.00	0.00	18	0
100	AMERICAN EEL	0.00	0.00	0.00	18	0
101	HOGCHOKER	0.00	0.00	0.00	18	0
102	TESSELATED DARTER	0.00	10.49	2.89	18	0
103	ATLANTIC MENHADEN	0.00	0.00	0.00	18	0
104	BLUEBACK HERRING	0.00	0.00	0.00	18	0
105	RAINBOW SMELT	0.00	0.00	17.60	18	0
106	SPOTTAIL SHINER	0.00	0.00	0.00	18	0
107	STRIPED BASS	0.00	2.67	1103.19	18	0
108	ATLANTIC TOMCOD	0.00	0.00	0.00	18	0
109	WHITE PERCH	164.17	1.02	719.31	18	0
110	ALOSA SP.	0.00	0.00	1235.52	18	0
111	CYPRINIDAE UNIDENTIFIED	0.34	4.42	15.42	18	0
112	MORONE SP.	0.00	0.00	104.34	18	0
113	CENTRARCHIDAE UNIDENTIFIED	0.00	0.00	1.32	18	0
114	UNIDENTIFIABLE	0.00	0.00	2.34	18	0

APPENDIX I

ANOVA RESULTS: SPECIAL STUDIES  
TO EVALUATE SELECTED ICHTHYOPLANKTONS  
IN PREVIOUSLY UNSAMPLED REGIONS, 1987

American shad study  
Catskill region, 11-29 May

Bay Anchovy study  
Poughkeepsie region, 8-26 June

Morone study  
Tappan Zee region, 8-26 June

KEY CODE TO GEAR AND STRATA

GEAR

G64 1-m<sup>2</sup> net mounted on an epibenthic sled  
G65 1-m<sup>2</sup> tucker trawl  
G76 1-m<sup>2</sup> pushnet

STRATA

S1 previously sampled shoal  
S2 previously unsampled bottom  
S5 beach area unsampleable by beach seine  
S7 previously unsampled shore zone  
S8 previously unsampled shoal

1987 LONG RIVER AMERICAN SHAD SP. STUDIES (SSB7SHAD)  
 COMPARING TYPES (GEAR G## & STRATA S#)  
 PROGRAM: LRGLMSA4.SAS

TAXON=AMERICAN SHAD LIFE\_STG=EGGS

Analysis of Variance Procedure

Dependent Variable: CPUUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	262.65438494	52.53087699	11.13	0.0001
Error	234	1104.04766171	4.71815240		
Corrected Total	239	1366.70204665			

R-Square	C.V.	Root MSE	CPUE Mean
0.192181	77.85461	2.17213084	2.78998376

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TYPE	5	262.65438494	52.53087699	11.13	0.0001

Student-Newman-Keuls test for variable: CPUUE

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 234 MSE= 4.718152  
 WARNING: Cell sizes are not equal.  
 Harmonic Mean of cell sizes= 35.24676

Number of Means      2      3      4      5      6  
 Critical Range    1.0193893    1.220465    1.3388652    1.4224837    1.4867974

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	TYPE
A	4.712	40	G64&S2
B	3.105	67	G65&S8
B	2.869	33	G64&S8
C	2.151	25	G64&S7
C	1.911	25	G76&S7
C	1.537	50	G76&S5

1987 LONG RIVER AMERICAN SHAD SP. STUDIES (S887SHAD)  
 COMPARING TYPES (GEAR G# & STRATA S#)  
 PROGRAM: LRGLMSA4.SAS

TAXON=AMERICAN SHAD LIFE\_STG=YOLK-SAC

Analysis of Variance Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	7.04699034	1.40939807	1.28	0.2749
Error	234	258.40451783	1.10429281		
Corrected Total	239	265.45150817			

R-Square	C.V.	Root MSE	CPUE Mean
0.026547	33.08652	1.05085337	3.17607725

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TYPE	5	7.04699034	1.40939807	1.28	0.2749

Student-Newman-Keuls test for variable: CPUE

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 234 MSE= 1.104293  
 WARNING: Cell sizes are not equal.  
 Harmonic Mean of cell sizes= 35.24676

Number of Means 2 3 4 5 6  
 Critical Range 0.4931695 0.5904477 0.6477285 0.6881822 0.7192965

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	TYPE
A	3.439	25	G64&S7
A	3.356	33	G64&S8
A	3.228	67	G65&S8
A	3.116	50	G76&S5
A	3.087	40	G64&S2
A	2.797	25	G76&S7



1987 LONG RIVER AMERICAN SHAD SP. STUDIES (SS87SHAD)  
 COMPARING TYPES (GEAR G## & STRATA S#)  
 PROGRAM: LRGLMSA4.SAS

----- TAXON=AMERICAN SHAD LIFE\_STG=POST-YOLK-SAC -----

Analysis of Variance Procedure

Dependent Variable: CPUE					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	121.74266521	24.34853304	27.82	0.0001
Error	234	204.78214151	0.87513736		
Corrected Total	239	326.52480672			
R-Square		C.V.	Root MSE		CPUE Mean
	0.372844	22.48821	0.93548776		4.15990253
Source	DF	Anova SS	Mean Square	F Value	Pr > F
TYPE	5	121.74266521	24.34853304	27.82	0.0001

Student-Newman-Keuls test for variable: CPUE

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 234 MSE= 0.875137  
 WARNING: Cell sizes are not equal.  
 Harmonic Mean of cell sizes= 35.24676

Number of Means      2      3      4      5      6  
 Critical Range    0.439028 0.5256267 0.5766191 0.6126316 0.6403301

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	TYPE
A	5.229	25	G76&S7
A	5.059	50	G76&S5
A	4.560	25	G64&S7
B	3.704	33	G64&S8
C	3.580	67	G65&S8
C	3.465	40	G64&S2

1987 LONG RIVER AMERICAN SHAD SP. STUDIES (SS87SHAD)  
 COMPARING TYPES (GEAR G## & STRATA S#)  
 PROGRAM: LRG1MSA4.SAS

----- TAXON=WHITE PERCH LIFE\_STG=EGGS -----

Analysis of Variance Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	552.40982887	110.48196577	21.84	0.0001
Error	234	1183.68808018	5.05849607		
Corrected Total	239	1736.09790905			

R-Square	C.V.	Root MSE	CPUE Mean
0.318190	54.41805	2.24911006	4.13302244

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TYPE	5	552.40982887	110.48196577	21.84	0.0001

Student-Newman-Keuls test for variable: CPUE

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 234 MSE= 5.058496  
 WARNING: Cell sizes are not equal  
 Harmonic Mean of cell sizes= 35.24676

Number of Means 2 3 4 5 6  
 Critical Range 1.0555159 1.2637176 1.3863139 1.4728958 1.5394887

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	TYPE
A	6.762	40	G64&S2
B	5.102	33	G64&S8
B	4.290	67	G65&S8
C	3.400	25	G64&S7
C	2.831	25	G76&S7
C	2.197	50	G76&S5

1987 LONG RIVER AMERICAN SHAD SP. STUDIES (SS87SHAD)  
 COMPARING TYPES (GEAR G## & STRATA S#)  
 PROGRAM: LRGMSA4.SAS

TAXON=WHITE PERCH LIFE\_STG=YOLK-SAC

Analysis of Variance Procedure

Dependent Variable: CPUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	37.29185727	7.45837145	9.70	0.0001
Error	234	180.01535642	0.76929639		
Corrected Total	239	217.30721369			

R-Square	C.V.	Root MSE	CPUE Mean
0.171609	21.43656	0.87709543	4.09158717

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TYPE	5	37.29185727	7.45837145	9.70	0.0001

Student-Newman-Keuls test for variable: CPUE

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 234 MSE= 0.769296  
 WARNING: Cell sizes are not equal.  
 Harmonic Mean of cell sizes= 35.24676

Number of Means                    2                    3                    4                    5                    6  
 Critical Range    0.4116242    0.4928176    0.540627    0.5743917    0.6003612

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	TYPE
A	4.442	67	G65&S8
A	4.401	25	G76&S7
A	4.286	50	G76&S5
A	4.048	33	G64&S8
B	3.571	40	G64&S2
B	3.346	25	G64&S7

1987 LONG RIVER AMERICAN SHAD SP. STUDIES (SS87SHAD)  
 COMPARING TYPES (GEAR G## & STRATA S#)  
 PROGRAM: LRGLMSA4.SAS

----- TAXON=WHITE PERCH LIFE\_STG=POST-YOLK-SAC -----

Analysis of Variance Procedure

Dependent Variable: CPUUE

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	41.43145715	8.28629143	8.68	0.0001
Error	234	223.50116368	0.95513318		
Corrected Total	239	264.93262083			
R-Square		C.V.	Root MSE		CPUE Mean
0.156385		18.15036	0.97730915		5.38451758

Source	DF	Anova SS	Mean Square	F Value	Pr > F
TYPE	5	41.43145715	8.28629143	8.68	0.0001

Student-Newman-Keuls test for variable: CPUUE

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 234 MSE= 0.955133  
 WARNING: Cell sizes are not equal.  
 Harmonic Mean of cell sizes= 35.24676

Number of Means            2            3            4            5            6  
 Critical Range    0.4586549   0.5491251   0.6023971   0.6400196   0.6689563

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	TYPE
A	5.839	25	G76&S7
A			
A	5.832	67	G65&S8
A			
A	5.496	40	G64&S2
B			
B	5.119	50	G76&S5
B			
C	4.909	33	G64&S8
C			
C	4.710	25	G64&S7
C			

1987 LONG RIVER BAY ANCHOVY SP. STUDIES (SS87ANCH)  
 COMPARING TYPES (GEAR G## & STRATA S#)  
 PROGRAM: LRGLMSB3.SAS

----- TAXON=BAY ANCHOVY LIFE\_STG=EGGS -----

Analysis of Variance Procedure

Dependent Variable: CPUUE					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	178.93999173	44.73499793	7.59	0.0001
Error	59	347.68996364	5.89305023		
Corrected Total	63	526.62995537			
R-Square		C.V.	Root MSE	CPUUE Mean	
0.339783		48.29992	2.42756055	5.02601339	
Source	DF	Anova SS	Mean Square	F Value	Pr > F
TYPE	4	178.93999173	44.73499793	7.59	0.0001

Student-Newman-Keuls test for variable: CPUUE

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 59 MSE= 5.89305  
 WARNING: Cell sizes are not equal  
 Harmonic Mean of cell sizes= 11.68851

Number of Means            2            3            4            5  
 Critical Range    2.0093439 2.4142787 2.654825 2.8256456

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	TYPE
A	6.887	16	G65&S1
A			
A	6.289	16	G64&S1
A			
A	4.723	8	G64&S7
B			
B	3.504	9	G76&S7
B			
B	2.768	15	G76&S5

87 LONG RIVER MORONE SP. STUDIES (SS87MORO)  
 COMPARING TYPES (GEAR G# & STRATA S#)  
 PROGRAM: LRGMLSM4.SAS

TAXON=WHITE PERCH LIFE\_STG=YOLK-SAC

Analysis of Variance Procedure

Sum of Squares	Mean Square	F Value	Pr > F
6.64929074	1.32985815	2.62	0.0303
39.02446641	0.50681125		
45.67375715			
C.V.	Root MSE	CPUE Mean	
156.5348	0.71190677	0.45479148	

Anova SS	Mean Square	F Value	Pr > F
6.64929074	1.32985815	2.62	0.0303

Student-Newman-Keuls test for variable: CPUE

test controls the type I experimentwise error rate under the complete null thesis but not under partial null hypotheses.

Alpha= 0.05 df= 77 MSE= 0.506811  
 WARNING: Cell sizes are not equal.  
 Harmonic Mean of cell sizes= 12.34657

ns	2	3	4	5	6
e	0.5705459	0.6847589	0.7524298	0.8003747	0.8374288

the same letter are not significantly different.

K Grouping	Mean	N	TYPE
A	1.131	9	G64&S7
A			
A	0.571	10	G64&S2
A			
A	0.551	18	G76&S5
B			
B	0.361	18	G65&S8
B			
B	0.311	9	G76&S7
B			
B	0.139	19	G64&S8

F Value	Pr > F
0.61	0.6577

CPUE Mean  
6.35968687

F Value	Pr > F
0.61	0.6577

ite under the complete null

1987 LONG RIVER MORONE SP-STUDIES (SS87MORO)  
 COMPARING TYPES (GEAR G## & STRATA S#)  
 PROGRAM: LRGLSM4.SAS

----- TAXON=WHITE PERCH LIFE\_STG=POST-YOLK-SAC -----

Analysis of Variance Procedure

Dependent Variable: CPUUE					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	62.27425929	12.45485186	25.04	0.0001
Error	77	38.30438073	0.49745949		
Corrected Total	82	100.57864002			
R-Square		C.V.		Root MSE	CPUE Mean
	0.619160	11.84767		0.70530808	5.95313728
Source	DF	Anova SS	Mean Square	F Value	Pr > F
TYPE	5	62.27425929	12.45485186	25.04	0.0001

Student-Newman-Keuls test for variable: CPUUE

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 77 MSE= 0.497459  
 WARNING: Cell sizes are not equal.  
 Harmonic Mean of cell sizes= 12.34657

Number of Means                    2                    3                    4                    5                    6  
 Critical Range 0.5652575 0.6784118 0.7454555 0.792956 0.8296667

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	TYPE
A	6.877	9	G64&S7
A			
A	6.571	10	G64&S2
A			
A	6.398	19	G64&S8
B			
B	6.346	18	G65&S8
B			
B	5.736	9	G76&S7
B			
C	4.393	18	G76&S5

1987 LONG RIVER MORONE SP. STUDIES (SS87MORO)  
 COMPARING TYPES (GEAR G## & STRATA S#)  
 PROGRAM: LRGLSM4.SAS

TAXON=STRIPED BASS LIFE\_STG=POST-YOLK-SAC

Analysis of Variance Procedure

Dependent Variable: CPUE		DF	Sum of Squares	Mean Square	F Value	Pr > F
Source		5	49.38783624	9.87756725	23.83	0.0001
Model						
Error		77	31.91544337	0.41448628		
Corrected Total		82	81.30327960			
R-Square			C.V.	Root MSE		CPUE Mean
			9.747388	0.64380609		6.60490857
Source		DF	Anova SS	Mean Square	F Value	Pr > F
TYPE		5	49.38783624	9.87756725	23.83	0.0001

Student-Newman-Keuls test for variable: CPUE

NOTE: This test controls the type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha= 0.05 df= 77 MSE= 0.414486  
 WARNING: Cell sizes are not equal.  
 Harmonic Mean of cell sizes= 12.34657

Number of Means      2      3      4      5      6  
 Critical Range    0.5159678 0.6192551 0.6804527 0.7238112 0.7573208

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	TYPE
A	7.818	9	G76&S7
A	7.640	9	G64&S7
B	6.836	18	G65&S8
B	6.720	19	G64&S8
C	5.715	10	G64&S2
C	5.622	18	G76&S5



APPENDIX J

STANDING CROP DATA

- J.1 1986 Longitudinal River Survey
- J.2 1986 Fall Shoals & Beach Seine Surveys
- J.3 1987 Longitudinal River Survey
- J.4 1987 Fall Shoals & Beach Seine Surveys

APPENDIX J.1

1986 LONGITUDINAL RIVER SURVEY

J.1.1 Eggs and Yolk-sac Larvae

Striped bass

White perch

Alosa spp.

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 29APR86 TO 02MAY86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	77254	0	NS	0	0	0
	51569	0		0	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0
HYDE PARK	37043	153398	NS	0	0	0
	37043	117903		0	0	0
KINGSTON	37774	52315	NS	0	0	0
	37774	52315		0	0	0
SAUGERTIES	442464	298884	NS	0	0	0
	293048	298884		0	0	0
CATSKILL	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0
TOTAL STANDING CROP	594536	504597	0	0	0	0
	302218	325530	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 05MAY86 TO 09MAY86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	566821	55416	9928
				159888	42927	9928
WEST POINT	1987568	584903	NS	568310	107530	
	589785	505149		95000	82870	
CORNWALL	533	404	21	221	39	20
	327	213	10	159	30	10
POUGHKEEPSIE	342382	102467	NS	3492361	306889	
	154125	70053		1621435	130187	
HYDE PARK	456956	329949	NS	2316795	328108	
	247498	231021		9955573	105011	
KINGSTON	198628	0	NS	543928	96940	
	198628	0		242005	96940	
SAUGERTIES	0	0	NS	0	266223	
	0	0		0	207173	
CATSKILL	0	0	NS	0	0	
	0	0		0	0	
ALBANY	0	0	NS	0	0	
	0	0		0	0	
TOTAL STANDING CROP	3519	1421	21	7709	1200	30
	761	599	10	1934	300	14

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 12MAY86 TO 16MAY86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	17681	0	0	2950958	244139	29784
	17681	0	0	1143836	229122	29784
WEST POINT	3665322	1.164E7	NS	5.114E7	1.561E7	
	1264913	3153765		8098966	3949140	
CORNWALL	1336	16896	105	4953	3591	2377
	1035	8395	69	2246	852	1092
POUGHKEEPSIE	9766888	1.112E7	NS	3.151E7	1.471E7	
	4193699	7490215		1.406E7	4538965	
HYDE PARK	1.474E7	1.541E7	NS	3.756E7	2.384E7	
	9066825	9444139		1.545E7	8078745	
KINGSTON	8856026	511506	NS	1.105E7	8984840	
	6279499	314608		7785606	2257730	
SAUGERTIES	111515	0	NS	589135	95690	
	111515	0		589135	95690	
CATSKILL	0	0	NS	84567	0	
	0	0		84567	0	
ALBANY	0	0	NS	0	0	
	0	0		0	0	
TOTAL STANDING CROP	38494	55575	105	139839	67077	2407
	11913	15027	69	23865	10361	1092

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 19MAY86 TO 23MAY86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	238882	0	0
	0	0	0	238882	0	0
INDIAN POINT	19862	0	0	4289796	273499	67893
	19862	0	0	1176669	110500	42971
WEST POINT	747280	279379	NS	4.582E7	410318	
	204730	161314		9915207	145870	
CORNWALL	224	549	270	4433	5293	1556
	164	373	153	4228	2475	579
POUGHKEEPSIE	3885677	289138	NS	2.141E7	1.857E7	
	2288394	160017		1.111E7	5434039	
HYDE PARK	2014251	38662	NS	4.848E7	1.542E7	
	945401	38662		2.353E7	1.017E7	
KINGSTON	1008878	0	NS	2640928	717568	
	294138	0		1382485	353268	
SAUGERTIES	0	44243	NS	442818	147771	
	0	44243		296584	89973	
CATSKILL	0	0	NS	0	0	
	0	0		0	0	
ALBANY	18883	0	NS	0	0	
	18883	0		0	0	
TOTAL STANDING CROP	7919	1201	270	127758	40832	1624
	2507	441	153	28229	11800	580

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 27MAY86 TO 31MAY86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS		YOLK-SAC LARVAE			
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	182348	708057	561990
	0	0	0	182348	410579	561990
CROTON-HAVERSTRAW	0	0	0	1-442E7	1-089E7	1126422
	0	0	0	9263621	5345212	653143
INDIAN POINT	275360	21774	0	2-233E7	3-167E7	1448371
	237933	21774	0	6735401	9368868	256844
WEST POINT	549184	532275	NS	2-75E7	7197846	
	321631	272483		5616384	2321879	
CORNWALL	0	327	7	7400	6411	55
	0	327	7	5558	2632	41
POUGHKEEPSIE	1812216	133517	NS	8-623E7	3-41E7	
	1033019	54543		4-479E7	1-197E7	
HYDE PARK	2133058	4348943	NS	1-684E7	7122341	
	1558964	1030102		6084010	1606962	
KINGSTON	171110	0	NS	2616673	901146	
	171110	0		1427369	601881	
SAUGERTIES	0	23561	NS	2532618	922239	
	0	23561		2085933	476523	
CATSKILL	0	0	NS	1764020	292041	
	0	0		611252	146204	
ALBANY	0	13941	NS	0	0	
	0	13941		0	0	
TOTAL STANDING CROP	4941	5401	7	181800	100220	3192
	1920	1117	7	47368	16589	900



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 02JUN86 TO 05JUN86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	321819	0	1174724	0	0
WEST POINT	270608	321819	0	556160	0	0
CORNWALL	0	27762	0	171216	26394	0
POUGHKEEPSIE	141818	13058	NS	2435973	543969	0
HYDE PARK	231726	13058	NS	528813	389656	0
KINGSTON	157561	83559	NS	171216	17477	0
SAUGERTIES	0	0	NS	2-252E7	1-09E7	0
CATSKILL	0	47502	NS	5685621	6198181	0
ALBANY	0	47502	NS	1-73E7	5877586	0
TOTAL STANDING CROP	644152	584897	0	7040759	1583888	0
	227718	336621	0	2561368	1154597	0
				1001854	862561	
				4830760	519439	
				349364	155142	
				81275	229276	
				81275	167644	
				0	0	
				0	0	
				5-108E7	1-925E7	0
				9145995	6471048	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 09JUN86 TO 12JUN86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0		0	0	
TAPPAN ZEE	0	0	0	0	0	0
	0	0		0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0		0	0	
INDIAN POINT	39509	0	0	359875	0	28086
	39509	0		157691	0	28086
WEST POINT	21630	21663	NS	1242757	132928	
	21630	21663		330521	45237	
CORNWALL	21125	0	0	1076433	149452	0
	21125	0		392170	70819	0
POUGHKEEPSIE	48430	28324	NS	3360162	988857	
	48430	28324		1055573	619768	
HYDE PARK	690532	107367	NS	847488	376678	
	447740	67442		315191	122574	
KINGSTON	40272	39023	NS	1292786	177997	
	40272	39023		676958	100935	
SAUGERTIES	534535	0	NS	530979	549868	
	534535	0		174623	243517	
CATSKILL	1553241	148564	NS	980995	0	
	1553241	148564		980995	0	
ALBANY	33548	0	NS	0	0	
	33548	0		0	0	
TOTAL STANDING CROP	2982823	344940	0	9691475	2375780	28086
	1704795	171505	0	1718314	689700	28086

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 16JUN86 TO 19JUN86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON - HAVERSTRAW	0	0	0	0	29390	0
INDIAN POINT	0	0	0	331600	0	9496
WEST POINT	0	0	NS	187784	0	9496
CORNWALL	0	0	0	374717	71273	0
POUGHKEEPSIE	505319	0	NS	213931	46212	0
HYDE PARK	41298	20998	NS	589922	80016	0
KINGSTON	0	0	NS	240901	46652	0
SAUGERTIES	0	0	NS	4240000	191273	0
CATSKILL	0	52608	NS	1810951	88041	0
ALBANY	0	52608	NS	476969	22223	0
TOTAL STANDING CROP	546617	73607	0	6114130	394176	9496
	348960	56644	0	1866151	115848	9496

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 23JUN86 TO 27JUN86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0		0	0	
TAPPAN ZEE	0	0	0	0	0	0
	0	0		0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0		0	0	
INDIAN POINT	0	0	0	403815	0	71112
	0	0		133447	0	47669
WEST POINT	0	0	NS	483234	653114	
	0	0		202845	498125	
CORNWALL	0	0	0	1973945	1414802	56139
	0	0		961983	970022	56139
POUGHKEEPSIE	0	0	NS	1906344	207012	
	0	0		1476470	172333	
HYDE PARK	0	0	NS	125605	0	
	0	0		62902	0	
KINGSTON	0	0	NS	93340	0	
	0	0		60381	0	
SAUGERTIES	0	0	NS	335538	40727	
	0	0		335538	40727	
CATSKILL	0	192078	NS	0	208419	
	0	192078		0	142588	
ALBANY	456476	0	NS	223996	0	
	456476	0		223996	0	
TOTAL STANDING CROP	456476	192078	0	5547818	2524074	127251
	456476	192078	0	1826114	1113894	73647

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 30JUN86 TO 03JUL86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS		YOLK-SAC LARVAE			
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0		0	0	
TAPPAN ZEE	0	0	0	0	0	0
	0	0		0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0		0	0	
INDIAN POINT	0	0	0	0	0	0
	0	0		0	0	
WEST POINT	0	0	NS	224284	43456	
	0	0		137013	43456	
CORNWALL	22225	11070	0	0	0	0
	22225	11070		0	0	
POUGHKEEPSIE	0	0	NS	91891	0	
	0	0		62750	0	
HYDE PARK	45888	114125	NS	85251	46462	
	45888	114125		56414	46462	
KINGSTON	0	0	NS	49538	0	
	0	0		49538	0	
SAUGERTIES	0	0	NS	0	0	
	0	0		0	0	
CATSKILL	0	203373	NS	89980	55356	
	0	203373		89980	55356	
ALBANY	0	18916	NS	0	0	
	0	18916		0	0	
TOTAL STANDING CROP	68112	347483	0	540945	145274	0
	50986	234233	0	190900	84329	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 07JUL86 TO 10JUL86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	21334	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0
HYDE PARK	55647	0	NS	0	0	0
KINGSTON	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	0	0	0
CATSKILL	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0
TOTAL STANDING CROP	55647	0	0	21334	0	0
	55647	0	0	21334	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 29APR86 TO 02MAY86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS				YOLK-SAC LARVAE			
	CHANNEL		SHOAL		CHANNEL		SHOAL	
	BOTTOM	SHOAL	BOTTOM	SHOAL	BOTTOM	SHOAL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
INDIAN POINT	22863	0	0	0	25022	0	0	0
	22863	0	0	0	25022	0	0	0
WEST POINT	16721	60036	NS	NS	0	0	0	0
	16721	38030	NS	NS	0	0	0	0
CORNWALL	0	121	58	58	0	0	0	4
	0	73	39	39	0	0	0	4447
POUGHKEEPSIE	1997729	2634707	NS	NS	67764	0	0	0
	1119981	498967	NS	NS	67764	0	0	0
HYDE PARK	2346080	8530365	NS	NS	0	11968	11968	0
	1804543	6280886	NS	NS	0	11968	11968	0
KINGSTON	1757103	8.579E7	NS	NS	270753	17941	17941	0
	902195	5.368E7	NS	NS	192929	17941	17941	0
SAUGERTIES	773293	1.79E8	NS	NS	553194	49814	49814	0
	397985	8.952E7	NS	NS	399366	49814	49814	0
CATSKILL	4.436E8	6.636E8	NS	NS	1598410	177147	177147	0
	4.324E8	3.047E8	NS	NS	652599	46603	46603	0
ALBANY	3563290	1.864E7	NS	NS	206383	27380	27380	0
	2983499	1.032E7	NS	NS	103415	11817	11817	0
TOTAL STANDING CROP	454061	958388	58	58	2722	284	284	4
	432410	322335	39	39	799	73	73	4

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 05MAY86 TO 09MAY86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	52024	0	0	913831	162850	39305
	28789	0	0	195404	80453	28083
WEST POINT	407717	388211	NS	1690508	312774	
	120311	309248	NS	239443	112110	
CORNWALL	483	14433	189	1089	1342	534
	316	5019	69	398	373	161
POUGHKEEPSIE	3.655E7	3196147	NS	1.399E7	1456389	
	3.219E7	1994571	NS	7542436	451343	
HYDE PARK	2.887E7	3.235E8	NS	1.32E8	6.78E7	
	1.647E7	1.866E8	NS	4.539E7	2.081E7	
KINGSTON	6.885E7	6.673E7	NS	2.209E8	5.901E7	
	3.153E7	2.306E7	NS	3.629E7	1.919E7	
SAUGERTIES	1488478	1726342	NS	1.986E8	1.743E8	
	1319565	608408	NS	9.499E7	3.626E7	
CATSKILL	5917812	6594416	NS	1.296E8	1.108E8	
	2627241	6526361	NS	3.809E7	3.262E7	
ALBANY	1220760	7732904	NS	2428671	1609058	
	863600	4048800	NS	1119887	1422474	
TOTAL STANDING CROP	143844	424334	189	701146	416836	574
	48074	188235	69	117939	56418	164



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 12MAY86 TO 16MAY86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	16	0	20	666	33	99
	16	0	20	274	33	26
WEST POINT	2478376	4636894	NS	8074560	1726912	
	707125	2483660		1301871	391851	
CORNWALL	334	33460	10	9305	6449	2559
	228	10404	10	3515	1311	857
POUGHKEEPSIE	4585575	1.006E8	NS	2.089E8	3.452E7	
	3345559	2.936E7		4.962E7	8020196	
HYDE PARK	3.941E7	7.5E7	NS	1.923E8	1.011E8	
	1.746E7	1.591E7		4.57E7	2.258E7	
KINGSTON	1.591E7	9416762	NS	1.09E8	1.079E8	
	1.559E7	7155599		6.188E7	1.131E7	
SAUGERTIES	1659402	1.697E7	NS	9.831E7	2.366E7	
	1514507	1.626E7		7595284	1.049E7	
CATSKILL	422834	4083584	NS	1.791E7	2.734E7	
	422834	1883939		7583335	5800157	
ALBANY	394407	1113241	NS	3591513	6104999	
	278712	653360		1112933	1088162	
TOTAL STANDING CROP	65208	245309	30	648001	308828	2658
	23706	39355	22	92249	29138	858

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 19MAY86 TO 23MAY86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	38247	0	30071	0	0
	0	38247	0	30071	0	0
INDIAN POINT	0	110	398	967	16	116
	0	93	245	339	16	74
WEST POINT	863615	3.227E7	NS	1.634E7	88870	
	319620	2.463E7		4109508	51481	
CORNWALL	55	12535	3989	1447	1630	1343
	55	4638	3572	907	638	514
POUGHKEEPSIE	1.401E7	9327463	NS	4.489E7	1.066E7	
	5674061	5058223		1.584E7	4734947	
HYDE PARK	1397846	5.378E7	NS	2.172E7	1783287	
	648971	3.574E7		8455642	473701	
KINGSTON	3526898	2.619E7	NS	3.322E7	918640	
	1851286	2.02E7		8149581	440437	
SAUGERTIES	1552013	5.055E8	NS	1.901E7	2974090	
	1104247	4.075E8		9782376	1495237	
CATSKILL	1.678E8	5.176E8	NS	5419318	2015873	
	1.472E8	3.192E8		1366150	1724018	
ALBANY	3724094	7053069	NS	5273603	1312958	
	644740	3037280		1120991	157433	
TOTAL STANDING CROP	192933	1164412	4387	148311	21400	1460
	147307	519891	3581	22479	5337	520

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 27MAY86 TO 31MAY86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS		YOLK-SAC LARVAE	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	11815	0
	0	0	11815	0
TAPPAN ZEE	0	173149	210688	100592
	0	173149	210688	100592
CROTON-HAVERSTRAW	0	126080	403647	570639
	0	81832	264495	334618
INDIAN POINT	446723	1643938	2247274	1146480
	257603	855854	815708	324117
WEST POINT	1.204E7	6152375	4171308	356495
	6943390	3410172	871853	177602
CORNWALL	272	18099	455	66
	272	8493	192	34
POUGHKEEPSIE	2345328	2.068E8	5697679	1418621
	907608	8.025E7	1567918	557363
HYDE PARK	1756875	3632640	4477078	2532549
	1456662	1933538	1119732	458888
KINGSTON	6866002	2.388E7	3594525	2025222
	4711429	2.195E7	1548096	990776
SAUGERTIES	1.876E7	9.049E7	1.646E7	2572327
	8997091	8.765E7	8020845	1224690
CATSKILL	1.066E7	9.498E7	3.704E7	4.789E7
	2821949	3.235E7	6567302	3.136E7
ALBANY	269622	2832793	1.128E7	28083
	226209	1308831	7889020	14043
TOTAL STANDING CROP	53425	448855	86151	58709
	12746	125466	13319	31415
				1096
				298

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 02JUN86 TO 05JUN86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	80414
	0	0	0	0	0	50015
INDIAN POINT	0	0	0	383692	20078	57873
	0	0	0	195156	20078	40467
WEST POINT	3041989	5.457E7	NS	1244963	191069	
	1866049	3.49E7		217831	144853	
CORNWALL	0	10041	143	0	14	16
	0	5050	136	0	13742	16478
POUGHKEEPSIE	1956237	5805978	NS	487554	71992	
	800012	1774173		191256	27385	
HYDE PARK	505285	1451897	NS	1017106	698955	
	372966	582227		244119	180973	
KINGSTON	46333	2327850	NS	1040689	109151	
	46333	1513818		472456	44850	
SAUGERTIES	0	387076	NS	3875290	1323268	
	0	210225		1847463	860580	
CATSKILL	3165227	1.572E7	NS	7.143E7	6309566	
	3044129	7605065		4.061E7	1843317	
ALBANY	38724	1729873	NS	1.76E7	2584385	
	23714	1661454		1716430	1306636	
TOTAL STANDING CROP	8754	92035	143	97079	11322	155
	3678	36190	136	40695	2430	66

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 09JUN86 TO 12JUN86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS				YOLK-SAC LARVAE			
	CHANNEL		SHOAL		CHANNEL		SHOAL	
	BOTTOM	SHOAL	BOTTOM	SHOAL	BOTTOM	SHOAL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	19070	0	0
INDIAN POINT	39509	0	0	0	147302	0	0	0
	39509	0	0	0	87787	0	0	0
WEST POINT	243546	128192	NS	NS	50200	32494	32494	32494
	195979	42534			34856	32494		
CORNWALL	22	184	65	65	177	74	74	0
	22	98	65	65	77	55	55	0
POUGHKEEPSIE	330791	1353621	NS	NS	1295614	28016	28016	28016
	248734	818160			533521	28016		
HYDE PARK	105876	22092	NS	NS	647283	89080	89080	43246
	105876	22092			256673	43246		
KINGSTON	1129551	1097472	NS	NS	401461	0	0	0
	613135	605024			92878	0		
SAUGERTIES	0	857149	NS	NS	534535	608999	608999	223968
	0	521700			534535	223968		
CATSKILL	1619211	1-193E7	NS	NS	7488702	1-561E7	1-561E7	1-523E7
	1273580	5962767			4178215	1-523E7		
ALBANY	256641	2355578	NS	NS	6332020	1554744	1554744	1531304
	55257	2262229			2474414	1531304		
TOTAL STANDING CROP	3747	17928	65	65	17074	18012	18012	0
	1454	6480			4923	15305	15305	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 16JUN86 TO 19JUN86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	69289	227884	NS	44414	0	0
	50915	112117		30754	0	0
CORNWALL	0	31928	0	69853	0	0
	0	31928	0	37026	0	0
POUGHKEEPSIE	0	0	NS	423524	0	0
	0	0		176933	0	0
HYDE PARK	0	3820717	NS	394486	66405	0
	0	3820717		149206	44620	0
KINGSTON	0	0	NS	0	0	0
	0	0		0	0	0
SAUGERTIES	0	35130	NS	361365	0	0
	0	35130		361365	0	0
CATSKILL	0	263002	NS	2724578	1683011	0
	0	139181		2593782	1055686	0
ALBANY	0	853077	NS	681438	667190	0
	0	781907		391140	343272	0
TOTAL STANDING CROP	69289	5231739	0	4699659	2416606	0
	50915	3904287	0	2658413	1110990	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 23JUN86 TO 27JUN86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	77174	0	0
INDIAN POINT	0	0	0	48973	0	0
WEST POINT	20620	0	NS	0	0	0
CORNWALL	20620	0	NS	208466	0	0
POUGHKEEPSIE	0	262352	0	184930	0	0
HYDE PARK	0	262352	0	0	0	0
KINGSTON	0	0	NS	48292	0	0
SAUGERTIES	93526	24096	NS	48292	0	0
CATSKILL	93526	24096	NS	0	0	0
ALBANY	0	113668	NS	0	0	0
TOTAL STANDING CROP	0	113668	NS	0	40727	40727
	95379	480195	NS	1237941	244317	94107
	95379	480195	NS	484661	475939	202219
	391265	1178738	NS	65211	760983	0
	391265	1178738	NS	65211	226732	0
	600791	2059050	0	1637064	0	0
	413954	1304738	0	527331	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 30JUN86 TO 03JUL86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS				YOLK-SAC LARVAE			
	CHANNEL		SHOAL		CHANNEL		SHOAL	
	BOTTOM	SHOAL	BOTTOM	SHOAL	BOTTOM	SHOAL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	44933	0	0	0	0	0	0
WEST POINT	65104	47625	24563	16082	NS	NS	0	0
CORNWALL	0	0	1747615	1586240	0	0	0	0
POUGHKEEPSIE	0	0	30621	30621	NS	NS	0	0
HYDE PARK	0	0	0	0	NS	NS	0	0
KINGSTON	0	0	0	0	NS	NS	0	0
SAUGERTIES	0	0	0	0	NS	NS	0	0
CATSKILL	0	0	508432	508432	NS	NS	179959	179959
ALBANY	0	0	37831	37831	NS	NS	824407	441643
TOTAL STANDING CROP	65104	47625	2393995	1667126	0	0	1004366	476901



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 07JUL86 TO 10JUL86 - STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0
HYDE PARK	0	0	NS	0	0	0
KINGSTON	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	0	0	0
CATSKILL	87640	0	NS	0	0	0
ALBANY	0	16450	NS	0	0	0
TOTAL STANDING CROP	87640	16450	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 29APR86 TO 02MAY86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	0	0	0	19627	0	8500
	0	0	0	19627	0	8500
WEST POINT	0	0	NS	33579	20436	
	0	0		23345	20436	
CORNWALL	0	0	4	0	0	32
	0	0	4	0	0	16044
POUGHKEEPSIE	1185565	2408381	NS	672702	168317	
	899280	809568		290589	82655	
HYDE PARK	2120098	1015923	NS	430023	23924	
	1234508	714352		140486	15835	
KINGSTON	1212376	1.177E7	NS	291532	124520	
	1081105	5013928		145034	82820	
SAUGERTIES	2430607	1.643E8	NS	1548995	1874609	
	1229618	1.035E8		672410	1106523	
CATSKILL	5.964E7	3.937E9	NS	3508471	7613967	
	1.665E7	1.881E9		259113	5528677	
ALBANY	8.739E7	1.27E9	NS	2003429	4498458	
	5.283E7	8.704E8		1210429	1976729	
TOTAL STANDING CROP	153984	5386012	4	8508	14324	40
	55438	2075160	4	1453	5976	18

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 05MAY86 TO 09MAY86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	39524	0	0
WEST POINT	0	0	NS	27360	0	0
CORNWALL	0	243	21	721453	193302	98
POUGHKEEPSIE	2089670	445278	NS	167494	140745	37
HYDE PARK	1267946	341607	NS	712	400	
KINGSTON	595872	8017560	NS	174	126	
SAUGERTIES	3.02E7	1.252E7	NS	1218546	198636	
CATSKILL	2.044E7	8017560	NS	396971	76998	
ALBANY	1.346E7	1.863E7	NS	2389212	405645	
TOTAL STANDING CROP	2625646	7419407	NS	950971	200951	
	2.884E7	1.845E7	NS	8496402	2917940	
	1704241	8253025	NS	1935108	973594	
	79129	9.076E7	NS	9.667E7	1.399E8	
	30733	8.839E7	NS	4.502E7	6.461E7	
		5.27E7	NS	2.051E8	4.842E8	
		1.706E7	NS	7.836E7	1.644E8	
		193765	NS	2.096E7	5.224E7	
		91056	NS	3560658	1.206E7	
			21	336261	680369	98
			15	90471	177060	37

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 12MAY86 TO 16MAY86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	44824	0
	0	0	0	0	44824	0
CROTON-HAVERSTRAM	0	0	0	0	0	44624
	0	0	0	0	0	44624
INDIAN POINT	0	0	0	0	0	0
	0	0	0	0	0	0
WEST POINT	16360	0	NS	724500	755813	
	16360	0		245927	379385	
CORNWALL	0	9789	0	311271	417146	271455
	0	9789	0	197047	124319	112000
POUGHKEEPSIE	609241	637579	NS	6761053	1286650	
	356460	222416		1789935	367283	
HYDE PARK	2348140	5510000	NS	9712155	3.15E7	
	1134700	1798293		1737799	1.924E7	
KINGSTON	2218004	612849	NS	4.799E7	2.114E7	
	1797840	392880		3.545E7	2954874	
SAUGERTIES	334546	1.451E7	NS	2.856E7	3576086	
	334546	1.373E7		7930527	958456	
CATSKILL	1523185	3.602E7	NS	2.258E7	6.314E7	
	1396827	2.343E7		1.994E7	6651478	
ALBANY	5963147	4.95E7	NS	3921678	1.426E7	
	2948463	1.578E7		933467	3422966	
TOTAL STANDING CROP	1.301E7	1.068E8	0	1.206E8	1.361E8	316078
	3924740	3.146E7	0	4.153E7	2.089E7	120562

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 19MAY86 TO 23MAY86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	17012	0	NS	642649	0	0
	17012	0		189513	0	
CORNWALL	52	102	26	222	89	286
	52	54	26	136	35	101
POUGHKEEPSIE	2-082E7	5716768	NS	1-35E7	147704	
	1-155E7	5474241		2537649	55297	
HYDE PARK	2320322	2-139E7	NS	4850047	243291	
	1223447	1-444E7		1368442	102272	
KINGSTON	1730065	1-164E7	NS	1-72E7	486327	
	710515	8204108		3701007	255560	
SAUGERTIES	447118	2-762E8	NS	1-559E7	2384776	
	447118	1-89E8		5099173	2307565	
CATSKILL	1-661E8	3-52E8	NS	4449399	5617033	
	1-559E8	1-799E8		2616121	2623023	
ALBANY	2-34E7	1-963E7	NS	3-068E7	8320247	
	9213134	1-06E7		1-095E7	1599929	
TOTAL STANDING CROP	214916	686649	26	87130	17288	286
	156635	261738	26	13222	3853	101

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 27MAY86 TO 31MAY86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS		YOLK-SAC LARVAE	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
	0	0	0	0
TAPPAN ZEE	0	0	0	0
	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
	0	0	0	0
INDIAN POINT	0	0	0	0
	0	0	0	0
WEST POINT	51783	0	0	0
	51783	0	0	0
CORNWALL	0	21824	0	0
	0	21824	0	0
POUGHKEEPSIE	0	39222	1211657	415704
	0	21091	463643	286657
HYDE PARK	0	0	736537	230619
	0	0	212197	84898
KINGSTON	40107	0	693708	54896
	40107	0	531447	31703
SAUGERTIES	3516190	4.493E7	1814710	1268763
	2388297	4.421E7	1055304	715574
CATSKILL	3376513	1.068E8	1.095E7	1.226E7
	474188	3.198E7	6433198	1.015E7
ALBANY	239686	69121	2.712E7	943143
	239686	28187	1.283E7	664059
TOTAL STANDING CROP	7224279	1.518E8	4.252E7	1.518E7
	2447561	5.456E7	1.441E7	1.02E7

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 02JUN86 TO 05JUN86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS				YOLK-SAC LARVAE			
	CHANNEL	BOTTOM	SHOAL		CHANNEL	BOTTOM	SHOAL	
YONKERS	0	0	0		0	0	0	
TAPPAN ZEE	0	0	0		0	0	0	
CROTON-HAVERSTRAM	0	0	0		0	0	0	
INDIAN POINT	0	0	0		0	0	0	
WEST POINT	29034	81586	NS		0	0	0	
	29034	52694			0	0	0	
CORNWALL	0	0	0		0	0	0	
POUGHKEEPSIE	29097	0	NS		0	26738	0	
	29097	0			0	26738	0	
HYDE PARK	0	0	NS		152472	0	0	
	0	0			92235	0	0	
KINGSTON	0	54132	NS		234660	55355	0	
	0	31275			133528	31961	0	
SAUGERTIES	0	83411	NS		9505645	1152649	0	
	0	56062			3293667	572291	0	
CATSKILL	1379663	1.026E7	NS		8.4E7	3937241	0	
	1379663	6213101			4.682E7	1065508	0	
ALBANY	251627	1282798	NS		2.053E8	3339692	0	
	206602	901590			4.492E7	1388180	0	
TOTAL STANDING CROP	1689420	1.176E7	0		2.992E8	8511675	0	
	1395652	6278725	0		6.497E7	1841631	0	

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 09JUN86 TO 12JUN86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0		0	0	
TAPPAN ZEE	0	0	0	0	0	0
	0	0		0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0		0	0	
INDIAN POINT	0	0	0	0	0	0
	0	0		0	0	
WEST POINT	0	0	NS	0	0	0
	0	0		0	0	
CORNWALL	0	0	0	0	0	0
	0	0		0	0	
POUGHKEEPSIE	0	0	NS	0	0	0
	0	0		0	0	
HYDE PARK	0	0	NS	0	0	0
	0	0		0	0	
KINGSTON	0	0	NS	46861	0	0
	0	0		46861	0	
SAUGERTIES	0	0	NS	2316319	0	0
	0	0		2316319	0	
CATSKILL	86076	596987	NS	1872039	1.323E7	
	86076	372788		1307739	1.233E7	
ALBANY	0	549365	NS	1.54E7	2606282	
	0	377314		6588260	2175113	
TOTAL STANDING CROP	86076	1146352	0	1.963E7	1.584E7	0
	86076	530412	0	7105131	1.252E7	0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 16JUN86 TO 19JUN86 - STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAN	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0
HYDE PARK	0	0	NS	101419	0	0
KINGSTON	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	352112	0	0
CATSKILL	87888	52589	NS	9253	0	0
ALBANY	87888	52589	NS	262117	0	0
TOTAL STANDING CROP	87888	346809	0	152234	193981	0
	87888	212139	0	2054035	58362	58362
				4524341	193981	193981
				2062185	58362	58362

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 23JUN86 TO 27JUN86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	1884578	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0
HYDE PARK	0	0	NS	0	0	0
KINGSTON	0	0	NS	49712	0	0
SAUGERTIES	0	0	NS	49712	0	0
CATSKILL	0	48020	NS	259985	53466	0
ALBANY	0	48020	NS	143151	53466	0
TOTAL STANDING CROP	0	73671	NS	782531	1301788	0
	0	73671	0	782531	660164	0
	0	121691	0	2976805	1355255	0
	0	87939	0	2046204	662326	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 30JUN86 TO 03JUL86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0
HYDE PARK	0	0	NS	0	0	0
KINGSTON	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	534704	0	0
CATSKILL	0	101686	NS	534704	0	0
ALBANY	0	56747	NS	329142	0	0
TOTAL STANDING CROP	0	116449	0	863845	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 07JUL86 TO 10JUL86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0
HYDE PARK	0	0	NS	0	0	0
KINGSTON	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	0	0	0
CATSKILL	0	0	NS	87640	0	0
ALBANY	0	15882	NS	87640	0	0
TOTAL STANDING CROP	0	15882	0	101705	0	0
	0	15882	0	63716	0	0
	0	15882	0	189345	0	0
	0	15882	0	108354	0	0

J.1.2 Post Yolk-sac Larvae and Young-of-Year

Striped bass  
White perch  
Atlantic tomcod  
American shad  
Alosa spp.  
Blueback herring  
Alewife  
Bay anchovy  
Weakfish  
White catfish  
Spottail shiner  
Atlantic sturgeon  
Shortnose sturgeon

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29APR86 TO 02MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 05MAY86 TO 09MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 12MAY86 TO 16MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	20	0	0	0	0	0
	20	0	0	0	0	0
WEST POINT	199	21	NS	0	0	NS
	57	21		0	0	
CORNWALL	728	129	5	0	0	0
	597	59	5	0	0	0
POUGHKEEPSIE	2529	1308	NS	0	0	NS
	750	307		0	0	
HYDE PARK	1330	766	NS	0	0	NS
	326	414		0	0	
KINGSTON	190	0	NS	0	0	NS
	126	0		0	0	
SAUGERTIES	0	0	NS	0	0	NS
	0	0		0	0	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	4995	2224	5	0	0	0
	1022	519	5	0	0	0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 19MAY86 TO 23MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	3190	191	28	0
	2948	191	28	0
INDIAN POINT	17936	802	306	0
	3962	297	146	0
WEST POINT	51885	1037	NS	NS
	6618	404	NS	NS
CORNWALL	2910	7456	2737	0
	2321	2385	710	0
POUGHKEEPSIE	25038	18515	NS	NS
	12362	5415	NS	NS
HYDE PARK	3146	6012	NS	NS
	1619	3824	NS	NS
KINGSTON	82	143	NS	NS
	53	76	NS	NS
SAUGERTIES	0	0	NS	NS
CATSKILL	0	0	NS	NS
ALBANY	0	0	NS	NS
TOTAL STANDING CROP	104187	34158	3071	0
	15134	7065	726	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27MAY86 TO 31MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	7361	509	844	0
	1534	158	638	0
TAPPAN ZEE	7195	9433	14253	0
	1497	2158	9220	0
CROTON-HAVERSTRAM	13686	12843	10432	0
	5751	2165	5069	0
INDIAN POINT	87232	15101	7954	0
	15769	4175	4349	0
WEST POINT	201102	23133	NS	NS
	34585	8801	0	0
CORNWALL	25521	53897	2109	0
	14438	31298	588	0
POUGHKEEPSIE	13070	9401	NS	NS
	4455	2508	0	0
HYDE PARK	2022	390	NS	NS
	435	103	0	0
KINGSTON	705	56	NS	NS
	298	33	0	0
SAUGERTIES	0	56	NS	NS
	0	35	0	0
CATSKILL	0	0	NS	NS
	0	0	0	0
ALBANY	0	0	NS	NS
	0	0	0	0
TOTAL STANDING CROP	357894	124819	35591	0
	41365	33017	11418	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 02JUN86 TO 05JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	489 271	0 0	174 40	0 0	0 0	0 0
TAPPAN ZEE	7275 1591	893 328	3758 1611	0 0	0 0	0 0
CROTON-HAVERSTRAW	18735 4540	2840 1379	8257 6405	0 0	0 0	0 0
INDIAN POINT	138178 30519	11365 2280	11771 655	0 0	0 0	0 0
WEST POINT	146965 23621	20299 6451	NS	0 0	0 0	NS
CORNWALL	78306 26976	57070 19818	2585 670	0 0	0 0	0 0
POUGHKEEPSIE	64666 8887	39048 15798	NS	0 0	0 0	NS
HYDE PARK	15584 4068	2158 293	NS	0 0	0 0	NS
KINGSTON	4262 771	1645 535	NS	0 0	0 0	NS
SAUGERTIES	1473 1163	616 230	NS	0 0	0 0	NS
CATSKILL	0 0	46 46	NS	0 0	0 0	NS
ALBANY	0 0	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	475933 48351	135980 26298	26545 6671	0 0	0 0	0 0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 09JUN86 TO 12JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	124 81	47 31	0	0 0	0 0	0 0
TAPPAN ZEE	2041 1160	4211 2705	2574 2181	0 0	0 0	0 0
CROTON-HAVERSTRAW	5235 1152	3618 1219	5279 1664	0 0	0 0	0 0
INDIAN POINT	21440 4762	2191 807	4730 2254	0 0	0 0	0 0
WEST POINT	15655 2281	2801 384	NS	0 0	0 0	NS
CORNWALL	6859 1399	2555 540	1071 458	0 0	0 0	0 0
POUGHKEEPSIE	19059 3684	1678 451	NS	0 0	0 0	NS
HYDE PARK	2209 350	451 108	NS	0 0	0 0	NS
KINGSTON	1340 897	837 269	NS	0 0	0 0	NS
SAUGERTIES	1768 1055	218 218	NS	0 0	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	0 0	NS
ALBANY	0 0	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	75729 6937	18608 3199	13655 3580	0 0	0 0	0 0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 16JUN86 TO 19JUN86 - STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	62 62	0 0	0 0	0 0	0 0	0 0
TAPPAN ZEE	77 77	95 58	466 38	0 0	0 0	0 0
CROTON-HAVERSTRAM	399 218	796 293	535 450	0 0	0 0	0 0
INDIAN POINT	2808 767	1627 655	542 279	0 0	0 0	0 0
WEST POINT	11818 1313	1365 443	NS NS	0 0	25 25	NS NS
CORNWALL	6649 1304	2190 786	176 106	0 0	0 0	0 0
POUGHKEEPSIE	19894 9560	367 176	NS NS	0 0	0 0	NS NS
HYDE PARK	2771 814	49 49	NS NS	0 0	0 0	NS NS
KINGSTON	0 0	100 64	NS NS	0 0	0 0	NS NS
SAUGERTIES	0 0	39 39	NS NS	0 0	0 0	NS NS
CATSKILL	0 0	0 0	NS NS	0 0	0 0	NS NS
ALBANY	0 0	0 0	NS NS	0 0	0 0	NS NS
TOTAL STANDING CROP	44478 9805	6628 1171	1719 542	0 0	25 25	0 0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 23JUN86 TO 27JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	369 228	522 301	127	0 0	0 0	0 0
TAPPAN ZEE	1559 563	2690 697	4014 671	0 0	0 0	0 0
CROTON-HAVERSTRAW	2704 1559	4081 1793	92 53	0 0	0 0	42 42
INDIAN POINT	7100 1643	1007 331	257 98	0 0	0 0	44 33
WEST POINT	8018 1179	1678 811	NS	0 0	11 11	NS
CORNWALL	2736 905	2104 1101	562 204	0 0	0 0	59 59
POUGHKEEPSIE	1137 365	1309 612	NS	0 0	0 0	NS
HYDE PARK	379 291	161 79	NS	0 0	0 0	NS
KINGSTON	93 59	70 40	NS	0 0	0 0	NS
SAUGERTIES	0 0	73 42	NS	0 0	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	0 0	NS
ALBANY	1185 1136	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	25279 3036	13696 2481	5033 710	0 0	11 11	145 80

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 30JUN86 TO 03JUL86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR		TOTAL STANDING CROP
	CHANNEL	SHOAL	CHANNEL	SHOAL	
YONKERS	0	0	0	0	0
TAPPAN ZEE	352	543	0	0	0
CROTON-HAVERSTRAM	188	86	0	74	99
INDIAN POINT	3654	112	0	134	23
WEST POINT	1813	NS	102	92	NS
CORNWALL	797	255	0	106	0
POUGHKEEPSIE	1167	NS	0	0	NS
HYDE PARK	484	NS	0	70	NS
KINGSTON	430	NS	0	94	NS
SAUGERTIES	0	NS	0	0	NS
CATSKILL	0	NS	0	0	NS
ALBANY	0	NS	0	0	NS
TOTAL STANDING CROP	8886	996	102	569	122
	994	386	62	192	62

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 07JUL86 TO 10JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	27	0	0	0	0
	0	27		0	0	
TAPPAN ZEE	0	0	0	0	0	0
	0	0		0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0		0	0	
INDIAN POINT	354	0	32	33	0	0
	180	0	20	33	0	0
WEST POINT	607	455	NS	0	0	NS
	157	145		0	0	
CORNWALL	65	303	111	0	35	249
	46	107	111	0	18	249
POUGHKEEPSIE	481	196	NS	0	0	NS
	193	124		0	0	
HYDE PARK	93	0	NS	0	0	NS
	62	0		0	0	
KINGSTON	49	0	NS	0	67	NS
	49	0		0	39	
SAUGERTIES	0	0	NS	0	81	NS
	0	0		0	47	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	1649	982	143	33	183	249
	320	221	112	33	63	249



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29APR86 TO 02MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 05MAY86 TO 09MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	18	0	0	0	0	0
	18	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
	0	0	0	0	0	0
CORNWALL	0	10	0	0	0	0
	0	10	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
	0	0	0	0	0	0
HYDE PARK	138	1674	NS	0	0	NS
	76	1597	0	0	0	0
KINGSTON	518	135	NS	0	0	NS
	234	61	0	0	0	0
SAUGERTIES	221	316	NS	0	0	NS
	111	169	0	0	0	0
CATSKILL	3911	674	NS	0	0	NS
	2005	606	0	0	0	0
ALBANY	37	57	NS	0	0	NS
	23	57	0	0	0	0
TOTAL STANDING CROP	4843	2866	0	0	0	0
	2024	1718	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 12MAY86 TO 16MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	726	66	40	0
WEST POINT	4594	468	NS	NS
CORNWALL	26251	1223	290	0
POUGHKEEPSIE	767561	13331	NS	NS
HYDE PARK	1113012	160397	NS	NS
KINGSTON	431508	119898	NS	NS
SAUGERTIES	973742	51645	NS	NS
CATSKILL	195921	11116	NS	NS
ALBANY	176	282	NS	NS
TOTAL STANDING CROP	3513491	358427	330	0
	513960	67889	91	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 19MAY86 TO 23MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	3722	115	221	0	0	0
	1843	115	163	0	0	0
INDIAN POINT	10853	690	939	0	0	0
	2903	346	485	0	0	0
WEST POINT	239726	1814	NS	0	0	NS
	56814	929		0	0	
CORNWALL	247461	22460	13580	0	0	0
	169256	4903	6513	0	0	0
POUGHKEEPSIE	1499596	120590	NS	0	0	NS
	503223	31345		0	0	
HYDE PARK	525467	137882	NS	0	0	NS
	253307	17425		0	0	
KINGSTON	430458	61215	NS	0	0	NS
	44477	37013		0	0	
SAUGERTIES	158868	35142	NS	0	0	NS
	59170	9872		0	0	
CATSKILL	96449	8330	NS	0	0	NS
	78457	858		0	0	
ALBANY	2844	282	NS	0	0	NS
	912	48		0	0	
TOTAL STANDING CROP	3215444	388520	14739	0	0	0
	600766	52719	6533	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27MAY86 TO 31MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	2939 1742	179 179	29 29	0 0	0 0	0 0
TAPPAN ZEE	8292 2160	10481 4934	12734 7258	0 0	0 0	0 0
CROTON-HAVERSTRAW	21501 7295	148283 69057	34657 21473	0 0	0 0	0 0
INDIAN POINT	262304 28321	168306 30885	14368 6262	0 0	0 0	0 0
WEST POINT	524454 68623	88144 22168	NS	0 0	0 0	NS
CORNWALL	257995 45632	135501 24599	75357 22708	0 0	0 0	0 0
POUGHKEEPSIE	433943 67729	424738 59485	NS	0 0	0 0	NS
HYDE PARK	311729 47669	54087 8911	NS	0 0	0 0	NS
KINGSTON	91502 31357	36440 8553	NS	0 0	0 0	NS
SAUGERTIES	68056 32951	59098 25706	NS	0 0	0 0	NS
CATSKILL	94613 49981	42255 36048	NS	0 0	0 0	NS
ALBANY	150 150	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	2077478 138134	1167511 111781	137145 32690	0 0	0 0	0 0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 02JUN86 TO 05JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	636	385	324	0	0	0
	486	160	324	0	0	0
CROTON-HAVERSTRAM	3525	2044	3421	0	0	0
	1399	819	1353	0	0	0
INDIAN POINT	146994	14912	14477	0	0	0
	14133	2599	1718	0	0	0
WEST POINT	306984	88436	NS	0	0	NS
	38985	16042		0	0	
CORNWALL	188318	153590	15757	0	0	0
	33942	53053	6396	0	0	0
POUGHKEEPSIE	703826	96051	NS	0	0	NS
	135186	19869		0	0	
HYDE PARK	232691	94047	NS	0	0	NS
	51470	4771		0	0	
KINGSTON	138816	154083	NS	0	0	NS
	22554	35249		0	0	
SAUGERTIES	427482	156092	NS	0	0	NS
	97810	11099		0	0	
CATSKILL	386124	100558	NS	0	0	NS
	100478	38541		0	0	
ALBANY	1463	1245	NS	0	0	NS
	417	1035		0	0	
TOTAL STANDING CROP	2536860	861442	33979	0	0	0
	209690	79681	6767	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 09JUN86 TO 12JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	186 186	0 0	0 0	0 0	0 0	0 0
TAPPAN ZEE	0 0	1868 1109	432 432	0 0	0 0	0 0
CROTON-HAVERSTRAM	6240 1189	3834 1731	3879 1298	0 0	0 0	0 0
INDIAN POINT	68657 10914	4285 2150	5956 2678	0 0	0 0	0 0
WEST POINT	129103 15883	26107 4920	NS NS	0 0	0 0	NS NS
CORNWALL	91711 16248	46725 8338	15329 7053	0 0	0 0	0 0
POUGHKEEPSIE	449743 61678	121737 30895	NS NS	0 0	0 0	NS NS
HYDE PARK	185338 30675	37252 3535	NS NS	0 0	0 0	NS NS
KINGSTON	126451 29865	47108 8550	NS NS	0 0	0 0	NS NS
SAUGERTIES	353852 143245	104716 36084	NS NS	0 0	0 0	NS NS
CATSKILL	193020 117017	62049 7242	NS NS	0 0	0 0	NS NS
ALBANY	2758 1714	2104 2104	NS NS	0 0	0 0	NS NS
TOTAL STANDING CROP	1607059 201219	457786 50016	25596 7668	0 0	0 0	0 0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 16JUN86 TO 19JUN86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	28	0	0
	0	28	0	0
TAPPAN ZEE	228	0	0	0
	157	0	0	0
CROTON-HAVERSTRAW	893	1190	0	0
	538	243	0	0
		2737		
		1065		
INDIAN POINT	8766	2119	0	0
	1713	591	0	0
WEST POINT	24191	4440	229	78
	2516	994	121	41
CORNWALL	34062	20263	22	10
	18494	6584	22	10
POUGHKEEPSIE	66168	20711	49	0
	12959	5810	49	0
HYDE PARK	64924	51362	0	42
	5153	12249	0	42
KINGSTON	42534	140918	0	195
	5466	49453	0	65
SAUGERTIES	32737	43803	0	0
	13879	14269	0	0
CATSKILL	15112	3311	0	0
	4611	1553	0	0
ALBANY	64	130	0	0
	32	71	0	0
TOTAL STANDING CROP	289679	288277	300	325
	28105	53667	133	88



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 23JUN86 TO 27JUN86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	2884 1159	323 195	0	0 0	0 0	0
TAPPAN ZEE	1978 757	781 287	2708 687	0 0	0 0	0 0
CROTON-HAVERSTRAW	1450 298	1066 382	563 120	0 0	0 0	0 0
INDIAN POINT	7980 1207	2583 1165	751 249	102 55	77 77	0 0
WEST POINT	21905 2659	4050 1069	NS	231 103	11 11	NS
CORNWALL	48212 11356	24292 6825	4996 3017	24 24	441 309	96 48
POUGHKEEPSIE	95465 17633	59886 24260	NS	2037 1592	851 433	NS
HYDE PARK	76195 16385	27240 5906	NS	1237 627	396 126	NS
KINGSTON	46841 9830	17398 8861	NS	274 274	68 68	NS
SAUGERTIES	5110 2943	5815 971	NS	0 0	0 0	NS
CATSKILL	1469 696	2605 545	NS	0 0	0 0	NS
ALBANY	2625 2576	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	312114 28832	146041 27433	9019 3106	3905 1737	1844 556	96 48

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 30JUN86 TO 03JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	153	0	0	0	0
	0	153		0	0	
TAPPAN ZEE	0	47	132	0	0	0
	0	47	132	0	0	0
CROTON-HAVERSTRAW	35	126	42	0	0	54
	35	64	42	0	0	54
INDIAN POINT	3479	1224	181	0	214	23
	854	993	107	0	214	23
WEST POINT	6910	2823	NS	851	459	NS
	968	329		225	216	
CORNWALL	7379	4642	2563	0	427	82
	1506	1249	1698	0	170	82
POUGHKEEPSIE	37624	9424	NS	2030	202	NS
	6172	2972		977	148	
HYDE PARK	25532	35872	NS	892	4068	NS
	5845	12942		596	1290	
KINGSTON	15981	31329	NS	90	1510	NS
	2872	12331		90	884	
SAUGERTIES	11054	10084	NS	0	35	NS
	3212	3238		0	35	
CATSKILL	22691	4181	NS	0	0	NS
	1544	2452		0	0	
ALBANY	3914	134	NS	0	0	NS
	1350	134		0	0	
TOTAL STANDING CROP	134599	100038	2918	3862	6915	159
	9948	18644	1707	1170	1609	101

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 07JUL86 TO 10JUL86 - STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	30	0	0	0	0
	0	30		0	0	
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	125	0	7	0	0	0
	97	0	7	0	0	0
WEST POINT	3117	547	NS	0	11	NS
	640	294		0	11	
CORNWALL	982	2219	90	0	182	249
	301	803	26	0	99	235
POUGHKEEPSIE	17539	5854	NS	895	550	NS
	2134	3381		528	309	
HYDE PARK	7972	7170	NS	246	902	NS
	1346	2525		171	471	
KINGSTON	8818	6497	NS	491	199	NS
	2162	849		343	87	
SAUGERTIES	16526	3034	NS	0	39	NS
	1865	826		0	39	
CATSKILL	8884	1233	NS	0	0	NS
	6915	635		0	0	
ALBANY	347	0	NS	0	0	NS
	180	0		0	0	
TOTAL STANDING CROP	64310	26584	97	1631	1883	249
	7930	4511	27	653	580	235

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29APR86 TO 02MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	2908	1704	0	665	286
	0	1898	860	0	329	286
TAPPAN ZEE	0	1634	321	0	3930	116
	0	850	204	0	1453	116
CROTON-HAVERSTRAW	0	2913	834	0	1162	90
	0	2825	542	0	1162	90
INDIAN POINT	2850	3806	15	2162	1351	0
	1249	1367	15	1203	679	0
WEST POINT	4507	923	NS	9039	3393	NS
	1652	582		4279	1232	
CORNWALL	0	391	93	0	3790	199
	0	167	69	0	1410	122
POUGHKEEPSIE	0	254	NS	0	799	NS
	0	186		0	305	
HYDE PARK	74	311	NS	221	242	NS
	74	114		185	149	
KINGSTON	0	0	NS	0	18	NS
	0	0		0	18	
SAUGERTIES	0	0	NS	0	0	NS
	0	0		0	0	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	12	NS	0	0	NS
	0	12		0	0	
TOTAL STANDING CROP	7431	13152	2967	11422	15349	692
	2073	3820	1039	4449	2766	344

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 05MAY86 TO 09MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	1198	3061	0	8631	5101
	0	9451	2388	0	6143	3727
TAPPAN ZEE	0	539	117	0	1436	106
	0	215	117	0	694	106
CROTON-HAVERSTRAW	26	631	154	0	1507	100
	26	202	59	0	995	32
INDIAN POINT	9684	1750	0	12917	3011	0
	4482	846	0	3933	1362	0
WEST POINT	754	141	NS	23876	6503	NS
	257	93		6321	5716	
CORNWALL	0	215	0	156	920	0
	0	77	0	156	396	0
POUGHKEEPSIE	325	286	NS	139	0	NS
	325	180		93	0	
HYDE PARK	101	248	NS	102	377	NS
	71	164		74	208	
KINGSTON	0	41	NS	0	143	NS
	0	26		0	78	
SAUGERTIES	0	0	NS	0	0	NS
	0	0		0	0	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	10890	15050	3331	37191	23528	5307
	4502	9497	2391	7447	8599	3729

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 12MAY86 TO 16MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	900	38	143	17983	607
	0	607	38	143	7863	607
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	5169	0
	0	0	0	0	4361	0
INDIAN POINT	58	105	0	3198	5426	0
	43	105	0	2173	2687	0
WEST POINT	67	0	NS	23973	22759	NS
	40	0		6702	22626	
CORNWALL	0	0	0	694	1927	0
	0	0	0	694	799	0
POUGHKEEPSIE	0	0	NS	0	766	NS
	0	0		0	385	
HYDE PARK	0	0	NS	131	2072	NS
	0	0		131	976	
KINGSTON	0	0	NS	0	0	NS
	0	0		0	0	
SAUGERTIES	0	0	NS	0	0	NS
	0	0		0	0	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	125	1005	38	28139	56102	607
	59	616	38	7082	24531	607

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 19MAY86 TO 23MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	223	10619
	0	0	0	0	223	10619
TAPPAN ZEE	0	0	0	0	139	147
	0	0	0	0	47	147
CROTON-HAVERSTRAW	0	0	0	0	9021	32
	0	0	0	0	6763	32
INDIAN POINT	110	32	0	26629	32765	0
	48	21	0	8801	12293	0
WEST POINT	16	0	NS	12407	2092	NS
	16	0	NS	4927	214	NS
CORNWALL	0	0	0	0	846	0
	0	0	0	0	466	0
POUGHKEEPSIE	0	0	NS	0	124	NS
	0	0	NS	0	124	NS
HYDE PARK	0	0	NS	245	830	NS
	0	0	NS	245	513	NS
KINGSTON	0	0	NS	0	0	NS
	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
	0	0	NS	0	0	NS
TOTAL STANDING CROP	126	32	0	39281	46039	10798
	51	21	0	10090	14052	10620

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27MAY86 TO 31MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	16339	1542
	0	0	0	0	12161	817
TAPPAN ZEE	0	0	0	953	11612	0
	0	0	0	571	6914	0
CROTON-HAVERSTRAW	0	0	0	0	5489	0
	0	0	0	0	1367	0
INDIAN POINT	0	0	0	4780	17491	220
	0	0	0	2134	6619	177
WEST POINT	0	0	NS	3457	1168	NS
	0	0	NS	1205	485	NS
CORNWALL	0	0	0	0	157	0
	0	0	0	0	44	0
POUGHKEEPSIE	0	0	NS	156	402	NS
	0	0	NS	76	113	NS
HYDE PARK	0	0	NS	0	61	NS
	0	0	NS	0	33	NS
KINGSTON	0	0	NS	0	56	NS
	0	0	NS	0	33	NS
SAUGERTIES	0	0	NS	0	49	NS
	0	0	NS	0	30	NS
CATSKILL	0	0	NS	0	99	NS
	0	0	NS	0	99	NS
ALBANY	0	0	NS	0	94	NS
	0	0	NS	0	57	NS
TOTAL STANDING CROP	0	0	0	9345	53017	1762
	0	0	0	2518	15545	836



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 02JUN86 TO 05JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	177	5541	469
	0	0	0	177	1717	368
TAPPAN ZEE	0	0	0	123	7292	0
	0	0	0	123	3960	0
CROTON-HAVERSTRAW	0	0	0	0	1148	0
	0	0	0	0	715	0
INDIAN POINT	0	0	0	386	919	0
	0	0	0	183	540	0
WEST POINT	0	0	NS	1805	6325	NS
	0	0		443	4069	
CORNWALL	0	0	0	0	3099	11
	0	0	0	0	1001	11
POUGHKEEPSIE	0	0	NS	30	109	NS
	0	0		30	45	
HYDE PARK	0	0	NS	29	15	NS
	0	0		29	15	
KINGSTON	0	0	NS	0	80	NS
	0	0		0	51	
SAUGERTIES	0	0	NS	0	32	NS
	0	0		0	32	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	0	NS	0	28	NS
	0	0		0	28	
TOTAL STANDING CROP	0	0	0	2551	24588	480
	0	0	0	527	6082	368

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 09JUN86 TO 12JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	6452 2141	2314
TAPPAN ZEE	0	0	0	0	45 45	0 0
CROTON-HAVERSTRAW	0	0	0	0	76 56	0 0
INDIAN POINT	0	0	0	1239 820	780 162	9 9
WEST POINT	0	0	NS	3938 801	1236 389	NS
CORNWALL	0	0	0	21 21	699 153	0 0
POUGHKEEPSIE	0	0	NS	45 45	672 377	NS
HYDE PARK	0	0	NS	0	22 22	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	5243 1147	9983 2220	2322 9

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 16JUN86 TO 19JUN86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	4111	100
	0	0		0	1438	
TAPPAN ZEE	0	0	0	0	6664	0
	0	0		0	3371	0
CROTON-HAVERSTRAW	0	0	0	0	6119	133
	0	0		0	2250	77
INDIAN POINT	0	0	0	1625	4651	0
	0	0		459	928	0
WEST POINT	0	0	NS	557	1149	NS
	0	0		235	566	
CORNWALL	0	0	0	0	513	0
	0	0		0	166	0
POUGHKEEPSIE	0	0	NS	0	543	NS
	0	0		0	292	
HYDE PARK	0	0	NS	0	22	NS
	0	0		0	22	
KINGSTON	0	0	NS	0	0	NS
	0	0		0	0	
SAUGERTIES	0	0	NS	0	35	NS
	0	0		0	35	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	0	0	0	2182	23808	233
	0	0	0	516	4448	77

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 23JUN86 TO 27JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	138	4098	1400
	0	0		91	1030	
TAPPAN ZEE	0	0	0	709	1646	0
	0	0		431	671	0
CROTON-HAVERSTRAN	0	0	0	0	1215	0
	0	0	0	0	164	0
INDIAN POINT	0	0	0	600	2958	10
	0	0	0	252	980	10
WEST POINT	0	0	NS	918	1435	NS
	0	0		202	566	
CORNWALL	0	0	0	0	923	0
	0	0	0	0	185	0
POUGHKEEPSIE	0	0	NS	0	1185	NS
	0	0		0	447	
HYDE PARK	0	0	NS	0	23	NS
	0	0		0	23	
KINGSTON	0	0	NS	0	0	NS
	0	0		0	0	
SAUGERTIES	0	0	NS	0	0	NS
	0	0		0	0	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	0	0	0	2365	13484	1410
	0	0	0	546	1748	10

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 30JUN86 TO 03JUL86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	16574 4757	473
TAPPAN ZEE	0	0	0	584 584	18344 7634	0 0
CROTON-HAVERSTRAM	0	0	0	0	324 145	0 0
INDIAN POINT	0	0	0	85 85	2422 668	23 13
WEST POINT	0	0	NS	674 233	3193 588	NS
CORNWALL	0	0	0	67 67	1090 212	0 0
POUGHKEEPSIE	0	0	NS	47 47	682 409	NS
HYDE PARK	0	0	NS	0	277 149	NS
KINGSTON	0	0	NS	0	158 94	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	166 166	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	1457 639	43230 9055	496 13

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 07JUL86 TO 10JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	CHANNEL	BOTTOM	
YONKERS	0	0	0	4776	243
	0	0	0	880	
TAPPAN ZEE	0	0	0	14432	124
	0	0	0	5664	124
CROTON-HAVERSTRAW	0	0	0	1448	0
	0	0	0	1221	0
INDIAN POINT	0	0	31	213	8
	0	0	31	130	8
WEST POINT	0	0	2453	3372	NS
	0	0	952	1094	
CORNWALL	0	0	22	641	0
	0	0	22	112	0
POUGHKEEPSIE	0	0	0	1936	NS
	0	0	0	1061	
HYDE PARK	0	0	0	22	NS
	0	0	0	22	
KINGSTON	0	0	0	0	NS
SAUGERTIES	0	0	0	0	NS
CATSKILL	0	0	0	0	NS
ALBANY	0	0	0	16	NS
	0	0	0	16	
TOTAL STANDING CROP	0	0	2506	26854	374
	0	0	953	6058	124

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29APR86 TO 02MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 05MAY86 TO 09MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE				YOUNG-OF-YEAR			
	CHANNEL	BOTTOM	SHOAL		CHANNEL	BOTTOM	SHOAL	
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	NS	NS
CORNWALL	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	NS	NS
HYDE PARK	0	0	NS	NS	0	0	NS	NS
KINGSTON	0	0	NS	NS	0	0	NS	NS
SAUGERTIES	0	0	NS	NS	0	0	NS	NS
CATSKILL	0	0	NS	NS	0	0	NS	NS
ALBANY	0	0	NS	NS	0	0	NS	NS
TOTAL STANDING CROP	0	0	0	0	0	0	0	0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 12MAY86 TO 16MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
	0	0	0	0	0	0
CORNWALL	0	0	0	0	0	0
	0	0	0	0	0	0
POUGHKEEPSIE	330	20	NS	0	0	NS
	261	20	0	0	0	0
HYDE PARK	2546	0	NS	0	0	NS
	1314	0	0	0	0	0
KINGSTON	831	132	NS	0	0	NS
	323	64	0	0	0	0
SAUGERTIES	2453	96	NS	0	0	NS
	1973	96	0	0	0	0
CATSKILL	11256	1890	NS	0	0	NS
	4651	676	0	0	0	0
ALBANY	5530	892	NS	0	0	NS
	2495	278	0	0	0	0
TOTAL STANDING CROP	22946	3030	0	0	0	0
	5801	740	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 19MAY86 TO 23MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
	0	0	0	0
TAPPAN ZEE	0	0	0	0
	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
	0	0	0	0
INDIAN POINT	0	0	0	0
	0	0	0	0
WEST POINT	34	0	0	0
	24	0	0	0
CORNWALL	0	10	0	0
	0	10	0	0
POUGHKEEPSIE	661	149	0	0
	397	127	0	0
HYDE PARK	322	0	0	0
	128	0	0	0
KINGSTON	8070	660	0	0
	3523	160	0	0
SAUGERTIES	11724	1201	0	0
	5516	1050	0	0
CATSKILL	15377	1412	0	0
	2902	541	0	0
ALBANY	41473	2333	0	0
	21623	352	0	0
TOTAL STANDING CROP	77661	5766	0	0
	22782	1249	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27MAY86 TO 31MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	1113	34	0	0
	481	22	0	0
CORNWALL	507	26	0	0
	224	17	0	0
POUGHKEEPSIE	12400	254	0	0
	3650	87	0	0
HYDE PARK	31139	1131	0	0
	8056	134	0	0
KINGSTON	13233	2572	0	0
	7015	1134	0	0
SAUGERTIES	19605	8286	0	0
	6084	3562	0	0
CATSKILL	6673	19105	0	0
	841	8577	0	0
ALBANY	1547	39	0	0
	586	39	0	0
TOTAL STANDING CROP	86216	31448	0	0
	12876	9358	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 02JUN86 TO 05JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	45	0	0	0
	0	0	45	0	0	0
INDIAN POINT	219	0	47	0	0	0
	119	0	28	0	0	0
WEST POINT	2035	73	NS	0	0	NS
	601	42		0	0	
CORNWALL	1568	29	233	0	0	0
	772	19	113	0	0	0
POUGHKEEPSIE	13209	492	NS	0	0	NS
	2958	180		0	0	
HYDE PARK	6119	2512	NS	0	0	NS
	2083	688		0	0	
KINGSTON	11932	4381	NS	0	0	NS
	5937	2205		0	0	
SAUGERTIES	59129	3213	NS	0	0	NS
	25916	468		0	0	
CATSKILL	363760	3949	NS	0	0	NS
	140900	1096		0	0	
ALBANY	2453	1208	NS	0	0	NS
	1573	189		0	0	
TOTAL STANDING CROP	460405	15857	325	0	0	0
	143444	2613	124	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 09JUN86 TO 12JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	79	22	96	0	0	10
	79	22	59	0	0	10
WEST POINT	1224	139	NS	92	54	NS
	684	53		53	54	
CORNWALL	206	394	119	64	0	0
	75	294	36	47	0	0
POUGHKEEPSIE	30968	730	NS	500	56	NS
	9576	324		206	56	
HYDE PARK	23386	368	NS	91	0	NS
	6218	266		60	0	
KINGSTON	16978	1620	NS	349	61	NS
	4330	524		211	35	
SAUGERTIES	35046	7682	NS	0	80	NS
	24109	3116		0	46	
CATSKILL	25477	58187	NS	0	964	NS
	17330	5394		0	815	
ALBANY	4627	2212	NS	0	16	NS
	1241	2074		0	16	
TOTAL STANDING CROP	137992	71354	215	1097	1230	10
	32136	6607	69	309	821	10

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 16JUN86 TO 19JUN86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAH	0	0	39	26
INDIAN POINT	202	0	255	0
WEST POINT	990	164	514	120
CORNWALL	2436	256	388	149
POUGHKEEPSIE	3915	840	230	186
HYDE PARK	8819	1748	318	43
KINGSTON	5248	14429	213	26
SAUGERTIES	17004	24347	343	430
CATSKILL	42024	4602	88	983
ALBANY	66	508	0	113
TOTAL STANDING CROP	80704	46894	2264	2521
	17001	11053	547	915

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 23JUN86 TO 27JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	66	0
WEST POINT	46	0	257	34
CORNWALL	32	0	88	17
POUGHKEEPSIE	681	96	352	222
HYDE PARK	357	43	212	108
KINGSTON	4550	164	656	32
SAUGERTIES	2294	97	302	32
CATSKILL	4961	551	1363	117
ALBANY	2346	180	561	53
TOTAL STANDING CROP	22855	1353	647	828
	4555	944	298	698
	33264	13571	516	1564
	13040	900	155	735
	1800	15679	0	2391
	390	5447	0	908
	101	373	0	324
	60	177	0	172
	68258	31786	3857	5513
	14207	5607	758	1378
				35
				17

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 30JUN86 TO 03JUL86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	71	0
INDIAN POINT	0	0	11	199	106	444
WEST POINT	164	49	NS	641	172	NS
CORNWALL	71	56	158	624	389	292
POUGHKEEPSIE	1796	383	NS	4702	1629	NS
HYDE PARK	5180	565	NS	8563	160	NS
KINGSTON	2567	1117	NS	2119	2645	NS
SAUGERTIES	13785	5182	NS	361	4115	NS
CATSKILL	11581	15034	NS	93	5920	NS
ALBANY	6606	3860	NS	33	397	NS
TOTAL STANDING CROP	41751	26245	169	17336	15602	736
	10230	8954	73	3105	2379	440



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 07JUL86 TO 10JUL86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	20	48
INDIAN POINT	0	0	0	64	0	7
WEST POINT	131	0	NS	217	95	NS
CORNWALL	0	0	0	87	428	395
POUGHKEEPSIE	449	564	NS	801	2442	NS
HYDE PARK	223	47	NS	1348	338	NS
KINGSTON	491	0	NS	1821	3685	NS
SAUGERTIES	3393	4051	NS	179	7221	NS
CATSKILL	7302	4352	NS	181	5426	NS
ALBANY	969	752	NS	0	540	NS
TOTAL STANDING CROP	12958	9765	0	4699	20196	450
	2918	2879	0	1410	3075	345

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29APR86 TO 02MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0
INDIAN POINT	187	0	0	0
WEST POINT	271	0	0	0
CORNWALL	1227	0	0	0
POUGHKEEPSIE	940	101	0	0
HYDE PARK	37	23	0	0
KINGSTON	115	0	0	0
SAUGERTIES	3544	50	0	0
CATSKILL	585	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	6907	174	0	0
	3487	68	48	37

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 05MAY86 TO 09MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	29	0	0	0	0	0
INDIAN POINT	169	84	0	0	0	0
WEST POINT	919	143	NS	0	0	NS
CORNWALL	1707	148	87	0	0	0
POUGHKEEPSIE	3343	276	NS	0	0	NS
HYDE PARK	7191	460	NS	0	0	NS
KINGSTON	16615	11808	NS	0	0	NS
SAUGERTIES	126841	11316	NS	0	0	NS
CATSKILL	310375	7269	NS	0	0	NS
ALBANY	10291	2256	NS	0	0	NS
TOTAL STANDING CROP	477480	33759	87	0	0	0
	180350	9970	64			

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 12MAY86 TO 16MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	25	0	0	0	0	0
	25	0	0	0	0	0
INDIAN POINT	340	0	9	0	0	0
	108	0	9	0	0	0
WEST POINT	4173	1420	NS	0	0	NS
	1317	588		0	0	
CORNWALL	5528	569	510	0	0	0
	2117	219	465	0	0	0
POUGHKEEPSIE	32483	808	NS	0	0	NS
	9839	522		0	0	
HYDE PARK	324891	7622	NS	0	0	NS
	160978	2931		0	0	
KINGSTON	362882	7308	NS	0	0	NS
	142358	1964		0	0	
SAUGERTIES	854915	31748	NS	0	0	NS
	348743	14094		0	0	
CATSKILL	1140671	40809	NS	0	0	NS
	404051	16222		0	0	
ALBANY	43089	6318	NS	0	0	NS
	16093	1788		0	0	
TOTAL STANDING CROP	2768996	96602	519	0	0	0
	575691	21866	466	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 19MAY86 TO 23MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	66	0	0	0	0	0
	42	0	0	0	0	0
INDIAN POINT	169	17	9	0	0	0
	71	17	9	0	0	0
WEST POINT	3732	1452	NS	0	0	NS
	1239	803		0	0	
CORNWALL	11862	986	1460	0	0	0
	6555	293	736	0	0	0
POUGHKEEPSIE	117647	851	NS	0	0	NS
	18807	322		0	0	
HYDE PARK	284878	9686	NS	0	0	NS
	92516	2322		0	0	
KINGSTON	1545126	32710	NS	0	0	NS
	289081	15891		0	0	
SAUGERTIES	3590062	122278	NS	0	0	NS
	934340	40959		0	0	
CATSKILL	1344557	79529	NS	0	0	NS
	1192446	38445		0	0	
ALBANY	96745	2129	NS	0	0	NS
	29992	420		0	0	
TOTAL STANDING CROP	6994844	249638	1470	0	0	0
	1545426	58435	736	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27MAY86 TO 31MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR			
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	547	0	140	0	0	0
	434	0	140	0	0	0
CROTON-HAVERSTRAW	1121	13126	694	0	0	0
	675	8324	489	0	0	0
INDIAN POINT	126112	138375	9246	92	0	0
	34226	39509	7821	92	0	0
WEST POINT	175164	39105	NS	0	0	NS
	41678	8287		0	0	
CORNWALL	191568	143509	54965	0	0	0
	57360	43883	13360	0	0	0
POUGHKEEPSIE	923383	388580	NS	0	0	NS
	198634	76677		0	0	
HYDE PARK	1064364	221328	NS	0	0	NS
	173538	27423		0	0	
KINGSTON	617533	145033	NS	0	0	NS
	162826	62700		0	0	
SAUGERTIES	9941	365741	NS	0	0	NS
	5581	119543		0	0	
CATSKILL	202609	5924	NS	0	0	NS
	191700	2809		0	0	
ALBANY	26989	99	NS	0	0	NS
	20700	79		0	0	
TOTAL STANDING CROP	3339330	1460821	65044	92	0	0
	373485	168778	15489	92	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 02JUN86 TO 05JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	36	0	0	0
	0	0	36	0	0	0
TAPPAN ZEE	123	0	0	0	0	0
	123	0	0	0	0	0
CROTON-HAVERSTRAW	203	429	584	0	0	0
	149	244	196	0	0	0
INDIAN POINT	19643	4758	2145	0	0	0
	5274	1144	397	0	0	0
WEST POINT	149051	44770	NS	122	0	NS
	31869	7673		122	0	
CORNWALL	374927	65450	48114	0	0	0
	135629	15286	9219	0	0	0
POUGHKEEPSIE	1082419	204496	NS	0	0	NS
	81877	37284		0	0	
HYDE PARK	397446	243015	NS	0	0	NS
	49158	32687		0	0	
KINGSTON	417420	271088	NS	0	0	NS
	107343	25263		0	0	
SAUGERTIES	962829	295703	NS	0	0	NS
	147708	28800		0	0	
CATSKILL	569335	249871	NS	0	0	NS
	515858	59919		0	0	
ALBANY	44834	66297	NS	0	0	NS
	7734	38487		0	0	
TOTAL STANDING CROP	4018230	1445877	50879	122	0	0
	572773	96393	9230	122	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 09JUN86 TO 12JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0		0	0	
TAPPAN ZEE	0	45	288	0	0	0
	0	45	288	0	0	0
CROTON-HAVERSTRAW	360	95	0	0	0	0
	119	36	0	0	0	0
INDIAN POINT	27851	10102	3416	0	0	0
	9072	10020	1843	0	0	0
WEST POINT	215618	23428	NS	0	0	NS
	75165	10701		0	0	
CORNWALL	52890	28844	29185	23	0	0
	18460	7086	5320	23	0	0
POUGHKEEPSIE	393977	57542	NS	146	0	NS
	54561	17499		107	0	
HYDE PARK	273715	41872	NS	46	0	NS
	58255	4430		46	0	
KINGSTON	266941	56775	NS	0	169	NS
	73951	21407		0	48	
SAUGERTIES	511059	98395	NS	0	146	NS
	187487	35468		0	146	
CATSKILL	465093	205996	NS	0	50	NS
	361302	191188		0	50	
ALBANY	22220	47880	NS	0	16	NS
	18461	37502		0	16	
TOTAL STANDING CROP	2229725	570974	32889	214	380	0
	428887	200665	5638	118	162	0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 16JUN86 TO 19JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	75	133	0	0	0
	0	52	77	0	0	0
INDIAN POINT	1079	0	651	0	0	74
	751	0	520	0	0	50
WEST POINT	12252	3072	NS	363	123	NS
	2160	928		93	32	
CORNWALL	33401	6940	8598	111	207	47
	10608	1374	5717	52	54	47
POUGHKEEPSIE	83496	23914	NS	0	168	NS
	16238	8499		0	85	
HYDE PARK	62358	54643	NS	516	257	NS
	5094	18137		205	134	
KINGSTON	42281	168350	NS	190	3025	NS
	9561	33911		92	529	
SAUGERTIES	56736	140774	NS	171	923	NS
	16621	72867		171	163	
CATSKILL	158504	69460	NS	0	2360	NS
	54653	23709		0	1970	
ALBANY	1292	15114	NS	32	209	NS
	1003	6645		32	45	
TOTAL STANDING CROP	451399	482342	9383	1384	7272	121
	61344	86428	5741	304	2054	68

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 23JUN86 TO 27JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR		
	CHANNEL	BOTTOM SHOAL	CHANNEL	BOTTOM SHOAL	
YONKERS	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0
INDIAN POINT	0	0	34	0	0
WEST POINT	1016	154	81	11	NS
	412	51	38	11	
CORNWALL	17840	5599	353	1667	35
	3384	1687	169	602	18
POUGHKEEPSIE	101831	34772	7948	291	NS
	17813	7052	6457	136	
HYDE PARK	117644	12894	9200	2364	NS
	33437	4208	5410	878	
KINGSTON	100677	57174	2078	2439	NS
	22014	17360	1407	515	
SAUGERTIES	16230	13505	2683	9526	NS
	1466	4495	2012	1449	
CATSKILL	12498	30545	280	3331	NS
	1816	12269	165	1612	
ALBANY	1373	9346	0	330	NS
	1271	2907	0	141	
TOTAL STANDING CROP	369108	163989	22658	19960	35
	44030	23470	8778	2477	18

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 30JUN86 TO 03JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	37	22	102
WEST POINT	206	73	NS	37	22	102
CORNWALL	104	73	NS	64	24	NS
	535	196	566	47	24	NS
	227	63	259	851	411	315
POUGHKEEPSIE	18348	4276	NS	353	175	135
	2692	1308	NS	11997	9073	NS
HYDE PARK	33086	32100	NS	2765	2423	NS
	6028	10800	NS	24104	4410	NS
KINGSTON	40279	49163	NS	6801	1178	NS
	2376	7826	NS	10530	12194	NS
SAUGERTIES	93443	33440	NS	3874	2772	NS
	36052	4012	NS	2561	11227	NS
CATSKILL	98061	17593	NS	2561	2886	NS
	10945	10797	NS	0	8455	NS
ALBANY	12989	1977	NS	0	5199	NS
	2861	1215	NS	33	473	NS
TOTAL STANDING CROP	296947	138818	566	50177	46290	417
	38432	17713	259	8694	7098	169

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 07JUL86 TO 10JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	24	12	0	23	686	129
	24	12	0	23	374	129
POUGHKEEPSIE	7331	1106	NS	5386	1840	NS
	1642	827		1939	617	
HYDE PARK	5674	966	NS	302	138	NS
	2066	429		120	68	
KINGSTON	6237	728	NS	943	13199	NS
	1153	69		485	5640	
SAUGERTIES	70749	6690	NS	0	10812	NS
	3878	2065		0	1896	
CATSKILL	10021	12814	NS	0	3898	NS
	3098	2611		0	1156	
ALBANY	415	1903	NS	0	238	NS
	55	995		0	238	
TOTAL STANDING CROP	100450	24219	0	6654	30811	129
	5739	3598	0	2003	6109	129

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29APR86 TO 02MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 05MAY86 TO 09MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE				YOUNG-OF-YEAR			
	CHANNEL		SHOAL		CHANNEL		SHOAL	
	BOTTOM	SHOAL	BOTTOM	SHOAL	BOTTOM	SHOAL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	0	NS	0	0	0	NS
CORNWALL	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	0	NS	0	0	0	NS
HYDE PARK	0	0	0	NS	0	0	0	NS
KINGSTON	0	0	0	NS	0	0	0	NS
SAUGERTIES	0	0	0	NS	0	0	0	NS
CATSKILL	0	0	0	NS	0	0	0	NS
ALBANY	0	0	0	NS	0	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 12MAY86 TO 16MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 19MAY86 TO 23MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR		
	CHANNEL	BOTTOM SHOAL	CHANNEL	BOTTOM SHOAL	
YONKERS	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0
INDIAN POINT	0	0	0	0	0
WEST POINT	0	NS	0	0	NS
CORNWALL	0	0	0	0	0
POUGHKEEPSIE	0	NS	0	0	NS
HYDE PARK	0	NS	0	0	NS
KINGSTON	0	NS	0	0	NS
SAUGERTIES	0	NS	0	0	NS
CATSKILL	0	NS	0	0	NS
ALBANY	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27MAY86 TO 31MAY86 - STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 02JUN86 TO 05JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 09JUN86 TO 12JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 16JUN86 TO 19JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 23JUN86 TO 27JUN86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	22	11	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	46	100	NS
SAUGERTIES	0	0	NS	181	376	NS
CATSKILL	0	0	NS	0	107	NS
ALBANY	0	0	NS	0	44	NS
TOTAL STANDING CROP	0	0	0	248	638	0
				188	152	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 30JUN86 TO 03JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	45
WEST POINT	0	0	NS	63	56	NS
CORNWALL	0	0	0	35	43	45
POUGHKEEPSIE	0	0	0	250	250	42
HYDE PARK	0	0	0	129	99	29
KINGSTON	0	0	NS	1391	1682	NS
SAUGERTIES	0	0	NS	554	551	NS
CATSKILL	0	0	NS	4767	272	NS
ALBANY	0	0	NS	1727	141	NS
TOTAL STANDING CROP	0	0	0	194	1624	NS
	0	0	0	149	468	NS
	0	0	NS	732	4100	NS
	0	0	NS	732	2060	NS
	0	0	NS	0	3240	NS
	0	0	NS	0	2129	NS
	0	0	NS	0	17	NS
	0	0	0	0	17	NS
	0	0	0	7397	11240	87
	0	0	0	1966	3055	54

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 07JUL86 TO 10JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	11	NS
CORNWALL	0	0	0	23	2047	46
POUGHKEEPSIE	0	0	NS	23	621	46
HYDE PARK	0	0	NS	708	2182	NS
KINGSTON	0	0	NS	463	1118	NS
SAUGERTIES	0	0	NS	912	767	NS
CATSKILL	0	0	NS	325	173	NS
ALBANY	0	0	NS	798	9180	NS
TOTAL STANDING CROP	0	0	0	639	3955	NS
	0	0	NS	354	11622	NS
	0	0	NS	354	3253	NS
	0	0	NS	0	4763	NS
	0	0	NS	0	3548	NS
	0	0	NS	0	413	NS
	0	0	NS	0	413	NS
	0	0	0	2795	30985	46
	0	0	0	924	6376	46

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEMIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29APR86 TO 02MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 05MAY86 TO 09MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 12MAY86 TO 16MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 19MAY86 TO 23MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27MAY86 TO 31MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 02JUN86 TO 05JUN86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 09JUN86 TO 12JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 16JUN86 TO 19JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	49	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	49	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 23JUN86 TO 27JUN86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	69	11	0
POUGHKEEPSIE	0	0	NS	69	11	0
HYDE PARK	0	0	NS	0	62	NS
KINGSTON	0	0	NS	0	40	NS
SAUGERTIES	0	0	NS	298	160	NS
CATSKILL	0	0	NS	140	106	NS
ALBANY	0	0	NS	469	810	NS
TOTAL STANDING CROP	0	0	0	229	241	NS
	0	0	NS	168	827	NS
	0	0	NS	168	205	NS
	0	0	NS	0	155	NS
	0	0	NS	0	93	NS
	0	0	NS	0	0	NS
	0	0	NS	0	0	NS
	0	0	0	1003	2025	0
	0	0	0	324	348	0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 30JUN86 TO 03JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	72	36	NS
CORNWALL	0	0	0	496	108	332
POUGHKEEPSIE	0	0	NS	421	45	179
HYDE PARK	0	0	NS	508	379	NS
KINGSTON	0	0	NS	171	173	NS
SAUGERTIES	0	0	NS	1116	1386	NS
CATSKILL	0	0	NS	474	865	NS
ALBANY	0	0	NS	979	1683	NS
TOTAL STANDING CROP	0	0	0	279	534	NS
				0	6769	NS
				0	1351	NS
				183	378	NS
				92	242	NS
				0	19	NS
				0	19	NS
				3355	10759	332
				721	1718	179

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 07JUL86 TO 10JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	24	46	64
POUGHKEEPSIE	0	0	NS	46	175	NS
HYDE PARK	0	0	NS	293	23	NS
KINGSTON	0	0	NS	134	23	NS
SAUGERTIES	0	0	NS	243	1389	NS
CATSKILL	0	0	NS	158	302	NS
ALBANY	0	0	NS	177	2205	NS
TOTAL STANDING CROP	0	0	0	177	757	NS
				0	1283	NS
				0	973	NS
				0	0	NS
				0	0	NS
				783	5122	64
				278	1277	64

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29APR86 TO 02MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 05MAY86 TO 09MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 12MAY86 TO 16MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 19MAY86 TO 23MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	24	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	24	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27MAY86 TO 31MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 02JUN86 TO 05JUN86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	3232 1765	1314 1314	62 62	0 0	0 0	0 0
TAPPAN ZEE	0 0	0 0	324 324	0 0	0 0	0 0
CROTON-HAVERSTRAW	0 0	0 0	0 0	0 0	0 0	0 0
INDIAN POINT	0 0	0 0	0 0	0 0	0 0	0 0
WEST POINT	0 0	0 0	NS	0 0	0 0	NS
CORNWALL	0 0	0 0	0 0	0 0	0 0	0 0
POUGHKEEPSIE	0 0	0 0	NS	0 0	0 0	NS
HYDE PARK	0 0	0 0	NS	0 0	0 0	NS
KINGSTON	0 0	0 0	NS	0 0	0 0	NS
SAUGERTIES	0 0	0 0	NS	0 0	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	0 0	NS
ALBANY	0 0	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	3232 1765	1314 1314	386 330	0 0	0 0	0 0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 09JUN86 TO 12JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	56911 10623	23431 9048	463	0 0	0 0	0
TAPPAN ZEE	9129 6318	452 102	5901 2231	0 0	0 0	0 0
CROTON-HAVERSTRAW	0 0	39 25	0 0	0 0	0 0	0 0
INDIAN POINT	0 0	0 0	0 0	0 0	0 0	0 0
WEST POINT	0 0	0 0	NS	0 0	0 0	NS
CORNWALL	0 0	0 0	0 0	0 0	0 0	0 0
POUGHKEEPSIE	0 0	0 0	NS	0 0	0 0	NS
HYDE PARK	0 0	0 0	NS	0 0	0 0	NS
KINGSTON	0 0	0 0	NS	0 0	0 0	NS
SAUGERTIES	0 0	0 0	NS	0 0	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	0 0	NS
ALBANY	0 0	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	66039 12360	23923 9049	6364 2231	0 0	0 0	0 0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 16JUN86 TO 19JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	36074 7414	87308 27891	2291	0 0	0 0	0
TAPPAN ZEE	26435 10032	40920 13054	29872 8496	0 0	0 0	0 0
CROTON-HAVERSTRAW	3391 1357	6495 2938	2031 687	0 0	0 0	0 0
INDIAN POINT	3861 1128	377 123	71 47	0 0	0 0	0 0
WEST POINT	0 0	0 0	NS	0 0	0 0	NS
CORNWALL	0 0	0 0	0 0	0 0	0 0	0 0
POUGHKEEPSIE	0 0	0 0	NS	0 0	0 0	NS
HYDE PARK	0 0	0 0	NS	0 0	0 0	NS
KINGSTON	0 0	0 0	NS	0 0	0 0	NS
SAUGERTIES	0 0	0 0	NS	0 0	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	0 0	NS
ALBANY	0 0	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	69761 12599	135101 30935	34265 8524	0 0	0 0	0 0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 23JUN86 TO 27JUN86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR		
	CHANNEL	BOTTOM SHOAL	CHANNEL	BOTTOM SHOAL	
YONKERS	54576 14396	79562 30627	25713	0 0	0 0
TAPPAN ZEE	25162 9419	7613 3157	9711 2709	0 0	0 0
CROTON-HAVERSTRAW	13696 5244	4459 1339	7712 1285	0 0	0 0
INDIAN POINT	30 30	0 0	0 0	0 0	0 0
WEST POINT	0 0	0 0	NS	0 0	NS
CORNHALL	0 0	0 0	0 0	0 0	0 0
POUGHKEEPSIE	0 0	0 0	NS	0 0	NS
HYDE PARK	0 0	0 0	NS	0 0	NS
KINGSTON	0 0	0 0	NS	0 0	NS
SAUGERTIES	0 0	0 0	NS	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	NS
ALBANY	0 0	0 0	NS	0 0	NS
TOTAL STANDING CROP	93464 17985	91633 30818	43136 2998	0 0	0 0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 30JUN86 TO 03JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	31326 6879	79273 16603	47483	0 0	33 33	0
TAPPAN ZEE	57053 22340	31142 12304	130298 75737	0 0	0 0	0 0
CROTON-HAVERSTRAM	22593 3318	24923 5062	25498 9078	0 0	0 0	0 0
INDIAN POINT	22371 4428	15763 5112	3162 1329	0 0	0 0	0 0
WEST POINT	4863 1692	513 323	NS	0 0	0 0	NS
CORNWALL	141 65	89 38	9 9	0 0	0 0	0 0
POUGHKEEPSIE	0 0	0 0	NS	0 0	0 0	NS
HYDE PARK	0 0	0 0	NS	0 0	0 0	NS
KINGSTON	0 0	0 0	NS	0 0	0 0	NS
SAUGERTIES	0 0	0 0	NS	0 0	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	0 0	NS
ALBANY	0 0	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	138346 24081	151702 21884	206450 76291	0 0	33 33	0 0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 07JUL86 TO 10JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	126927 20312	9990 3071	6073	0 0	27 27	0
TAPPAN ZEE	86826 30032	27254 906	53814 17224	0 0	0 0	0 0
CROTON-HAVERSTRAW	50816 9501	33372 19167	49609 11036	0 0	0 0	0 0
INDIAN POINT	196897 26620	88739 33905	10942 5038	0 0	0 0	0 0
WEST POINT	3580 776	327 95	NS	0 0	11 11	NS
CORNWALL	1655 363	475 189	192 70	0 0	0 0	0 0
POUGHKEEPSIE	5592 1275	402 180	NS	0 0	0 0	NS
HYDE PARK	508 204	0 0	NS	0 0	0 0	NS
KINGSTON	247 119	0 0	NS	0 0	0 0	NS
SAUGERTIES	0 0	0 0	NS	0 0	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	0 0	NS
ALBANY	0 0	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	473048 45998	160558 39080	120629 21068	0 0	38 29	0 0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29APR86 TO 02MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 05MAY86 TO 09MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	NS	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS
HYDE PARK	0	0	NS	NS
KINGSTON	0	0	NS	NS
SAUGERTIES	0	0	NS	NS
CATSKILL	0	0	NS	NS
ALBANY	0	0	NS	NS
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 12MAY86 TO 16MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 19MAY86 TO 23MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27MAY86 TO 31MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 02JUN86 TO 05JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 09JUN86 TO 12JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	26	0	0	0	0
	0	26		0	0	
TAPPAN ZEE	0	0	0	0	0	0
	0	0		0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0		0	0	
INDIAN POINT	0	0	0	0	0	0
	0	0		0	0	
WEST POINT	0	0	NS	0	0	NS
	0	0		0	0	
CORNWALL	0	0	0	0	0	0
	0	0		0	0	
POUGHKEEPSIE	0	0	NS	0	0	NS
	0	0		0	0	
HYDE PARK	0	0	NS	0	0	NS
	0	0		0	0	
KINGSTON	0	0	NS	0	0	NS
	0	0		0	0	
SAUGERTIES	0	0	NS	0	0	NS
	0	0		0	0	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	0	26	0	0	0	0
	0	26		0	0	

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 16JUN86 TO 19JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 23JUN86 TO 27JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 30JUN86 TO 03JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	140	0	0	0	0
	0	93	0	0	0	0
CROTON-HAVERSTRAW	0	18	0	0	0	0
	0	18	0	0	0	0
INDIAN POINT	32	0	0	0	0	0
	32	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
	0	0		0	0	
CORNWALL	0	0	0	0	0	0
	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
	0	0		0	0	
HYDE PARK	0	0	NS	0	0	NS
	0	0		0	0	
KINGSTON	0	0	NS	0	0	NS
	0	0		0	0	
SAUGERTIES	0	0	NS	0	0	NS
	0	0		0	0	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	32	157	0	0	0	0
	32	95	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 07JUL86 TO 10JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	165 120	27 27	0	0 0	0 0	0 0
TAPPAN ZEE	0 0	131 131	130 130	0 0	0 0	0 0
CROTON-HAVERSTRAW	0 0	73 54	0 0	0 0	0 0	0 0
INDIAN POINT	223 93	70 29	16 16	0 0	0 0	0 0
WEST POINT	0 0	0 0	NS	0 0	0 0	NS
CORNWALL	0 0	0 0	0 0	0 0	0 0	0 0
POUGHKEEPSIE	0 0	0 0	NS	0 0	0 0	NS
HYDE PARK	0 0	0 0	NS	0 0	0 0	NS
KINGSTON	0 0	0 0	NS	0 0	0 0	NS
SAUGERTIES	0 0	0 0	NS	0 0	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	0 0	NS
ALBANY	0 0	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	388 152	301 147	145 131	0 0	0 0	0 0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29APR86 TO 02MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 05MAY86 TO 09MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 12MAY86 TO 16MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 19MAY86 TO 23MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27MAY86 TO 31MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 02JUN86 TO 05JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 09JUN86 TO 12JUN86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 16JUN86 TO 19JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR		
	CHANNEL	BOTTOM SHOAL	CHANNEL	BOTTOM SHOAL	
YONKERS	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0
INDIAN POINT	0	0	0	0	0
WEST POINT	0	0	0	0	NS
CORNWALL	0	0	0	0	0
POUGHKEEPSIE	0	0	0	0	NS
HYDE PARK	0	0	0	0	NS
KINGSTON	0	0	0	0	NS
SAUGERTIES	0	0	0	0	NS
CATSKILL	0	0	0	0	NS
ALBANY	0	0	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 23JUN86 TO 27JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 30JUN86 TO 03JUL86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 07JUL86 TO 10JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29APR86 TO 02MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 05MAY86 TO 09MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 12MAY86 TO 16MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 19MAY86 TO 23MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE				YOUNG-OF-YEAR			
	CHANNEL	BOTTOM	SHOAL		CHANNEL	BOTTOM	SHOAL	
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	NS	NS
CORNWALL	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	NS	NS
HYDE PARK	0	0	NS	NS	0	0	NS	NS
KINGSTON	0	0	NS	NS	0	0	NS	NS
SAUGERTIES	0	0	NS	NS	0	0	NS	NS
CATSKILL	0	0	NS	NS	0	0	NS	NS
ALBANY	0	0	NS	NS	0	0	NS	NS
TOTAL STANDING CROP	0	0	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27MAY86 TO 31MAY86 STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 02JUN86 TO 05JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 09JUN86 TO 12JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	34	0	NS
TOTAL STANDING CROP	0	0	0	34	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 16JUN86 TO 19JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 23JUN86 TO 27JUN86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 30 JUN 86 TO 03 JUL 86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 07JUL86 TO 10JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29APR86 TO 02MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 05MAY86 TO 05MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 12MAY86 TO 16MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 19MAY86 TO 23MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27MAY86 TO 31MAY86 - STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 02JUN86 TO 05JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 09JUN86 TO 12JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 16JUN86 TO 19JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 23JUN86 TO 27JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 30JUN86 TO 03JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 07JUL86 TO 10JUL86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29APR86 TO 02MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTHOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 05MAY86 TO 09MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTHOSE STURGIION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 12MAY86 TO 16MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 19MAY86 TO 23MAY86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGIION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27MAY86 TO 31MAY86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 02JUN86 TO 05JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTRHOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 09JUN86 TO 12JUN86 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0



1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTHOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 16JUN86 TO 19JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 23JUN86 TO 27JUN86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTHOSE STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 30JUN86 TO 03JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1986 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 07-JUL86 TO 10-JUL86. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

APPENDIX J.2

1986 FALL SHOALS & BEACH SEINE SURVEYS

J.2.1 Young-of-Year and Yearling and Older

Striped bass  
White perch  
Atlantic tomcod  
American shad  
Blueback herring  
Alewife  
Bay anchovy  
Weakfish  
White catfish  
Spottail shiner  
Atlantic sturgeon  
Shortnose sturgeon

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 15JUL86 TO 25JUL86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	3	3	0	0	3	3	0	0
TAPPAN ZEE	0	0	34	17	112	43	0	12	10	7	4	3
CROTON-HAVERSTRAW	0	29	240	50	181	89	0	3	54	19	6	4
INDIAN POINT	0	5	11	5	65	29	0	0	0	0	0	0
WEST POINT	0	8	NS	NS	11	4	0	0	NS	NS	0	0
CORNWALL	0	15	12	2	186	75	0	0	0	0	2	2
POUGHKEEPSIE	201	0	NS	NS	4	4	0	0	NS	NS	0	0
HYDE PARK	0	0	NS	NS	1	<0.5	0	0	NS	NS	1	1
KINGSTON	45	6	NS	NS	21	9	0	0	NS	NS	2	2
SAUGERTIES	200	9	NS	NS	99	41	0	0	NS	NS	6	4
CATSKILL	0	1	NS	NS	6	3	0	2	NS	NS	0	0
ALBANY	0	0	NS	NS	3	3	0	0	NS	NS	0	0
TOTAL STANDING CROP	445	72	296	53	691	134	0	17	67	21	20	7

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 28-JUL-86 TO 09-AUG-86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	28	20	184	57	0	0	14	14	4	4
CROTON-HAVERSTRAW	0	49	199	69	64	18	0	0	8	6	2	2
INDIAN POINT	0	25	47	32	11	7	0	0	2	2	0	0
WEST POINT	0	10	NS	NS	4	2	0	0	NS	NS	0	0
CORNWALL	0	4	21	14	43	23	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	6	3	0	0	NS	NS	6	6
HYDE PARK	0	0	NS	NS	1	1	0	0	NS	NS	<0.5	<0.5
KINGSTON	0	3	NS	NS	0	0	0	0	NS	NS	0	0
SAUGERTIES	0	14	NS	NS	47	24	0	0	NS	NS	0	0
CATSKILL	0	5	NS	NS	14	8	0	0	NS	NS	0	0
ALBANY	0	3	NS	NS	0	0	0	0	NS	NS	0	0
TOTAL STANDING CROP	0	114	295	80	372	69	0	0	24	16	12	7



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 11AUG86 TO 22AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	6	4	0	0	0	0	0	0
TAPPAN ZEE	0	7	66	51	13	13	0	0	29	15	0	0
CROTON-HAVERSTRAW	0	42	32	69	31	31	0	0	21	10	0	0
INDIAN POINT	0	20	11	17	6	6	0	0	0	0	0	0
WEST POINT	0	20	NS	2	2	2	0	0	NS	NS	0	0
CORNWALL	0	9	2	4	4	4	0	0	3	3	0	0
POUGHKEEPSIE	0	16	NS	6	3	3	0	0	NS	NS	1	1
HYDE PARK	0	4	NS	1	1	1	0	0	NS	NS	0	0
KINGSTON	0	7	NS	2	2	2	0	0	NS	NS	0	0
SAUGERTIES	0	10	NS	2	2	2	0	0	NS	NS	0	0
CATSKILL	0	0	NS	4	3	3	38	2	NS	NS	2	2
ALBANY	0	0	NS	2	2	2	0	0	NS	NS	2	2
TOTAL STANDING CROP	0	134	111	165	55	55	38	2	53	18	5	3
	0	34	34	38	38	38	38	2	18	2	3	3

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 25AUG86 TO 06SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	383	122	93	31	0	14	46	18	2	2
CROTON-HAVERSTRAW	0	0	171	48	319	102	0	0	14	7	0	0
INDIAN POINT	0	77	58	41	70	20	0	0	0	0	0	0
WEST POINT	0	3	NS	NS	4	3	0	0	NS	NS	9	9
CORNWALL	0	8	11	5	9	3	0	0	1	1	2	2
POUGHKEEPSIE	0	0	NS	NS	16	8	0	7	NS	NS	3	3
HYDE PARK	0	3	NS	NS	<0.5	<0.5	0	0	NS	NS	0	0
KINGSTON	0	5	NS	NS	5	3	0	0	NS	NS	0	0
SAUGERTIES	0	37	NS	NS	6	4	0	2	NS	NS	8	5
CATSKILL	0	0	NS	NS	14	7	0	7	NS	NS	0	0
ALBANY	0	0	NS	NS	4	3	18	0	NS	NS	0	0
TOTAL STANDING CROP	0	133	623	137	539	109	18	30	60	23	60	23
	0	42					18	16	19	11	19	11

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 08SEP86 TO 18SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	7	7	0	0	0	9	4	4	0	0
TAPPAN ZEE	0	155	197	47	98	41	0	7	21	14	4	4
CROTON-HAVERSTRAW	0	30	487	95	267	111	0	10	39	14	4	3
INDIAN POINT	0	44	102	49	98	45	0	0	2	2	2	2
WEST POINT	0	0	NS	NS	0	0	0	0	NS	NS	0	0
CORNWALL	0	0	1	1	0	0	0	0	0	0	4	4
POUGHKEEPSIE	0	0	NS	NS	43	8	0	0	NS	NS	11	7
HYDE PARK	0	0	NS	NS	<0.5	<0.5	0	0	NS	NS	0	0
KINGSTON	0	2	NS	NS	19	13	0	0	NS	NS	0	0
SAUGERTIES	0	2	NS	NS	2	2	0	0	NS	NS	4	3
CATSKILL	0	0	NS	NS	0	0	0	0	NS	NS	2	2
ALBANY	0	0	NS	NS	2	2	0	0	NS	NS	0	0
TOTAL STANDING CROP	0	233	795	117	529	128	0	26	65	20	30	10
	0	74					0	13				

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 22SEP86 TO 02OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	8	228	228	45	45	0	0	4	4	4	4
CROTON-HAVERSTRAW	0	4	201	201	138	138	0	0	0	0	0	2
INDIAN POINT	0	0	76	76	13	13	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	1	1	0	0	NS	NS	NS	0
CORNWALL	0	0	2	2	5	4	0	0	1	1	1	0
POUGHKEEPSIE	0	0	NS	NS	1	1	0	7	NS	NS	NS	0
HYDE PARK	86	0	NS	NS	<0.5	<0.5	0	0	NS	NS	NS	0
KINGSTON	0	3	NS	NS	2	2	0	0	NS	NS	NS	0
SAUGERTIES	0	4	NS	NS	2	2	0	2	NS	NS	NS	2
CATSKILL	0	0	NS	NS	16	11	0	0	NS	NS	NS	0
ALBANY	0	0	NS	NS	0	0	0	1	NS	NS	NS	0
TOTAL STANDING CROP	86	18	508	508	224	38	0	10	5	8	5	8
	86	10	99	99			0	8	4	4	4	4

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 07OCT86 TO 16OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	3	3	3	3
TAPPAN ZEE	0	0	0	244	44	36	0	0	42	14	9	5
CROTON-HAVERSTRAW	0	25	13	408	69	30	0	0	25	8	0	0
INDIAN POINT	0	11	11	47	7	3	0	0	6	6	0	0
WEST POINT	0	0	0	NS	2	1	0	0	NS	NS	0	0
CORNWALL	0	0	0	2	25	13	0	0	1	1	4	2
POUGHKEEPSIE	0	0	0	NS	3	2	0	0	NS	NS	1	1
HYDE PARK	0	0	0	NS	<0.5	<0.5	0	0	NS	NS	0	0
KINGSTON	0	2	2	NS	0	0	0	0	NS	NS	2	2
SAUGERTIES	0	12	5	NS	2	2	0	0	NS	NS	8	8
CATSKILL	42	0	0	NS	2	2	0	0	NS	NS	0	0
ALBANY	0	0	0	NS	0	0	0	0	NS	NS	0	0
TOTAL STANDING CROP	42	50	18	701	154	49	0	0	78	13	27	10
	42			139			0	0	18	7		

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 20OCT86 TO 30OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	21	0	0	0	0	0	7	5	0	0
TAPPAN ZEE	0	34	733	13	7	0	0	0	58	20	2	2
CROTON-HAVERSTRAW	0	60	557	127	43	0	0	14	28	10	4	4
INDIAN POINT	0	17	118	37	14	0	0	6	12	7	0	0
WEST POINT	0	0	NS	1	1	0	0	0	NS	NS	1	1
CORNWALL	0	4	2	0	0	0	0	4	4	4	5	5
POUGHKEEPSIE	0	0	NS	1	1	0	0	0	NS	NS	0	0
HYDE PARK	0	0	NS	0	0	0	0	0	NS	NS	0	0
KINGSTON	0	2	NS	2	2	0	0	0	NS	NS	0	0
SAUGERTIES	0	0	NS	0	0	0	0	0	NS	NS	2	2
CATSKILL	0	2	NS	0	0	0	0	0	NS	NS	2	2
ALBANY	0	0	NS	0	0	0	0	0	NS	NS	0	0
TOTAL STANDING CROP	0	119	1432	181	46	0	0	24	108	24	16	16
	0	45	219	46		0	0	9	24	9	7	7

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 03NOV86 TO 14NOV86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	7	0	0	0	16	0
	0	0	5	0	0	0	11	0
TAPPAN ZEE	0	10	449	15	0	6	41	13
	0	10	132	7	0	6	13	5
CROTON-HAVERSTRAN	0	6	349	102	0	0	46	0
	0	4	69	39	0	0	11	0
INDIAN POINT	0	0	0	24	0	0	0	0
	0	0	0	2	0	0	0	0
WEST POINT	0	0	NS	1	0	0	NS	1
	0	0	NS	1	0	0	NS	1
CORNWALL	0	0	0	0	0	0	2	5
	0	0	0	0	0	0	2	4
POUGHKEEPSIE	0	0	NS	11	0	0	NS	9
	0	0	NS	8	0	0	NS	7
HYDE PARK	0	0	NS	<0.5	0	0	NS	0
	0	0	NS	<0.5	0	0	NS	0
KINGSTON	0	0	NS	5	0	0	NS	0
	0	0	NS	2	0	0	NS	0
SAUGERTIES	0	0	NS	0	0	0	NS	2
	0	0	NS	0	0	0	NS	2
CATSKILL	0	0	NS	0	0	0	NS	0
	0	0	NS	0	0	0	NS	0
ALBANY	0	0	NS	0	0	0	NS	0
	0	0	NS	0	0	0	NS	0
TOTAL STANDING CROP	0	17	805	158	0	6	106	30
	0	11	149	41	0	6	20	10

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 17NOV86 TO 02DEC86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	41	9	6	0	0	0	0	0	3	0	0
	0	20	4	4	0	0	0	0	0	3	0	0
TAPPAN ZEE	204	0	18	49	0	0	0	0	0	12	0	0
	102	0	8	19	0	0	0	0	0	9	0	0
CROTON-HAVERSTRAW	0	28	18	77	0	0	0	9	13	2	2	0
	0	14	10	27	0	0	0	4	11	2	0	0
INDIAN POINT	0	0	0	7	0	0	0	0	2	7	0	0
	0	0	0	7	0	0	0	0	2	7	0	0
WEST POINT	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	0	0	0	0	0	0	0	NS	0	0
HYDE PARK	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	0	0	0	0	0	0	0	NS	0	0
KINGSTON	0	3	NS	0	0	0	0	0	NS	0	0	0
	0	3	0	0	0	0	0	0	0	NS	0	0
SAUGERTIES	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	0	0	0	0	0	0	0	NS	0	0
CATSKILL	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	0	0	0	0	0	0	0	NS	0	0
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	0	0	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	204	72	46	139	0	0	0	9	30	9	8	0
	102	25	13	34	0	0	0	4	15	0	0	0



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 15 JUL 86 TO 25 JUL 86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	10	10	2	2	0	0	0	0	0	2
	0	0	10	10	2	2	0	0	0	0	0	2
TAPPAN ZEE	0	7	10	184	52	184	0	738	4131	524	129	524
	0	7	7	52	52	52	0	247	719	129	129	129
CROTON-HAVERSTRAM	0	0	3	113	68	113	0	877	3520	1066	806	1066
	0	0	3	68	68	68	0	154	954	806	806	806
INDIAN POINT	0	0	2	50	25	50	0	27	68	217	125	217
	0	0	2	25	25	25	0	21	39	125	125	125
WEST POINT	335	59	NS	40	33	40	488	249	NS	30	10	30
	168	16	NS	33	33	33	488	82	NS	10	10	10
CORNWALL	174	64	652	309	114	309	0	559	295	41	27	41
	174	31	379	114	114	114	0	189	119	27	27	27
POUGHKEEPSIE	197	68	NS	268	147	268	871	422	NS	31	28	31
	197	31	NS	147	147	147	601	101	NS	28	28	28
HYDE PARK	835	43	NS	10	6	10	273	310	NS	<0.5	<0.5	<0.5
	589	29	NS	6	6	6	273	110	NS	<0.5	<0.5	<0.5
KINGSTON	1228	108	NS	14	9	14	981	270	NS	96	60	96
	600	38	NS	9	9	9	933	62	NS	60	60	60
SAUGERTIES	102	129	NS	170	74	170	0	718	NS	464	153	464
	65	80	NS	74	74	74	0	149	NS	153	153	153
CATSKILL	0	3	NS	152	120	152	37	234	NS	293	144	293
	0	2	NS	120	120	120	37	69	NS	144	144	144
ALBANY	18	0	NS	0	0	0	22	134	NS	0	0	0
	18	0	NS	0	0	0	22	58	NS	0	0	0
TOTAL STANDING CROP	2888	481	676	1311	252	1311	2673	4537	8013	2765	855	2765
	899	104	379	252	252	252	1244	429	1201	855	855	855

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 28JUL86 TO 09AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	12	0	8	6
	0	0	0	0	0	0	0	0	0	0	0	6
TAPPAN ZEE	0	0	35	35	143	335	0	0	1908	303	614	594
	0	0	18	18	143	143	0	0	614	170	189	189
CROTON-HAVERSTRAW	0	15	19	19	62	62	0	0	642	251	211	449
	0	6	7	7	23	23	0	0	211	114	211	312
INDIAN POINT	0	20	34	34	35	35	0	0	117	115	51	74
	0	17	20	20	21	21	0	0	51	70	51	32
WEST POINT	0	111	NS	NS	41	41	0	0	NS	33	NS	7
	0	69	NS	NS	24	24	0	0	NS	21	NS	4
CORNWALL	0	386	203	203	12	12	0	0	87	441	40	71
	0	106	130	130	3	3	0	0	40	69	40	24
POUGHKEEPSIE	0	106	NS	NS	138	138	0	0	NS	448	NS	9
	0	41	NS	NS	55	55	0	0	NS	140	NS	9
HYDE PARK	353	329	NS	NS	35	35	981	250	NS	47	NS	8
	206	111	NS	NS	12	12	586	47	NS	47	NS	3
KINGSTON	0	97	NS	NS	0	0	297	621	NS	177	NS	24
	0	55	NS	NS	0	0	170	177	NS	177	NS	10
SAUGERTIES	0	87	NS	NS	298	298	0	483	NS	483	NS	158
	0	35	NS	NS	148	148	0	124	NS	124	NS	42
CATSKILL	0	9	NS	NS	449	449	0	261	NS	92	NS	348
	0	4	NS	NS	297	297	0	92	NS	92	NS	126
ALBANY	0	0	NS	NS	0	0	18	44	NS	44	NS	14
	0	0	NS	NS	0	0	18	18	NS	18	NS	14
TOTAL STANDING CROP	353	1161	291	291	1405	1405	1296	3249	2766	3249	2766	1762
	206	186	133	133	368	368	611	360	653	360	653	391

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 11AUG86 TO 22AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	2	2	0	31	38	16	0	0
TAPPAN ZEE	0	7	7	15	290	110	0	352	2759	396	420	158
CROTON-HAVERSTRAW	0	7	5	16	188	57	0	106	2625	829	33	14
INDIAN POINT	0	4	4	19	214	146	0	59	116	39	50	29
WEST POINT	0	61	43	NS	15	13	150	19	NS	NS	8	7
CORNWALL	0	476	119	75	16	14	0	557	298	145	12	12
POUGHKEEPSIE	0	525	151	NS	67	41	210	1464	NS	NS	7	7
HYDE PARK	0	127	25	NS	32	27	90	196	NS	NS	3	1
KINGSTON	0	46	20	NS	3	3	129	622	NS	NS	3	2
SAUGERTIES	0	48	11	NS	117	58	336	466	NS	NS	64	30
CATSKILL	0	2	2	NS	51	26	0	287	NS	NS	201	128
ALBANY	0	0	0	NS	4	4	0	177	NS	NS	45	24
TOTAL STANDING CROP	0	1304	200	125	999	209	915	4335	5836	931	847	210

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 25AUG86 TO 06SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	6	6	0	0	210	27	8	8
	0	0	0	0	6	6	0	0	70	19	8	8
TAPPAN ZEE	0	6	10	10	668	668	0	175	1194	170	170	170
	0	6	6	6	259	259	0	39	344	61	61	61
CROTON-HAVERSTRAW	0	4	13	13	569	569	0	131	669	334	334	334
	0	4	10	10	135	135	0	43	514	78	78	78
INDIAN POINT	0	0	11	11	201	201	0	226	78	68	68	68
	0	0	8	8	99	99	0	144	46	24	24	24
WEST POINT	0	20	NS	NS	36	36	0	73	NS	5	5	5
	0	10	NS	NS	19	19	0	11	NS	3	3	3
CORNWALL	0	48	104	104	117	117	0	127	638	53	53	53
	0	25	22	22	58	58	0	51	200	21	21	21
POUGHKEEPSIE	0	905	NS	NS	26	26	0	368	NS	21	21	21
	0	679	NS	NS	16	16	0	118	NS	9	9	9
HYDE PARK	0	58	NS	NS	19	19	88	196	NS	4	4	4
	0	22	NS	NS	18	18	88	71	NS	3	3	3
KINGSTON	0	65	NS	NS	14	14	0	603	NS	19	19	19
	0	36	NS	NS	8	8	0	131	NS	17	17	17
SAUGERTIES	0	42	NS	NS	14	14	539	622	NS	57	57	57
	0	12	NS	NS	10	10	479	187	NS	19	19	19
CATSKILL	0	31	NS	NS	272	272	0	847	NS	482	482	482
	0	18	NS	NS	137	137	0	155	NS	200	200	200
ALBANY	0	1	NS	NS	12	12	0	181	NS	35	35	35
	0	1	NS	NS	12	12	0	59	NS	20	20	20
TOTAL STANDING CROP	0	1179	138	138	1952	1952	626	3761	2606	1256	1256	1256
	0	681	26	26	345	345	487	359	509	228	228	228

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 08SEP86 TO 18SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	40	73	2
	0	0	0	0	0	20	40	2
TAPPAN ZEE	0	0	16	392	0	330	3263	186
	0	0	9	150	0	111	773	94
CROTON-HAVERSTRAW	0	3	12	407	0	505	611	196
	0	3	7	230	0	112	102	123
INDIAN POINT	154	6	15	131	0	323	312	33
	154	6	8	63	0	186	159	27
WEST POINT	0	5	NS	12	180	14	NS	3
	0	3		6	180	5		1
CORNWALL	0	26	36	27	0	170	110	60
	0	15	16	15	0	30	34	36
POUGHKEEPSIE	0	240	NS	43	0	219	NS	44
	0	67		39	0	130		35
HYDE PARK	0	666	NS	1	260	207	NS	3
	0	417		1	260	64		3
KINGSTON	123	60	NS	93	164	528	NS	65
	123	16		24	164	118		45
SAUGERTIES	0	34	NS	252	52	598	NS	53
	0	13		137	52	132		15
CATSKILL	0	5	NS	69	0	501	NS	91
	0	4		36	0	98		37
ALBANY	0	0	NS	16	19	226	NS	0
	0	0		16	19	78		0
TOTAL STANDING CROP	277	1045	79	1441	675	3661	4370	735
	197	423	22	319	360	359	797	176

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 22SEP86 TO 02OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	38	19	2
TAPPAN ZEE	0	0	0	167	71	0	0	253	741	171	611	242
CROTON-HAVERSTRAW	0	0	10	246	93	0	0	299	190	40	96	38
INDIAN POINT	0	12	58	39	30	0	163	263	113	30	4	4
WEST POINT	0	0	NS	7	4	0	0	26	NS	NS	6	5
CORNWALL	88	69	247	36	21	0	96	101	530	288	21	11
POUGHKEEPSIE	0	88	NS	11	10	0	0	139	NS	NS	13	10
HYDE PARK	259	180	NS	6	5	0	1483	347	NS	NS	<0.5	<0.5
KINGSTON	0	107	NS	0	0	0	151	1011	NS	NS	0	0
SAUGERTIES	0	63	NS	18	12	0	676	576	NS	NS	23	11
CATSKILL	0	11	NS	91	42	0	228	908	NS	NS	4	3
ALBANY	0	0	NS	2	2	0	0	135	NS	NS	12	8
TOTAL STANDING CROP	347	531	315	622	131	0	2797	4059	1611	339	792	246
	274	104	131	131	131	0	1499	427	339	339	246	246

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 07OCT86 TO 16OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	78	81	2
	0	0	0	0	0	48	25	2
TAPPAN ZEE	0	0	4	91	0	132	2157	81
	0	0	4	34	0	74	461	33
CROTON-HAVERSTRAW	0	15	16	33	0	86	854	58
	0	15	8	25	0	24	158	39
INDIAN POINT	0	16	27	140	0	29	298	92
	0	11	24	93	0	22	124	58
WEST POINT	175	14	NS	46	0	3	NS	13
	175	8		15	0	3		11
CORNWALL	0	104	27	69	0	26	73	224
	0	50	21	37	0	21	59	103
POUGHKEEPSIE	1296	250	NS	10	0	99	NS	21
	640	76		5	0	56		13
HYDE PARK	185	218	NS	8	738	279	NS	10
	107	91		5	426	98		4
KINGSTON	86	112	NS	5	688	1085	NS	64
	86	29		5	636	305		39
SAUGERTIES	102	40	NS	137	1379	639	NS	92
	102	16		50	1075	155		38
CATSKILL	0	4	NS	31	246	182	NS	161
	0	2		18	129	31		69
ALBANY	19	0	NS	0	37	53	NS	39
	19	0		0	37	22		23
TOTAL STANDING CROP	1862	771	73	570	3088	2690	3461	857
	685	135	33	122	1327	375	507	158

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 20OCT86 TO 30OCT86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	399	502	5	5	5
	0	0	0	0	0	0	0	119	121			5
TAPPAN ZEE	0	12	69	97	97	97	0	330	5236	42	42	42
	0	12	31	45	45	45	0	102	1114	15	15	15
CROTON-HAVERSTRAW	0	25	137	161	161	161	0	112	1116	79	79	79
	0	15	24	63	63	63	0	29	139	36	36	36
INDIAN POINT	0	58	553	262	262	262	0	261	842	46	46	46
	0	24	199	191	191	191	0	146	166	19	19	19
WEST POINT	740	23	NS	7	7	7	351	21	NS	0	0	0
	217	9		6	6	6	351	10		0	0	0
CORNWALL	91	111	63	0	0	0	0	184	19	2	2	2
	91	34	27	0	0	0	0	17	9			2
POUGHKEEPSIE	617	462	NS	0	0	0	1850	482	NS	62	62	62
	617	212		0	0	0	1850	196		62	62	62
HYDE PARK	96	41	NS	6	6	6	572	222	NS	<0.5	<0.5	<0.5
	96	10		4	4	4	457	120		<0.5	<0.5	<0.5
KINGSTON	41	93	NS	40	40	40	337	901	NS	33	33	33
	41	36		40	40	40	197	192		17	17	17
SAUGERTIES	0	21	NS	6	6	6	1329	272	NS	2	2	2
	0	12		4	4	4	791	97		2	2	2
CATSKILL	0	7	NS	53	53	53	0	426	NS	118	118	118
	0	4		31	31	31	0	188		68	68	68
ALBANY	0	0	NS	4	4	4	0	36	NS	12	12	12
	0	0		3	3	3	0	10		8	8	8
TOTAL STANDING CROP	1584	850	821	635	635	635	4438	3646	7716	400	400	400
	668	221	205	212	212	212	2102	426	1141	104	104	104



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 03NOV86 TO 14NOV86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	2	2	0	21	273	12	0	12
	0	0	0	0	2	2	0	13	64	7	0	7
TAPPAN ZEE	0	39	184	184	21	21	0	78	3839	74	0	74
	0	39	83	83	11	11	0	31	906	22	0	22
CROTON-HAVERSTRAN	0	56	289	289	177	177	0	70	1291	79	0	79
	0	26	56	56	56	56	0	18	348	23	0	23
INDIAN POINT	1360	39	85	85	72	72	468	37	91	1106	0	1106
	522	19	27	27	29	29	277	24	28	1040	0	1040
WEST POINT	7016	20	NS	NS	20	20	452	28	NS	7	0	7
	7016	5			12	12	254	12		7	0	7
CORNWALL	1035	279	23	23	9	9	2565	226	165	23	0	23
	615	197	17	17	4	4	2444	61	63	19	0	19
POUGHKEEPSIE	210	216	NS	NS	3	3	191	398	NS	48	0	48
	210	109			3	3	191	142		48	0	48
HYDE PARK	0	26	NS	NS	5	5	0	60	NS	4	0	4
	0	7			4	4	0	5		4	0	4
KINGSTON	112	40	NS	NS	344	344	1206	120	NS	76	0	76
	112	20			248	248	595	12		32	0	32
SAUGERTIES	279	34	NS	NS	29	29	3490	99	NS	68	0	68
	136	7			12	12	1442	33		32	0	32
CATSKILL	44	3	NS	NS	2	2	269	19	NS	33	0	33
	44	2			2	2	102	6		10	0	10
ALBANY	0	0	NS	NS	4	4	37	1	NS	56	0	56
	0	0			4	4	23	1		22	0	22
TOTAL STANDING CROP	10056	752	580	580	686	686	8677	1157	5660	1587	0	1587
	7068	232	105	105	257	257	2931	166	976	1043	0	1043

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 17NOV86 TO 02DEC86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	12	0	0	0	890	539	394	0	0	
	0	0	6	0	0	0	713	137	135	0	0	
TAPPAN ZEE	892	31	148	15	15	15	2402	187	2395	21	21	
	410	13	24	10	10	10	973	59	268	9	9	
CROTON-HAVERSTRAW	0	430	126	25	25	25	0	396	214	4	4	
	0	160	61	11	11	11	0	163	91	3	3	
INDIAN POINT	585	1065	31	39	39	39	0	325	24	61	61	
	585	687	31	34	34	34	0	153	21	37	37	
WEST POINT	861	135	NS	0	0	0	788	80	NS	2	2	
	659	31	NS	0	0	0	399	24	NS	1	1	
CORNWALL	198	1421	30	0	0	0	0	675	135	0	0	
	105	198	12	0	0	0	0	130	41	0	0	
POUGHKEEPSIE	1265	238	NS	0	0	0	843	984	NS	0	0	
	967	42	NS	0	0	0	422	207	NS	0	0	
HYDE PARK	483	48	NS	<0.5	<0.5	<0.5	550	178	NS	0	0	
	76	19	NS	<0.5	<0.5	<0.5	341	61	NS	0	0	
KINGSTON	204	79	NS	3	3	3	449	288	NS	0	0	
	204	20	NS	3	3	3	351	56	NS	0	0	
SAUGERTIES	53	3	NS	0	0	0	720	64	NS	0	0	
	53	3	NS	0	0	0	492	37	NS	0	0	
CATSKILL	0	0	NS	2	2	2	0	2	NS	2	2	
	0	0	NS	2	2	2	0	2	NS	2	2	
ALBANY	0	0	NS	0	0	0	0	3	NS	0	0	
	0	0	NS	0	0	0	0	2	NS	0	0	
TOTAL STANDING CROP	4542	3449	347	85	85	85	6644	3722	3162	89	89	
	1393	735	74	37	37	37	1508	375	317	38	38	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 15JUL86 TO 25JUL86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	80	3591	1144	2	2	0	0	106	9	0	0	0
	80	795	597			0	0	70	6	0	0	0
TAPPAN ZEE	45	2104	336	25	12	0	0	431	0	0	0	0
	45	414	123			0	0	431	0	0	0	0
CROTON-HAVERSTRAM	0	592	6	6	4	0	0	3	0	0	0	0
	0	202	4			0	0	3	0	0	0	0
INDIAN POINT	0	1393	134	0	0	0	0	0	2	0	0	0
	0	671	83			0	0	0	2	0	0	0
WEST POINT	4448	351	NS	0	0	0	0	0	NS	0	0	0
	3521	28				0	0	0		0	0	0
CORNWALL	0	145	12	0	0	0	0	0	0	0	0	0
	0	94	8			0	0	0		0	0	0
POUGHKEEPSIE	225	342	NS	0	0	0	0	0	NS	0	0	0
	225	105				0	0	0		0	0	0
HYDE PARK	0	34	NS	0	0	0	0	0	NS	0	0	0
	0	24				0	0	0		0	0	0
KINGSTON	0	3	NS	0	0	0	0	0	NS	0	0	0
	0	3				0	0	0		0	0	0
SAUGERTIES	0	17	NS	0	0	0	0	0	NS	0	0	0
	0	7				0	0	0		0	0	0
CATSKILL	0	21	NS	0	0	0	0	0	NS	0	0	0
	0	8				0	0	0		0	0	0
ALBANY	0	2	NS	0	0	0	0	0	NS	0	0	0
	0	1				0	0	0		0	0	0
TOTAL STANDING CROP	4798	8595	1632	32	15	0	0	540	10	0	0	0
	3530	1148	615			0	0	437	6	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 28JUL86 TO 09AUG86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	7094	1175	0	0	0	0	152	0	0	0	0
	0	2505	514	0	0	0	0	72	0	0	0	0
TAPPAN ZEE	0	438	125	13	7	0	0	6	4	4	0	0
	0	85	93	0	0	0	0	6	4	0	0	0
CROTON-HAVERSTRAW	0	177	11	0	0	0	0	0	0	0	0	0
	0	61	6	0	0	0	0	0	0	0	0	0
INDIAN POINT	569	762	40	0	0	0	0	0	0	0	0	0
	569	310	31	0	0	0	0	0	0	0	0	0
WEST POINT	2458	298	NS	0	0	0	0	0	NS	NS	0	0
	414	128	NS	0	0	0	0	0	0	0	0	0
CORNWALL	0	21	8	0	0	0	0	0	0	0	0	0
	0	13	7	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	21	NS	0	0	0	0	0	NS	NS	0	0
	0	15	NS	0	0	0	0	0	0	0	0	0
HYDE PARK	80	15	NS	0	0	0	0	0	NS	NS	0	0
	80	10	NS	0	0	0	0	0	0	0	0	0
KINGSTON	0	11	NS	0	0	0	0	0	NS	NS	0	0
	0	7	NS	0	0	0	0	0	0	0	0	0
SAUGERTIES	0	8	NS	0	0	0	0	0	NS	NS	0	0
	0	6	NS	0	0	0	0	0	0	0	0	0
CATSKILL	0	10	NS	0	0	0	0	0	NS	NS	0	0
	0	5	NS	0	0	0	0	0	0	0	0	0
ALBANY	18	0	NS	0	0	0	0	0	NS	NS	0	0
	18	0	NS	0	0	0	0	0	0	0	0	0
TOTAL STANDING CROP	3125	8855	1359	13	7	0	0	158	4	4	0	0
	708	2529	523	0	0	0	0	72	0	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 11AUG86 TO 22AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	1900	592	0	0	0	0	21	0	0	0	0
	0	559	179	0	0	0	0	13	0	0	0	0
TAPPAN ZEE	0	572	720	0	0	0	0	6	4	4	0	0
	0	98	408	0	0	0	0	6	4	4	0	0
CROTON-HAVERSTRAW	0	239	80	2	2	0	0	0	0	0	0	0
	0	130	34	2	2	0	0	0	0	0	0	0
INDIAN POINT	987	232	101	0	0	0	0	0	0	0	0	0
	513	156	60	0	0	0	0	0	0	0	0	0
WEST POINT	450	63	NS	0	0	0	0	0	NS	NS	0	0
	450	38		0	0	0	0	0			0	0
CORNWALL	0	0	6	0	0	0	0	0	0	0	0	0
	0	0	4	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	0	0	NS	NS	0	0
	0	0		0	0	0	0	0			0	0
HYDE PARK	102	0	NS	0	0	0	0	0	NS	NS	0	0
	102	0		0	0	0	0	0			0	0
KINGSTON	0	3	NS	0	0	0	0	0	NS	NS	0	0
	0	3		0	0	0	0	0			0	0
SAUGERTIES	0	0	NS	0	0	0	0	0	NS	NS	0	0
	0	0		0	0	0	0	0			0	0
CATSKILL	0	6	NS	0	0	0	0	0	NS	NS	0	0
	0	3		0	0	0	0	0			0	0
ALBANY	0	1	NS	0	0	0	0	0	NS	NS	0	0
	0	1		0	0	0	0	0			0	0
TOTAL STANDING CROP	1539	3015	1500	2	2	2	0	27	4	4	0	0
	690	604	451				0	14				

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 25AUG86 TO 06SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	2361	1029	0	0	0	0	27	7	0	0	0
	0	640	321	0	0	0	0	17	4	0	0	0
TAPPAN ZEE	0	848	223	17	8	0	0	58	3	2	2	0
	0	113	86	8	0	0	0	25	3	0	0	0
CROTON-HAVERSTRAW	0	361	3	8	3	0	0	10	0	0	0	0
	0	146	3	3	0	0	0	10	0	0	0	0
INDIAN POINT	0	220	7	0	0	0	0	0	0	0	0	0
	0	123	7	0	0	0	0	0	0	0	0	0
WEST POINT	1901	173	NS	0	0	0	0	3	NS	0	0	0
	1479	60		0	0	0	0	3		0	0	0
CORNWALL	0	193	24	0	0	0	0	0	0	0	0	0
	0	53	13	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	101	NS	0	0	0	0	0	NS	0	0	0
	0	30		0	0	0	0	0		0	0	0
HYDE PARK	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0		0	0	0	0	0		0	0	0
KINGSTON	0	8	NS	0	0	0	0	0	NS	0	0	0
	0	4		0	0	0	0	0		0	0	0
SAUGERTIES	0	6	NS	0	0	0	0	0	NS	0	0	0
	0	3		0	0	0	0	0		0	0	0
CATSKILL	0	6	NS	0	0	0	0	0	NS	0	0	0
	0	3		0	0	0	0	0		0	0	0
ALBANY	0	1	NS	0	0	0	0	0	NS	0	0	0
	0	1		0	0	0	0	0		0	0	0
TOTAL STANDING CROP	1901	4278	1286	25	8	0	0	98	10	2	2	0
	1479	682	332	8	0	0	0	32	5	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 08SEP86 TO 18SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	2109	1036	0	0	0	0	29	14	0	0	0
	0	351	410	0	0	0	0	19	10	0	0	0
TAPPAN ZEE	0	484	731	44	44	21	0	7	11	2	2	2
	0	154	257	21	21	0	0	7	6	0	0	0
CROTON-HAVERSTRAW	0	45	0	4	4	3	0	0	0	0	0	0
	0	16	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	462	19	0	0	0	0	4	0	0	0	0
	0	221	14	0	0	0	0	4	0	0	0	0
WEST POINT	0	218	NS	0	0	0	0	13	NS	0	0	0
	0	48	NS	0	0	0	0	13	NS	0	0	0
CORNWALL	0	267	48	0	0	0	0	5	1	0	0	0
	0	84	22	0	0	0	0	5	1	0	0	0
POUGHKEEPSIE	0	229	NS	0	0	0	0	0	NS	0	0	0
	0	109	NS	0	0	0	0	0	NS	0	0	0
HYDE PARK	0	116	NS	0	0	0	0	0	NS	0	0	0
	0	78	NS	0	0	0	0	0	NS	0	0	0
KINGSTON	0	65	NS	0	0	0	0	0	NS	0	0	0
	0	32	NS	0	0	0	0	0	NS	0	0	0
SAUGERTIES	0	31	NS	0	0	0	0	0	NS	0	0	0
	0	14	NS	0	0	0	0	0	NS	0	0	0
CATSKILL	0	6	NS	0	0	0	0	0	NS	0	0	0
	0	4	NS	0	0	0	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
TOTAL STANDING CROP	0	4033	1833	47	47	21	0	57	27	2	2	2
	0	473	485	21	21	0	0	24	12	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 22SEP86 TO 02OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	1029	166	2	2	0	68	4	0	0	0	0
	0	554	76	2	2	0	28	4	0	0	0	0
TAPPAN ZEE	0	516	72	25	13	0	23	0	2	2	2	2
	0	132	38	13	13	0	16	0	0	0	0	0
CROTON-HAVERSTRAW	0	258	15	12	7	0	18	0	0	0	0	0
	0	79	15	7	7	0	7	0	0	0	0	0
INDIAN POINT	528	242	0	0	0	0	0	0	0	0	0	0
	286	129	0	0	0	0	0	0	0	0	0	0
WEST POINT	1159	300	NS	0	0	0	0	0	NS	0	0	0
	595	120	NS	0	0	0	0	0	NS	0	0	0
CORNWALL	0	91	36	0	0	0	0	0	3	0	0	0
	0	13	29	0	0	0	0	0	3	0	0	0
POUGHKEEPSIE	0	323	NS	0	0	0	7	0	NS	0	0	0
	0	112	NS	0	0	0	7	0	NS	0	0	0
HYDE PARK	0	119	NS	0	0	0	0	0	NS	0	0	0
	0	31	NS	0	0	0	0	0	NS	0	0	0
KINGSTON	0	170	NS	0	0	0	0	0	NS	0	0	0
	0	43	NS	0	0	0	0	0	NS	0	0	0
SAUGERTIES	0	67	NS	0	0	0	0	0	NS	0	0	0
	0	19	NS	0	0	0	0	0	NS	0	0	0
CATSKILL	0	7	NS	0	0	0	0	0	NS	0	0	0
	0	4	NS	0	0	0	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
TOTAL STANDING CROP	1687	3121	288	38	15	0	116	7	116	2	2	2
	660	614	91	15	15	0	34	5	34	5	5	5



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 07OCT86 TO 16OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	1056	102	0	0	0	0	89	35	0	0	
	0	320	31	0	0	0	0	37	12	0	0	
TAPPAN ZEE	0	364	526	19	9	19	0	6	24	0	0	
	0	87	104	9	9	9	0	6	15	0	0	
CROTON-HAVERSTRAW	0	305	47	4	3	4	0	0	0	0	0	
	0	81	21	3	3	3	0	0	0	0	0	
INDIAN POINT	0	484	16	2	2	2	0	21	0	0	0	
	0	189	5	2	2	2	0	13	0	0	0	
WEST POINT	0	132	NS	0	0	0	0	0	NS	0	0	
	0	52	NS	0	0	0	0	0	NS	0	0	
CORNWALL	0	31	1	2	2	2	0	0	0	0	0	
	0	16	1	2	2	2	0	0	0	0	0	
POUGHKEEPSIE	0	40	NS	0	0	0	0	0	NS	0	0	
	0	31	NS	0	0	0	0	0	NS	0	0	
HYDE PARK	0	79	NS	0	0	0	0	0	NS	0	0	
	0	37	NS	0	0	0	0	0	NS	0	0	
KINGSTON	0	121	NS	0	0	0	0	0	NS	0	0	
	0	46	NS	0	0	0	0	0	NS	0	0	
SAUGERTIES	0	29	NS	0	0	0	0	0	NS	0	0	
	0	10	NS	0	0	0	0	0	NS	0	0	
CATSKILL	0	8	NS	0	0	0	0	1	NS	0	0	
	0	5	NS	0	0	0	0	1	NS	0	0	
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0	NS	0	0	0	0	0	NS	0	0	
TOTAL STANDING CROP	0	2648	692	26	26	26	0	117	59	0	0	
	0	400	110	9	9	9	0	39	19	0	0	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 20OCT86 TO 30OCT86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	1031	237	6	0	0	0	182	23	0	0	0
	0	134	55	4	0	0	0	55	9	0	0	0
TAPPAN ZEE	0	1012	179	21	0	0	0	32	7	6	0	0
	0	237	40	13	0	0	0	13	7	4	0	0
CROTON-HAVERSTRAW	0	353	59	4	0	0	0	7	0	0	0	0
	0	162	27	3	0	0	0	5	0	0	0	0
INDIAN POINT	0	273	62	0	0	0	0	12	0	0	0	0
	0	63	19	0	0	0	0	12	0	0	0	0
WEST POINT	0	124	NS	0	0	0	0	0	NS	0	0	0
	0	93	0	0	0	0	0	0	0	0	0	0
CORNWALL	0	82	0	0	0	0	0	0	0	0	0	0
	0	38	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	83	NS	0	0	0	0	0	NS	0	0	0
	0	30	0	0	0	0	0	0	0	0	0	0
HYDE PARK	0	34	NS	0	0	0	0	0	NS	0	0	0
	0	11	0	0	0	0	0	0	0	0	0	0
KINGSTON	0	237	NS	0	0	0	0	2	NS	0	0	0
	0	66	0	0	0	0	0	2	0	0	0	0
SAUGERTIES	56	64	NS	0	0	0	0	0	NS	0	0	0
	56	23	0	0	0	0	0	0	0	0	0	0
CATSKILL	0	9	NS	0	0	0	0	0	NS	0	0	0
	0	3	0	0	0	0	0	0	0	0	0	0
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL STANDING CROP	56	3302	537	31	0	0	0	235	30	6	0	0
	56	347	75	14	0	0	0	59	11	4	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 03NOV86 TO 14NOV86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHOAL	BOTTOM	SHOAL	SHOAL	SHORE	SHOAL	SHORE
YONKERS	0	653	110	12	9	0	21	47	0	0	0	0
	0	125	28			0	13	12	0	0	0	0
TAPPAN ZEE	66	490	598	6	3	0	76	39	0	0	0	0
	66	71	125			0	29	17	0	0	0	0
CROTON-HAVERSTRAW	0	162	172	6	4	0	9	5	0	0	0	0
	0	51	63			0	5	5	0	0	0	0
INDIAN POINT	0	143	27	0	0	0	18	4	0	0	0	0
	0	48	10			0	11	4	0	0	0	0
WEST POINT	0	28	NS	0	0	0	0	NS	0	0	0	0
	0	18				0	0		0	0	0	0
CORNWALL	89	36	0	0	0	0	0	0	0	0	0	0
	89	27	0			0	0	0	0	0	0	0
POUGHKEEPSIE	0	42	NS	0	0	0	0	NS	0	0	0	0
	0	18				0	0		0	0	0	0
HYDE PARK	0	20	NS	0	0	0	0	NS	0	0	0	0
	0	16				0	0		0	0	0	0
KINGSTON	0	236	NS	0	0	0	2	NS	0	0	0	0
	0	142				0	2		0	0	0	0
SAUGERTIES	0	10	NS	0	0	0	2	NS	0	0	0	0
	0	5				0	2		0	0	0	0
CATSKILL	0	20	NS	0	0	0	5	NS	0	0	0	0
	0	11				0	2		0	0	0	0
ALBANY	0	0	NS	0	0	0	0	NS	0	0	0	0
	0	0				0	0		0	0	0	0
TOTAL STANDING CROP	154	1840	908	23	10	0	133	95	0	0	0	0
	110	218	143			0	34	22	0	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 17NOV86 TO 02DEC86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	353	151	0	0	225	49	0
	0	86	41	0	0	54	17	0
TAPPAN ZEE	0	318	157	23	0	76	26	2
	0	42	35	13	0	23	12	2
CROTON-HAVERSTRAW	0	125	72	0	0	9	0	0
	0	29	45	0	0	6	0	0
INDIAN POINT	0	108	4	2	0	9	0	0
	0	32	4	2	0	5	0	0
WEST POINT	0	23	NS	0	0	3	NS	0
	0	6		0	0	3		0
CORNWALL	0	91	7	0	0	6	0	0
	0	17	<0.5	0	0	6	0	0
POUGHKEEPSIE	0	215	NS	0	0	9	NS	0
	0	67		0	0	9		0
HYDE PARK	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
KINGSTON	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
SAUGERTIES	0	0	NS	0	0	2	NS	0
	0	0		0	0	2		0
CATSKILL	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
ALBANY	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
TOTAL STANDING CROP	0	1234	391	25	0	339	74	2
	0	126	70	13	0	60	21	2

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 15JUL86 TO 25JUL86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	7	5	5	11		0	0	0	0	0	0
	0	7	5	5	7		0	0	0	0	0	0
TAPPAN ZEE	0	0	13	8	223		0	0	0	0	0	0
	0	0	8	64	64		0	0	0	0	0	0
CROTON-HAVERSTRAW	0	6	6	4	311		0	0	0	0	0	0
	0	4	4	143	143		0	0	0	0	0	0
INDIAN POINT	312	0	19	9	105		0	0	0	0	0	0
	156	0	9	33	33		0	0	0	0	0	0
WEST POINT	487	0	NS	NS	47		0	0	0	NS	0	0
	282	0			9		0	0	0		0	0
CORNWALL	0	15	4	2	296		0	0	0	0	0	0
	0	10	2		124		0	0	0	0	0	0
POUGHKEEPSIE	1196	0	NS	NS	267		0	0	0	NS	0	0
	695	0			153		0	0	0		0	0
HYDE PARK	1105	48	NS	NS	50		0	0	0	NS	0	0
	740	41			22		0	0	0		0	0
KINGSTON	1022	25	NS	NS	286		0	0	0	NS	0	0
	371	9			91		0	0	0		0	0
SAUGERTIES	831	159	NS	NS	2120		0	0	0	NS	0	0
	504	58			1216		0	0	0		0	0
CATSKILL	804	211	NS	NS	415		0	0	0	NS	0	0
	285	42			183		0	0	0		0	0
ALBANY	198	8	NS	NS	326		0	0	0	NS	0	0
	35	5			165		0	0	0		0	0
TOTAL STANDING CROP	5955	480	47	14	4458		0	0	0	0	0	0
	1268	84			1270		0	0	0		0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 28JUL86 TO 09AUG86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	
TAPPAN ZEE	0	13	43	43	309	309	0	0	0	0	0	
CROTON-HAVERSTRAM	0	19	35	35	190	190	0	0	0	0	0	
INDIAN POINT	159	12	12	12	265	265	0	0	0	0	0	
WEST POINT	155	5	NS	NS	23	23	0	0	NS	NS	0	
CORNWALL	0	5	17	17	621	621	0	0	0	0	0	
POUGHKEEPSIE	0	34	NS	NS	248	248	0	0	NS	NS	0	
HYDE PARK	174	16	NS	NS	88	88	0	0	NS	NS	0	
KINGSTON	213	252	NS	NS	141	141	0	0	NS	NS	0	
SAUGERTIES	202	77	NS	NS	579	579	0	0	NS	NS	0	
CATSKILL	2551	183	NS	NS	1371	1371	0	0	NS	NS	0	
ALBANY	92	30	NS	NS	621	621	0	0	NS	NS	0	
TOTAL STANDING CROP	3545	643	106	106	4458	4458	0	0	0	0	0	
	1158	123	22	22	573	573						

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 11AUG86 TO 22AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	270	0	0	0	11	0	0	0	0	0	0	0
	184	0	0	0	7	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	8	5	339	0	0	0	0	0	0	0
	0	0	0	0	123	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	6	4	46	0	0	0	0	0	0	0
	0	0	0	0	22	0	0	0	0	0	0	0
INDIAN POINT	144	0	3	2	68	0	0	0	0	0	0	0
	144	0	0	0	30	0	0	0	0	0	0	0
WEST POINT	0	3	NS	NS	16	0	0	0	0	NS	0	0
	0	3	NS	NS	7	0	0	0	0	NS	0	0
CORNWALL	0	5	5	2	405	0	0	0	0	0	0	0
	0	5	5	2	65	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	166	0	0	0	0	NS	0	0
	0	0	NS	NS	60	0	0	0	0	NS	0	0
HYDE PARK	788	4	NS	NS	26	0	0	0	0	NS	0	0
	420	4	NS	NS	11	0	0	0	0	NS	0	0
KINGSTON	179	18	NS	NS	72	0	0	0	0	NS	0	0
	91	6	NS	NS	22	0	0	0	0	NS	0	0
SAUGERTIES	279	14	NS	NS	630	0	0	0	0	NS	0	0
	221	5	NS	NS	211	0	0	0	0	NS	0	0
CATSKILL	42	67	NS	NS	580	0	0	0	0	NS	0	0
	42	16	NS	NS	190	0	0	0	0	NS	0	0
ALBANY	18	21	NS	NS	485	0	0	0	0	NS	0	0
	18	8	NS	NS	103	0	0	0	0	NS	0	0
TOTAL STANDING CROP	1719	131	21	21	2844	0	0	0	0	0	0	0
	539	21	7	7	341	0	0	0	0	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 25AUG86 TO 06SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	10	7	2	2	0	0	0	0	0	
TAPPAN ZEE	0	0	29	12	136	66	0	0	0	0	0	
CROTON-HAVERSTRAN	0	0	14	7	230	76	0	0	0	0	0	
INDIAN POINT	0	10	7	5	122	63	0	0	0	0	0	
WEST POINT	148	5	NS	NS	38	12	0	0	0	NS	0	
CORNWALL	0	8	23	7	298	77	0	0	0	0	0	
POUGHKEEPSIE	217	52	NS	NS	193	62	0	0	0	NS	0	
HYDE PARK	184	17	NS	NS	46	14	0	0	0	NS	0	
KINGSTON	0	18	NS	NS	93	22	0	0	0	NS	0	
SAUGERTIES	3404	79	NS	NS	552	218	0	0	0	NS	0	
CATSKILL	0	156	NS	NS	1224	263	0	0	0	NS	0	
ALBANY	18	25	NS	NS	903	199	0	0	0	NS	0	
TOTAL STANDING CROP	3971	370	83	18	3837	425	0	0	0	0	0	
	3416	71					0	0	0			



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 08SEP86 TO 18SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	8	8	5	3	0	0	0	0	0	0
TAPPAN ZEE	0	15	20	83	83	36	0	0	0	0	0	0
CROTON-HAVERSTRAN	0	10	18	65	65	31	0	0	0	0	0	0
INDIAN POINT	154	6	6	39	39	18	0	0	0	0	0	0
WEST POINT	0	0	NS	40	40	31	0	0	0	NS	NS	0
CORNWALL	0	0	4	36	36	23	0	0	0	0	0	2
POUGHKEEPSIE	0	6	NS	390	390	129	0	0	0	NS	NS	0
HYDE PARK	87	8	NS	20	20	8	0	0	0	NS	NS	0
KINGSTON	166	43	NS	384	384	157	0	0	0	NS	NS	0
SAUGERTIES	161	11	NS	291	291	68	0	0	0	NS	NS	0
CATSKILL	197	67	NS	677	677	270	0	0	0	NS	NS	0
ALBANY	58	7	NS	177	177	51	0	0	0	NS	NS	0
TOTAL STANDING CROP	822	173	56	2206	2206	354	0	0	0	0	0	2
	291	31	14	354	354		0	0	0	0	0	2

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 22SEP86 TO 02OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	10	0	0	2	2	0	0	0	0	0	0
	0	10	0	0	2	2	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	85	34	0	0	0	0	0	0
	0	0	0	0	34	85	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	7	50	18	27	15	0	0	0	0	0	0
	0	7	18	50	15	27	0	0	0	0	0	0
INDIAN POINT	0	0	4	3	37	20	0	0	0	0	0	0
	0	0	3	4	20	37	0	0	0	0	0	0
WEST POINT	334	0	NS	NS	18	8	0	4	4	NS	0	0
	334	0	NS	NS	8	18	0	4	4	NS	0	0
CORNWALL	0	9	3	3	220	52	0	0	0	0	0	0
	0	5	3	3	52	220	0	0	0	0	0	0
POUGHKEEPSIE	0	7	NS	NS	109	39	0	9	9	NS	0	0
	0	7	NS	NS	39	109	0	9	9	NS	0	0
HYDE PARK	691	9	NS	NS	63	39	0	0	0	NS	0	0
	691	6	NS	NS	39	63	0	0	0	NS	0	0
KINGSTON	493	31	NS	NS	31	21	0	0	0	NS	0	0
	445	10	NS	NS	21	31	0	0	0	NS	0	0
SAUGERTIES	240	65	NS	NS	207	48	0	2	2	NS	0	0
	175	24	NS	NS	48	207	0	2	2	NS	0	0
CATSKILL	693	139	NS	NS	110	51	0	3	3	NS	0	0
	439	33	NS	NS	51	110	0	3	3	NS	0	0
ALBANY	0	24	NS	NS	460	112	0	0	0	NS	0	0
	0	9	NS	NS	112	460	0	0	0	NS	0	0
TOTAL STANDING CROP	2451	301	56	18	1369	160	0	17	10	0	0	0
	1005	46	18	56	160	1369	0	10	17	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 07OCT86 TO 16OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	16	7	2	2	0	0	0	0	2	
TAPPAN ZEE	0	24	54	23	250	114	0	6	4	4	2	
CROTON-HAVERSTRAY	0	25	15	8	61	30	0	0	0	0	0	
INDIAN POINT	0	48	5	4	0	0	0	0	0	0	0	
WEST POINT	505	11	NS	NS	6	2	0	0	NS	NS	0	
CORNWALL	100	26	0	0	91	34	0	0	0	0	0	
POUGHKEEPSIE	215	37	NS	NS	88	24	0	0	NS	NS	0	
HYDE PARK	359	0	NS	NS	34	6	0	0	NS	NS	0	
KINGSTON	87	136	NS	NS	31	21	0	0	NS	NS	0	
SAUGERTIES	512	158	NS	NS	224	58	0	0	NS	NS	0	
CATSKILL	625	46	NS	NS	299	69	0	0	NS	NS	0	
ALBANY	37	6	NS	NS	159	74	0	0	NS	NS	0	
TOTAL STANDING CROP	2438	517	90	26	1245	173	0	6	4	4	3	
	564	86					0	6			2	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 20OCT86 TO 30OCT86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	26	47	0	0	0	0	0	0	0	0
	0	0	17	19			0	0	0	0	0	0
TAPPAN ZEE	0	18	256	909	0	0	0	0	3	3	0	0
	0	12	48	274			0	0	0	0	0	0
CROTON-HAVERSTRAW	0	10	307	313	0	0	0	0	0	0	0	0
	0	5	82	65			0	0	0	0	0	0
INDIAN POINT	0	17	6	111	0	0	0	0	2	2	0	0
	0	7	6	60			0	0	0	0	0	0
WEST POINT	1061	4	NS	22	0	0	0	0	NS	NS	0	0
	786	4		8			0	0			0	0
CORNWALL	189	29	19	138	0	0	0	0	0	0	0	0
	95	12	14	54			0	0	0	0	0	0
POUGHKEEPSIE	0	159	NS	71	0	0	0	0	NS	NS	0	0
	0	38		27			0	0			0	0
HYDE PARK	92	31	NS	9	0	0	0	0	NS	NS	0	0
	92	15		7			0	0			0	0
KINGSTON	334	34	NS	22	0	0	0	0	NS	NS	0	0
	198	10		14			0	0			0	0
SAUGERTIES	56	30	NS	66	0	0	0	0	NS	NS	0	0
	56	13		31			0	0			0	0
CATSKILL	0	19	NS	37	0	0	0	0	NS	NS	0	0
	0	7		14			0	0			0	0
ALBANY	0	0	NS	0	0	0	0	0	NS	NS	0	0
	0	0		0			0	0			0	0
TOTAL STANDING CROP	1732	350	614	1746	0	0	0	0	5	4	0	0
	823	49	98	298			0	0	4	4	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 03NOV86 TO 14NOV86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	26	120	0	0	0	0
	0	0	15	75	0	0	0	0
TAPPAN ZEE	0	32	106	937	0	0	0	2
	0	14	29	260	0	0	0	2
CROTON-HAVERSTRAW	0	35	104	684	0	0	0	0
	0	19	44	156	0	0	0	0
INDIAN POINT	0	5	24	258	0	0	0	0
	0	5	12	115	0	0	0	0
WEST POINT	0	15	NS	15	0	0	NS	0
	0	9		7	0	0		0
CORNWALL	0	27	0	28	0	0	0	0
	0	8	0	15	0	0	0	0
POUGHKEEPSIE	0	15	NS	26	0	0	NS	0
	0	15		15	0	0		0
HYDE PARK	85	0	NS	5	0	0	NS	0
	85	0		1	0	0		0
KINGSTON	0	10	NS	15	0	0	NS	0
	0	4		13	0	0		0
SAUGERTIES	0	0	NS	4	0	0	NS	0
	0	0		4	0	0		0
CATSKILL	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
ALBANY	0	0	NS	2	0	0	NS	0
	0	0		2	0	0		0
TOTAL STANDING CROP	85	139	260	2094	0	0	0	2
	85	31	56	334	0	0	0	2

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 17NOV86 TO 02DEC86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	92	0	0	47	0	0	0	0	0	0	0
	0	31	0	0	11	0	0	0	0	0	0	0
TAPPAN ZEE	0	6	3	3	168	0	0	0	0	0	0	0
	0	6	3	3	42	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	24	14	7	50	0	0	0	0	0	0	0
	0	9	7	7	20	0	0	0	0	0	0	0
INDIAN POINT	0	9	1	1	11	0	0	0	0	0	0	0
	0	9	1	1	5	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	NS	NS	NS	NS
	0	0	NS	NS	0	0	0	0	NS	NS	NS	NS
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	1	1	0	0	NS	NS	NS	NS
	0	0	NS	NS	1	1	0	0	NS	NS	NS	NS
HYDE PARK	0	0	NS	NS	0	0	0	0	NS	NS	NS	NS
	0	0	NS	NS	0	0	0	0	NS	NS	NS	NS
KINGSTON	0	0	NS	NS	0	0	0	0	NS	NS	NS	NS
	0	0	NS	NS	0	0	0	0	NS	NS	NS	NS
SAUGERTIES	0	0	NS	NS	0	0	0	0	NS	NS	NS	NS
	0	0	NS	NS	0	0	0	0	NS	NS	NS	NS
CATSKILL	0	0	NS	NS	0	0	0	0	NS	NS	NS	NS
	0	0	NS	NS	0	0	0	0	NS	NS	NS	NS
ALBANY	0	0	NS	NS	0	0	0	0	NS	NS	NS	NS
	0	0	NS	NS	0	0	0	0	NS	NS	NS	NS
TOTAL STANDING CROP	0	130	19	8	278	0	0	0	0	0	0	0
	0	33	8	8	49	0	0	0	0	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 15 JUL 86 TO 25 JUL 86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER							
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE				
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE			
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	2	2
TAPPAN ZEE	0	0	0	0	2	2	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	3	3	6	67	67	0	0	0	0	0	0	2	2
INDIAN POINT	0	0	0	2	15	11	0	0	0	0	0	0	0	0
WEST POINT	812	4	4	NS	191	72	0	0	0	0	NS	NS	0	0
CORNWALL	349	46	28	1	744	491	0	0	0	0	0	0	0	0
POUGHKEEPSIE	18959	277	96	NS	20	10	0	0	0	0	NS	NS	0	0
HYDE PARK	1570	195	110	NS	5	3	0	0	0	0	NS	NS	0	0
KINGSTON	3503	159	43	NS	29	9	0	0	0	0	NS	NS	0	0
SAUGERTIES	878	300	140	NS	111	79	0	0	0	0	NS	NS	0	0
CATSKILL	649	586	157	NS	75	64	0	0	0	0	NS	NS	0	0
ALBANY	328	14	6	NS	673	651	0	0	0	0	NS	NS	0	0
TOTAL STANDING CROP	27047	1583	261	8	1932	828	0	0	0	0	0	0	3	2
	6863			4									0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 28JUL86 TO 09AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	3	2	0	0	0	0
CROTON-HAVERSTRAM	0	5	5	27	0	0	0	0
INDIAN POINT	133	0	1	159	0	0	0	0
WEST POINT	496	25	NS	13	0	0	NS	0
CORNWALL	0	177	55	509	0	0	0	0
POUGHKEEPSIE	0	295	NS	85	0	0	NS	0
HYDE PARK	4825	190	NS	173	0	0	NS	0
KINGSTON	6068	691	NS	358	0	0	NS	0
SAUGERTIES	47	182	NS	152	0	0	NS	0
CATSKILL	791	627	NS	590	0	0	NS	0
ALBANY	18	127	NS	866	0	0	NS	0
TOTAL STANDING CROP	12379	2319	65	2934	0	0	0	0
	4885	382	46	809	0	0	0	0



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 11AUG86 TO 22AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	331	0	0	0	0	0	0	0
	244	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	2	0	0	0	0
	0	0	0	2	0	0	0	0
CROTON-HAVERSTRAW	0	7	0	8	0	0	0	0
	0	7	0	6	0	0	0	0
INDIAN POINT	0	0	5	7	0	0	0	0
	0	0	5	5	0	0	0	0
WEST POINT	302	11	NS	8	0	0	NS	0
	302	5		8	0	0		0
CORNWALL	95	23	0	60	0	0	0	0
	95	10	0	23	0	0	0	0
POUGHKEEPSIE	439	47	NS	901	0	0	NS	0
	220	15		899	0	0		0
HYDE PARK	4308	82	NS	4	0	0	NS	0
	2704	23		2	0	0		0
KINGSTON	1128	72	NS	5	0	0	NS	0
	639	19		5	0	0		0
SAUGERTIES	2437	98	NS	174	0	0	NS	0
	1582	26		113	0	0		0
CATSKILL	241	224	NS	1407	0	2	NS	0
	126	47		857	0	2		0
ALBANY	314	21	NS	70	0	0	NS	0
	271	5		29	0	0		0
TOTAL STANDING CROP	9594	585	5	2647	0	2	0	0
	3244	65	5	1248	0	2	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 25AUG86 TO 06SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	27	18	0	0	0	0	0	2
INDIAN POINT	0	0	0	0	7	7	0	0	0	0	0	0
WEST POINT	803	3	NS	NS	121	74	0	0	0	NS	0	0
CORNWALL	0	12	11	11	612	341	0	0	0	0	0	0
POUGHKEEPSIE	629	68	NS	NS	14	9	0	0	0	NS	0	0
HYDE PARK	972	35	NS	NS	245	138	0	0	0	NS	0	0
KINGSTON	340	210	NS	NS	1412	1337	0	0	0	NS	0	0
SAUGERTIES	6560	305	NS	NS	68	33	0	0	0	NS	0	0
CATSKILL	273	346	NS	NS	563	284	0	0	2	NS	0	0
ALBANY	72	68	NS	NS	93	41	0	0	0	NS	0	0
TOTAL STANDING CROP	11248	1072	11	11	3163	1419	0	0	2	0	0	2
	5729	184	3	3								

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 08SEP86 TO 18SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	4	4	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	11	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	180	3	NS	NS	2	2	0	0	0	NS	0	0
CORNWALL	0	13	2	1	9	9	0	0	0	0	0	0
POUGHKEEPSIE	452	268	NS	NS	10	10	0	0	0	NS	0	0
HYDE PARK	7208	658	NS	NS	12	9	0	0	0	NS	0	0
KINGSTON	1815	305	NS	NS	677	222	0	0	5	NS	0	0
SAUGERTIES	948	160	NS	NS	111	52	0	0	2	NS	0	0
CATSKILL	235	342	NS	NS	1003	930	0	0	3	NS	0	0
ALBANY	359	5	NS	NS	52	36	0	0	0	NS	0	0
TOTAL STANDING CROP	11197	1763	6	4	1877	958	0	0	10	0	0	0
	7188	238							5			

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 22SEP86 TO 02OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	327	0	0	42	0	0	0	0
WEST POINT	0	0	NS	14	0	0	NS	0
CORNWALL	889	137	2	140	0	0	0	0
POUGHKEEPSIE	0	82	NS	47	0	0	NS	0
HYDE PARK	997	185	NS	50	0	0	NS	0
KINGSTON	1398	82	NS	28	0	0	NS	0
SAUGERTIES	879	149	NS	37	0	0	NS	0
CATSKILL	1076	56	NS	25	0	0	NS	0
ALBANY	81	273	NS	69	0	0	NS	0
TOTAL STANDING CROP	5648	73	NS	62	0	0	NS	0
	1998	475	NS	45	0	4	NS	0
		171	NS	43	0	3	NS	0
		453	NS	22	0	4	NS	0
		123	NS	15	0	4	NS	0
		69	NS	592	0	0	NS	0
		19	NS	267	0	0	NS	0
		1741	2	1011	0	8	0	0
		258	2	287	0	5	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 07OCT86 TO 16OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	3	0
	0	0	0	0	0	0	0	0	0	0	3	0
TAPPAN ZEE	0	41	20	20	2	2	0	0	0	0	0	17
	0	16	10	10	2	2	0	0	0	0	0	17
CROTON-HAVERSTRAM	0	24	19	19	0	0	0	8	5	5	4	0
	0	21	10	10	0	0	0	5	4	4	0	0
INDIAN POINT	5661	86	2	2	0	0	205	0	0	0	0	0
	5481	66	2	2	0	0	205	0	0	0	0	0
WEST POINT	7791	213	NS	NS	6	6	0	0	0	0	NS	0
	2272	72			6	6	0	0	0	0		0
CORNWALL	2702	135	0	0	43	4	0	4	4	0	0	0
	1831	55	0	0	41	4	0	4	4	0	0	0
POUGHKEEPSIE	6241	112	NS	NS	37	0	0	0	0	0	NS	0
	5585	32			33	0	0	0	0	0		0
HYDE PARK	5599	95	NS	NS	12	0	0	0	0	0	NS	0
	3480	19			10	0	0	0	0	0		0
KINGSTON	1418	235	NS	NS	0	0	0	0	0	0	NS	0
	961	56			0	0	0	0	0	0		0
SAUGERTIES	1090	74	NS	NS	20	0	0	0	0	0	NS	0
	467	17			11	0	0	0	0	0		0
CATSKILL	458	21	NS	NS	28	0	0	0	0	0	NS	0
	186	9			11	0	0	0	0	0		0
ALBANY	148	3	NS	NS	64	0	0	0	0	0	NS	0
	104	3			26	0	0	0	0	0		0
TOTAL STANDING CROP	31107	1040	41	41	210	62	205	12	8	17	5	17
	9113	135	15	15	62		205	7	5			17

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 20OCT86 TO 30OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	129 129	12 12	0 0	5 5	0 0	0 0	0 0	0 0	4 4	4 4	2 2	
TAPPAN ZEE	0 0	31 17	94 26	121 98	0 0	0 0	0 0	0 0	0 0	0 0	0 0	
CROTON-HAVERSTRAW	0 0	203 158	75 25	25 17	0 0	0 0	0 0	0 0	0 0	0 0	0 0	
INDIAN POINT	1683 1683	50 43	12 12	4 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	
WEST POINT	10264 2103	46 16	NS	33 25	0 0	0 0	0 0	0 0	NS	NS	0 0	
CORNWALL	637 637	641 353	85 65	78 33	0 0	0 0	0 0	0 0	0 0	0 0	0 0	
POUGHKEEPSIE	3456 1785	1171 707	NS	65 29	0 0	0 0	0 0	0 0	NS	NS	0 0	
HYDE PARK	2173 1323	76 34	NS	26 15	0 0	0 0	0 0	0 0	NS	NS	0 0	
KINGSTON	854 394	39 17	NS	38 23	0 0	0 0	0 0	0 0	NS	NS	0 0	
SAUGERTIES	47 47	148 98	NS	0 0	0 0	0 0	0 0	0 0	NS	NS	0 0	
CATSKILL	82 52	3 2	NS	30 22	0 0	0 0	0 0	0 0	NS	NS	0 0	
ALBANY	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	NS	NS	0 0	
TOTAL STANDING CROP	19326 3574	2419 814	266 75	424 117	0 0	0 0	0 0	0 0	4 4	4 4	2 2	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 03NOV86 TO 14NOV86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	484	24	20	27	27	0	0	0	0	0	0	
	210	16	20	27	27	0	0	0	0	0	0	
TAPPAN ZEE	897	14	130	1151	768	0	0	0	0	0	0	
	445	14	36	768	768	0	0	0	0	0	0	
CROTON-HAVERSTRAW	108	53	47	21	9	0	0	0	0	0	0	
	55	20	22	9	9	0	0	0	0	0	0	
INDIAN POINT	160	21	7	223	190	0	0	0	0	0	0	
	160	6	6	190	190	0	0	0	0	0	0	
WEST POINT	0	28	NS	54	37	0	0	0	NS	0	0	
	0	14	NS	37	37	0	0	0	NS	0	0	
CORNWALL	177	13	0	59	36	0	0	0	0	0	0	
	177	13	0	36	36	0	0	0	0	0	0	
POUGHKEEPSIE	0	27	NS	1189	1135	0	0	0	NS	0	0	
	0	16	NS	1135	1135	0	0	0	NS	0	0	
HYDE PARK	0	7	NS	45	20	0	0	0	NS	0	0	
	0	4	NS	20	20	0	0	0	NS	0	0	
KINGSTON	469	21	NS	2	2	0	0	0	NS	0	0	
	221	7	NS	2	2	0	0	0	NS	0	0	
SAUGERTIES	53	9	NS	269	263	0	0	0	NS	0	0	
	53	7	NS	263	263	0	0	0	NS	0	0	
CATSKILL	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0	NS	0	0	0	0	0	NS	0	0	
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0	NS	0	0	0	0	0	NS	0	0	
TOTAL STANDING CROP	2348	217	204	3039	1410	0	0	0	0	0	0	
	595	40	47	1410	1410	0	0	0	0	0	0	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 17NOV86 TO 02DEC86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	77	10	0	0	125	0	0	0	0	0	0	
	77	10	0	0	75	0	0	0	0	0	0	
TAPPAN ZEE	0	0	0	0	348	0	0	0	0	0	0	
	0	0	0	0	304	0	0	0	0	0	0	
CROTON-HAVERSTRAW	0	3	7	4	0	0	0	0	0	0	0	
	0	3	4	0	0	0	0	0	0	0	0	
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
WEST POINT	0	0	NS	NS	1	0	0	0	NS	0	0	
	0	0	0	0	1	0	0	0	0	0	0	
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
HYDE PARK	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
KINGSTON	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
SAUGERTIES	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
CATSKILL	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
ALBANY	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
TOTAL STANDING CROP	77	13	7	4	474	0	0	0	0	0	0	
	77	10	4	0	313	0	0	0	0	0	0	



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEMIFE FROM 15JUL86 TO 25JUL86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	8	0	0	7	0
CROTON-HAVERSTRAW	0	0	0	4	0	0	5	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	0	0	0	0	2	0
CORNWALL	0	0	0	2	0	0	2	0
POUGHKEEPSIE	0	0	0	0	0	0	NS	0
HYDE PARK	0	0	0	13	0	0	NS	0
KINGSTON	0	0	0	8	0	0	0	0
SAUGERTIES	0	0	0	14	0	0	0	0
CATSKILL	0	0	0	2	0	0	0	0
ALBANY	0	0	0	8	0	0	NS	0
TOTAL STANDING CROP	201	0	NS	64	0	0	NS	0
	201	0	NS	62	0	0	NS	0
	184	4	NS	7	0	0	NS	0
	107	4	NS	5	0	0	NS	0
	212	6	NS	10	0	0	NS	0
	136	4	NS	8	0	0	NS	0
	53	17	NS	191	0	0	NS	0
	53	8	NS	87	0	0	NS	0
	0	0	NS	51	0	0	NS	0
	0	0	NS	35	0	0	NS	0
	0	0	NS	0	0	0	NS	0
	0	0	NS	0	0	0	NS	0
	650	46	4	362	0	2	8	0
	270	13	2	114	0	2	5	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 28JUL86 TO 09AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	12	0	0	0	0
	0	0	0	12	0	0	0	0
TAPPAN ZEE	0	0	0	59	0	0	0	2
	0	0	0	35	0	0	0	2
CROTON-HAVERSTRAY	0	0	0	39	0	0	0	0
	0	0	0	28	0	0	0	0
INDIAN POINT	0	0	0	29	0	0	0	0
	0	0	0	18	0	0	0	0
WEST POINT	0	0	NS	1	0	0	NS	0
	0	0	0	1	0	0	0	0
CORNWALL	0	0	1	0	0	0	0	0
	0	0	1	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	3	0	0	NS	0
	0	0	0	2	0	0	0	0
HYDE PARK	0	13	NS	8	0	0	NS	0
	0	10	0	4	0	0	0	0
KINGSTON	257	80	NS	0	0	0	NS	0
	92	23	0	0	0	0	0	0
SAUGERTIES	0	17	NS	88	0	0	NS	0
	0	8	0	56	0	0	0	0
CATSKILL	0	45	NS	22	0	10	NS	0
	0	22	0	14	0	7	0	0
ALBANY	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
TOTAL STANDING CROP	257	155	1	261	0	10	0	2
	92	34	1	76	0	7	0	2

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 11AUG86 TO 22AUG86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	32	0	0	0	0
	0	0	0	14	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	6	0	0
	0	0	0	0	0	6	0	0
INDIAN POINT	0	0	0	7	0	0	0	0
	0	0	0	7	0	0	0	0
WEST POINT	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
CORNWALL	0	0	0	4	0	0	0	0
	0	0	0	4	0	0	0	0
POUGHKEEPSIE	0	0	NS	1	0	7	NS	0
	0	0	0	1	0	7	0	0
HYDE PARK	373	0	NS	<0.5	0	0	NS	0
	256	0	0	<0.5	0	0	0	0
KINGSTON	130	15	NS	0	0	0	NS	0
	87	8	0	0	0	0	0	0
SAUGERTIES	0	5	NS	43	0	0	NS	0
	0	3	0	39	0	0	0	0
CATSKILL	0	2	NS	20	0	0	NS	0
	0	2	0	12	0	0	0	0
ALBANY	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
TOTAL STANDING CROP	503	22	0	108	0	14	0	0
	270	9	0	44	0	10	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 25AUG86 TO 06SEP86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	5	5	0	0	0	0	0	
TAPPAN ZEE	0	0	0	0	28	15	0	0	0	0	0	
CROTON-HAVERSTRAM	0	0	0	0	46	32	0	0	0	0	4	
INDIAN POINT	0	0	0	5	0	0	0	0	0	0	0	
WEST POINT	0	0	0	NS	4	3	0	0	0	NS	0	
CORNWALL	0	0	0	3	0	0	0	0	0	4	0	
POUGHKEEPSIE	0	0	0	NS	0	0	0	0	0	NS	0	
HYDE PARK	0	9	7	NS	1	1	0	0	0	NS	0	
KINGSTON	38	10	4	NS	5	3	0	0	0	NS	0	
SAUGERTIES	481	22	10	NS	0	0	61	5	NS	NS	0	
CATSKILL	0	10	5	NS	12	8	0	3	NS	NS	0	
ALBANY	0	0	0	NS	0	0	0	0	NS	NS	0	
TOTAL STANDING CROP	519	51	13	9	100	37	61	18	4	4	4	
	420			4			61	9	3	3	3	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 08SEP86 TO 18SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	38	20	0	0	0	5	5	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	3	3	0	0
INDIAN POINT	0	0	0	12	0	0	0	0	0	0	0	0	0
WEST POINT	0	2	2	NS	1	1	0	0	0	NS	NS	0	0
CORNWALL	0	0	0	4	0	0	0	0	0	2	1	0	0
POUGHKEEPSIE	0	7	7	NS	0	0	0	0	0	NS	NS	0	0
HYDE PARK	0	5	5	NS	0	0	0	0	0	NS	NS	0	0
KINGSTON	246	2	2	NS	0	0	0	0	2	2	NS	0	0
SAUGERTIES	52	0	0	NS	29	15	0	0	0	NS	NS	0	0
CATSKILL	0	8	3	NS	283	283	0	0	5	3	NS	0	0
ALBANY	0	0	0	NS	0	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	299	25	10	16	352	284	0	0	7	4	10	0	0
	252			6			0	0			6		

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 22SEP86 TO 02OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	3	0	0
TAPPAN ZEE	0	0	0	0	11	10	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	7	7	0	0	5	0	0	0
WEST POINT	0	0	NS	NS	1	1	0	0	0	NS	0	0
CORNWALL	0	0	0	0	7	5	0	0	13	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	9	NS	0	0
HYDE PARK	0	3	NS	NS	0	0	0	0	6	NS	0	0
KINGSTON	0	23	NS	NS	0	0	0	0	2	NS	0	0
SAUGERTIES	59	37	NS	NS	21	19	0	0	2	NS	0	0
CATSKILL	137	25	NS	NS	0	0	0	0	0	NS	0	0
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	196	88	0	0	48	23	0	0	38	3	0	0
	149	24	0	0			0	0	15	3	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEMJFE FROM 07OCT86 TO 16OCT86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	2	2	0
	0	0	0	0	0	0	0	0	0	2	2	0
TAPPAN ZEE	0	0	7	7	2	2	0	6	63	63	0	0
	0	0	5	5	2	2	0	6	20	20	0	0
CROTON-HAVERSTRAM	0	3	3	0	0	0	0	8	6	6	0	0
	0	3	3	0	0	0	0	5	4	4	0	0
INDIAN POINT	205	16	0	0	0	0	0	11	4	4	0	0
	205	11	0	0	0	0	0	7	2	2	0	0
WEST POINT	176	0	NS	NS	0	0	0	0	NS	NS	0	0
	176	0	0	0	0	0	0	0	0	0	0	0
CORNWALL	0	0	0	0	64	64	0	0	0	0	0	0
	0	0	0	0	34	34	0	0	0	0	0	0
POUGHKEEPSIE	0	8	NS	NS	0	0	0	0	NS	NS	0	0
	0	8	0	0	0	0	0	0	0	0	0	0
HYDE PARK	246	3	NS	NS	<0.5	<0.5	0	0	NS	NS	0	0
	149	3	0	0	<0.5	<0.5	0	0	0	0	0	0
KINGSTON	177	20	NS	NS	0	0	43	0	NS	NS	0	0
	89	11	0	0	0	0	43	0	0	0	0	0
SAUGERTIES	206	39	NS	NS	16	16	0	0	NS	NS	0	0
	130	14	0	0	11	11	0	0	0	0	0	0
CATSKILL	130	6	NS	NS	2	2	0	0	NS	NS	0	0
	89	6	0	0	2	2	0	0	0	0	0	0
ALBANY	0	0	NS	NS	0	0	0	0	NS	NS	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL STANDING CROP	1140	94	7	7	84	84	43	25	74	74	0	0
	358	23	5	5	36	36	43	11	20	20	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 20OCT86 TO 30OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	8	0	2	0	0	0	3	0	0	
	0	0	5	0	2	0	0	0	3	0	0	
TAPPAN ZEE	0	0	3	6	0	0	0	0	28	0	0	
	0	0	3	4	0	0	0	0	11	0	0	
CROTON-HAVERSTRAW	0	0	3	0	0	0	0	0	0	0	0	
	0	0	3	0	0	0	0	0	0	0	0	
INDIAN POINT	168	0	2	4	4	0	0	0	2	0	0	
	168	0	2	4	4	0	0	0	2	0	0	
WEST POINT	888	7	NS	0	0	0	0	0	NS	0	0	
	618	7	NS	0	0	0	0	0	NS	0	0	
CORNWALL	273	34	11	7	7	0	0	4	1	0	0	
	273	11	3	7	7	0	0	4	1	0	0	
POUGHKEEPSIE	206	20	NS	0	0	0	0	0	NS	0	0	
	206	13	NS	0	0	0	0	0	NS	0	0	
HYDE PARK	572	19	NS	1	1	0	0	0	NS	0	0	
	457	7	NS	1	1	0	0	0	NS	0	0	
KINGSTON	172	12	NS	0	0	0	0	0	NS	0	0	
	124	7	NS	0	0	0	0	0	NS	0	0	
SAUGERTIES	0	10	NS	6	6	0	0	0	NS	0	0	
	0	4	NS	6	6	0	0	0	NS	0	0	
CATSKILL	0	2	NS	0	0	0	0	0	NS	0	0	
	0	2	NS	0	0	0	0	0	NS	0	0	
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0	NS	0	0	0	0	0	NS	0	0	
TOTAL STANDING CROP	2279	103	27	25	25	0	0	4	35	0	0	
	867	21	8	11	11	0	0	4	12	0	0	



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEMIFE FROM 03NOV86 TO 14NOV86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	9	7	2	0	9	6	0
	0	9	4	2	0	9	6	0
TAPPAN ZEE	0	19	103	6	0	0	33	0
	0	13	34	3	0	0	23	0
CROTON-HAVERSTRAW	0	6	11	4	0	3	3	0
	0	4	6	3	0	3	3	0
INDIAN POINT	0	0	2	9	0	0	0	0
	0	0	2	7	0	0	0	0
WEST POINT	0	4	NS	0	0	0	NS	0
	0	4	NS	0	0	0	NS	0
CORNWALL	81	0	0	0	0	0	0	0
	81	0	0	0	0	0	0	0
POUGHKEEPSIE	191	6	NS	0	0	0	NS	0
	191	6	NS	0	0	0	NS	0
HYDE PARK	100	0	NS	0	0	0	NS	0
	100	0	NS	0	0	0	NS	0
KINGSTON	0	0	NS	0	0	0	NS	0
	0	0	NS	0	0	0	NS	0
SAUGERTIES	0	0	NS	0	0	0	NS	0
	0	0	NS	0	0	0	NS	0
CATSKILL	0	0	NS	0	0	0	NS	0
	0	0	NS	0	0	0	NS	0
ALBANY	0	0	NS	0	0	0	NS	0
	0	0	NS	0	0	0	NS	0
TOTAL STANDING CROP	372	44	123	20	0	12	42	0
	230	18	34	8	0	9	24	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 17NOV86 TO 02DEC86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	230	16	0	0	0	0	10	0	0	0	0
	0	86	8	0	0	0	0	10	0	0	0	0
TAPPAN ZEE	104	0	15	2	2	0	0	0	0	0	0	0
	68	0	9	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	39	45	0	0	0	0	0	5	0	0	0
	0	13	15	0	0	0	0	0	3	0	0	0
INDIAN POINT	129	0	0	0	0	0	0	0	0	0	0	0
	129	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
HYDE PARK	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
KINGSTON	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
CATSKILL	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
TOTAL STANDING CROP	233	268	75	2	2	0	0	10	5	10	0	0
	146	87	19	0	0	0	0	10	3	10	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 15JUL86 TO 25JUL86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	1480 732	0 0	0 0	0 0	0 0	0 0	18154 3247	538 122	299 124	45 25		
TAPPAN ZEE	5140 1934	0 0	336 117	4 4	4 4		14512 5200	671 199	1771 245	189 64		
CROTON-HAVERSTRAM	5436 2500	0 0	62 22	0 0	0 0		106 53	110 20	273 71	0 0		
INDIAN POINT	15697 1365	5 5	24 22	0 0	0 0		1769 657	24 7	20 12	65 48		
WEST POINT	1501 757	0 0	NS	0 0	0 0		648 648	4 4	NS	0 0		
CORNWALL	6973 3461	0 0	2 1	0 0	0 0		87 87	15 11	25 13	0 0		
POUGHKEEPSIE	0 0	0 0	NS	0 0	0 0		0 0	7 7	NS	0 0		
HYDE PARK	93 93	0 0	NS	0 0	0 0		0 0	3 3	NS	0 0		
KINGSTON	171 86	0 0	NS	0 0	0 0		41 41	0 0	NS	0 0		
SAUGERTIES	503 208	5 5	NS	0 0	0 0		0 0	4 4	NS	0 0		
CATSKILL	233 87	0 0	NS	0 0	0 0		0 0	0 0	NS	0 0		
ALBANY	33 20	0 0	NS	0 0	0 0		0 0	0 0	NS	0 0		
TOTAL STANDING CROP	37260 5001	9 7	424 121	4 4	4 4		35318 6200	1376 235	2388 284	299 84		

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 28-JUL-86 TO 09-AUG-86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	824 332	11 11	4 4	4 4	11 7	11	27917 8540	376 194	78 17	20 9		
TAPPAN ZEE	35020 10434	8 8	18 18	18 18	4 4	4	6057 2258	341 92	270 61	4 3		
CROTON-HAVERSTRAW	3559 814	55 27	491 234	491 234	66 64	66	493 493	218 44	304 68	37 37		
INDIAN POINT	20709 15866	89 57	257 168	257 168	0 0	0	2722 773	165 56	61 20	7 7		
WEST POINT	5804 3758	26 13	NS	NS	0 0	0	1744 1000	17 6	NS	0 0		
CORNWALL	3515 927	45 29	7 3	7 3	0 0	0	461 243	26 15	39 24	0 0		
POUGHKEEPSIE	2655 1697	52 36	NS	NS	0 0	0	0 0	84 31	NS	0 0		
HYDE PARK	2291 2291	3 3	NS	NS	0 0	0	97 97	0 0	NS	0 0		
KINGSTON	269 227	3 3	NS	NS	0 0	0	46 46	0 0	NS	0 0		
SAUGERTIES	375 375	0 0	NS	NS	0 0	0	0 0	0 0	NS	0 0		
CATSKILL	0 0	0 0	NS	NS	4 4	4	0 0	0 0	NS	0 0		
ALBANY	18 18	0 0	NS	NS	0 0	0	0 0	0 0	NS	0 0		
TOTAL STANDING CROP	75038 19613	291 81	777 289	777 289	84 65	84	39536 8941	1227 229	752 98	68 39		

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 11AUG86 TO 22AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	36458 4761	21 13	6 6	0 0	0 0	0 0	3036 1314	86 64	31 21	31 21	0 0	
TAPPAN ZEE	23493 6362	36 17	18 12	220 172	220 172	220 172	1576 1123	65 25	96 28	96 28	30 30	
CROTON-HAVERSTRAW	4138 3111	97 65	35 15	0 0	0 0	0 0	0 0	79 46	39 12	39 12	0 0	
INDIAN POINT	3519 1308	14 10	5 2	0 0	0 0	0 0	693 494	40 28	90 57	90 57	0 0	
WEST POINT	5254 1055	11 8	NS	0 0	0 0	0 0	397 397	0 0	NS NS	NS NS	0 0	
CORNWALL	5245 2320	28 28	5 5	0 0	0 0	0 0	369 241	8 8	1 1	1 1	0 0	
POUGHKEEPSIE	11620 8578	54 28	NS	0 0	0 0	0 0	649 365	23 10	NS NS	NS NS	0 0	
HYDE PARK	732 295	0 0	NS	0 0	0 0	0 0	98 98	0 0	NS NS	NS NS	0 0	
KINGSTON	4923 1720	2 2	NS	0 0	0 0	0 0	0 0	0 0	NS NS	NS NS	0 0	
SAUGERTIES	1588 523	0 0	NS	0 0	0 0	0 0	0 0	0 0	NS NS	NS NS	0 0	
CATSKILL	446 178	2 2	NS	0 0	0 0	0 0	0 0	0 0	NS NS	NS NS	0 0	
ALBANY	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	NS NS	NS NS	0 0	
TOTAL STANDING CROP	97416 12569	265 80	70 21	220 172	220 172	220 172	6818 1895	302 88	257 68	257 68	30 30	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 25AUG86 TO 06SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	53671 15123	1022 243	389 116	2	2	2	1388 803	711 260	351 119	2	2	
TAPPAN ZEE	27940 9857	388 141	2925 739	4 3			191 83	87 45	218 51	2	2	
CROTON-HAVERSTRAW	23163 6968	939 207	2988 967	0	0		0 0	66 17	60 19	0	0	
INDIAN POINT	15887 7798	267 172	23 16	0	0		1257 842	48 32	16 9	0	0	
WEST POINT	7598 3993	14 11	NS	0	0		3015 2348	9 6	NS	0	0	
CORNWALL	20514 13489	47 25	5 4	0	0		88 88	4 4	9 3	0	0	
POUGHKEEPSIE	15826 6781	85 49	NS	0	0		3614 1916	56 56	NS	0	0	
HYDE PARK	2446 1249	3 3	NS	0	0		374 155	0 0	NS	0	0	
KINGSTON	5297 2640	3 3	NS	0	0		134 96	0 0	NS	0	0	
SAUGERTIES	320 198	2 2	NS	0	0		0 0	0 0	NS	0	0	
CATSKILL	523 356	0 0	NS	0	0		0 0	0 0	NS	0	0	
ALBANY	68 32	1 1	NS	0	0		0 0	0 0	NS	0	0	
TOTAL STANDING CROP	173253 26226	2772 394	6331 1223	5	3		10061 3254	982 272	655 131	3	2	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 08SEP86 TO 18SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	21747	431	338	104	336	584	260	2	2			
	6023	113	137	56	206	274	106					
TAPPAN ZEE	51680	1566	1810	13	241	70	392	6	6			
	13597	423	321	8	127	34	60	3	3			
CROTON-HAVERSTRAM	38821	352	394	0	259	68	134	0	0			
	20588	103	77	0	62	24	30	0	0			
INDIAN POINT	8827	315	37	0	0	34	37	0	0			
	4579	188	14	0	0	27	11	0	0			
WEST POINT	2663	43	NS	0	360	3	NS	0	0			
	1016	11		0	181	3		0	0			
CORNWALL	6223	73	14	0	415	14	7	0	0			
	3985	36	9	0	415	9	5	0	0			
POUGHKEEPSIE	2260	217	NS	0	232	0	NS	0	0			
	1131	154		0	232	0		0	0			
HYDE PARK	6445	10	NS	0	94	3	NS	0	0			
	3207	7		0	94	3		0	0			
KINGSTON	2961	11	NS	0	43	0	NS	0	0			
	954	6		0	43	0		0	0			
SAUGERTIES	56	0	NS	0	0	0	NS	0	0			
	56	0		0	0	0		0	0			
CATSKILL	127	0	NS	0	0	0	NS	0	0			
	87	0		0	0	0		0	0			
ALBANY	0	0	NS	0	0	0	NS	0	0			
	0	0		0	0	0		0	0			
TOTAL STANDING CROP	141811	3020	2593	117	1981	775	831	7	7			
	26370	513	358	56	576	279	126	3	3			

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 22SEP86 TO 02OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	42183 11540	757 288	125 33	130 109	0 0	173 63	64 25	9 4				
TAPPAN ZEE	38777 8262	1366 321	1383 334	13 13	99 65	21 16	34 13	0 0				
CROTON-HAVERSTRAW	40394 12467	576 125	476 111	33 33	0 0	27 19	10 7	2 2				
INDIAN POINT	67785 60959	552 268	83 41	0 0	167 167	5 5	0 0	0 0				
WEST POINT	6167 5444	12 9	NS	13 13	825 592	7 7	NS	4 4				
CORNWALL	10657 5700	103 21	6 5	0 0	1081 696	4 4	7 3	0 0				
POUGHKEEPSIE	2150 1834	28 17	NS	0 0	0 0	0 0	NS	0 0				
HYDE PARK	529 422	3 3	NS	0 0	0 0	0 0	NS	0 0				
KINGSTON	131 59	3 3	NS	0 0	0 0	3 3	NS	0 0				
SAUGERTIES	129 129	0 0	NS	0 0	0 0	0 0	NS	0 0				
CATSKILL	0 0	0 0	NS	0 0	0 0	0 0	NS	0 0				
ALBANY	0 0	0 0	NS	0 0	0 0	0 0	NS	0 0				
TOTAL STANDING CROP	208902 64332	3400 524	2073 356	189 115	2172 931	241 68	115 30	15 6				



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 07OCT86 TO 16OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	35133 4929	610 183	198 49	198 49	4823 4663		179 110	30 19	32 19		5 3	
TAPPAN ZEE	20513 4775	522 157	745 161	745 161	382 264		93 61	6 6	36 14		2 2	
CROTON-HAVERSTRAN	8772 2888	66 21	15 10	15 10	12 12		64 64	3 3	6 6		0 0	
INDIAN POINT	10490 9249	143 115	3 3	3 3	28 21		0 0	5 5	0 0		0 0	
WEST POINT	528 528	0 0	NS	NS	1 1		0 0	0 0	NS		0 0	
CORNWALL	872 727	4 4	1 1	1 1	0 0		172 172	0 0	0 0		0 0	
POUGHKEEPSIE	856 856	0 0	NS	NS	0 0		642 642	7 7	NS		0 0	
HYDE PARK	0 0	0 0	NS	NS	0 0		0 0	0 0	NS		0 0	
KINGSTON	0 0	0 0	NS	NS	0 0		41 41	0 0	NS		0 0	
SAUGERTIES	0 0	0 0	NS	NS	0 0		0 0	0 0	NS		0 0	
CATSKILL	0 0	0 0	NS	NS	0 0		0 0	0 0	NS		0 0	
ALBANY	0 0	0 0	NS	NS	0 0		0 0	0 0	NS		0 0	
TOTAL STANDING CROP	77165 11938	1344 268	963 169	963 169	5246 4670		1190 681	50 22	74 24		6 4	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 20OCT86 TO 30OCT86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	13016	28	26	26	2	2	89	0	36	3	3	3
	3639	17	14	14	2	2	89	0	22	3	3	3
TAPPAN ZEE	16112	101	126	126	2	2	0	6	0	0	0	0
	3896	72	37	37	2	2	0	6	0	0	0	0
CROTON-HAVERSTRAW	1857	258	49	49	0	0	0	4	0	0	0	0
	535	67	20	20	0	0	0	4	0	0	0	0
INDIAN POINT	3138	11	6	6	61	61	0	0	0	0	0	0
	2420	11	4	4	61	61	0	0	0	0	0	0
WEST POINT	1789	0	NS	NS	12	12	0	0	NS	0	0	0
	684	0			12	12	0	0				
CORNWALL	1692	45	7	7	0	0	91	0	1	0	0	0
	37	14	5	5	0	0	91	0	1	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	NS	0	0	0
	0	0			0	0	0	0				
HYDE PARK	0	0	NS	NS	0	0	0	0	NS	0	0	0
	0	0			0	0	0	0				
KINGSTON	44	0	NS	NS	0	0	0	0	NS	0	0	0
	44	0			0	0	0	0				
SAUGERTIES	0	0	NS	NS	0	0	0	0	NS	0	0	0
	0	0			0	0	0	0				
CATSKILL	0	0	NS	NS	0	0	0	0	NS	0	0	0
	0	0			0	0	0	0				
ALBANY	0	0	NS	NS	0	0	0	0	NS	0	0	0
	0	0			0	0	0	0				
TOTAL STANDING CROP	37648	443	215	215	76	76	180	9	37	3	3	3
	5919	101	45	45	62	62	127	7	22	3	3	3

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 03NOV86 TO 14NOV86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	1212	8	0	0	0	0	0	0	0	0	0	0
	513	8	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	3505	0	7	4	4	4	0	0	0	0	0	0
	1158	0	5	4	4	4	0	0	0	0	0	0
CROTON-HAVERSTRAW	2188	0	12	0	0	0	0	3	0	0	0	0
	512	0	7	0	0	0	0	3	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	4	0	0	0	0
	0	0	0	0	0	0	0	4	0	0	0	0
WEST POINT	0	0	NS	25	20	25	0	0	NS	0	0	0
	0	0	NS	20	20	20	0	0	NS	0	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
HYDE PARK	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
KINGSTON	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
CATSKILL	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0	NS	0	0	0	0	0	NS	0	0	0
TOTAL STANDING CROP	6905	8	19	29	21	29	0	7	0	0	0	0
	1366	8	8	21	21	21	0	5	0	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 17NOV86 TO 02DEC86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	535	32	3	3	2	2	0	0	0	0	0	
	535	21	3	3	2	2	0	0	0	0	0	
TAPPAN ZEE	351	0	0	0	0	0	0	0	0	0	0	
	351	0	0	0	0	0	0	0	0	0	0	
CROTON-HAVERSTRAW	104	0	0	0	0	0	0	0	0	0	0	
	104	0	0	0	0	0	0	0	0	0	0	
INDIAN POINT	129	0	0	0	0	0	0	0	0	0	0	
	129	0	0	0	0	0	0	0	0	0	0	
WEST POINT	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
HYDE PARK	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
KINGSTON	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
SAUGERTIES	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
CATSKILL	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
ALBANY	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
TOTAL STANDING CROP	1119	32	3	3	2	2	0	0	0	0	0	
	661	21	3	3	2	2	0	0	0	0	0	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 15 JUL 86 TO 25 JUL 86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	185	10	0	0	0	0	0	0	0	0	0	0
	115	10	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	45	0	0	0	0	0	0	0	0	0	0	0
	45	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	NS	NS	0
	0	0	0	0	0	0	0	0	0	0	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	NS	NS	0
	0	0	0	0	0	0	0	0	0	0	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	NS	NS	0
	0	0	0	0	0	0	0	0	0	0	0	0
KINGSTON	0	0	NS	NS	0	0	0	0	0	NS	NS	0
	0	0	0	0	0	0	0	0	0	0	0	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	NS	NS	0
	0	0	0	0	0	0	0	0	0	0	0	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	NS	NS	0
	0	0	0	0	0	0	0	0	0	0	0	0
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	NS	0
	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL STANDING CROP	230	10	0	0	0	0	0	0	0	0	0	0
	124	10	0	0	0	0	0	0	0	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 28JUL86 TO 09AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	69	32	32	2	2	0	0	0	0	0	
	0	32	14	14			0	0	0	0	0	
TAPPAN ZEE	345	19	32	32	0	0	0	0	0	0	0	
	174	9	25	25	0	0	0	0	0	0	0	
CROTON-HAVERSTRAW	741	191	47	47	0	0	0	0	0	0	0	
	566	50	19	19	0	0	0	0	0	0	0	
INDIAN POINT	285	432	16	16	0	0	0	0	0	0	0	
	285	226	14	14	0	0	0	0	0	0	0	
WEST POINT	0	0	NS	NS	0	0	0	0	NS	NS	0	
	0	0			0	0	0	0			0	
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	NS	NS	0	
	0	0			0	0	0	0			0	
HYDE PARK	0	0	NS	NS	0	0	0	0	NS	NS	0	
	0	0			0	0	0	0			0	
KINGSTON	0	0	NS	NS	0	0	0	0	NS	NS	0	
	0	0			0	0	0	0			0	
SAUGERTIES	0	0	NS	NS	0	0	0	0	NS	NS	0	
	0	0			0	0	0	0			0	
CATSKILL	0	0	NS	NS	0	0	0	0	NS	NS	0	
	0	0			0	0	0	0			0	
ALBANY	0	0	NS	NS	0	0	0	0	NS	NS	0	
	0	0			0	0	0	0			0	
TOTAL STANDING CROP	1371	711	127	127	2	2	0	0	0	0	0	
	657	234	37	37			0	0			0	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 11AUG86 TO 22AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	653 417	150 30	109 32	2 2	0 0	0 0	0 0	0 0
TAPPAN ZEE	112 73	90 36	191 47	0 0	0 0	0 0	0 0	0 0
CROTON-HAVERSTRAW	0 0	146 75	38 12	0 0	0 0	0 0	0 0	0 0
INDIAN POINT	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
WEST POINT	0 0	0 0	NS NS	0 0	0 0	0 0	NS NS	0 0
CORNWALL	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
POUGHKEEPSIE	0 0	0 0	NS NS	0 0	0 0	0 0	NS NS	0 0
HYDE PARK	0 0	0 0	NS NS	0 0	0 0	0 0	NS NS	0 0
KINGSTON	0 0	0 0	NS NS	0 0	0 0	0 0	NS NS	0 0
SAUGERTIES	0 0	0 0	NS NS	0 0	0 0	0 0	NS NS	0 0
CATSKILL	0 0	0 0	NS NS	0 0	0 0	0 0	NS NS	0 0
ALBANY	0 0	0 0	NS NS	0 0	0 0	0 0	NS NS	0 0
TOTAL STANDING CROP	765 424	386 89	337 58	2 2	0 0	0 0	0 0	0 0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 25AUG86 TO 06SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	159	1976	481	0	0	0	0	0	0	0	0	0
	103	633	255	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	339	229	0	0	0	0	0	0	0	0	0
	0	89	59	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	43	32	0	0	0	0	0	0	0	0	0
	0	12	11	0	0	0	0	0	0	0	0	0
INDIAN POINT	155	78	0	0	0	0	0	0	0	0	0	0
	155	33	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	0	0	0	NS	0	0
	0	0	NS	0	0	0	0	0	0	NS	0	0
CORNWALL	88	4	0	0	0	0	0	0	0	0	0	0
	88	4	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	0	0	0	NS	0	0
	0	0	NS	0	0	0	0	0	0	NS	0	0
HYDE PARK	0	0	NS	0	0	0	0	0	0	NS	0	0
	0	0	NS	0	0	0	0	0	0	NS	0	0
KINGSTON	0	0	NS	0	0	0	0	0	0	NS	0	0
	0	0	NS	0	0	0	0	0	0	NS	0	0
SAUGERTIES	0	0	NS	0	0	0	0	0	0	NS	0	0
	0	0	NS	0	0	0	0	0	0	NS	0	0
CATSKILL	0	0	NS	0	0	0	0	0	0	NS	0	0
	0	0	NS	0	0	0	0	0	0	NS	0	0
ALBANY	0	0	NS	0	0	0	0	0	0	NS	0	0
	0	0	NS	0	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	402	2440	742	0	0	0	0	0	0	0	0	0
	206	640	262	0	0	0	0	0	0	0	0	0



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 08SEP86 TO 18SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	348 243	1092 249	256 135	2 2	0 0	0 0	0 0	10 10	0 0	0 0	0 0	0 0
TAPPAN ZEE	140 140	62 36	161 34	2 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
CROTON-HAVERSTRAW	64 64	140 75	25 13	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
INDIAN POINT	0 0	28 22	12 8	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
WEST POINT	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0	0 0
CORNWALL	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
POUGHKEEPSIE	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0	0 0
HYDE PARK	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0	0 0
KINGSTON	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0	0 0
SAUGERTIES	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0	0 0
CATSKILL	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0	0 0
ALBANY	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0	0 0
TOTAL STANDING CROP	552 287	1322 264	454 140	3 2	0 0	0 0	0 0	10 10	0 0	0 0	0 0	0 0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 22SEP86 TO 02OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	393	107	2	0	0	0	0
	0	145	16	2	0	0	0	0
TAPPAN ZEE	0	139	88	0	0	0	0	0
	0	57	32	0	0	0	0	0
CROTON-HAVERSTRAW	0	64	7	0	0	0	0	0
	0	26	5	0	0	0	0	0
INDIAN POINT	0	24	0	0	0	0	0	0
	0	15	0	0	0	0	0	0
WEST POINT	0	3	NS	0	0	0	NS	0
	0	3		0	0	0		0
CORNWALL	0	0	2	0	0	0	0	0
	0	0	1	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
HYDE PARK	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
KINGSTON	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
SAUGERTIES	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
CATSKILL	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
ALBANY	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
TOTAL STANDING CROP	0	623	204	2	0	0	0	0
	0	159	36	2	0	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 07OCT86 TO 16OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	260	156	56	0	0	0	0	0	5	5	0	0
	260	60	13	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	53	75	165	0	0	0	0	0	4	4	0	0
	53	41	43	0	0	0	0	0	4	4	0	0
CROTON-HAVERSTRAW	0	10	5	0	0	0	0	0	0	0	0	0
	0	5	5	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	15	2	0	0	0	0	0	0	0	0	0
	0	10	2	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	0	0	NS	NS	0	0
	0	0	NS	0	0	0	0	0	NS	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	0	0	NS	NS	0	0
	0	0	NS	0	0	0	0	0	NS	NS	0	0
HYDE PARK	0	0	NS	0	0	0	0	0	NS	NS	0	0
	0	0	NS	0	0	0	0	0	NS	NS	0	0
KINGSTON	0	0	NS	0	0	0	0	0	NS	NS	0	0
	0	0	NS	0	0	0	0	0	NS	NS	0	0
SAUGERTIES	0	0	NS	0	0	0	0	0	NS	NS	0	0
	0	0	NS	0	0	0	0	0	NS	NS	0	0
CATSKILL	0	0	NS	0	0	0	0	0	NS	NS	0	0
	0	0	NS	0	0	0	0	0	NS	NS	0	0
ALBANY	0	0	NS	0	0	0	0	0	NS	NS	0	0
	0	0	NS	0	0	0	0	0	NS	NS	0	0
TOTAL STANDING CROP	314	257	228	0	0	0	0	0	8	6	0	0
	266	73	45	0	0	0	0	0	0	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 20OCT86 TO 30OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	66	32	0	0	0	0	0	0	0	0	
	0	35	8	0	0	0	0	0	0	0	0	
TAPPAN ZEE	64	39	14	0	0	0	0	0	0	0	0	
	64	15	7	0	0	0	0	0	0	0	0	
CROTON-HAVERSTRAW	0	55	9	0	0	0	0	0	0	0	0	
	0	22	9	0	0	0	0	0	0	0	0	
INDIAN POINT	168	29	0	0	0	0	0	0	0	0	0	
	168	17	0	0	0	0	0	0	0	0	0	
WEST POINT	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
POUGHKEEPSIE	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
HYDE PARK	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
KINGSTON	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
SAUGERTIES	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
CATSKILL	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
TOTAL STANDING CROP	233	189	56	0	0	0	0	0	0	0	0	
	180	47	14	0	0	0	0	0	0	0	0	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 03NOV86 TO 14NOV86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	3	3	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	3	3	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	3	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	NS	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	NS	0	0
KINGSTON	0	0	NS	NS	0	0	0	0	0	NS	0	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	NS	0	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	NS	0	0
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	0	3	7	5	0	0	0	0	0	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 17NOV86 TO 02DEC86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	NS	0
CORNWALL	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
HYDE PARK	0	0	NS	0	0	0	NS	0
KINGSTON	0	0	NS	0	0	0	NS	0
SAUGERTIES	0	0	NS	0	0	0	NS	0
CATSKILL	0	0	NS	0	0	0	NS	0
ALBANY	0	0	NS	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 15JUL86 TO 25JUL86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	
TAPPAN ZEE	0	0	0	0	0	0	0	29	48	15	9	
CROTON-HAVERSTRAN	0	0	0	0	0	0	0	6	19	0	0	
INDIAN POINT	0	0	0	0	0	0	0	6	0	2	2	
WEST POINT	0	0	NS	NS	0	0	0	0	NS	0	0	
CORNWALL	0	0	0	0	0	0	0	9	25	0	0	
POUGHKEEPSIE	0	0	NS	NS	0	0	225	0	NS	0	0	
HYDE PARK	0	3	NS	NS	0	0	0	3	NS	0	0	
KINGSTON	0	0	NS	NS	0	0	0	0	NS	7	7	
SAUGERTIES	0	0	NS	NS	0	0	0	16	NS	0	0	
CATSKILL	0	0	NS	NS	0	0	0	25	NS	0	0	
ALBANY	0	0	NS	NS	0	0	0	1	NS	0	0	
TOTAL STANDING CROP	0	3	0	0	0	0	225	96	92	24	12	
	0	3	0	0	0	0	225	22	25	0	0	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 28JUL86 TO 09AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	2	2	53	0	19	30	30	16
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	3	124	0	114	0
INDIAN POINT	0	0	0	0	0	0	0	38	0	0	0	0
WEST POINT	0	0	0	NS	0	0	0	3	NS	0	NS	0
CORNWALL	0	4	4	0	0	0	0	8	2	0	2	0
POUGHKEEPSIE	0	0	0	NS	0	0	0	14	NS	0	NS	0
HYDE PARK	0	3	3	NS	0	0	0	0	0	NS	NS	<0.5
KINGSTON	0	0	0	NS	0	0	0	13	7	NS	NS	0
SAUGERTIES	0	5	5	NS	0	0	0	41	24	NS	NS	0
CATSKILL	0	17	4	NS	0	0	0	29	16	NS	NS	0
ALBANY	0	5	4	NS	0	0	0	3	2	NS	NS	2
TOTAL STANDING CROP	0	34	9	0	2	2	53	153	145	32	145	32
	0	0	0	0	0	0	53	50	115	16	115	16



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 11AUG86 TO 22AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	22	0	0	0	
	0	0	0	0	0	0	0	22	0	0	0	
TAPPAN ZEE	0	0	0	0	0	0	0	7	16	11	6	
	0	0	0	0	0	0	0	7	7	7	6	
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	18	0	0	
	0	0	0	0	0	0	0	0	9	0	0	
INDIAN POINT	0	0	0	0	0	0	0	0	2	0	0	
	0	0	0	0	0	0	0	0	2	0	0	
WEST POINT	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
CORNWALL	0	0	1	1	0	0	0	0	6	0	0	
	0	0	0	0	0	0	0	0	4	0	0	
POUGHKEEPSIE	0	7	NS	NS	0	0	0	15	NS	0	0	
	0	7	0	0	0	0	0	15	0	0	0	
HYDE PARK	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
KINGSTON	0	5	NS	NS	0	0	0	8	NS	0	0	
	0	3	0	0	0	0	0	4	0	0	0	
SAUGERTIES	0	7	NS	NS	0	0	0	5	NS	0	0	
	0	5	0	0	0	0	0	3	0	0	0	
CATSKILL	0	31	NS	NS	0	0	0	17	NS	0	0	
	0	7	0	0	0	0	0	7	0	0	0	
ALBANY	0	12	NS	NS	0	0	0	2	NS	0	0	
	0	5	0	0	0	0	0	2	0	0	0	
TOTAL STANDING CROP	0	62	1	1	0	0	0	75	41	11	6	
	0	13	0	0	0	0	0	28	12	0	0	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 25AUG86 TO 06SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	
TAPPAN ZEE	0	0	0	0	0	0	0	14	37	4	0	
	0	0	0	0	0	0	0	9	15	3	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	3	35	0	0	
	0	0	0	0	0	0	0	3	15	0	0	
INDIAN POINT	0	0	0	0	0	0	0	5	0	2	0	
	0	0	0	0	0	0	0	5	0	2	0	
WEST POINT	0	0	0	NS	0	0	0	0	NS	0	0	
	0	0	0	NS	0	0	0	0	NS	0	0	
CORNWALL	0	0	0	1	0	0	0	4	4	0	0	
	0	0	0	1	0	0	0	4	2	0	0	
POUGHKEEPSIE	0	0	0	NS	0	0	0	0	NS	0	0	
	0	0	0	NS	0	0	0	0	NS	0	0	
HYDE PARK	0	0	0	NS	0	0	0	3	NS	0	0	
	0	0	0	NS	0	0	0	3	NS	0	0	
KINGSTON	0	0	0	NS	0	0	0	0	NS	0	0	
	0	0	0	NS	0	0	0	0	NS	0	0	
SAUGERTIES	0	19	12	NS	0	0	0	2	NS	0	0	
	0	12	0	NS	0	0	0	2	NS	0	0	
CATSKILL	0	39	16	NS	0	0	0	34	NS	0	0	
	0	16	0	NS	0	0	0	12	NS	0	0	
ALBANY	0	3	2	NS	0	0	0	6	NS	0	0	
	0	2	0	NS	0	0	0	4	NS	0	0	
TOTAL STANDING CROP	0	60	20	1	0	0	0	71	77	6	3	
	0	20	1	1	0	0	0	17	21	3	0	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 08SEP86 TO 18SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	51	51	0	0	12	7	11	7	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	3	3	6	4	0	0
INDIAN POINT	0	0	0	0	0	0	0	6	6	8	6	2	2
WEST POINT	0	0	0	NS	0	0	0	3	3	NS	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	13	8	NS	0	0	0	6	6	NS	NS	0	0
HYDE PARK	0	3	3	NS	0	0	0	0	0	NS	NS	0	0
KINGSTON	0	0	0	NS	0	0	0	2	2	NS	NS	0	0
SAUGERTIES	0	10	6	NS	0	0	0	12	6	NS	NS	0	0
CATSKILL	0	63	12	NS	0	0	0	15	5	NS	NS	0	0
ALBANY	0	3	2	NS	0	0	0	4	2	NS	NS	2	2
TOTAL STANDING CROP	0	93	16	0	51	51	0	51	13	27	10	15	7

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 22SEP86 TO 02OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	8	24	2
CROTON-HAVERSTRAW	0	0	0	0	0	0	14	0
INDIAN POINT	0	0	0	0	0	0	4	0
WEST POINT	0	0	NS	0	0	7	NS	0
CORNWALL	0	0	1	0	0	0	5	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
HYDE PARK	0	3	NS	0	0	0	NS	0
KINGSTON	0	5	NS	0	0	2	NS	0
SAUGERTIES	0	10	NS	0	0	0	NS	0
CATSKILL	0	8	NS	0	0	11	NS	0
ALBANY	0	1	NS	0	0	4	NS	0
TOTAL STANDING CROP	0	27	1	0	0	28	47	2
	0	9	1	0	0	10	13	2

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 07OCT86 TO 16OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	
TAPPAN ZEE	0	0	0	0	0	0	0	0	26	12	6	
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	13	8	6	0	
INDIAN POINT	0	0	0	0	0	0	0	0	14	8	0	
WEST POINT	0	0	NS	NS	0	0	0	0	NS	NS	0	
CORNWALL	0	0	0	0	0	0	0	0	1	1	0	
POUGHKEEPSIE	0	7	NS	NS	0	0	0	0	NS	NS	0	
HYDE PARK	0	3	NS	NS	0	0	0	0	NS	NS	0	
KINGSTON	0	0	NS	NS	0	0	0	7	NS	NS	0	
SAUGERTIES	0	0	NS	NS	0	0	0	2	NS	NS	0	
CATSKILL	0	16	NS	NS	0	0	0	7	NS	NS	0	
ALBANY	0	1	NS	NS	0	0	0	4	NS	NS	0	
TOTAL STANDING CROP	0	27	0	0	0	0	0	30	49	16	6	
		12	0	0	0	0	0	9			4	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 20OCT86 TO 30OCT86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHORE	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	
TAPPAN ZEE	0	0	0	0	0	0	8	8	34	11	2	
CROTON-HAVERSTRAW	0	0	0	0	0	0	10	10	37	11	0	
INDIAN POINT	0	0	0	0	0	0	6	6	4	3	0	
WEST POINT	0	3	3	NS	0	0	7	4	NS	NS	0	
CORNWALL	0	0	0	0	0	0	91	25	91	16	2	
POUGHKEEPSIE	0	7	7	NS	0	0	7	7	NS	NS	0	
HYDE PARK	0	0	0	NS	0	0	0	0	NS	NS	0	
KINGSTON	0	2	2	NS	0	0	0	0	NS	NS	0	
SAUGERTIES	0	8	5	NS	0	0	0	0	NS	NS	0	
CATSKILL	0	18	7	NS	0	0	10	5	NS	NS	0	
ALBANY	0	0	0	NS	0	0	0	0	NS	NS	0	
TOTAL STANDING CROP	0	39	12	0	0	0	91	73	91	23	77	
	0	0	0	0	0	0	0	0	0	0	16	
											2	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 03NOV86 TO 14NOV86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	9	3	0
	0	0	0	0	0	9	3	0
TAPPAN ZEE	0	0	0	0	0	17	21	2
	0	0	0	0	0	11	12	2
CROTON-HAVERSTRAW	0	0	0	0	0	3	35	0
	0	0	0	0	0	3	13	0
INDIAN POINT	0	0	0	0	0	9	17	2
	0	0	0	0	0	5	7	2
WEST POINT	181	0	NS	0	0	3	NS	0
	181	0	0	0	0	3	0	0
CORNWALL	0	5	0	0	0	5	5	0
	0	5	0	0	0	5	3	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
HYDE PARK	0	3	NS	0	0	0	NS	0
	0	3	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
SAUGERTIES	54	0	NS	0	0	0	NS	0
	54	0	0	0	0	0	0	0
CATSKILL	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
ALBANY	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
TOTAL STANDING CROP	235	8	0	0	0	45	82	4
	189	6	0	0	0	16	19	3

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 17NOV86 TO 02DEC86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	3	3	0	
TAPPAN ZEE	0	0	0	0	0	0	0	19	67	18	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	14	7	4	0	
INDIAN POINT	0	0	0	0	0	0	0	0	2	2	0	
WEST POINT	0	0	NS	NS	0	0	0	3	NS	NS	0	
CORNWALL	0	0	0	0	0	0	0	0	6	3	0	
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	NS	NS	0	
HYDE PARK	0	0	NS	NS	0	0	0	4	NS	NS	0	
KINGSTON	0	0	NS	NS	0	0	0	0	NS	NS	0	
SAUGERTIES	0	0	NS	NS	0	0	0	0	NS	NS	0	
CATSKILL	0	0	NS	NS	0	0	0	0	NS	NS	0	
ALBANY	0	0	NS	NS	0	0	0	0	NS	NS	0	
TOTAL STANDING CROP	0	0	0	0	0	0	0	40	85	18	0	



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 15JUL86 TO 25JUL86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	4	0	0	0	0
INDIAN POINT	0	0	0	2	0	0	0	2
WEST POINT	0	0	NS	11	0	0	NS	19
CORNWALL	0	0	38	367	0	0	4	30
POUGHKEEPSIE	201	0	NS	448	201	7	NS	77
HYDE PARK	0	0	NS	359	201	7	NS	68
KINGSTON	0	0	NS	24	0	3	NS	10
SAUGERTIES	0	0	NS	11	45	3	NS	8
CATSKILL	0	0	NS	94	45	3	NS	22
ALBANY	0	0	NS	60	0	7	NS	18
TOTAL STANDING CROP	201	11	38	1019	245	54	4	340
	201	4	32	503	206	15	3	87

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 28JUL86 TO 09AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	2	0	0	0	7
WEST POINT	0	0	NS	61	0	0	NS	4
CORNWALL	0	0	0	23	0	5	0	0
POUGHKEEPSIE	0	0	NS	159	0	7	NS	35
HYDE PARK	0	6	NS	36	0	6	NS	2
KINGSTON	0	0	NS	2	0	134	NS	2
SAUGERTIES	0	0	NS	164	0	29	NS	57
CATSKILL	0	11	NS	118	0	50	NS	102
ALBANY	0	52	NS	6	19	60	NS	47
TOTAL STANDING CROP	0	69	0	570	19	292	0	257
	0	23	0	159	19	136	0	109

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 11AUG86 TO 22AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	7	0	0	0	0
WEST POINT	0	0	NS	15	0	0	NS	3
CORNWALL	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	33	0	0	NS	20
HYDE PARK	0	4	NS	16	0	0	NS	20
KINGSTON	0	4	NS	30	0	4	NS	2
SAUGERTIES	0	0	NS	18	0	4	NS	2
CATSKILL	0	0	NS	7	0	14	NS	3
ALBANY	0	0	NS	7	0	14	NS	3
TOTAL STANDING CROP	0	0	0	55	0	13	NS	29
	0	0	0	29	0	7	NS	15
	0	2	NS	67	0	7	NS	71
	0	2	NS	52	0	3	NS	30
	0	3	NS	64	0	14	NS	8
	0	2	NS	64	0	5	NS	8
	0	8	0	278	0	52	0	137
	0	4	0	92	0	17	0	40

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 25AUG86 TO 06SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHOAL	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	6	6	NS	67	27	0	0	0	NS	12	8	0
CORNWALL	0	0	0	0	5	4	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	0	NS	61	37	0	0	6	6	NS	3	2
HYDE PARK	0	0	0	NS	8	4	0	0	3	3	NS	0	0
KINGSTON	0	0	0	NS	148	142	0	0	0	0	NS	48	48
SAUGERTIES	0	0	0	NS	14	8	0	0	7	4	NS	8	8
CATSKILL	0	0	0	NS	236	102	0	0	0	0	NS	71	45
ALBANY	0	0	0	NS	105	72	0	0	20	8	NS	138	136
TOTAL STANDING CROP	0	6	6	0	644	195	0	0	36	12	0	279	151

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 08SEP86 TO 18SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR					YEARLING AND OLDER						
	FALL SHOALS		BEACH SEINE		SHOAL	FALL SHOALS		BEACH SEINE		SHOAL		
	CHANNEL	BOTTOM	SHOAL	SHORE		CHANNEL	BOTTOM	SHOAL	SHORE			
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	14	10	0	0	0	0	NS	3	1
CORNWALL	0	0	0	9	7	0	0	0	0	0	53	49
POUGHKEEPSIE	0	0	NS	96	59	0	0	20	20	NS	35	30
HYDE PARK	0	0	NS	4	3	0	0	3	3	NS	8	8
KINGSTON	0	6	NS	59	19	0	0	55	24	NS	31	17
SAUGERTIES	0	2	NS	109	57	0	0	6	3	NS	209	104
CATSKILL	0	2	NS	132	79	0	0	8	7	NS	171	165
ALBANY	0	0	NS	4	4	0	0	24	11	NS	0	0
TOTAL STANDING CROP	0	10	0	427	117	0	0	117	34	0	510	204

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 22SEP86 TO 02OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAH	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	11	11	0	0	0	0	0	9
WEST POINT	0	0	0	NS	15	11	0	0	0	NS	NS	3
CORNWALL	0	0	0	1	28	22	0	0	0	1	1	5
POUGHKEEPSIE	0	0	0	NS	57	37	0	0	0	NS	NS	4
HYDE PARK	0	0	0	NS	23	12	0	0	3	NS	NS	11
KINGSTON	0	0	0	NS	2	2	0	0	11	NS	NS	14
SAUGERTIES	0	0	0	NS	101	101	0	0	11	NS	NS	115
CATSKILL	0	0	0	NS	0	0	0	0	12	NS	NS	98
ALBANY	0	0	0	NS	299	299	0	0	13	NS	NS	8
TOTAL STANDING CROP	0	0	0	1	536	319	0	0	50	1	1	222
				4	319				11			109

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 07OCT86 TO 16OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	9	0	0	0	0
WEST POINT	0	0	NS	4	0	0	NS	1
CORNHALL	0	0	0	2	0	0	0	51
POUGHKEEPSIE	0	31	NS	3	0	80	NS	33
HYDE PARK	0	15	NS	2	0	62	NS	28
KINGSTON	0	0	NS	11	0	0	NS	11
SAUGERTIES	0	0	NS	7	0	0	NS	5
CATSKILL	0	5	NS	26	0	28	NS	36
ALBANY	0	5	NS	18	0	13	NS	18
TOTAL STANDING CROP	0	17	NS	31	0	54	NS	78
	0	9	NS	23	0	21	NS	34
	0	0	NS	83	0	0	NS	77
	0	0	NS	47	0	0	NS	45
	0	2	NS	27	0	13	NS	31
	0	1	NS	14	0	5	NS	19
	0	56	0	196	0	175	0	319
	0	18	0	59	0	66	0	73

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 20OCT86 TO 30OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR					YEARLING AND OLDER						
	FALL SHOALS		BEACH SEINE		SHOAL	FALL SHOALS		BEACH SEINE		SHOAL	BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE		CHANNEL	BOTTOM	SHOAL	SHORE		CHANNEL	BOTTOM
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAN	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	6	0	0	0	0	0	0	0	11
WEST POINT	0	0	NS	24	NS	0	0	0	0	NS	0	1
CORNWALL	0	0	1	7	1	0	0	0	0	0	0	4
POUGHKEEPSIE	0	0	NS	20	NS	0	0	56	29	NS	0	38
HYDE PARK	0	3	NS	18	NS	0	0	6	4	NS	0	4
KINGSTON	0	0	NS	81	NS	0	0	0	0	NS	0	14
SAUGERTIES	0	0	NS	12	NS	0	0	2	2	NS	0	16
CATSKILL	0	5	NS	65	NS	0	0	19	6	NS	0	100
ALBANY	0	0	NS	19	NS	0	0	0	0	NS	0	6
TOTAL STANDING CROP	0	9	1	251	1	0	0	83	30	0	0	193
	0	4	1	87	1	0	0	0	0	0	0	46



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 03NOV86 TO 14NOV86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	2	2
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	9	6	NS	22	13	0	0	0	12	6	NS	1
CORNWALL	0	14	14	4	11	7	0	0	0	14	9	11	30
POUGHKEEPSIE	0	0	0	NS	18	12	0	0	0	0	0	NS	26
HYDE PARK	0	0	0	NS	7	5	0	0	0	0	0	NS	9
KINGSTON	0	0	0	NS	200	143	0	0	0	11	7	NS	93
SAUGERTIES	0	2	2	NS	84	23	0	0	0	6	3	NS	105
CATSKILL	0	0	0	NS	83	30	0	0	0	9	4	NS	33
ALBANY	0	24	8	NS	62	27	0	0	0	52	19	NS	54
TOTAL STANDING CROP	0	49	17	4	486	152	0	0	0	103	24	11	353
				4								11	62

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 17NOV86 TO 02DEC86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	2	2	0	0	0	0	0	7
WEST POINT	0	0	NS	NS	18	8	0	0	0	NS	NS	2
CORNWALL	0	6	1	1	2	2	0	12	6	4	0	0
POUGHKEEPSIE	0	0	NS	NS	3	2	0	0	0	NS	NS	1
HYDE PARK	0	0	NS	NS	3	3	0	0	0	NS	NS	2
KINGSTON	0	0	NS	NS	9	9	0	0	0	NS	NS	3
SAUGERTIES	0	0	NS	NS	25	23	0	0	0	NS	NS	27
CATSKILL	0	0	NS	NS	51	38	0	36	NS	NS	NS	37
ALBANY	0	0	NS	NS	39	23	0	20	NS	NS	NS	17
TOTAL STANDING CROP	0	6	1	1	152	52	0	49	6	4	0	85
	0	6	1	1	52	52	0	23	4	4	0	33

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 15 JUL 86 TO 25 JUL 86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	3	3	0	0
CROTON-HAVERSTRAN	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	26	18	NS	0
CORNWALL	0	0	0	0	0	0	0	0	11	11	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	7	7	NS	0
HYDE PARK	0	0	NS	NS	0	0	0	0	16	8	NS	0
KINGSTON	0	0	NS	NS	0	0	0	0	11	4	NS	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	3	3	NS	0
CATSKILL	0	0	NS	NS	0	0	0	0	3	2	NS	0
ALBANY	0	0	NS	NS	0	0	0	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	77	24	3	3

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 28JUL86 TO 09AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	
WEST POINT	0	0	NS	NS	0	0	0	0	13	8	NS	
CORNWALL	0	0	0	0	0	0	0	0	13	9	0	
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	8	8	NS	
HYDE PARK	0	0	NS	NS	0	0	0	0	15	12	NS	
KINGSTON	0	0	NS	NS	0	0	0	0	2	2	NS	
SAUGERTIES	0	0	NS	NS	0	0	0	0	7	4	NS	
CATSKILL	0	0	NS	NS	0	0	0	0	0	0	NS	
ALBANY	0	0	NS	NS	0	0	0	0	1	1	NS	
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	60	19	0	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 11AUG86 TO 22AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	7	7	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	14	6	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	3	3	NS	NS	0
CORNWALL	0	0	0	0	0	0	0	5	5	2	1	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	17	17	NS	NS	0
HYDE PARK	0	0	NS	NS	0	0	0	7	7	NS	NS	0
KINGSTON	0	0	NS	NS	0	0	0	35	13	NS	NS	0
SAUGERTIES	0	0	NS	NS	0	0	0	7	4	NS	NS	0
CATSKILL	0	0	NS	NS	0	0	0	2	2	NS	NS	0
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	NS	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	96	25	2	1	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 25AUG86 TO 06SEP86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	8	8	0	0
WEST POINT	0	0	0	NS	0	0	0	0	0	3	3	NS	0
CORNWALL	0	0	0	0	0	0	0	0	0	4	4	0	0
POUGHKEEPSIE	0	0	0	NS	0	0	0	0	0	6	6	NS	0
HYDE PARK	0	0	0	NS	0	0	0	0	0	16	9	NS	0
KINGSTON	0	0	0	NS	0	0	0	0	0	18	7	NS	0
SAUGERTIES	0	0	0	NS	0	0	0	0	0	8	5	NS	0
CATSKILL	0	0	0	NS	0	0	0	0	0	0	0	NS	0
ALBANY	0	0	0	NS	0	0	0	0	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	0	63	17	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 08SEP86 TO 18SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0	12	12	0	0	0	
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	
WEST POINT	0	0	0	NS	0	0	0	2	2	NS	0	
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	
POUGHKEEPSIE	0	0	0	NS	0	0	0	6	6	NS	0	
HYDE PARK	0	0	0	NS	0	0	0	15	7	NS	0	
KINGSTON	0	0	0	NS	0	0	0	9	3	NS	0	
SAUGERTIES	0	0	0	NS	0	0	0	9	7	NS	0	
CATSKILL	0	0	0	NS	0	0	0	3	2	NS	0	
ALBANY	0	0	0	NS	0	0	0	0	0	NS	0	
TOTAL STANDING CROP	0	0	0	0	0	0	0	56	18	0	0	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 22SEP86 TO 02OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	12	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	14	NS	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	3	NS	0	0
KINGSTON	0	0	NS	NS	0	0	0	0	11	NS	0	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	4	NS	0	0
CATSKILL	0	0	NS	NS	0	0	0	0	3	NS	0	0
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	45	0	0	0
									18			



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 07OCT86 TO 16OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	6	0	0
WEST POINT	0	0	NS	0	0	0	NS	0
CORNWALL	0	0	0	0	0	4	0	0
POUGHKEEPSIE	0	0	NS	0	0	23	NS	0
HYDE PARK	0	0	NS	0	0	25	NS	0
KINGSTON	0	0	NS	0	0	16	NS	0
SAUGERTIES	0	0	NS	0	0	7	NS	0
CATSKILL	0	0	NS	0	0	4	NS	0
ALBANY	0	0	NS	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	68	0	0
						30		

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 20OCT86 TO 30OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	3	NS	0
CORNWALL	0	0	0	0	0	4	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
HYDE PARK	0	0	NS	0	0	7	NS	0
KINGSTON	0	0	NS	0	0	21	NS	0
SAUGERTIES	0	0	NS	0	0	10	NS	0
CATSKILL	0	0	NS	0	0	4	NS	0
ALBANY	0	0	NS	0	0	4	NS	0
TOTAL STANDING CROP	0	0	0	0	0	39	0	0
						12		

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 03NOV86 TO 14NOV86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	3	3	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	3	3	NS	0
CORNWALL	0	0	0	0	0	5	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
HYDE PARK	0	0	NS	0	3	3	NS	0
KINGSTON	0	0	NS	0	0	0	NS	0
SAUGERTIES	0	0	NS	0	0	2	NS	0
CATSKILL	0	0	NS	0	0	2	NS	0
ALBANY	0	0	NS	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	18	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 17NOV86 TO 02DEC86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	9	6	0	0	
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	
WEST POINT	0	0	NS	NS	0	0	0	0	0	NS	0	
CORNWALL	0	0	0	0	0	0	0	17	12	0	0	
POUGHKEEPSIE	0	0	NS	NS	0	0	0	11	11	NS	0	
HYDE PARK	0	0	NS	NS	0	0	0	22	8	NS	0	
KINGSTON	0	0	NS	NS	0	0	0	17	12	NS	0	
SAUGERTIES	0	0	NS	NS	0	0	0	3	3	NS	0	
CATSKILL	0	0	NS	NS	0	0	0	0	0	NS	0	
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	0	
TOTAL STANDING CROP	0	0	0	0	0	0	0	79	22	0	0	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 15JUL86 TO 25JUL86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	3	3	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	4	4	NS	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	0	NS	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	0	NS	0
KINGSTON	0	0	NS	NS	0	0	0	0	0	0	NS	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	0	NS	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	0	NS	0
ALBANY	0	0	NS	NS	0	0	0	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	4	4	3	3

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 28JUL86 TO 09AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHOAL	BOTTOM	SHOAL	SHOAL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	4	4	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	NS	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	NS	0	0
KINGSTON	0	0	NS	NS	0	0	0	0	0	NS	0	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	NS	0	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	NS	0	0
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	4	4	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 11AUG86 TO 22AUG86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	NS	0
CORNWALL	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
HYDE PARK	0	0	NS	0	0	4	NS	0
KINGSTON	0	0	NS	0	0	2	NS	0
SAUGERTIES	0	0	NS	0	0	0	NS	0
CATSKILL	0	0	NS	0	0	0	NS	0
ALBANY	0	0	NS	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	7	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 25AUG86 TO 06SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	0	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	0	NS	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	0	NS	0	0
KINGSTON	0	0	NS	NS	0	0	0	0	3	3	NS	0	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	0	NS	0	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	0	NS	0	0
ALBANY	0	0	NS	NS	0	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	3	3	0	0	0



1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 08SEP86 TO 18SEP86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR					YEARLING AND OLDER						
	FALL SHOALS		BEACH SEINE		SHOAL	FALL SHOALS		BEACH SEINE		SHOAL		
	CHANNEL	BOTTOM	SHOAL	SHORE		CHANNEL	BOTTOM	SHOAL	SHORE			
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	0	0	NS	0	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	0	0	NS	0	0	0
HYDE PARK	0	0	NS	0	0	0	0	0	NS	0	0	0
KINGSTON	0	0	NS	0	0	0	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	0	0	0	0	0	NS	0	0	0
CATSKILL	0	0	NS	0	0	0	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	0	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTHOSE STURGEON FROM 22SEP86 TO 02OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	NS	0
CORNWALL	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
HYDE PARK	0	0	NS	0	0	0	NS	0
KINGSTON	0	0	NS	0	0	0	NS	0
SAUGERTIES	0	0	NS	0	0	0	NS	0
CATSKILL	0	0	NS	0	0	2	NS	0
ALBANY	0	0	NS	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	2	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 07OCT86 TO 16OCT86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	3	3	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	0	NS	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	0	NS	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	0	NS	0
KINGSTON	0	0	NS	NS	0	0	0	0	0	0	NS	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	0	NS	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	0	NS	0
ALBANY	0	0	NS	NS	0	0	0	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	0	0	3	3

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 20OCT86 TO 30OCT86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	
CROTON-HAVERSTRAM	0	0	0	0	0	0	0	0	0	0	0	
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	
WEST POINT	0	0	NS	0	0	0	0	0	NS	0	0	
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	
POUGHKEEPSIE	0	0	NS	0	0	0	0	0	NS	0	0	
HYDE PARK	0	0	NS	0	0	0	0	0	NS	0	0	
KINGSTON	0	0	NS	0	0	0	0	0	NS	0	0	
SAUGERTIES	0	0	NS	0	0	0	0	0	NS	0	0	
CATSKILL	0	0	NS	0	0	0	0	0	NS	0	0	
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	0	0	0	

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 03NOV86 TO 14NOV86. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	NS	0
CORNWALL	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
HYDE PARK	0	0	NS	0	0	0	NS	0
KINGSTON	0	0	NS	0	0	0	NS	0
SAUGERTIES	0	0	NS	0	0	0	NS	0
CATSKILL	0	0	NS	0	0	0	NS	0
ALBANY	0	0	NS	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0

1986 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 17NOV86 TO 02DEC86 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	NS	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	NS	0	0
KINGSTON	0	0	NS	NS	0	0	0	0	0	NS	0	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	NS	0	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	NS	0	0
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX J.3

1987 LONGITUDINAL RIVER SURVEY

J.3.1 Eggs and Yolk-sac Larvae

Striped bass

White perch

Alosa spp.



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 14APR87 TO 18APR87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS		YOLK-SAC LARVAE			
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	0	0	0
CATSKILL	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 20APR87 TO 26APR87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0
HYDE PARK	0	0	NS	0	0	0
KINGSTON	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	0	0	0
CATSKILL	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 27APR87 TO 01MAY87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS		YOLK-SAC LARVAE			
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	14629	0	0
WEST POINT	19878	0	NS	14629	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0
HYDE PARK	71359	0	NS	0	0	0
KINGSTON	0	46574	NS	0	0	0
SAUGERTIES	0	46574	NS	0	0	0
CATSKILL	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0
TOTAL STANDING CROP	91237	46574	0	14629	0	0
	74076	46574	0	14629	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 04MAY87 TO 08MAY87 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	0	0	0	318976	12013	23844
	0	0	0	96693	12013	15226
WEST POINT	312564	571204	NS	70510	33625	
	240666	295912		33530	19454	
CORNWALL	127829	816801	0	568481	489431	31104
	81384	601940	0	214162	99147	21414
POUGHKEEPSIE	286243	593596	NS	7007614	970350	
	156725	324957		2980614	175393	
HYDE PARK	227053	83184	NS	2045332	462347	
	119236	36886		664144	63899	
KINGSTON	147947	0	NS	2101881	180790	
	95639	0		460640	91974	
SAUGERTIES	0	0	NS	817833	651259	
	0	0		244316	193929	
CATSKILL	0	77374	NS	160359	110959	
	0	77374		160359	4340	
ALBANY	21069	0	NS	0	7528	
	21069	0		0	7528	
TOTAL STANDING CROP	1122705	2142159	0	1.309E7	2918303	54948
	336027	750227	0	3111122	302228	26276

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 11MAY87 TO 16MAY87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	74000 33680
INDIAN POINT	0	0	0	38704 26824	12690 12690	8475 8475
WEST POINT	158592 74418	182105 46420	NS	775836 138337	197385 72085	
CORNWALL	426 426	14018 3888	3224 1925	1018 571	1184 296	279 49
POUGHKEEPSIE	7781850 4745206	2004513 446863	NS	9372633 1313298	1199720 391717	
HYDE PARK	1.386E7 7654393	7875519 2866337	NS	1.488E7 3445398	1220451 364411	
KINGSTON	1.164E7 4372166	2785281 1480340	NS	1.068E7 2870960	1935684 663723	
SAUGERTIES	377144 377144	37221 37221	NS	6173642 3982208	1738979 933603	
CATSKILL	0 0	76994 76994	NS	0 0	0 0	
ALBANY	0 0	0 0	NS	18772 18772	0 0	
TOTAL STANDING CROP	34249 10028	26979 5073	3224 1925	42958 6168	7488 1300	362 60

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 18MAY87 TO 22MAY87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	32340
	0	0	0	0	0	32340
INDIAN POINT	72464	0	0	73165	85791	0
	72464	0	0	49721	41159	0
WEST POINT	80938	425742	NS	231385	1026752	
	60421	221062		85731	489932	
CORNWALL	288	1372	439	49392	7127	538
	288	762	331	29153	1518	254
POUGHKEEPSIE	1869746	1107812	NS	7.248E8	9.058E7	
	1349141	384280		1.182E8	1.923E7	
HYDE PARK	489843	87869	NS	3.457E8	3.99E7	
	273448	64110		5.947E7	2944871	
KINGSTON	164455	0	NS	5.551E7	3.158E7	
	113814	0		1.049E7	1.156E7	
SAUGERTIES	0	0	NS	6848117	1250814	
	0	0		1000008	860622	
CATSKILL	403975	0	NS	94001	0	
	262133	0		94001	0	
ALBANY	0	0	NS	0	11942	
	0	0		0	11942	
TOTAL STANDING CROP	3370	2994	439	1182737	171564	571
	1438	884	331	135903	22702	256

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 26MAY87 TO 30MAY87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	19191	0
INDIAN POINT	0	0	0	170549	0	0
	0	0	0	95391	0	0
WEST POINT	234622	67055	NS	1.704E7	3304155	
	119845	36977		3052743	1755518	
CORNWALL	120	574	300	132351	19831	3040
	120	335	272	76097	6594	1104
POUGHKEEPSIE	618323	676321	NS	5.818E8	5.735E7	
	365200	379685		1.037E8	1.772E7	
HYDE PARK	917967	50370	NS	1.409E8	4.342E7	
	835681	25346		3.627E7	5278945	
KINGSTON	595852	0	NS	1.824E7	2154519	
	307711	0		3418986	1170656	
SAUGERTIES	131089	131147	NS	2.592E7	7697485	
	131089	87422		1.017E7	2515139	
CATSKILL	0	38329	NS	762253	635070	
	0	38329		762253	328784	
ALBANY	0	0	NS	0	0	
	0	0		0	0	
TOTAL STANDING CROP	2617	1537	300	917266	134412	3040
	986	517	272	134123	19907	1104

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 01JUN87 TO 04JUN87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS		YOLK-SAC LARVAE			
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	45842	0
	0	0	0	0	45842	0
CROTON-HAVERSTRAW	0	0	0	40667	0	0
	0	0	0	40667	0	0
INDIAN POINT	0	0	0	395191	111460	0
	0	0	0	312281	53287	0
WEST POINT	190047	1573245	NS	2.132E7	2888294	
	903151	728237		4199063	959934	
CORNWALL	1226926	137640	0	1.625E7	2675228	145756
	1226926	137640	0	4528662	1041482	34115
POUGHKEEPSIE	861386	219694	NS	1.594E8	3.695E7	
	706374	141291		2.662E7	1.417E7	
HYDE PARK	393334	450746	NS	1.334E8	3111698	
	317919	450746		3.402E7	1065797	
KINGSTON	0	0	NS	3.494E7	542407	
	0	0		2.906E7	481214	
SAUGERTIES	1048172	23776	NS	1.698E7	1709538	
	340356	23776		4595513	1568359	
CATSKILL	1768178	0	NS	488556	1735897	
	1179673	0		488556	641498	
ALBANY	0	0	NS	0	0	
	0	0		0	0	
TOTAL STANDING CROP	7198042	2405102	0	3.832E8	4.977E7	145756
	2104409	879190	0	5.263E7	1.438E7	34115



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 08JUN87 TO 12JUN87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	75894	0	30705	0	0
	0	75894	0	30705	0	0
WEST POINT	190255	432155	NS	1242586	60996	
	97635	176873		967507	40717	
CORNWALL	50380	8665151	0	201942	126433	0
	34146	2353914	0	79322	54636	0
POUGHKEEPSIE	199804	8115699	NS	792686	125186	
	199804	7944011		339800	81605	
HYDE PARK	247319	71421	NS	892240	0	
	148388	32592		382309	0	
KINGSTON	108287	0	NS	314322	0	
	108287	0		198962	0	
SAUGERTIES	2639739	28143	NS	406114	58901	
	2639739	28143		406114	34010	
CATSKILL	0	73386	NS	0	36693	
	0	73386		0	36693	
ALBANY	38441	0	NS	0	0	
	38441	0		0	0	
TOTAL STANDING CROP	3474224	1,746E7	0	3880596	408209	0
	2655949	8288094	0	1187200	117497	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 15JUN87 TO 18JUN87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS		YOLK-SAC LARVAE			
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0		0	0	
TAPPAN ZEE	0	80893	0	0	0	0
	0	80893	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
	0	0	0	0	0	0
WEST POINT	66842	635236	NS	463129	8973	
	49232	263474		131370	8973	
CORNWALL	26483	163742	0	933742	120536	28835
	26483	115802	0	523076	49624	28835
POUGHKEEPSIE	3087118	1581401	NS	8105645	1326733	
	1733032	887345		2515745	969670	
HYDE PARK	4925000	708105	NS	9890588	4310284	
	3571936	449518		3655984	3132039	
KINGSTON	561089	50585	NS	3105604	391145	
	561089	50585		1362959	328855	
SAUGERTIES	3095808	0	NS	7430878	366606	
	432569	0		2334334	122774	
CATSKILL	314087	182940	NS	519556	117530	
	314087	182940		111356	75119	
ALBANY	0	11284	NS	0	0	
	0	11284		0	0	
TOTAL STANDING CROP	1.208E7	3414186	0	3.045E7	6641806	28835
	4045472	1055923	0	5225440	3298687	28835

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 22JUN87 TO 26JUN87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	61274	0	0	0	0
	0	61274		0	0	
TAPPAN ZEE	0	0	0	0	0	0
	0	0		0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0		0	0	
INDIAN POINT	0	0	0	0	0	0
	0	0		0	0	
WEST POINT	0	48123	NS	40046	0	0
	0	36491		27740	0	
CORNWALL	18478	54437	0	167232	34693	0
	18478	44371	0	87538	19168	0
POUGHKEEPSIE	263099	0	NS	2725910	45267	
	263099	0		1405562	29220	
HYDE PARK	0	0	NS	276548	0	
	0	0		187002	0	
KINGSTON	0	0	NS	115199	23354	
	0	0		115199	23354	
SAUGERTIES	0	0	NS	0	28262	
	0	0		0	28262	
CATSKILL	0	0	NS	198051	0	
	0	0		198051	0	
ALBANY	0	0	NS	0	0	
	0	0		0	0	
TOTAL STANDING CROP	281577	163834	0	3522987	131577	0
	263747	83993	0	1439271	50650	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 29JUN87 TO 02JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS		YOLK-SAC LARVAE			
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	26582	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	29943	0
CORNWALL	0	0	0	56338	0	0
POUGHKEEPSIE	0	0	NS	286639	157756	80148
HYDE PARK	0	0	NS	161413	0	0
KINGSTON	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	0	0	0
CATSKILL	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0
TOTAL STANDING CROP	0	0	0	369560	187700	0
	0	0	0	173017	82817	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS EGGS AND YOLK-SAC LARVAE FROM 06JUL87 TO 09JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS		YOLK-SAC LARVAE			
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0
HYDE PARK	0	0	NS	0	0	0
KINGSTON	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	0	0	0
CATSKILL	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 14APR87 TO 18APR87 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	0	0	0
CATSKILL	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 20APR87 TO 26APR87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAN	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0
CORNWALL	103	35	5	0	0	10
	103	35	5	0	0	9834
POUGHKEEPSIE	213020	690915	NS	0	59447	0
	213020	476596	NS	0	59447	0
HYDE PARK	2996604	389207	NS	0	0	0
	1625374	143034	NS	0	0	0
KINGSTON	113123	318694	NS	0	0	0
	55290	197755	NS	0	0	0
SAUGERTIES	73066	35164	NS	0	0	0
	73066	22293	NS	0	0	0
CATSKILL	1704958	2849167	NS	0	0	0
	678806	1165648	NS	0	0	0
ALBANY	0	4910	NS	0	0	0
	0	4910	NS	0	0	0
TOTAL STANDING CROP	5204	4323	5	0	59	10
	1780	1283	5	0	59447	9834

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 27APR87 TO 01MAY87 - STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	95768	0	0
	0	0	0	43000	0	0
INDIAN POINT	0	0	0	277578	0	0
	0	0	0	106365	0	0
WEST POINT	157109	0	NS	397153	66020	
	70492	0		135571	26023	
CORNWALL	0	47140	0	110710	125647	0
	0	27512	0	67875	61616	0
POUGHKEEPSIE	1842146	1260681	NS	907457	510172	
	1105096	580127		186194	192770	
HYDE PARK	6680912	818851	NS	2656490	379314	
	3932265	273409		987663	103772	
KINGSTON	113598	1,321E7	NS	1838064	601732	
	78341	8039048		717998	43039	
SAUGERTIES	113941	598436	NS	438506	140836	
	113941	312974		285208	93191	
CATSKILL	317253	5296875	NS	3212155	514648	
	159157	4860133		719405	254579	
ALBANY	307002	449844	NS	1252831	283605	
	216150	328347		259882	177370	
TOTAL STANDING CROP	9531962	2,168E7	0	1,119E7	2621976	0
	4096351	9426824	0	1492730	399012	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 04MAY87 TO 08MAY87 - STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	21914	0	0	38976	22456	0
	21914	0	0	27014	22456	0
WEST POINT	0	15969	NS	177877	83851	0
	0	15969	NS	74676	32233	0
CORNWALL	3681	5294	22	461	1410	35
	1573	4091	10	282	273	11
POUGHKEEPSIE	486740	1724792	NS	1,337E7	3297784	0
	211614	642952	NS	4439118	692708	0
HYDE PARK	198494	9062524	NS	2,092E7	9558552	0
	144347	4050251	NS	4024977	1682884	0
KINGSTON	1,974E7	1,227E7	NS	3,041E7	4085021	0
	9318792	9851084	NS	7994953	1439502	0
SAUGERTIES	2376187	1,317E7	NS	3,695E7	2,006E7	0
	2202835	6331038	NS	1,225E7	1028718	0
CATSKILL	69606	1,15E7	NS	2,207E7	1,801E7	0
	69606	7222001	NS	6957937	1,084E7	0
ALBANY	21069	677056	NS	156752	30113	0
	21069	549699	NS	445536	30113	0
TOTAL STANDING CROP	26593	53727	22	125984	56565	35
	9708	14938	10	17279	11135	11

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 11MAY87 TO 16MAY87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	27736	0
INDIAN POINT	38704	0	0	36879	0	0
WEST POINT	49026	0	NS	172218	64317	0
CORNWALL	53	2439	209	401	862	121
POUGHKEEPSIE	661780	1.563E8	78	175	294	43
HYDE PARK	1.276E7	6.02E7	NS	8432230	435474	0
KINGSTON	3256154	2.142E7	NS	5311068	134301	0
SAUGERTIES	588256	1.818E7	NS	9.021E7	2.035E7	0
CATSKILL	628574	6677280	NS	2.091E7	3538952	0
ALBANY	628574	8460078	NS	6.31E7	6.002E7	0
TOTAL STANDING CROP	2907820	1.599E7	NS	1.527E7	1.841E7	0
	1686542	1.195E7	NS	4.526E7	3.546E7	0
	123233	665109	NS	1.824E7	5028352	0
	100062	359922	NS	1.222E7	4260263	0
	20484	262297	209	1535214	1336403	0
	7179	88741	78	4719377	318763	121
				990134	231332	43
				224547	121804	
				32166	19458	

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 18MAY87 TO 22MAY87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	98331	0
	0	0	0	0	98331	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	0	0	0	168528	0	0
	0	0	0	102265	0	0
WEST POINT	0	35804	NS	98206	141252	
	0	24474		76744	69156	
CORNWALL	0	593	72	5706	1322	269
	0	293	35	3099	340	113
POUGHKEEPSIE	175312	4.253E7	NS	7.043E7	1.8E7	
	70658	2.394E7		6934024	4086136	
HYDE PARK	364622	865103	NS	7.161E7	1.362E7	
	254636	319715		1.293E7	3024567	
KINGSTON	1.187E7	1.417E8	NS	3.007E7	1.531E7	
	5112036	4.231E7		4122547	1.15E7	
SAUGERTIES	965622	5.276E7	NS	1.031E7	2379831	
	965622	5.054E7		3577559	1276041	
CATSKILL	2979016	2.808E7	NS	6061787	613200	
	2839181	1.959E7		2291506	435172	
ALBANY	188447	50008	NS	1242232	156938	
	101114	33720		564371	78969	
TOTAL STANDING CROP	16539	266613	72	195698	51644	269
	5933	72814	35	16130	12647	113

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 26MAY87 TO 30MAY87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	49	0	0	0
	0	0	49	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON - HAVERSTRAW	0	0	0	0	19191	0
	0	0	0	0	19191	0
INDIAN POINT	0	586145	0	0	0	0
	0	586145	0	0	0	0
WEST POINT	69298	96953	NS	1699360	97148	
	69298	45598	NS	329142	76529	
CORNWALL	2222	17114	29	5844	5936	497
	2148	14107	24	3157	1435	236
POUGHKEEPSIE	2950482	1.146E8	NS	1.531E7	4291580	
	1989605	5.636E7	NS	2439448	1052952	
HYDE PARK	1597983	272511	NS	1.009E7	5001690	
	797066	96267	NS	1948261	1402913	
KINGSTON	7263528	4296664	NS	9234456	2105956	
	4355297	4086776	NS	1091606	817293	
SAUGERTIES	131089	8015644	NS	1.999E7	1.416E7	
	131089	4430602	NS	1.406E7	4813592	
CATSKILL	1.9E7	3.502E7	NS	7606342	2483980	
	1.475E7	1.646E7	NS	5346816	1548744	
ALBANY	836152	1144541	NS	1477736	296658	
	726274	639727	NS	477333	202396	
TOTAL STANDING CROP	34069	181114	78	71265	34397	497
	15694	60693	55	15730	5605	236

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 01JUN87 TO 04JUN87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS		YOLK-SAC LARVAE	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	182	0	0
WEST POINT	2368364	300594	1660932	790537
CORNWALL	1584056	139864	665566	450083
POUGHKEEPSIE	207934	2771789	3867832	467222
HYDE PARK	511737	1649922	473288	225213
KINGSTON	403746	118153	6612682	648017
SAUGERTIES	542635	1.99E7	1065476	292837
CATSKILL	196934	6358949	2732978	165205
ALBANY	511737	134745	510253	75169
TOTAL STANDING CROP	403746	118153	958683	0
	446848	290845	276312	0
	1.158E7	2527181	6527620	1586568
	8601901	1646982	2261044	941297
	1.972E7	546410	1.008E7	265335
	4942900	546410	1206758	157931
	1536784	3081175	5159294	674836
	1536784	2814367	2749973	589029
	36985	29969	37604	4598
	10184	7366	4034	1266
				165
				67

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 08JUN87 TO 12JUN87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	14942	0	0	0	32382
	0	14942	0	0	0	32382
INDIAN POINT	64169	75894	0	30705	0	7571
	64169	75894	0	30705	0	7571
WEST POINT	274297	233008	NS	23492	18711	
	167497	80350		23492	12287	
CORNWALL	247	6344	7	51	137	29
	152	3763	7	51	67	29
POUGHKEEPSIE	1,124E7	1619641	NS	218862	27571	
	6711988	656978		121286	27571	
HYDE PARK	902061	1,98E7	NS	102468	0	
	849156	1,486E7		67852	0	
KINGSTON	831005	2922149	NS	263528	0	
	490667	2283923		154607	0	
SAUGERTIES	1799925	112572	NS	1375269	385732	
	1799925	112572		655299	312909	
CATSKILL	1953021	2266935	NS	1116012	219593	
	1953021	2115700		1116012	168333	
ALBANY	0	189184	NS	2997252	627612	
	0	189184		961851	537603	
TOTAL STANDING CROP	17316	33580	7	6178	1416	69
	7288	15661	7	1627	649	44

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 15JUN87 TO 18JUN87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	33784	0	0
WEST POINT	153940 80239	38216 14514	NS	66757 49155	9955 9955	0
CORNWALL	79448 79448	335360 177644	0	81153 58857	97235 67313	0
POUGHKEEPSIE	0	277623 131600	NS	266608 187548	152103 119271	0
HYDE PARK	469768 239416	833010 436896	NS	599270 440410	64867 64867	0
KINGSTON	57899 57899	96101 66781	NS	447011 237813	0	0
SAUGERTIES	1253873 77747	64760 64760	NS	1398062 954189	161402 126013	0
CATSKILL	1044853 384097	1293188 1166884	NS	1328420 352684	1172044 817015	0
ALBANY	0	34238 19548	NS	2066705 1777218	742627 566728	0
TOTAL STANDING CROP	3059781 476443	2972496 1269102	0	6287771 2118036	2400233 1013725	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 22JUN87 TO 26JUN87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS		YOLK-SAC LARVAE			
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0		0	0	
TAPPAN ZEE	0	0	0	0	0	0
	0	0		0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0		0	0	
INDIAN POINT	30077	0	0	0	0	0
	30077	0		0	0	
WEST POINT	24692	0	NS	0	0	0
	24692	0		0	0	
CORNWALL	46106	0	0	26085	39647	0
	46106	0		26085	18233	0
POUGHKEEPSIE	56266	0	NS	436067	95514	
	56266	0		191541	50268	
HYDE PARK	0	598249	NS	0	0	
	0	420847		0	0	
KINGSTON	0	0	NS	170673	0	
	0	0		114192	0	
SAUGERTIES	0	27221	NS	0	0	
	0	27221		0	0	
CATSKILL	0	0	NS	0	0	
	0	0		0	0	
ALBANY	0	0	NS	164643	465385	
	0	0		108820	233648	
TOTAL STANDING CROP	157141	625470	0	797468	600547	0
	82498	421726	0	249500	239688	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 29JUN87 TO 02JUL87 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0		0	0	
TAPPAN ZEE	0	0	0	0	0	0
	0	0		0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0		0	0	
INDIAN POINT	0	0	0	0	0	0
	0	0		0	0	
WEST POINT	0	0	NS	23445	0	
	0	0		23445	0	
CORNWALL	0	162234	0	0	13083	0
	0	130963		0	13083	
POUGHKEEPSIE	0	131994	NS	0	35626	
	0	131994		0	35626	
HYDE PARK	0	0	NS	0	0	
	0	0		0	0	
KINGSTON	0	0	NS	0	0	
	0	0		0	0	
SAUGERTIES	0	0	NS	0	0	
	0	0		0	0	
CATSKILL	0	0	NS	0	0	
	0	0		0	0	
ALBANY	0	0	NS	436012	291914	
	0	0		436012	268436	
TOTAL STANDING CROP	0	294228	0	459457	340623	0
	0	185940	0	436642	271105	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH EGGS AND YOLK-SAC LARVAE FROM 06JUL87 TO 09JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0
HYDE PARK	0	0	NS	0	0	0
KINGSTON	0	32974	NS	0	0	0
SAUGERTIES	0	0	NS	0	0	0
CATSKILL	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0
TOTAL STANDING CROP	0	32974	0	0	0	0
	0	32974	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 14APR87 TO 18APR87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	0
	0	0		0	0	
SAUGERTIES	1370912	752430	NS	40037	36174	
	869210	358611		40037	36174	
CATSKILL	687881	1505765	NS	74063	0	
	313903	672671		36682	0	
ALBANY	412315	1192556	NS	0	0	
	129336	453264		0	0	
TOTAL STANDING CROP	2471109	3450751	0	114100	36174	0
	933160	886869	0	54300	36174	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 20APR87 TO 26APR87 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	17026
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	21768	0
CORNWALL	0	0	0	89927	67294	19790
POUGHKEEPSIE	0	102026	NS	3621338	230305	14346
HYDE PARK	1787918	186767	NS	856867	90345	56000
KINGSTON	0	14630	NS	37331	0	0
SAUGERTIES	140555	135154	NS	75250	0	0
CATSKILL	1.737E7	1.166E7	NS	41433	0	0
ALBANY	456825	3436820	NS	30399	0	0
TOTAL STANDING CROP	1.975E7	1.533E7	0	4722146	409712	36815
	6017276	4166620	0	3636875	173153	22264

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 27APR87 TO 01MAY87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	13956	0	0
WEST POINT	223357	0	NS	81857	0	0
CORNWALL	223357	0	0	280967	0	0
POUGHKEEPSIE	0	0	0	99324	0	0
HYDE PARK	163337	32471	NS	180292	196440	9044
KINGSTON	108898	21712	0	124853	70609	5603
SAUGERTIES	410247	0	NS	1676137	303761	0
CATSKILL	207733	0	NS	541498	101073	0
ALBANY	0	93230	NS	1255463	269664	0
TOTAL STANDING CROP	0	76055	0	439024	61925	0
	0	69324	NS	827311	640438	0
	0	541819	NS	579180	125915	0
	417014	7403475	NS	324565	290487	0
	179191	7305162	NS	324565	184916	0
	2406035	4082352	NS	1.987E7	2710364	0
	2284153	2718622	NS	1.512E7	2488491	0
	3619990	1.231E7	0	1.909E7	4012230	9044
	2313950	7813841	0	9153142	1363691	5603
				4.363E7	8423383	9044
				1.77E7	2849794	5603

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 04MAY87 TO 08MAY87 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAN	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	34408	32087	0
CORNWALL	0	7808	0	23970	32087	0
POUGHKEEPSIE	541718	201818	NS	0	87728	0
HYDE PARK	289716	129078	NS	0	71239	0
KINGSTON	302499	3212379	NS	874204	189792	0
SAUGERTIES	206784	2063083	NS	370678	90240	0
CATSKILL	1.152E8	1.108E7	NS	391540	282431	0
ALBANY	6.436E7	5007592	NS	170671	75154	0
TOTAL STANDING CROP	7692373	7.665E7	NS	783413	75794	0
	5666466	4.02E7	NS	354571	36664	0
	2403983	7.798E7	NS	3799829	1169465	0
	371674	5.498E7	NS	532547	164607	0
	451502	1.704E7	NS	9555941	1557349	0
	428626	1.425E7	NS	2785024	614668	0
	1.266E8	1.862E8	0	4656926	1008016	0
	6.461E7	6.979E7	0	3.64E7	4402662	0
				5479028	893463	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 11MAY87 TO 16MAY87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	12690	0
WEST POINT	0	0	NS	0	0	0
CORNWALL	0	0	0	0	8678	5378
POUGHKEEPSIE	0	33861	NS	65216	20028	20028
HYDE PARK	890883	9029428	NS	1.368E7	6423664	1753263
KINGSTON	454800	3.869E7	NS	7673761	1.046E7	5029213
SAUGERTIES	1257904	1.155E7	NS	3.685E7	2.333E7	9196597
CATSKILL	3167113	4.302E7	NS	1.625E7	4621580	1811882
ALBANY	2120788	5555468	NS	1.428E8	250861	122854
TOTAL STANDING CROP	7891488	1.079E8	0	2.173E8	4.513E7	5378
	2255148	4.248E7	0	5.519E7	1.078E7	5378

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 18MAY87 TO 22MAY87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	0	0	0	34744	0	0
	0	0	0	34744	0	0
WEST POINT	0	0	NS	0	0	0
	0	0	0	0	0	0
CORNWALL	0	0	0	0	51520	4592
	0	0	0	0	20583	4592
POUGHKEEPSIE	144381	1332514	NS	700873	432187	
	99812	743724	NS	224433	174098	
HYDE PARK	385296	451260	NS	2133232	1328220	
	251933	339819	NS	763420	448180	
KINGSTON	5252655	1.402E8	NS	4113388	1932311	
	3556516	4.854E7	NS	1084963	1287329	
SAUGERTIES	137946	759092	NS	2040375	401096	
	137946	517390	NS	1274977	222912	
CATSKILL	2686048	2.096E7	NS	2.188E7	1466963	
	2686048	1.447E7	NS	9464177	825577	
ALBANY	1721385	1431910	NS	6701854	457827	
	480096	861208	NS	1523137	265074	
TOTAL STANDING CROP	1.033E7	1.652E8	0	3.76E7	6070123	4592
	4492951	5.067E7	0	9763590	1640228	4592



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 26MAY87 TO 30MAY87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS		YOLK-SAC LARVAE	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	51208	0	153624
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	54	12
POUGHKEEPSIE	113348	22952	4273076	803338
HYDE PARK	36840	54052	2490554	872204
KINGSTON	517281	22784	3477051	148209
SAUGERTIES	131089	3566171	7997930	1563766
CATSKILL	1.248E7	2.23E7	3578161	294340
ALBANY	9887674	1983390	5.1E7	1788728
TOTAL STANDING CROP	23166	28005	72874	5636
	12651	11581	48865	1090

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 01JUN87 TO 04JUN87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	32431	0	0
WEST POINT	0	0	NS	32431	0	0
CORNWALL	0	0	0	0	10728	0
POUGHKEEPSIE	38013	400202	NS	3153556	307820	
	38013	321096		918218	177517	
HYDE PARK	71154	0	NS	762470	15183	
	71154	0		380081	15183	
KINGSTON	56845	0	NS	557105	125958	
	56845	0		491717	125958	
SAUGERTIES	883242	188488	NS	2374957	0	
	883242	120978		819529	0	
CATSKILL	3651540	109282	NS	995013	212482	
	712489	109282		245317	106372	
ALBANY	301930	1-473E7	NS	3-542E7	559606	
	245008	1-214E7		3-356E7	292261	
TOTAL STANDING CROP	5002723	1-543E7	0	4-329E7	1231778	0
	1165129	1-214E7	0	3-359E7	380072	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 08JUN87 TO 12JUN87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	437239 265623	0	NS	54969 54969	23348 23348	0
HYDE PARK	0	0	NS	0	0	0
KINGSTON	0	152144 152144	NS	0	0	0
SAUGERTIES	0	0	NS	406114 406114	0	0
CATSKILL	0	623779 623779	NS	283432 283432	0	0
ALBANY	0	0	NS	574544 574544	0	0
TOTAL STANDING CROP	437239 265623	775923 642065	0	1319059 760516	23348 23348	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 15JUN87 TO 18JUN87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0
HYDE PARK	0	0	NS	0	0	0
KINGSTON	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	196021	0	0
CATSKILL	209391	0	NS	500517	31750	0
ALBANY	0	0	NS	355240	31750	0
TOTAL STANDING CROP	209391	0	0	6047674	46679	0
	209391	0	0	4313144	46679	0
				6744212	78429	0
				4332186	56454	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 22JUN87 TO 26JUN87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0
HYDE PARK	0	0	NS	0	0	0
KINGSTON	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	0	0	0
CATSKILL	0	0	NS	0	0	0
ALBANY	0	0	NS	82369	0	0
				41185	0	0
TOTAL STANDING CROP	0	0	0	82369	0	0
				41185	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 29JUN87 TO 02JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS		YOLK-SAC LARVAE	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	0
HYDE PARK	0	NS	0	0
KINGSTON	0	NS	0	0
SAUGERTIES	0	NS	0	0
CATSKILL	0	NS	0	0
ALBANY	0	NS	1703577	15888
TOTAL STANDING CROP	0	0	14664333	15888

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA EGGS AND YOLK-SAC LARVAE FROM 06JUL87 TO 09JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	EGGS			YOLK-SAC LARVAE		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0
HYDE PARK	0	0	NS	0	0	0
KINGSTON	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	0	0	0
CATSKILL	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0
TOTAL STANDING CROP	0	0	0	0	0	0

J.3.2 Post Yolk-sac Larvae and Young-of-Year

Striped bass  
White perch  
Atlantic tomcod  
American shad  
Alosa spp.  
Blueback herring  
Alewife  
Bay anchovy  
Weakfish  
White catfish  
Spottail shiner  
Atlantic sturgeon  
Shortnose sturgeon



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 14APR87 TO 18APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	NS
	0	0	0	0	0	0
SAUGERTIES	0	0	NS	0	0	NS
	0	0	0	0	0	0
CATSKILL	0	0	NS	0	0	NS
	0	0	0	0	0	0
ALBANY	0	0	NS	0	0	NS
	0	0	0	0	0	0
TOTAL STANDING CROP	0	0	0	0	0	0
	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 20APR87 TO 26APR87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	NS
TAPPAN ZEE	0	NS	0	0	NS	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27APR87 TO 01MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 04MAY87 TO 08MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	30	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	30	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 11MAY87 TO 16MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	58	36	0	0
POUGHKEEPSIE	572	97	0	0
HYDE PARK	343	35	0	0
KINGSTON	288	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	173	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	1433	168	0	0
	472	79	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 18MAY87 TO 22MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	65	0	0	0
INDIAN POINT	139	53	26	0	0	0
WEST POINT	118	96	NS	0	0	NS
CORNWALL	4498	1368	314	0	0	0
POUGHKEEPSIE	12765	1391	NS	0	0	NS
HYDE PARK	3275	583	NS	0	0	NS
KINGSTON	1758	78	NS	0	0	NS
SAUGERTIES	264	189	NS	0	0	NS
CATSKILL	106	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	22923	3756	404	0	0	0
	3498	551	208	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 26MAY87 TO 30MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
	0	0	0	0
TAPPAN ZEE	360	0	242	0
	247	0	122	0
CROTON-HAVERSTRAW	2837	975	300	0
	1462	550	164	0
INDIAN POINT	13953	1930	314	0
	2682	374	169	0
WEST POINT	88461	35187	NS	NS
	15042	20593	0	0
CORNWALL	172130	6774	8500	0
	72779	1544	3057	0
POUGHKEEPSIE	319044	56989	NS	NS
	45570	20910	0	0
HYDE PARK	70676	14308	NS	NS
	12253	1453	0	0
KINGSTON	13887	2756	NS	NS
	3043	521	0	0
SAUGERTIES	1966	587	NS	NS
	830	94	0	0
CATSKILL	381	248	NS	NS
	381	125	0	0
ALBANY	0	0	NS	NS
	0	0	0	0
TOTAL STANDING CROP	683695	119753	9356	0
	88143	29437	3068	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 01JUN87 TO 04JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	82	0	0	0	0
	0	47	0	0	0	0
CROTON-HAVERSTRAW	4274	192	3134	0	0	0
	2420	89	1070	0	0	0
INDIAN POINT	107521	59280	3229	0	0	0
	30678	24767	996	0	0	0
WEST POINT	222031	43258	NS	0	0	NS
	25301	4733		0	0	
CORNWALL	228635	49867	15917	0	0	0
	31307	8742	1798	0	0	0
POUGHKEEPSIE	614971	53015	NS	0	0	NS
	78399	12098		0	0	
HYDE PARK	145906	4228	NS	0	0	NS
	37639	945		0	0	
KINGSTON	32082	1357	NS	0	0	NS
	18785	842		0	0	
SAUGERTIES	3790	2648	NS	0	0	NS
	928	1900		0	0	
CATSKILL	0	413	NS	0	0	NS
	0	49		0	0	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	1359209	214340	22280	0	0	0
	102392	29391	2317	0	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 08JUN87 TO 12JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	365	405	0	0
	134	269	0	0
CROTON-HAVERSTRAW	654	1491	0	0
	249	275	0	0
INDIAN POINT	23483	2280	0	0
	7599	790	0	0
WEST POINT	209919	NS	0	NS
	30763	7042	0	0
CORNWALL	91787	28214	0	0
	15251	7087	0	0
POUGHKEEPSIE	138869	36181	0	NS
	20058	9590	0	0
HYDE PARK	52667	7813	0	NS
	6783	2135	0	0
KINGSTON	7211	6666	0	NS
	2839	3784	0	0
SAUGERTIES	2926	1678	0	NS
	2114	632	0	0
CATSKILL	385	392	0	NS
	249	192	0	0
ALBANY	77	0	0	NS
	77	0	0	0
TOTAL STANDING CROP	528343	114704	0	0
	41204	14715	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 15JUN87 TO 18JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	SHOAL
YONKERS	252 189	0 0	0 0	0 0
TAPPAN ZEE	7302 6161	2592 1530	0 0	0 0
CROTON-HAVERSTRAW	10706 4949	2092 697	0 0	0 0
INDIAN POINT	15240 2345	15248 8127	0 0	0 0
WEST POINT	34740 4519	15696 3701	0 0	NS
CORNWALL	21967 6713	10027 2416	0 0	0 0
POUGHKEEPSIE	24154 5595	3613 742	0 0	NS
HYDE PARK	7376 1594	2091 682	0 0	NS
KINGSTON	5519 2071	2449 757	0 0	NS
SAUGERTIES	4050 1831	2240 902	0 0	NS
CATSKILL	99 99	186 43	0 0	NS
ALBANY	0 0	23 23	0 0	NS
TOTAL STANDING CROP	131404 13227	56258 9530	0 0	0 0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 22JUN87 TO 26JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	155	54	0	0	0	0
	105	38		0	0	
TAPPAN ZEE	1372	1365	20632	0	0	108
	690	543	13675	0	0	108
CROTON-HAVERSTRAW	6372	2564	2970	0	0	0
	1161	903	879	0	0	0
INDIAN POINT	17893	4074	4609	0	0	0
	4950	2030	2839	0	0	0
WEST POINT	14210	3252	NS	0	0	NS
	1946	1124		0	0	
CORNWALL	15922	11244	1441	0	0	0
	2742	1473	249	0	0	0
POUGHKEEPSIE	52573	14850	NS	0	0	NS
	7796	4225		0	0	
HYDE PARK	11560	1702	NS	0	0	NS
	3751	521		0	0	
KINGSTON	4313	2968	NS	0	0	NS
	1398	359		0	0	
SAUGERTIES	8944	1055	NS	0	0	NS
	5447	325		0	0	
CATSKILL	716	4588	NS	0	0	NS
	409	822		0	0	
ALBANY	239	25	NS	0	0	NS
	135	25		0	0	
TOTAL STANDING CROP	134268	47740	29652	0	0	108
	12013	5263	13996	0	0	108

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29JUN87 TO 02JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	57	0	0	0	0	0
	57	0	0	0	0	0
TAPPAN ZEE	64	62	487	69	0	0
	64	38	487	69	0	0
CROTON-HAVERSTRAW	909	479	2355	0	586	173
	220	188	1176	0	305	173
INDIAN POINT	3151	399	242	61	0	7
	1215	150	41	42	0	7
WEST POINT	8660	2069	NS	20	0	NS
	969	244		20	0	
CORNWALL	8526	13544	1041	26	36	107
	1576	4080	224	26	27	71
POUGHKEEPSIE	10930	3443	NS	107	0	NS
	2616	876		73	0	
HYDE PARK	2719	822	NS	0	43	NS
	451	699		0	26	
KINGSTON	789	937	NS	170	0	NS
	361	402		170	0	
SAUGERTIES	1935	755	NS	0	72	NS
	24	564		0	42	
CATSKILL	383	994	NS	0	893	NS
	383	720		0	540	
ALBANY	0	32	NS	0	0	NS
	0	32		0	0	
TOTAL STANDING CROP	38123	23537	4125	452	1631	287
	3504	4361	1293	204	622	187

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR STRIPED BASS  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 06JUL87 TO 09JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	100	104
	0	0		0	100	
TAPPAN ZEE	71	121	1186	73	4952	0
	71	81	995	73	2132	0
CROTON-HAVERSTRAW	198	39	85	0	409	194
	129	25	49	0	114	144
INDIAN POINT	421	828	361	190	269	272
	219	796	89	89	195	203
WEST POINT	1174	77	NS	316	50	NS
	238	43		138	50	
CORNWALL	5885	903	478	108	115	379
	2616	296	321	84	68	222
POUGHKEEPSIE	4245	152	NS	51	0	NS
	3250	61		51	0	
HYDE PARK	351	201	NS	407	19	NS
	169	79		360	19	
KINGSTON	55	150	NS	0	196	NS
	55	88		0	196	
SAUGERTIES	0	87	NS	209	244	NS
	0	87		209	144	
CATSKILL	0	49	NS	0	3002	NS
	0	49		0	1382	
ALBANY	0	0	NS	0	135	NS
	0	0		0	68	
TOTAL STANDING CROP	12399	2607	2110	1354	9491	949
	4191	871	1050	464	2566	334

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 14APR87 TO 18APR87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 20APR87 TO 26APR87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	NS
TAPPAN ZEE	0	NS	0	0	NS	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	20	0	0	0
	0	0	20	0	0	0
INDIAN POINT	0	0	0	0	0	0
	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
	0	0	0	0	0	0
CORNWALL	0	0	0	0	0	0
	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
	0	0	0	0	0	0
HYDE PARK	0	0	NS	0	0	NS
	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	NS
	0	0	0	0	0	0
SAUGERTIES	32	0	NS	0	0	NS
	32	0	0	0	0	0
CATSKILL	0	0	NS	0	0	NS
	0	0	0	0	0	0
ALBANY	0	0	NS	0	0	NS
	0	0	0	0	0	0
TOTAL STANDING CROP	32	0	20	0	0	0
	32	0	20	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27APR87 TO 01MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	16	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	16	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 04MAY87 TO 08MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	27	0	0
INDIAN POINT	267	0	0	0
WEST POINT	163	16	0	0
CORNWALL	1179	689	0	0
POUGHKEEPSIE	2795	778	0	0
HYDE PARK	2482	502	0	0
KINGSTON	1449	494	0	0
SAUGERTIES	1502	1694	0	0
CATSKILL	1534	3632	0	0
ALBANY	0	7	0	0
TOTAL STANDING CROP	11371	7839	0	0
	1084	2556	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 1MAY87 TO 16MAY87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	107	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	22	0	0	0
WEST POINT	99	126	0	NS
CORNWALL	1952	1213	0	0
POUGHKEEPSIE	13533	1771	0	NS
HYDE PARK	30084	4189	0	NS
KINGSTON	17685	19512	0	NS
SAUGERTIES	58966	5655	0	NS
CATSKILL	5877	3640	0	NS
ALBANY	19	8	0	NS
TOTAL STANDING CROP	128238	36113	0	0
	16470	11675	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 18MAY87 TO 22MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	98	109	0	0	0
	0	98	109	0	0	0
CROTON-HAVERSTRAW	98	0	0	0	0	0
	98	0	0	0	0	0
INDIAN POINT	289	17	12	0	0	0
	90	17	12	0	0	0
WEST POINT	370	858	NS	0	0	NS
	127	599		0	0	
CORNWALL	49649	7515	1319	0	0	0
	30824	1466	339	0	0	0
POUGHKEEPSIE	210600	30872	NS	0	0	NS
	19983	6262		0	0	
HYDE PARK	280900	73255	NS	0	0	NS
	30971	12430		0	0	
KINGSTON	181034	106748	NS	0	0	NS
	23800	18510		0	0	
SAUGERTIES	168937	19543	NS	0	0	NS
	49404	5505		0	0	
CATSKILL	9005	9127	NS	0	0	NS
	2358	2534		0	0	
ALBANY	5048	977	NS	0	0	NS
	2525	888		0	0	
TOTAL STANDING CROP	905931	249009	1440	0	0	0
	72991	24008	357	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 26MAY87 TO 30MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	114	0	0	0
	0	0	114	0	0	0
CROTON-HAVERSTRAW	41	186	97	0	0	0
	41	92	40	0	0	0
INDIAN POINT	2071	169	36	0	0	0
	507	43	36	0	0	0
WEST POINT	15924	2931	NS	0	0	NS
	2055	659		0	0	
CORNWALL	38993	14853	3503	0	0	0
	15025	4171	1075	0	0	0
POUGHKEEPSIE	604768	58489	NS	0	0	NS
	71926	12190		0	0	
HYDE PARK	223290	45563	NS	0	0	NS
	36579	3948		0	0	
KINGSTON	259435	55268	NS	0	0	NS
	67724	14085		0	0	
SAUGERTIES	150576	52235	NS	0	0	NS
	51517	8939		0	0	
CATSKILL	50570	17959	NS	0	0	NS
	48035	8342		0	0	
ALBANY	620	274	NS	0	0	NS
	461	206		0	0	
TOTAL STANDING CROP	1346288	247926	3750	0	0	0
	127631	23021	1083	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 01JUN87 TO 04JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	57	0	0	0
	0	0	57	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	83	0	0	0	0	0
	48	0	0	0	0	0
INDIAN POINT	1262	4557	177	0	0	0
	3138	1926	48	0	0	0
WEST POINT	101526	9500	NS	0	0	NS
	14291	1099		0	0	
CORNWALL	77497	29231	14215	0	0	0
	11060	7223	1172	0	0	0
POUGHKEEPSIE	364656	49842	NS	0	0	NS
	48633	12760		0	0	
HYDE PARK	647844	26771	NS	0	0	NS
	133080	5786		0	0	
KINGSTON	149003	14875	NS	0	0	NS
	70799	3356		0	0	
SAUGERTIES	240322	61389	NS	0	0	NS
	52312	17535		0	0	
CATSKILL	45330	26633	NS	0	0	NS
	8508	5505		0	0	
ALBANY	2150	809	NS	0	0	NS
	1798	789		0	0	
TOTAL STANDING CROP	1641064	223606	14449	0	0	0
	168037	24557	1174	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 08JUN87 TO 12JUN87 - STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	87	16	135	0
	60	16	92	0
INDIAN POINT	1662	967	105	0
	802	866	59	0
WEST POINT	25152	5849	NS	NS
	3611	1046		
CORNWALL	72741	24991	2188	0
	13910	4516	1528	0
POUGHKEEPSIE	388404	56937	NS	NS
	40588	13119		
HYDE PARK	238887	66512	NS	NS
	24027	21261		
KINGSTON	69723	98662	NS	NS
	24964	39518		
SAUGERTIES	188095	104845	NS	NS
	24302	14037		
CATSKILL	96733	68785	NS	NS
	42552	26371		
ALBANY	12776	6490	NS	NS
	7046	6380		
TOTAL STANDING CROP	1094259	434053	2429	0
	74202	56047	1532	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 15JUN87 TO 18JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR		NS
	CHANNEL	BOTTOM	CHANNEL	BOTTOM	
YONKERS	0	100	0	0	0
	0	66	0	0	0
TAPPAN ZEE	0	5066	525	0	0
	0	5023	525	0	0
CROTON-HAVERSTRAW	1571	751	7768	0	0
	1371	229	4957	0	0
INDIAN POINT	9944	2991	4088	0	0
	1033	1216	2688	0	0
WEST POINT	55976	14873	NS	0	NS
	7708	3441		0	
CORNWALL	74656	26758	822	0	0
	15175	3980	65	0	0
POUGHKEEPSIE	76206	17931	NS	0	NS
	11207	5519		0	
HYDE PARK	108724	32960	NS	0	NS
	28546	5786		0	
KINGSTON	85982	54353	NS	0	NS
	20991	7514		0	
SAUGERTIES	129124	47893	NS	0	NS
	31114	14060		0	
CATSKILL	66904	62354	NS	0	NS
	17302	28367		0	
ALBANY	0	3995	NS	0	NS
	0	3995		0	
TOTAL STANDING CROP	609086	270026	13203	0	0
	54232	34542	5664	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 22JUN87 TO 26JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	31	0	0	0	0
	0	31		0	0	
TAPPAN ZEE	0	0	120	0	0	0
	0	0	120	0	0	0
CROTON-HAVERSTRAW	327	32	72	0	0	0
	126	20	72	0	0	0
INDIAN POINT	17134	2137	1192	0	0	0
	6300	1200	439	0	0	0
WEST POINT	17249	6806	NS	0	0	NS
	2069	2343		0	0	
CORNWALL	10714	13726	1215	0	0	0
	1745	1899	280	0	0	0
POUGHKEEPSIE	96789	21222	NS	0	0	NS
	21690	3709		0	0	
HYDE PARK	118980	12480	NS	0	16	NS
	42658	3512		0	16	
KINGSTON	97216	34033	NS	0	0	NS
	22652	8126		0	0	
SAUGERTIES	120180	38985	NS	0	0	NS
	56788	8933		0	0	
CATSKILL	55199	155911	NS	0	0	NS
	19084	32258		0	0	
ALBANY	49132	1081	NS	0	0	NS
	24302	857		0	0	
TOTAL STANDING CROP	582920	286444	2599	0	16	0
	83846	34982	539	0	16	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29JUN87 TO 02JUL87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	128	0	0	0	0	0
TAPPAN ZEE	128	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	734	128	1014	0	0	43
	350	57	873	0	0	43
INDIAN POINT	3379	840	376	0	0	0
	358	215	143	0	0	0
WEST POINT	22678	4324	NS	21	0	NS
	2443	779		21	0	
CORNWALL	21928	28867	1787	0	0	0
	2704	2484	216	0	0	0
POUGHKEEPSIE	38383	20686	NS	0	0	NS
	5284	6636		0	0	
HYDE PARK	34524	6342	NS	53	0	NS
	3895	2556		53	0	
KINGSTON	15007	17234	NS	0	0	NS
	6044	1645		0	0	
SAUGERTIES	34869	27243	NS	0	0	NS
	3133	8928		0	0	
CATSKILL	42597	4288	NS	0	45	NS
	7650	1841		0	45	
ALBANY	291	211	NS	0	16	NS
	291	211		0	16	
TOTAL STANDING CROP	214518	110164	3177	75	61	43
	12712	11969	910	57	47	43

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE PERCH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 06JUL87 TO 09JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	34	0	0	0
INDIAN POINT	846	463	0	26
WEST POINT	4554	1404	24	0
CORNWALL	5746	3108	25	18
POUGHKEEPSIE	11971	2248	0	31
HYDE PARK	5156	2424	105	42
KINGSTON	3771	12179	106	160
SAUGERTIES	2961	6619	0	0
CATSKILL	5355	4244	0	0
ALBANY	0	65	0	0
TOTAL STANDING CROP	40392	32753	260	277
	4210	6417	103	69

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC IOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 14APR87 TO 18APR87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	199173	170149	3101	0	0	0
	46463	31359	1693	0	0	0
TAPPAN ZEE	91841	12608	25122	0	0	0
	38838	6444	15896	0	0	0
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	291013	182757	28223	0	0	0
	60558	32014	15986	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 20APR87 TO 26APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	20205	6182	2829	22450
		NS		NS
TAPPAN ZEE	32024	NS	5069	NS
	9951	8166	1051	2264
		3417		1306
CROTON-HAVERSTRAW	1006	0	1152	0
	582	0	456	0
		441		1044
		250		602
INDIAN POINT	0	0	0	0
	0	0	0	0
WEST POINT	0	0	0	0
	0	NS	0	NS
CORNWALL	0	0	0	0
	0	0	0	0
POUGHKEEPSIE	0	0	0	0
	0	NS	0	NS
HYDE PARK	0	0	0	0
	0	NS	0	NS
KINGSTON	0	0	0	0
	0	NS	0	NS
SAUGERTIES	0	0	0	0
	0	NS	0	NS
CATSKILL	0	0	0	0
	0	NS	0	NS
ALBANY	0	0	0	0
	0	NS	0	NS
TOTAL STANDING CROP	53235	6182	9049	22450
	9968	0	1146	0
		8607		3308
		3426		1438

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27APR87 TO 01MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	174370 72849	145934 42420	49692 29544	916 468	161 161	24237 24196
TAPPAN ZEE	15616 7989	5352 1567	29426 8320	153 153	1064 261	10399 2476
CROTON-HAVERSTRAW	6119 2518	7552 2642	45083 12642	2529 816	783 411	599 259
INDIAN POINT	21019 10880	2357 1333	459 253	4376 2248	1299 767	644 192
WEST POINT	3221 1044	67 27	NS	693 285	67 29	NS
CORNWALL	119 74	62 40	24 15	759 312	87 63	40 29
POUGHKEEPSIE	71 71	31 31	NS	373 229	47 47	NS
HYDE PARK	0 0	0 0	NS	0 0	9 9	NS
KINGSTON	0 0	0 0	NS	0 0	0 0	NS
SAUGERTIES	0 0	0 0	NS	0 0	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	0 0	NS
ALBANY	20 20	0 0	NS	20 20	0 0	NS
TOTAL STANDING CROP	220555 73943	161356 42552	124685 33196	9819 2488	3517 927	35919 24324

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 04MAY87 TO 08MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	379 379	0 0	27 27	51047 36189	8583 2086	1545 668
TAPPAN ZEE	437 245	253 110	0 0	25045 21950	14620 7662	40965 20483
CROTON-HAVERSTRAW	0 0	0 0	26 26	3223 1284	1158 155	5303 1632
INDIAN POINT	138 62	64 64	0 0	40477 10131	10880 7765	337 108
WEST POINT	0 0	0 0	NS	1049 260	469 101	NS
CORNWALL	0 0	0 0	0 0	99 99	67 26	46 24
POUGHKEEPSIE	0 0	0 0	NS	219 156	113 80	NS
HYDE PARK	0 0	0 0	NS	65 44	147 46	NS
KINGSTON	0 0	0 0	NS	80 52	30 30	NS
SAUGERTIES	0 0	0 0	NS	0 0	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	0 0	NS
ALBANY	0 0	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	954 455	317 127	53 38	121304 43540	36067 11108	48196 20559

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 11MAY87 TO 16MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	824 824	59 59	0 0	102330 54142	38523 13490	25496 13601
TAPPAN ZEE	0 0	0 0	0 0	405 405	4839 2829	1157 589
CROTON-HAVERSTRAM	0 0	0 0	29 29	506 323	7313 4164	801 255
INDIAN POINT	40 28	0 0	8 8	30057 12833	30228 24502	275 101
WEST POINT	33 23	0 0	NS	12433 1757	4959 1582	NS
CORNWALL	0 0	8 8	5 5	3036 1593	5985 1453	1740 1205
POUGHKEEPSIE	0 0	0 0	NS	31702 14997	32110 7625	NS
HYDE PARK	0 0	0 0	NS	436 157	1202 552	NS
KINGSTON	0 0	0 0	NS	506 159	941 401	NS
SAUGERTIES	0 0	0 0	NS	0 0	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	110 67	NS
ALBANY	0 0	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	897 825	67 60	42 31	181412 57680	126210 29511	29469 13669

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 18MAY87 TO 22MAY87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	171 171	0 0	0 0	169487 67149	9043 394	10435 5645
TAPPAN ZEE	0 0	0 0	120 120	9363 1383	22179 8310	21988 11341
CROTON-HAVERSTRAW	47 47	0 0	0 0	747 431	7369 2550	1484 1086
INDIAN POINT	0 0	0 0	0 0	6817 2104	7635 2236	1239 994
WEST POINT	0 0	0 0	NS	4419 581	4494 1783	NS
CORNWALL	58 58	304 304	0 0	1916 1193	3612 994	231 137
POUGHKEEPSIE	0 0	26 18	NS	2465 779	11249 3818	NS
HYDE PARK	0 0	0 0	NS	2855 1193	579 254	NS
KINGSTON	0 0	0 0	NS	213 160	1138 234	NS
SAUGERTIES	0 0	0 0	NS	0 0	141 69	NS
CATSKILL	0 0	0 0	NS	0 0	74 74	NS
ALBANY	0 0	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	276 186	330 305	120 120	198281 67226	67513 9980	35376 12754



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 26MAY87 TO 30MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	1499	37566	11352
	0	0	0	927	23771	8480
TAPPAN ZEE	0	0	0	197	10888	2537
	0	0	0	113	1936	1403
CROTON-HAVERSTRAM	0	0	0	0	1685	287
	0	0	0	0	778	211
INDIAN POINT	0	0	0	4567	3723	1041
	0	0	0	1727	1265	969
WEST POINT	47	0	NS	4820	4319	NS
	47	0		1175	1481	
CORNWALL	0	0	0	108	3544	168
	0	0	0	108	798	99
POUGHKEEPSIE	0	0	NS	1953	7547	NS
	0	0		917	1748	
HYDE PARK	0	0	NS	522	394	NS
	0	0		211	118	
KINGSTON	0	0	NS	166	136	NS
	0	0		112	86	
SAUGERTIES	0	0	NS	0	408	NS
	0	0		0	276	
CATSKILL	0	0	NS	0	77	NS
	0	0		0	77	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	47	0	0	13831	70285	15385
	47	0	0	2479	24021	8653

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 01JUN87 TO 04JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	198	68155	5020
	0	0	0	198	20298	2521
TAPPAN ZEE	0	0	0	526	10623	3741
	0	0	0	526	1197	2423
CROTON-HAVERSTRAW	0	0	0	0	2740	54
	0	0	0	0	990	54
INDIAN POINT	0	0	0	2788	7918	87
	0	0	0	1642	1741	87
WEST POINT	0	0	NS	8538	7353	NS
	0	0		2813	2021	
CORNWALL	0	0	0	1032	2351	76
	0	0	0	860	612	76
POUGHKEEPSIE	0	0	NS	37	5124	NS
	0	0		37	1073	
HYDE PARK	0	0	NS	142	641	NS
	0	0		142	210	
KINGSTON	0	0	NS	284	634	NS
	0	0		284	304	
SAUGERTIES	0	0	NS	132	77	NS
	0	0		132	53	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	0	0	0	13679	105617	8978
	0	0	0	3433	20572	3499

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 08JUN87 TO 12JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	1770	5498	5809
	0	0		1077	2096	
TAPPAN ZEE	0	0	0	2448	6385	1545
	0	0		2448	2716	1545
CROTON-HAVERSTRAW	0	0	0	28	1146	0
	0	0		28	347	0
INDIAN POINT	0	0	0	977	2860	114
	0	0		344	2265	106
WEST POINT	0	0	NS	9329	6818	NS
	0	0		1796	3134	
CORNWALL	0	0	0	52	782	0
	0	0		35	274	0
POUGHKEEPSIE	0	0	NS	1936	2295	NS
	0	0		883	713	
HYDE PARK	0	0	NS	1216	3032	NS
	0	0		486	643	
KINGSTON	0	0	NS	0	462	NS
	0	0		0	197	
SAUGERTIES	0	0	NS	0	29	NS
	0	0		0	29	
CATSKILL	0	0	NS	0	106	NS
	0	0		0	63	
ALBANY	0	0	NS	0	12	NS
	0	0		0	12	
TOTAL STANDING CROP	0	0	0	17756	29404	7467
	0	0	0	3393	5280	1549

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC IOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 15JUN87 TO 18JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	818	8703	2389
	0	0		376	1163	
TAPPAN ZEE	0	0	0	0	2152	1313
	0	0		0	1819	1313
CROTON-HAVERSTRAW	0	0	0	0	2980	0
	0	0		0	785	0
INDIAN POINT	0	0	0	2096	4143	0
	0	0		1078	1971	0
WEST POINT	0	0	NS	5391	7379	NS
	0	0		1526	1506	
CORNWALL	0	0	0	79	1045	51
	0	0		79	308	32
POUGHKEEPSIE	0	0	NS	528	1569	NS
	0	0		317	523	
HYDE PARK	0	0	NS	0	299	NS
	0	0		0	122	
KINGSTON	0	0	NS	112	807	NS
	0	0		112	242	
SAUGERTIES	0	0	NS	0	185	NS
	0	0		0	62	
CATSKILL	0	0	NS	0	1207	NS
	0	0		0	1207	
ALBANY	0	0	NS	39	0	NS
	0	0		39	0	
TOTAL STANDING CROP	0	0	0	9063	30469	3754
	0	0		1937	3651	1313

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 22JUN87 TO 26JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	451	16822	3400
	0	0		297	5552	
TAPPAN ZEE	0	0	0	169	3192	137
	0	0		108	951	137
CROTON-HAVERSTRAW	0	0	0	0	1381	84
	0	0		0	356	49
INDIAN POINT	0	0	0	311	3170	75
	0	0		128	1700	49
WEST POINT	0	0	NS	1547	9165	NS
	0	0		346	2580	
CORNWALL	0	0	0	504	2055	21
	0	0		216	1076	13
POUGHKEEPSIE	0	0	NS	838	1800	NS
	0	0		390	663	
HYDE PARK	0	0	NS	0	324	NS
	0	0		0	41	
KINGSTON	0	0	NS	173	186	NS
	0	0		173	101	
SAUGERTIES	0	0	NS	0	57	NS
	0	0		0	33	
CATSKILL	0	0	NS	0	36	NS
	0	0		0	36	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	0	0	0	3993	38188	3718
	0	0	0	682	6558	155

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29 JUN 87 TO 02 JUL 87 - STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	311	960	81
	0	0		255	323	
TAPPAN ZEE	0	0	0	403	35	0
	0	0		219	35	0
CROTON-HAVERSTRAM	0	0	0	0	593	0
	0	0		0	331	0
INDIAN POINT	0	0	0	868	55	0
	0	0		838	38	0
WEST POINT	0	0	NS	3167	1179	NS
	0	0		722	657	
CORNWALL	0	0	0	25	3506	79
	0	0		25	1338	40
POUGHKEEPSIE	0	0	NS	54	1769	NS
	0	0		54	446	
HYDE PARK	0	0	NS	49	600	NS
	0	0		49	242	
KINGSTON	0	0	NS	0	38	NS
	0	0		0	38	
SAUGERTIES	0	0	NS	0	210	NS
	0	0		0	165	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	0	0	0	4877	8945	160
	0	0	0	1158	1651	40

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC TOMCOD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 06JUL87 TO 09JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	139	2771	730
	0	0		139	738	
TAPPAN ZEE	0	0	0	73	83	0
	0	0		73	51	0
CROTON-HAVERSTRAW	0	0	0	0	37	0
	0	0		0	37	0
INDIAN POINT	0	0	0	951	1815	8
	0	0		569	830	8
WEST POINT	0	0	NS	6950	8141	NS
	0	0		1582	2749	
CORNWALL	0	0	0	51	2388	379
	0	0		51	1053	215
POUGHKEEPSIE	0	0	NS	0	368	NS
	0	0		0	151	
HYDE PARK	0	0	NS	606	509	NS
	0	0		443	173	
KINGSTON	0	0	NS	47	320	NS
	0	0		47	251	
SAUGERTIES	0	0	NS	0	68	NS
	0	0		0	68	
CATSKILL	0	0	NS	0	146	NS
	0	0		0	146	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	0	0	0	8818	16647	1117
	0	0	0	1747	3170	215

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 14APR87 TO 18APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 20APR87 TO 26APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	NS
TAPPAN ZEE	0	NS	0	0	NS	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0
	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27APR87 TO 01MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 04MAY87 TO 08MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNHALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	9	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	75	NS	0	0	NS
CATSKILL	427	0	NS	0	0	NS
ALBANY	315	0	NS	0	0	NS
TOTAL STANDING CROP	427	85	0	0	0	0
	315	76	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 11MAY87 TO 16MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR		SHOAL
	CHANNEL	BOTTOM	CHANNEL	BOTTOM	
YONKERS	0	0	0	0	0
	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0
	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0
	0	0	0	0	0
INDIAN POINT	0	0	0	0	0
	0	0	0	0	0
WEST POINT	0	0	NS	0	NS
	0	0	0	0	0
CORNWALL	0	0	0	0	0
	0	0	0	0	0
POUGHKEEPSIE	65	0	NS	0	NS
	65	0	0	0	0
HYDE PARK	34	81	NS	0	NS
	34	60	0	0	0
KINGSTON	95	0	NS	0	NS
	62	0	0	0	0
SAUGERTIES	2769	319	NS	0	NS
	2401	170	0	0	0
CATSKILL	2855	714	NS	0	NS
	423	550	0	0	0
ALBANY	62	0	NS	0	NS
	62	0	0	0	0
TOTAL STANDING CROP	5879	1115	0	0	0
	2441	579	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 18MAY87 TO 22MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	36	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	104	0	0	0
HYDE PARK	347	49	0	0
KINGSTON	482	25	0	0
SAUGERTIES	1238	330	0	0
CATSKILL	6587	6082	0	0
ALBANY	5738	1137	0	0
TOTAL STANDING CROP	14532	7700	0	0
	2672	3767	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 26MAY87 TO 30MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	11	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	645	10	NS	0	0	NS
HYDE PARK	200	10	NS	0	0	NS
KINGSTON	586	115	NS	0	0	NS
SAUGERTIES	1435	322	NS	0	0	NS
CATSKILL	18901	790	NS	0	0	NS
ALBANY	694	80	NS	0	0	NS
TOTAL STANDING CROP	22461	1338	0	0	0	0
	8900	292	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 01JUN87 TO 04JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	72	0	0	0
POUGHKEEPSIE	349	12	0	0
HYDE PARK	477	30	0	0
KINGSTON	609	0	0	0
SAUGERTIES	10088	120	0	0
CATSKILL	17164	257	0	0
ALBANY	802	345	0	0
TOTAL STANDING CROP	29561	765	0	0
	8386	343	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 08JUN87 TO 12JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	30	0	0	0	0	0
WEST. POINT	0	0	NS	0	0	NS
CORNWALL	50	0	0	0	0	0
POUGHKEEPSIE	695	0	NS	0	0	NS
HYDE PARK	481	0	NS	0	0	NS
KINGSTON	357	78	NS	0	0	NS
SAUGERTIES	8552	1330	NS	0	0	NS
CATSKILL	20161	1347	NS	0	0	NS
ALBANY	17266	127	NS	0	12	NS
TOTAL STANDING CROP	47593	3082	0	0	12	0
	16863	1045	0	0	12	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 15JUN87 TO 18JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	79	0	0	0
POUGHKEEPSIE	421	0	0	0
HYDE PARK	1300	40	0	0
KINGSTON	2174	142	0	0
SAUGERTIES	19913	196	0	0
CATSKILL	18431	6447	106	0
ALBANY	464	620	0	0
TOTAL STANDING CROP	42782	7444	106	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 22JUN87 TO 26JUN87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0		0	0	
TAPPAN ZEE	0	0	0	0	0	0
	0	0		0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0		0	0	
INDIAN POINT	0	23	0	0	0	0
	0	23		0	0	
WEST POINT	0	0	NS	0	0	NS
	0	0		0	0	
CORNWALL	0	0	0	0	0	0
	0	0		0	0	
POUGHKEEPSIE	598	0	NS	109	0	NS
	336	0		75	0	
HYDE PARK	491	33	NS	109	0	NS
	236	20		72	0	
KINGSTON	1457	484	NS	393	184	NS
	566	179		223	84	
SAUGERTIES	632	900	NS	0	676	NS
	243	322		0	259	
CATSKILL	13273	3055	NS	106	137	NS
	6113	2302		106	68	
ALBANY	10213	522	NS	78	59	NS
	4757	320		78	59	
TOTAL STANDING CROP	26663	5016	0	796	1056	0
	7780	2354	0	279	286	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR AMERICAN SHAD  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 06JUL87 TO 09JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	58	0	0
	0	0		58	0	
TAPPAN ZEE	0	0	0	71	368	129
	0	0	0	71	181	129
CROTON-HAVERSTRAW	0	0	0	0	37	0
	0	0	0	0	37	0
INDIAN POINT	0	0	0	0	25	24
	0	0	0	0	25	16
WEST POINT	0	0	NS	45	0	NS
	0	0		31	0	
CORNWALL	0	0	0	25	21	0
	0	0	0	25	21	0
POUGHKEEPSIE	0	0	NS	267	602	NS
	0	0		131	229	
HYDE PARK	49	0	NS	432	21	NS
	49	0		121	21	
KINGSTON	0	28	NS	638	94	NS
	0	28		278	32	
SAUGERTIES	209	191	NS	1010	1356	NS
	209	77		244	379	
CATSKILL	1064	137	NS	521	649	NS
	925	81		118	167	
ALBANY	466	946	NS	35	781	NS
	20	791		35	633	
TOTAL STANDING CROP	1788	1302	0	3103	3953	154
	950	800	0	440	813	130

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 14APR87 TO 18APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	13	11	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	13	11	0	0	0	0
	13	11	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 20APR87 TO 26APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	NS
TAPPAN ZEE	0	NS	0	0	NS	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
	0	0	0	0	0	0
CORNWALL	0	0	0	0	0	0
	0	0	0	0	0	0
POUGHKEEPSIE	0	52	NS	0	0	NS
	0	52	0	0	0	0
HYDE PARK	0	0	NS	0	0	NS
	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	NS
	0	0	0	0	0	0
SAUGERTIES	0	0	NS	0	0	NS
	0	0	0	0	0	0
CATSKILL	0	0	NS	0	0	NS
	0	0	0	0	0	0
ALBANY	0	0	NS	0	0	NS
	0	0	0	0	0	0
TOTAL STANDING CROP	0	52	0	0	0	0
	0	52	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27APR87 TO 01MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	156	22	0	0
WEST POINT	182	144	0	0
CORNWALL	160	237	22	0
POUGHKEEPSIE	1841	1315	NS	NS
HYDE PARK	434	111	NS	NS
KINGSTON	112	140	NS	NS
SAUGERTIES	0	282	NS	NS
CATSKILL	1206	0	NS	NS
ALBANY	0	196	NS	NS
TOTAL STANDING CROP	4090	2446	22	0
	1429	501	10	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 04MAY87 TO 08MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	49	0	0	0	0
	0	49	0	0	0	0
CROTON-HAVERSTRAW	62	0	55	0	0	0
	39	0	35	0	0	0
INDIAN POINT	463	60	8	0	0	0
	143	40	8	0	0	0
WEST POINT	654	398	NS	0	0	NS
	128	27		0	0	
CORNWALL	334	1055	316	0	0	0
	183	231	128	0	0	0
POUGHKEEPSIE	5714	3277	NS	0	0	NS
	2116	924		0	0	
HYDE PARK	3594	1547	NS	0	0	NS
	622	158		0	0	
KINGSTON	3225	4238	NS	0	0	NS
	558	994		0	0	
SAUGERTIES	27687	11928	NS	0	0	NS
	5744	1872		0	0	
CATSKILL	45477	36498	NS	0	0	NS
	14676	13151		0	0	
ALBANY	319	529	NS	0	0	NS
	255	329		0	0	
TOTAL STANDING CROP	87530	59580	379	0	0	0
	15928	13360	133	0	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 11MAY87 TO 16MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	2966 2966	0 0	0 0	0 0	0 0	0 0
TAPPAN ZEE	0 0	47 47	0 0	0 0	0 0	0 0
CROTON-HAVERSTRAM	153 74	29 29	159 82	0 0	0 0	0 0
INDIAN POINT	113 41	106 44	55 14	0 0	0 0	0 0
WEST POINT	175 69	211 40	NS	0 0	0 0	NS
CORNWALL	445 269	1539 463	397 167	0 0	0 0	0 0
POUGHKEEPSIE	3353 1015	1454 442	NS	0 0	0 0	NS
HYDE PARK	4150 886	3088 934	NS	0 0	0 0	NS
KINGSTON	4446 1594	31183 16765	NS	0 0	0 0	NS
SAUGERTIES	213168 142171	90924 17643	NS	0 0	0 0	NS
CATSKILL	88113 27833	35066 7693	NS	0 0	0 0	NS
ALBANY	1733 1733	2005 1277	NS	0 0	0 0	NS
TOTAL STANDING CROP	318813 144926	165651 25582	611 186	0 0	0 0	0 0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 18MAY87 TO 22MAY87 - STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	46	0
	0	0	0	0	46	0
CROTON-HAVERSTRAW	0	24	0	0	0	0
	0	24	0	0	0	0
INDIAN POINT	104	35	0	0	0	0
	55	35	0	0	0	0
WEST POINT	0	85	NS	0	0	NS
	0	42	NS	0	0	NS
CORNWALL	278	1805	478	0	0	0
	85	626	214	0	0	0
POUGHKEEPSIE	7286	5266	NS	0	0	NS
	1167	1036	NS	0	0	NS
HYDE PARK	20045	23500	NS	0	0	NS
	2881	5380	NS	0	0	NS
KINGSTON	43926	34996	NS	0	0	NS
	13472	20292	NS	0	0	NS
SAUGERTIES	44334	21036	NS	0	0	NS
	4456	10441	NS	0	0	NS
CATSKILL	43013	73361	NS	0	0	NS
	5994	37902	NS	0	0	NS
ALBANY	20809	9397	NS	0	0	NS
	10595	8518	NS	0	0	NS
TOTAL STANDING CROP	179795	169504	478	0	46	0
	18953	45390	214	0	46	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 26MAY87 TO 30MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	51	0	0
CROTON-HAVERSTRAW	0	19	0	0
INDIAN POINT	139	44	0	0
WEST POINT	322	212	0	0
CORNWALL	4334	3486	0	0
POUGHKEEPSIE	42849	13780	0	0
HYDE PARK	64597	17387	0	0
KINGSTON	93142	45536	0	0
SAUGERTIES	152074	168341	0	0
CATSKILL	244152	147347	0	0
ALBANY	215383	15658	0	0
TOTAL STANDING CROP	816991	411862	0	0
	206138	74996	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 01JUN87 TO 04JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	133	99	0	0	0	0
INDIAN POINT	176	69	77	0	0	0
WEST POINT	1331	1375	NS	0	0	NS
CORNWALL	6053	11744	1775	0	0	0
POUGHKEEPSIE	89062	25379	NS	0	0	NS
HYDE PARK	108202	44733	NS	0	0	NS
KINGSTON	88289	144191	NS	0	0	NS
SAUGERTIES	281258	94369	NS	0	0	NS
CATSKILL	810892	147748	NS	0	0	NS
ALBANY	100260	77523	NS	0	0	NS
TOTAL STANDING CROP	1485656	547230	1852	0	0	0
	341053	103958	971	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 08JUN87 TO 12JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	30	77	0	0
INDIAN POINT	536	648	71	0
WEST POINT	2275	637	NS	NS
CORNWALL	4148	2500	580	0
POUGHKEEPSIE	128171	10987	NS	NS
HYDE PARK	114963	8386	NS	NS
KINGSTON	83207	61177	NS	NS
SAUGERTIES	166414	104441	NS	NS
CATSKILL	248163	77646	NS	NS
ALBANY	60420	50499	NS	NS
TOTAL STANDING CROP	808328	316998	952	53
	77362	58026	203	29

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 15JUN87 TO 18JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	54	0	0	0	0
INDIAN POINT	132	0	70	0	0	0
WEST POINT	974	115	NS	0	0	NS
CORNWALL	1706	848	605	0	0	0
POUGHKEEPSIE	39667	11299	NS	0	0	NS
HYDE PARK	76707	13013	NS	0	0	NS
KINGSTON	46769	22222	NS	0	0	NS
SAUGERTIES	84629	20069	NS	0	0	NS
CATSKILL	121667	47695	NS	0	0	NS
ALBANY	12162	15091	NS	0	57	NS
TOTAL STANDING CROP	384414	130407	675	0	57	0
	55600	16509	132	0	40	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 22JUN87 TO 26JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	28	0	0	0	0
	0	28		0	0	
TAPPAN ZEE	0	0	120	0	0	0
	0	0	120	0	0	0
CROTON-HAVERSTRAW	0	15	0	0	0	0
	0	15	0	0	0	0
INDIAN POINT	231	23	1608	31	0	0
	148	23	1608	31	0	0
WEST POINT	110	33	NS	0	0	NS
	55	23		0	0	
CORNWALL	279	155	7	0	0	0
	111	48	7	0	0	0
POUGHKEEPSIE	53438	1398	NS	0	0	NS
	20656	908		0	0	
HYDE PARK	53333	3455	NS	0	17	NS
	12340	834		0	17	
KINGSTON	49221	6115	NS	58	116	NS
	6986	650		58	70	
SAUGERTIES	75587	35194	NS	0	26	NS
	44985	3452		0	26	
CATSKILL	155186	45244	NS	317	197	NS
	21762	4647		317	197	
ALBANY	51060	27177	NS	0	941	NS
	22497	9649		0	474	
TOTAL STANDING CROP	438444	118837	1735	606	1297	0
	60259	11338	1613	324	519	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29JUN87 TO 02JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	113	665	NS	18	0	NS
	57	643		18	0	
CORNWALL	725	343	53	0	0	0
	226	104	31	0	0	0
POUGHKEEPSIE	12746	1861	NS	0	0	NS
	3259	369		0	0	
HYDE PARK	39811	7146	NS	700	1958	NS
	16413	2581		525	1198	
KINGSTON	82678	79997	NS	2669	3435	NS
	36546	11789		661	1346	
SAUGERTIES	127539	20809	NS	2910	1743	NS
	17416	6647		616	529	
CATSKILL	138355	117088	NS	794	1551	NS
	19741	91684		333	509	
ALBANY	3592	7577	NS	0	354	NS
	2156	6787		0	197	
TOTAL STANDING CROP	405560	235487	53	7091	9041	0
	48097	92964	31	1097	1956	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALOSA  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 06JUL87 TO 09JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
	0	0		0	0	
TAPPAN ZEE	0	0	0	0	0	0
	0	0		0	0	
CROTON-HAVERSTRAW	0	0	0	0	37	0
	0	0		0	37	0
INDIAN POINT	0	0	0	0	0	0
	0	0		0	0	
WEST POINT	30	0	NS	0	0	NS
	30	0		0	0	
CORNWALL	0	0	0	0	10	0
	0	0		0	10	0
POUGHKEEPSIE	4887	331	NS	475	32	NS
	1415	170		217	32	
HYDE PARK	20260	3528	NS	5154	1318	NS
	7672	1342		1539	550	
KINGSTON	37473	14681	NS	16743	13425	NS
	16272	4400		5180	3990	
SAUGERTIES	22716	26237	NS	4304	23467	NS
	2799	6932		2389	12852	
CATSKILL	42582	14971	NS	3453	6080	NS
	10514	3979		1712	1003	
ALBANY	805	10929	NS	0	19523	NS
	76	4557		0	16824	
TOTAL STANDING CROP	128753	70679	0	30129	63892	0
	21071	10288	0	6155	21574	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 14APR87 TO 18APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 20APR87 TO 20APR87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	NS
TAPPAN ZEE	0	NS	0	0	NS	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27APR87 TO 01MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 04MAY87 TO 08MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 11MAY87 TO 16MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 18MAY87 TO 22MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE				YOUNG-OF-YEAR			
	CHANNEL		SHOAL		CHANNEL		SHOAL	
	BOTTOM	0	0	0	BOTTOM	0	0	0
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	NS	NS
CORNWALL	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	NS	NS
HYDE PARK	0	0	NS	NS	0	0	NS	NS
KINGSTON	0	0	NS	NS	0	0	NS	NS
SAUGERTIES	0	0	NS	NS	0	0	NS	NS
CATSKILL	0	0	NS	NS	0	0	NS	NS
ALBANY	0	0	NS	NS	0	0	NS	NS
TOTAL STANDING CROP	0	0	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 26MAY87 TO 30MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 01JUN87 TO 04JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 08JUN87 TO 12JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 15JUN87 TO 18JUN87 - STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 22JUN87 TO 26JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	12	NS
TOTAL STANDING CROP	0	0	12	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29JUN87 TO 02JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	82	NS
SAUGERTIES	0	0	NS	0	79	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	162	0
					114	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BLUEBACK HERRING  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 06JUL87 TO 09JUL87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	8
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	370	475	NS
HYDE PARK	0	0	NS	189	375	NS
KINGSTON	0	0	NS	2023	582	NS
SAUGERTIES	0	0	NS	866	313	NS
CATSKILL	0	0	NS	357	1023	NS
ALBANY	0	0	NS	184	345	NS
TOTAL STANDING CROP	0	0	0	0	3053	NS
	0	0	0	0	2543	NS
	0	0	0	285	1914	NS
	0	0	0	285	570	NS
	0	0	0	0	2935	NS
	0	0	0	0	704	NS
	0	0	0	3035	9981	8
	0	0	0	949	2765	8

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 14APR87 TO 18APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 20APR87 TO 26APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	NS
TAPPAN ZEE	0	NS	0	0	NS	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
	0	0	0	0	0	0
CORNWALL	0	0	0	0	0	0
	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
	0	0	0	0	0	0
HYDE PARK	0	0	NS	0	0	NS
	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	NS
	0	0	0	0	0	0
SAUGERTIES	0	0	NS	0	0	NS
	0	0	0	0	0	0
CATSKILL	0	0	NS	0	0	NS
	0	0	0	0	0	0
ALBANY	0	0	NS	0	0	NS
	0	0	0	0	0	0
TOTAL STANDING CROP	0	0	0	0	0	0
	0	0	0	0	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEMIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27APR87 TO 01MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEMIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 04MAY87 TO 08MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 11MAY87 TO 16MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 18MAY87 TO 22MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 26MAY87 TO 30MAY87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 01JUN87 TO 04JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 08JUN87 TO 12JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALENIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 15JUN87 TO 18JUN87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	110	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	110	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 22JUN87 TO 26JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	121 60	NS
TOTAL STANDING CROP	0	0	0	0	121 60	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29JUN87 TO 02JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	107	NS
KINGSTON	0	0	NS	344	524	NS
SAUGERTIES	0	0	NS	177	315	NS
CATSKILL	0	0	NS	979	533	NS
ALBANY	0	0	NS	979	319	NS
				103	441	NS
				103	266	NS
				0	80	NS
				0	43	NS
TOTAL STANDING CROP	0	0	0	1427	1686	0
	0	0	0	1001	529	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ALEWIFE  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 06JUL87 TO 09JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	22	0
INDIAN POINT	0	0	37	26
WEST POINT	0	NS	67	0
CORNWALL	0	0	30	19
POUGHKEEPSIE	0	NS	0	62
HYDE PARK	0	NS	145	210
KINGSTON	0	NS	678	263
SAUGERTIES	0	NS	0	493
CATSKILL	0	NS	475	2795
ALBANY	0	NS	0	61
TOTAL STANDING CROP	0	0	1431	3949
			563	694
				66
				28

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 14APR87 TO 18APR87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 20APR87 TO 26APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	NS
TAPPAN ZEE	0	NS	0	0	NS	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
	0	0	0	0	0	0
CORNWALL	0	0	0	0	0	0
	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
	0	0	0	0	0	0
HYDE PARK	0	0	NS	0	0	NS
	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	NS
	0	0	0	0	0	0
SAUGERTIES	0	0	NS	0	0	NS
	0	0	0	0	0	0
CATSKILL	0	0	NS	0	0	NS
	0	0	0	0	0	0
ALBANY	0	0	NS	0	0	NS
	0	0	0	0	0	0
TOTAL STANDING CROP	0	0	0	0	0	0
	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27APR87 TO 01MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 04MAY87 TO 08MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 11MAY87 TO 16MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 18MAY87 TO 22MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR			
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	121	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	37	0	NS	0	0	NS
TOTAL STANDING CROP	37	0	121	0	0	0
	37	0	121	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 26MAY87 TO 30MAY87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 01JUN87 TO 04JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 08JUN87 TO 12JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	2458	1778	0	0
	2337	1008	0	0
TAPPAN ZEE	2344	508	2542	0
	1578	432	2542	0
CROTON-HAVERSTRAW	4484	482	1293	0
	1426	244	547	0
INDIAN POINT	4568	663	617	0
	1338	464	225	0
WEST POINT	1587	27	NS	NS
	1430	27	0	0
CORNWALL	0	34	0	0
	0	34	0	0
POUGHKEEPSIE	0	0	NS	NS
	0	0	0	0
HYDE PARK	0	0	NS	NS
	0	0	0	0
KINGSTON	0	0	NS	NS
	0	0	0	0
SAUGERTIES	0	0	NS	NS
	0	0	0	0
CATSKILL	0	0	NS	NS
	0	0	0	0
ALBANY	0	0	NS	NS
	0	0	0	0
TOTAL STANDING CROP	15441	3493	4451	0
	3718	1217	2610	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 15JUN87 TO 18JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	16069	8976	0	0
	7526	3765	0	0
TAPPAN ZEE	58973	69110	14525	0
	27722	33768	9328	0
CROTON-HAVERSTRAW	31969	28270	28324	0
	7471	10276	13598	0
INDIAN POINT	118662	34180	918	0
	33069	8123	355	0
WEST POINT	3350	295	NS	NS
	1292	170	0	0
CORNWALL	961	65	0	0
	527	65	0	0
POUGHKEEPSIE	0	0	NS	NS
	0	0	0	0
HYDE PARK	0	0	NS	NS
	0	0	0	0
KINGSTON	0	0	NS	NS
	0	0	0	0
SAUGERTIES	0	0	NS	NS
	0	0	0	0
CATSKILL	0	0	NS	NS
	0	0	0	0
ALBANY	0	0	NS	NS
	0	0	0	0
TOTAL STANDING CROP	229984	140898	43767	0
	44457	36416	16494	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 22JUN87 TO 26JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	11224 7388	47974 29103	13146	0 0	0 0	0 0
TAPPAN ZEE	23930 7795	14708 10726	63858 14639	0 0	0 0	0 0
CROTON-HAVERSTRAW	44609 10718	38952 3816	88971 26196	0 0	0 0	0 0
INDIAN POINT	105038 20839	6437 2968	7330 2864	0 0	0 0	0 0
WEST POINT	13866 3561	991 450	NS	0 0	0 0	NS
CORNWALL	2014 773	813 278	459 195	0 0	0 0	0 0
POUGHKEEPSIE	1718 1557	303 153	NS	0 0	0 0	NS
HYDE PARK	0 0	0 0	NS	0 0	0 0	NS
KINGSTON	0 0	0 0	NS	0 0	0 0	NS
SAUGERTIES	0 0	0 0	NS	0 0	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	0 0	NS
ALBANY	0 0	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	202399 26080	110178 31396	173763 30146	0 0	0 0	0 0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29JUN87 TO 02JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	87441 27931	26474 7707	5266	0 0	0 0	0 0
TAPPAN ZEE	84597 10165	92671 31667	107791 39238	0 0	0 0	0 0
CROTON-HAVERSTRAW	51541 11424	25063 5262	70065 17810	0 0	0 0	0 0
INDIAN POINT	132228 24050	43252 12183	19792 6126	0 0	0 0	0 0
WEST POINT	18502 3301	2009 1291	NS	0 0	0 0	NS
CORNWALL	7147 1291	2239 610	1087 474	0 0	0 0	0 0
POUGHKEEPSIE	2599 765	1288 779	NS	0 0	0 0	NS
HYDE PARK	0 0	0 0	NS	0 0	0 0	NS
KINGSTON	0 0	0 0	NS	0 0	0 0	NS
SAUGERTIES	0 0	0 0	NS	0 0	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	0 0	NS
ALBANY	0 0	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	384055 40069	192997 35227	204002 43527	0 0	0 0	0 0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR BAY ANCHOVY  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 06JUL87 TO 09JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	67631 15964	141521 43129	91421	0 0	0 0	0 0
TAPPAN ZEE	177998 56718	57808 9592	122834 32339	0 0	0 0	0 0
CROTON-HAVERSTRAW	101688 12324	42115 10308	75705 7417	0 0	0 0	0 0
INDIAN POINT	659838 124322	111815 48989	24446 8172	0 0	0 0	0 0
WEST POINT	90164 29398	3154 2669	NS	0 0	0 0	NS
CORNWALL	15619 5598	1747 277	423 196	0 0	0 0	0 0
POUGHKEEPSIE	63149 26352	2933 1614	NS	0 0	0 0	NS
HYDE PARK	414 181	45 45	NS	0 0	0 0	NS
KINGSTON	0 0	33 33	NS	0 0	0 0	NS
SAUGERTIES	0 0	0 0	NS	0 0	0 0	NS
CATSKILL	0 0	0 0	NS	0 0	0 0	NS
ALBANY	0 0	0 0	NS	0 0	0 0	NS
TOTAL STANDING CROP	1176501 143769	361171 66844	314827 34171	0 0	0 0	0 0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 14APR87 TO 18APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 20APR87 TO 26APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	NS
TAPPAN ZEE	0	NS	0	0	NS	0
	0		0	0		0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
	0	0		0	0	
CORNWALL	0	0	0	0	0	0
	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
	0	0		0	0	
HYDE PARK	0	0	NS	0	0	NS
	0	0		0	0	
KINGSTON	0	0	NS	0	0	NS
	0	0		0	0	
SAUGERTIES	0	0	NS	0	0	NS
	0	0		0	0	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	0	0	0	0	0	0
	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27APR87 TO 01MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 04MAY87 TO 08MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 11MAY87 TO 16MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 18MAY87 TO 22MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 26MAY87 TO 30MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 01JUN87 TO 04JUN87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 08JUN87 TO 12JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 15JUN87 TO 18JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	63	0	0	0	0	0
	63	0		0	0	
TAPPAN ZEE	224	89	0	0	0	0
	159	55	0	0	0	0
CROTON-HAVERSTRAW	65	99	41	0	0	0
	41	35	41	0	0	0
INDIAN POINT	0	19	0	0	0	0
	0	19	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
	0	0		0	0	
CORNWALL	0	0	0	0	0	0
	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
	0	0		0	0	
HYDE PARK	0	0	NS	0	0	NS
	0	0		0	0	
KINGSTON	0	0	NS	0	0	NS
	0	0		0	0	
SAUGERTIES	0	0	NS	0	0	NS
	0	0		0	0	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	352	207	41	0	0	0
	176	67	41	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 22JUN87 TO 26JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	28	0	0	0	0
	0	28		0	0	
TAPPAN ZEE	0	0	0	0	0	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	45	0	0	0
	0	0	45	0	0	0
INDIAN POINT	189	88	32	0	0	0
	105	63	15	0	0	0
WEST POINT	23	0	NS	0	0	NS
	23	0		0	0	
CORNWALL	0	0	0	0	0	0
	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
	0	0		0	0	
HYDE PARK	0	0	NS	0	0	NS
	0	0		0	0	
KINGSTON	0	0	NS	0	0	NS
	0	0		0	0	
SAUGERTIES	0	0	NS	0	0	NS
	0	0		0	0	
CATSKILL	0	0	NS	0	0	NS
	0	0		0	0	
ALBANY	0	0	NS	0	0	NS
	0	0		0	0	
TOTAL STANDING CROP	212	116	77	0	0	0
	108	68	47	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29JUN87 TO 02JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	65	13	0	53	30	0
	65	13	0	53	20	0
INDIAN POINT	61	39	6	61	35	0
	41	39	6	41	21	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	126	52	6	114	65	0
	77	41	6	67	29	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WEAKFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 06JUL87 TO 09JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0
INDIAN POINT	0	0	34	0
WEST POINT	52	0	46	0
CORNWALL	0	0	0	13
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	52	0	79	13
	36	0	57	13

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 14APR87 TO 18APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR			
	CHANNEL	BOTTOM SHOAL	CHANNEL	BOTTOM	SHOAL	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
KINGSTON	0	NS	0	0	NS	NS
SAUGERTIES	0	NS	0	0	NS	NS
CATSKILL	0	NS	0	0	NS	NS
ALBANY	0	NS	0	0	NS	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 20APR87 TO 26APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	NS
TAPPAN ZEE	0	NS	0	0	NS	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
	0	0	0	0	0	0
CORNWALL	0	0	0	0	0	0
	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
	0	0	0	0	0	0
HYDE PARK	0	0	NS	0	0	NS
	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	NS
	0	0	0	0	0	0
SAUGERTIES	0	0	NS	0	0	NS
	0	0	0	0	0	0
CATSKILL	0	0	NS	0	0	NS
	0	0	0	0	0	0
ALBANY	0	0	NS	0	0	NS
	0	0	0	0	0	0
TOTAL STANDING CROP	0	0	0	0	0	0
	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27APR87 TO 01MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 04MAY87 TO 08MAY87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 11MAY87 TO 16MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 18MAY87 TO 22MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 26MAY87 TO 30MAY87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR			
	CHANNEL	BOTTOM SHOAL	CHANNEL	BOTTOM SHOAL		
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 01JUN87 TO 04JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 08JUN87 TO 12JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 15JUN87 TO 18JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 22JUN87 TO 26JUN87 - STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29JUN87 TO 02JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	163	NS
TOTAL STANDING CROP	0	0	0	0	118	0
					163	118
					163	118

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR WHITE CATFISH  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 06JUL87 TO 09JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	93	NS
TOTAL STANDING CROP	0	0	0	0	93	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 14APR87 TO 18APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 20APR87 TO 26APR87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	NS
TAPPAN ZEE	0	NS	0	0	NS	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
	0	0	0	0	0	0
CORNWALL	0	0	0	0	0	0
	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
	0	0	0	0	0	0
HYDE PARK	0	0	NS	0	0	NS
	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	NS
	0	0	0	0	0	0
SAUGERTIES	0	0	NS	0	0	NS
	0	0	0	0	0	0
CATSKILL	0	0	NS	0	0	NS
	0	0	0	0	0	0
ALBANY	0	0	NS	0	0	NS
	0	0	0	0	0	0
TOTAL STANDING CROP	0	0	0	0	0	0
	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27APR87 TO 01MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 04MAY87 TO 08MAY87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 11MAY87 TO 16MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 18MAY87 TO 22MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 26MAY87 TO 30MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 01JUN87 TO 04JUN87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 08JUN87 TO 12JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR			
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 15JUN87 TO 18JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 22JUN87 TO 26JUN87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29JUN87 TO 02JUL87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	45	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	45	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SPOTTAIL SHINER  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 06JUL87 TO 09JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 14APR87 TO 18APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 20APR87 TO 26APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	NS
TAPPAN ZEE	0	NS	0	0	NS	0
	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
	0	0	0	0	0	0
CORNWALL	0	0	0	0	0	0
	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
	0	0	0	0	0	0
HYDE PARK	0	0	NS	0	0	NS
	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	NS
	0	0	0	0	0	0
SAUGERTIES	0	0	NS	0	0	NS
	0	0	0	0	0	0
CATSKILL	0	0	NS	0	0	NS
	0	0	0	0	0	0
ALBANY	0	0	NS	0	0	NS
	0	0	0	0	0	0
TOTAL STANDING CROP	0	0	0	0	0	0
	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27APR87 TO 01MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 04MAY87 TO 08MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 11MAY87 TO 16MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 18MAY87 TO 22MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 26MAY87 TO 30MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 01JUN87 TO 04JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 08JUN87 TO 12JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 15JUN87 TO 18JUN87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	NS	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS
HYDE PARK	0	0	NS	NS
KINGSTON	0	0	NS	NS
SAUGERTIES	0	0	NS	NS
CATSKILL	0	0	NS	NS
ALBANY	0	0	NS	NS
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 22JUN87 TO 26JUN87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29JUN87 TO 02JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR ATLANTIC STURGEON  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 06JUL87 TO 09JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTRNOSE STURGIION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 14APR87 TO 18APR87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
KINGSTON	0	0	0	NS
SAUGERTIES	0	0	0	NS
CATSKILL	0	0	0	NS
ALBANY	0	0	0	NS
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 20APR87 TO 26APR87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	NS	0	0	NS
TAPPAN ZEE	0	NS	0	0	NS	0
	0		0	0		0
CROTON-HAVERSTRAW	0	0	0	0	0	0
	0		0	0		0
INDIAN POINT	0	0	0	0	0	0
	0		0	0		0
WEST POINT	0	0	NS	0	0	NS
	0			0		
CORNWALL	0	0	0	0	0	0
	0		0	0		0
POUGHKEEPSIE	0	0	NS	0	0	NS
	0			0		
HYDE PARK	0	0	NS	0	0	NS
	0			0		
KINGSTON	0	0	NS	0	0	NS
	0			0		
SAUGERTIES	0	0	NS	0	0	NS
	0			0		
CATSKILL	0	0	NS	0	0	NS
	0			0		
ALBANY	0	0	NS	0	0	NS
	0			0		
TOTAL STANDING CROP	0	0	0	0	0	0
	0		0	0		0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGIION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 27APR87 TO 01MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	BOTTOM	CHANNEL	BOTTOM
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	0	0	0
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	0	0	0
HYDE PARK	0	0	0	0
KINGSTON	0	0	0	0
SAUGERTIES	0	0	0	0
CATSKILL	0	0	0	0
ALBANY	0	0	0	0
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGIION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 04MAY87 TO 08MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 11MAY87 TO 10MAY87 . STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 18MAY87 TO 22MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 26MAY87 TO 30MAY87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 01JUN87 TO 04JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 08JUN87 TO 12JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 15JUN87 TO 18JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 22JUN87 TO 26JUN87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0

1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 29JUN87 TO 02JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE			YOUNG-OF-YEAR		
	CHANNEL	BOTTOM	SHOAL	CHANNEL	BOTTOM	SHOAL
YONKERS	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS
CORNWALL	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS
HYDE PARK	0	0	NS	0	0	NS
KINGSTON	0	0	NS	0	0	NS
SAUGERTIES	0	0	NS	0	0	NS
CATSKILL	0	0	NS	0	0	NS
ALBANY	0	0	NS	0	0	NS
TOTAL STANDING CROP	0	0	0	0	0	0



1987 LONGITUDINAL RIVER SURVEY STANDING CROP DATA (IN THOUSANDS) FOR SHORTNOSE STURGION  
 POST YOLK-SAC LARVAE AND YOUNG OF YEAR FROM 06JUL87 TO 09JUL87. STANDARD ERRORS  
 (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM  
 WAS NOT SAMPLED.

REGION	POST YOLK-SAC LARVAE		YOUNG-OF-YEAR	
	CHANNEL	SHOAL	CHANNEL	SHOAL
YONKERS	0	0	0	0
TAPPAN ZEE	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0
INDIAN POINT	0	0	0	0
WEST POINT	0	NS	0	NS
CORNWALL	0	0	0	0
POUGHKEEPSIE	0	NS	0	NS
HYDE PARK	0	NS	0	NS
KINGSTON	0	NS	0	NS
SAUGERTIES	0	NS	0	NS
CATSKILL	0	NS	0	NS
ALBANY	0	NS	0	NS
TOTAL STANDING CROP	0	0	0	0

APPENDIX J.4

1987 FALL SHOALS & BEACH SEINE SURVEYS

J.4.1 Young-of-Year and Yearling and Older

Striped bass

White perch

Atlantic tomcod

American shad

Blueback herring

Alewife

Bay anchovy

Weakfish

White catfish

Spottail shiner

Atlantic sturgeon

Shortnose sturgeon

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 24JUN87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
TAPPAN ZEE	NS	NS	NS	NS	185	116	NS	NS	NS	NS	0	0
CROTON-HAVERSTRAW	NS	NS	NS	NS	273	95	NS	NS	NS	NS	6	4
INDIAN POINT	NS	NS	NS	NS	17	14	NS	NS	NS	NS	2	2
WEST POINT	NS	NS	NS	NS	3	2	NS	NS	NS	NS	0	0
CORNWALL	NS	NS	NS	NS	4	4	NS	NS	NS	NS	0	0
POUGHKEEPSIE	NS	NS	NS	NS	17	17	NS	NS	NS	NS	0	0
HYDE PARK	NS	NS	NS	NS	19	18	NS	NS	NS	NS	0	0
KINGSTON	NS	NS	NS	NS	19	19	NS	NS	NS	NS	0	0
SAUGERTIES	NS	NS	NS	NS	99	47	NS	NS	NS	NS	0	0
CATSKILL	NS	NS	NS	NS	67	50	NS	NS	NS	NS	0	0
ALBANY	NS	NS	NS	NS	8	8	NS	NS	NS	NS	2	2
TOTAL STANDING CROP	NS	NS	NS	NS	710	169	NS	NS	NS	NS	10	5

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 06JUL87 TO 17JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	11	6	6	17	6	0	0	3	3	0	
	0	11	6	6	6	6	0	0	3	3	0	
TAPPAN ZEE	394	203	1986	451	186	80	0	0	67	27	0	
	169	100	451	451	80	80	0	0	27	27	0	
CROTON-HAVERSTRAW	0	159	2277	350	182	53	0	0	104	25	0	
	0	42	350	350	53	53	0	0	25	25	0	
INDIAN POINT	0	25	255	93	37	16	0	4	6	4	0	
	0	12	93	93	16	16	0	4	4	4	0	
WEST POINT	316	14	NS	NS	129	45	0	0	NS	NS	1	
	316	8	NS	NS	45	45	0	0	NS	NS	1	
CORNWALL	79	62	57	25	137	76	0	0	0	0	4	
	79	39	25	25	76	76	0	0	0	0	2	
POUGHKEEPSIE	409	8	NS	NS	71	59	0	0	NS	NS	4	
	205	8	NS	NS	59	59	0	0	NS	NS	4	
HYDE PARK	86	36	NS	NS	9	5	0	0	NS	NS	<0.5	
	86	17	NS	NS	5	5	0	0	NS	NS	<0.5	
KINGSTON	90	160	NS	NS	150	124	0	0	NS	NS	0	
	57	56	NS	NS	124	124	0	0	NS	NS	0	
SAUGERTIES	187	300	NS	NS	160	60	0	0	NS	NS	0	
	139	85	NS	NS	60	60	0	0	NS	NS	0	
CATSKILL	0	107	NS	NS	41	12	0	0	NS	NS	0	
	0	31	NS	NS	12	12	0	0	NS	NS	0	
ALBANY	0	25	NS	NS	99	80	0	0	NS	NS	0	
	0	8	NS	NS	80	80	0	0	NS	NS	0	
TOTAL STANDING CROP	1561	1110	4581	579	1217	215	0	0	180	57	9	
	455	159	579	579	215	215	0	0	57	57	5	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 20JUL87 TO 30JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	13	57	57	0	12	4	0
	0	13	23	13	0	12	4	0
TAPPAN ZEE	461	1125	1625	661	0	0	62	2
	397	897	281	141	0	0	17	2
CROTON-HAVERSTRAW	68	1660	621	154	0	3	25	0
	68	941	120	44	0	3	9	0
INDIAN POINT	0	322	79	46	0	0	4	2
	0	78	35	10	0	0	2	2
WEST POINT	0	13	NS	8	0	0	NS	0
	0	9		3	0	0		0
CORNWALL	0	34	41	80	0	0	0	0
	0	17	18	32	0	0	0	0
POUGHKEEPSIE	0	33	NS	37	0	0	NS	1
	0	24		13	0	0		1
HYDE PARK	0	10	NS	2	0	3	NS	0
	0	6		1	0	3		0
KINGSTON	532	89	NS	7	0	2	NS	0
	169	65		5	0	2		0
SAUGERTIES	0	280	NS	57	0	0	NS	0
	0	84		22	0	0		0
CATSKILL	0	89	NS	33	43	0	NS	2
	0	35		17	43	0		2
ALBANY	0	6	NS	78	0	0	NS	2
	0	3		36	0	0		2
TOTAL STANDING CROP	1062	3673	2423	1220	43	21	95	9
	437	1308	309	160	43	13	20	4

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 03AUG87 TO 13AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	35	154	39	18	0	0	0	0	0	0	
	0	15	62			0	0	0	0	0	0	
TAPPAN ZEE	0	1192	2294	712	194	29	0	0	29	13	25	
	0	448	312			0	0	0	0	0	25	
CROTON-HAVERSTRAW	0	952	1476	640	139	49	0	0	49	15	0	
	0	184	163			0	0	0	0	0	0	
INDIAN POINT	0	91	475	112	52	11	0	0	11	11	0	
	0	34	37			0	0	0	0	0	0	
WEST POINT	0	6	NS	13	7	NS	0	0	NS	NS	1	
	0	4				0	0	0	0	0	1	
CORNWALL	0	102	54	217	34	1	0	0	1	1	2	
	0	14	28			0	0	0	0	0	2	
POUGHKEEPSIE	0	213	NS	7	3	NS	0	0	NS	NS	1	
	0	140				0	0	0	0	0	1	
HYDE PARK	0	12	NS	4	2	NS	0	0	NS	NS	0	
	0	6				0	0	0	0	0	0	
KINGSTON	0	341	NS	7	4	NS	0	0	NS	NS	0	
	0	48				0	0	0	0	0	0	
SAUGERTIES	166	215	NS	51	32	NS	0	0	NS	NS	2	
	114	102				0	0	0	0	0	2	
CATSKILL	0	29	NS	242	130	NS	0	0	NS	NS	0	
	0	10				0	0	0	0	0	0	
ALBANY	0	10	NS	19	9	NS	0	0	NS	NS	0	
	0	5				0	0	0	0	0	0	
TOTAL STANDING CROP	166	3200	4453	2063	281	0	0	0	91	23	30	
	114	519	361			0	0	0	0	0	25	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 17AUG87 TO 27AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	59	45	50	0	0	0	0	0	0	0	0
	0	59	24	23			0	0	0	0	0	0
TAPPAN ZEE	120	1485	1700	1869	0	0	12	12	17	9	0	0
	120	626	410	684			0	0	0	0	0	0
CROTON-HAVERSTRAW	0	494	277	519	0	0	3	3	13	7	0	0
	0	124	83	137			0	0	0	0	0	0
INDIAN POINT	343	316	142	131	0	0	0	0	4	2	0	0
	343	114	49	60			0	0	0	0	0	0
WEST POINT	0	6	NS	34	0	0	0	0	NS	NS	0	0
	0	4		16			0	0	0	0	0	0
CORNWALL	0	150	27	140	0	0	0	0	0	0	0	0
	0	77	7	77			0	0	0	0	0	0
POUGHKEEPSIE	0	34	NS	9	0	0	0	0	NS	NS	0	0
	0	16		3			0	0	0	0	0	0
HYDE PARK	0	0	NS	2	0	0	0	0	NS	NS	0	0
	0	0		2			0	0	0	0	0	0
KINGSTON	0	142	NS	0	0	0	0	0	NS	NS	0	0
	0	58		0			0	0	0	0	0	0
SAUGERTIES	99	171	NS	125	0	0	6	6	NS	NS	0	0
	99	53		51			0	0	0	0	0	0
CATSKILL	0	174	NS	179	0	0	0	0	NS	NS	0	0
	0	104		31			0	0	0	0	0	0
ALBANY	0	31	NS	70	0	0	0	0	NS	NS	0	0
	0	15		40			0	0	0	0	0	0
TOTAL STANDING CROP	562	3063	2192	3127	0	0	21	21	34	12	0	0
	377	669	422	708			0	13	0	0	0	0



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 31AUG87 TO 11SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	90	96	20	8	0	0	0	0	0	0	
	0	49	43			0	0	0	0	0	0	
TAPPAN ZEE	61	359	1228	2571	890	0	0	0	3	4	0	
	61	107	235	890		0	0	0	3	3	0	
CROTON-HAVERSTRAW	56	211	317	2735	1040	0	0	0	9	10	0	
	56	72	65	1040		0	0	0	5	10	0	
INDIAN POINT	0	46	32	100		0	0	0	0	0	0	
	0	24	14	37		0	0	0	0	0	0	
WEST POINT	0	3	NS	20	8	0	0	0	NS	0	0	
	0	3		8		0	0	0			0	
CORNWALL	0	68	15	117		0	0	0	0	0	0	
	0	44	5	68		0	0	0	0	0	0	
POUGHKEEPSIE	206	34	NS	34		0	0	0	NS	0	0	
	206	26		13		0	0	0			0	
HYDE PARK	0	0	NS	<0.5		0	0	0	NS	0	0	
	0	0		<0.5		0	0	0			0	
KINGSTON	0	185	NS	3		0	0	0	NS	0	0	
	0	64		3		0	0	0			0	
SAUGERTIES	0	213	NS	242		0	0	0	NS	0	0	
	0	69		70		0	0	0			0	
CATSKILL	0	86	NS	197		0	0	0	NS	0	0	
	0	33		55		0	0	0			0	
ALBANY	0	1	NS	111		0	0	0	NS	4	0	
	0	1		73		0	0	0			0	
TOTAL STANDING CROP	323	1298	1688	6149		0	0	0	12	17	0	
	222	179	248	1376		0	0	0	6	11	0	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 14SEP87 TO 24SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	28	28	38	23	0	0	0	0	5	
	0	0	28	28	23	0	0	0	0	0	5	
TAPPAN ZEE	0	381	1077	1889	1889	520	0	0	12	7	4	
	0	136	152	520	520	7	0	0	0	0	3	
CROTON-HAVERSTRAW	0	190	523	2272	2272	808	0	0	0	0	0	
	0	59	95	808	808	0	0	0	0	0	0	
INDIAN POINT	0	110	71	92	92	24	0	0	2	2	0	
	0	44	17	24	24	0	0	0	0	0	0	
WEST POINT	0	12	NS	22	22	12	0	0	NS	NS	0	
	0	5	NS	12	12	0	0	0	0	0	0	
CORNWALL	80	5	12	57	57	21	0	0	0	0	0	
	80	5	5	21	21	0	0	0	0	0	0	
POUGHKEEPSIE	626	15	NS	4	4	3	0	0	NS	NS	0	
	357	9	NS	3	3	0	0	0	0	0	0	
HYDE PARK	0	0	NS	1	1	<0.5	0	0	NS	NS	0	
	0	0	NS	<0.5	<0.5	0	0	0	0	0	0	
KINGSTON	44	16	NS	0	0	0	0	0	NS	NS	0	
	44	10	NS	0	0	0	0	0	0	0	0	
SAUGERTIES	0	53	NS	35	35	16	0	0	NS	NS	2	
	0	24	NS	16	16	0	0	0	0	0	2	
CATSKILL	78	4	NS	79	79	39	0	0	NS	NS	8	
	78	4	NS	39	39	0	0	0	0	0	8	
ALBANY	0	3	NS	12	12	10	0	0	NS	NS	0	
	0	2	NS	10	10	0	0	0	0	0	0	
TOTAL STANDING CROP	828	789	1711	4501	4501	963	0	0	13	7	18	
	377	158	182	963	963	0	0	0	0	0	10	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 28SEP87 TO 08OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	105	98	53	0	0	0	2
	0	41	50	34	0	0	0	2
TAPPAN ZEE	175	163	2523	399	0	0	52	0
	123	51	401	81	0	0	21	0
CROTON-HAVERSTRAW	0	82	773	763	0	0	18	0
	0	21	147	382	0	0	6	0
INDIAN POINT	0	5	35	253	0	0	2	2
	0	5	16	93	0	0	2	2
WEST POINT	160	0	NS	20	0	0	NS	2
	160	0		10	0	0		2
CORNWALL	0	4	1	28	0	0	0	2
	0	4	1	8	0	0	0	2
POUGHKEEPSIE	0	0	NS	26	0	0	NS	0
	0	0		16	0	0		0
HYDE PARK	0	3	NS	<0.5	0	0	NS	0
	0	3		<0.5	0	0		0
KINGSTON	0	18	NS	9	0	0	NS	0
	0	8		5	0	0		0
SAUGERTIES	0	29	NS	33	0	0	NS	0
	0	11		18	0	0		0
CATSKILL	0	27	NS	37	0	0	NS	0
	0	13		15	0	0		0
ALBANY	0	1	NS	16	0	2	NS	0
	0	1		5	0	2		0
TOTAL STANDING CROP	335	438	3430	1636	0	2	72	7
	202	72	430	404	0	2	22	4

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 13OCT87 TO 22OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	26	53	33	12	0	0	0	0	0	2	
	0	16	13	12		0	0	0	0	0	2	
TAPPAN ZEE	0	260	2368	102	23	0	7	7	22	10	6	
	0	140	412	23		0	7	7	10		3	
CROTON-HAVERSTRAW	0	30	999	192	51	0	6	4	33	14	6	
	0	9	212	51		0	4		14		3	
INDIAN POINT	0	10	9	11	3	0	5	5	5	2	0	
	0	10	5	3		0	5	5	2		0	
WEST POINT	0	0	NS	2	1	0	0	0	NS	NS	0	
	0	0		1		0	0	0			0	
CORNWALL	0	5	17	5	4	0	5	5	7	7	2	
	0	5	7	4		0	5	5	7	7	2	
POUGHKEEPSIE	0	0	NS	11	8	0	0	0	NS	NS	1	
	0	0		8		0	0	0			1	
HYDE PARK	0	3	NS	<0.5	<0.5	0	0	0	NS	NS	0	
	0	3		<0.5	<0.5	0	0	0			0	
KINGSTON	0	5	NS	2	2	0	0	0	NS	NS	0	
	0	5		2		0	0	0			0	
SAUGERTIES	45	30	NS	7	5	0	0	0	NS	NS	2	
	45	30		5		0	0	0			2	
CATSKILL	0	18	NS	16	8	0	0	0	NS	NS	0	
	0	11		8		0	0	0			0	
ALBANY	0	1	NS	0	0	0	0	0	NS	NS	0	
	0	1		0		0	0	0			0	
TOTAL STANDING CROP	45	387	3447	382	59	0	23	10	67	18	18	
	45	145	464	59		0	10		19		5	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 26OCT87 TO 05NOV87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	107	68	26	15	0	8	0	8	0	2	2	2
	107	28	14	3	0	8	0	8	0	0	2	2
TAPPAN ZEE	44	0	181	30	0	0	0	0	21	0	0	0
	44	0	47	11	0	0	0	0	9	0	0	0
CROTON-HAVERSTRAW	0	11	97	42	0	0	0	0	0	0	0	0
	0	11	24	14	0	0	0	0	0	0	0	0
INDIAN POINT	171	0	4	17	0	5	0	5	2	0	0	0
	171	0	2	17	0	5	0	5	2	0	0	0
WEST POINT	0	8	NS	5	0	0	0	0	NS	0	0	0
	0	5	NS	3	0	0	0	0	NS	0	0	0
CORNWALL	0	18	3	28	0	0	0	0	0	0	0	0
	0	12	2	18	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	8	NS	1	0	0	0	0	NS	0	0	0
	0	8	NS	1	0	0	0	0	NS	0	0	0
HYDE PARK	0	3	NS	0	0	0	0	0	NS	0	0	0
	0	3	NS	0	0	0	0	0	NS	0	0	0
KINGSTON	0	22	NS	3	0	0	0	0	NS	2	2	2
	0	6	NS	3	0	0	0	0	NS	2	2	2
SAUGERTIES	60	20	NS	0	0	0	0	0	NS	0	0	0
	60	9	NS	0	0	0	0	0	NS	0	0	0
CATSKILL	0	12	NS	2	0	0	0	0	NS	0	0	0
	0	5	NS	2	0	0	0	0	NS	0	0	0
ALBANY	0	0	NS	2	0	0	0	0	NS	0	0	0
	0	0	NS	2	0	0	0	0	NS	0	0	0
TOTAL STANDING CROP	382	170	311	147	0	13	0	23	3	3	3	3
	215	36	54	31	0	10	0	10	10	10	10	10

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER STRIPED BASS FROM 10NOV87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	NS	NS	NS	NS	114 23		NS	NS	NS	NS	3 2	
TAPPAN ZEE	NS	NS	NS	NS	218 71		NS	NS	NS	NS	4 4	
CROTON-HAVERSTRAW	NS	NS	NS	NS	38 13		NS	NS	NS	NS	0 0	
INDIAN POINT	NS	NS	NS	NS	4 4		NS	NS	NS	NS	0 0	
WEST POINT	NS	NS	NS	NS	2 1		NS	NS	NS	NS	0 0	
CORNWALL	NS	NS	NS	NS	2 2		NS	NS	NS	NS	0 0	
POUGHKEEPSIE	NS	NS	NS	NS	1 1		NS	NS	NS	NS	0 0	
HYDE PARK	NS	NS	NS	NS	0 0		NS	NS	NS	NS	0 0	
KINGSTON	NS	NS	NS	NS	0 0		NS	NS	NS	NS	0 0	
SAUGERTIES	NS	NS	NS	NS	2 2		NS	NS	NS	NS	0 0	
CATSKILL	NS	NS	NS	NS	0 0		NS	NS	NS	NS	0 0	
ALBANY	NS	NS	NS	NS	0 0		NS	NS	NS	NS	0 0	
TOTAL STANDING CROP	NS	NS	NS	NS	381 76		NS	NS	NS	NS	7 4	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 24JUN87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER				
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE	
YONKERS	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
TAPPAN ZEE	NS	NS	NS	2 2	NS	NS	NS	NS	113 39
CROTON-HAVERSTRAW	NS	NS	NS	0 0	NS	NS	NS	NS	1471 952
INDIAN POINT	NS	NS	NS	0 0	NS	NS	NS	NS	85 56
WEST POINT	NS	NS	NS	0 0	NS	NS	NS	NS	13 7
CORNWALL	NS	NS	NS	0 0	NS	NS	NS	NS	34 18
POUGHKEEPSIE	NS	NS	NS	0 0	NS	NS	NS	NS	11 10
HYDE PARK	NS	NS	NS	3 1	NS	NS	NS	NS	3 2
KINGSTON	NS	NS	NS	22 22	NS	NS	NS	NS	21 21
SAUGERTIES	NS	NS	NS	43 27	NS	NS	NS	NS	20 14
CATSKILL	NS	NS	NS	94 40	NS	NS	NS	NS	150 45
ALBANY	NS	NS	NS	37 37	NS	NS	NS	NS	23 23
TOTAL STANDING CROP	NS	NS	NS	201 65	NS	NS	NS	NS	1942 957

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 06JUL87 TO 17JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	20	25	0	0	
	0	0	0	0	0	0	0	20	12	0	0	
TAPPAN ZEE	0	0	0	8	8	333	0	281	875	333	333	
	0	0	0	6	6	234	0	64	240	234	234	
CROTON-HAVERSTRAW	0	0	0	8	8	549	0	165	980	549	549	
	0	0	0	4	4	213	0	37	204	213	213	
INDIAN POINT	0	0	2	6	6	116	0	392	199	116	116	
	0	0	2	4	4	73	0	201	48	73	73	
WEST POINT	0	0	NS	4	4	42	0	9	NS	42	42	
	0	0	NS	2	2	16	0	6	NS	16	16	
CORNWALL	0	0	6	9	9	128	0	399	340	128	128	
	0	0	3	4	4	47	0	202	141	47	47	
POUGHKEEPSIE	196	39	NS	9	9	10	0	802	NS	10	10	
	196	22	NS	3	3	7	0	468	NS	7	7	
HYDE PARK	86	15	NS	20	20	2	256	321	NS	2	2	
	86	5	NS	18	18	2	256	92	NS	2	2	
KINGSTON	45	9	NS	65	65	162	90	463	NS	162	162	
	45	7	NS	53	53	83	57	228	NS	83	83	
SAUGERTIES	0	49	NS	131	131	109	374	262	NS	109	109	
	0	29	NS	69	69	34	322	120	NS	34	34	
CATSKILL	0	5	NS	67	67	18	130	159	NS	18	18	
	0	3	NS	40	40	16	130	31	NS	16	16	
ALBANY	0	14	NS	27	27	21	17	107	NS	21	21	
	0	7	NS	17	17	17	17	33	NS	17	17	
TOTAL STANDING CROP	327	131	8	352	352	1491	868	3380	2419	1491	1491	
	218	39	3	99	99	341	435	619	349	341	341	



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 20JUL87 TO 30JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	48	39	0	0	
	0	0	0	0	0	0	0	34	19	0	0	
TAPPAN ZEE	0	0	0	0	51	0	0	215	3919	394	0	
	0	0	0	0	22	0	0	75	1223	106	0	
CROTON-HAVERSTRAW	0	0	0	0	19	0	0	87	2152	252	0	
	0	0	0	0	8	0	0	45	864	96	0	
INDIAN POINT	0	49	2	2	0	0	148	98	50	90	0	
	0	43	2	2	0	0	148	57	28	68	0	
WEST POINT	157	0	NS	NS	6	5	0	14	NS	5	3	
	157	0	NS	NS	5	5	0	9	NS	3	3	
CORNWALL	0	19	7	3	7	5	0	88	137	14	5	
	0	13	3	3	5	5	0	39	99	14	5	
POUGHKEEPSIE	247	32	NS	NS	3	2	191	790	NS	71	0	
	247	15	NS	NS	2	2	191	183	NS	60	0	
HYDE PARK	0	19	NS	NS	18	13	355	176	NS	8	3	
	0	19	NS	NS	13	13	264	55	NS	3	3	
KINGSTON	168	23	NS	NS	43	25	425	295	NS	15	8	
	123	8	NS	NS	17	17	269	66	NS	8	8	
SAUGERTIES	0	18	NS	NS	43	17	52	346	NS	174	52	
	0	11	NS	NS	17	17	52	80	NS	52	52	
CATSKILL	0	15	NS	NS	152	63	297	305	NS	356	181	
	0	7	NS	NS	103	103	297	63	NS	181	181	
ALBANY	0	18	NS	NS	124	103	0	50	NS	43	29	
	0	8	NS	NS	103	103	0	26	NS	29	29	
TOTAL STANDING CROP	572	192	9	9	466	128	1467	2513	6297	1422	0	
	318	54	4	4	128	128	540	256	1501	255	0	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 03AUG87 TO 13AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	16	67	0	0	
	0	0	0	0	0	0	0	16	54	0	0	
TAPPAN ZEE	0	0	0	0	74	138	0	174	1343	138	40	
	0	0	0	0	30	40	0	77	268	40	40	
CROTON-HAVERSTRAW	0	0	0	0	106	695	0	174	999	695	229	
	0	0	0	0	37	229	0	67	264	229	229	
INDIAN POINT	0	16	13	13	131	131	0	324	70	131	68	
	0	16	6	6	99	68	0	174	14	68	68	
WEST POINT	0	0	NS	NS	22	11	0	37	NS	11	5	
	0	0	0	0	10	5	0	30	NS	5	5	
CORNWALL	0	47	13	13	64	108	0	113	65	108	19	
	0	31	7	7	19	19	0	36	22	19	19	
POUGHKEEPSIE	0	119	NS	NS	78	24	217	597	NS	24	8	
	0	47	0	0	40	8	217	334	NS	8	8	
HYDE PARK	0	177	NS	NS	13	1	0	216	NS	1	1	
	0	62	0	0	7	1	0	93	NS	1	1	
KINGSTON	0	42	NS	NS	22	9	127	487	NS	9	7	
	0	13	0	0	17	7	87	142	NS	7	7	
SAUGERTIES	53	15	NS	NS	55	29	713	392	NS	29	17	
	53	6	0	0	23	17	455	107	NS	17	17	
CATSKILL	0	4	NS	NS	492	260	0	321	NS	260	75	
	0	4	0	0	291	75	0	61	NS	75	75	
ALBANY	0	2	NS	NS	16	49	0	69	NS	49	46	
	0	1	0	0	9	46	0	21	NS	46	46	
TOTAL STANDING CROP	53	421	26	26	1071	1455	1058	2919	2544	1455	260	
	53	87	9	9	316	260	511	446	381	260	260	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 17AUG87 TO 27AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	42	0	0	
TAPPAN ZEE	0	0	0	0	27	16	0	177	1944	1316	0	
CROTON-HAVERSTRAW	0	0	0	0	61	25	0	111	291	92	38	
INDIAN POINT	0	8	19	15	107	44	0	226	177	90	14	
WEST POINT	0	10	NS	NS	72	25	0	32	NS	6	2	
CORNWALL	0	165	21	9	32	18	0	262	87	69	44	
POUGHKEEPSIE	0	309	NS	NS	82	34	0	579	NS	27	14	
HYDE PARK	0	371	NS	NS	48	20	0	1118	NS	6	3	
KINGSTON	0	99	NS	NS	62	18	93	496	NS	28	14	
SAUGERTIES	148	74	NS	NS	158	69	494	447	NS	133	52	
CATSKILL	0	229	NS	NS	970	428	40	1036	NS	155	145	
ALBANY	0	20	NS	NS	47	31	76	185	NS	83	46	
TOTAL STANDING CROP	148	1286	41	17	1666	441	703	4669	2540	2006	1158	
	101	184			441		408	595	639			

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 31AUG87 TO 11SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	88	37	0	0	0
	0	0	0	0	0	0	0	59	14	0	0	0
TAPPAN ZEE	0	0	0	102	43	0	0	114	2061	242	130	0
	0	0	0	43	0	0	0	32	687	0	0	0
CROTON-HAVERSTRAW	0	0	0	647	296	0	0	71	598	1450	1360	0
	0	0	0	296	0	0	0	33	174	0	0	0
INDIAN POINT	0	0	5	190	105	5	0	177	199	63	39	0
	0	0	5	105	0	0	0	119	57	0	0	0
WEST POINT	0	0	NS	48	22	0	0	0	NS	23	11	0
	0	0	0	22	0	0	0	0	0	0	0	0
CORNWALL	0	151	22	208	80	7	0	196	515	53	39	0
	0	63	7	80	0	0	0	77	105	0	0	0
POUGHKEEPSIE	627	163	NS	3	3	3	1898	942	NS	13	9	0
	365	126	NS	3	3	3	1898	808	NS	0	0	0
HYDE PARK	0	256	NS	3	3	3	0	431	NS	2	1	0
	0	90	NS	3	3	3	0	102	NS	0	0	0
KINGSTON	0	149	NS	160	76	0	161	878	NS	14	6	0
	0	40	NS	76	0	0	161	394	NS	0	0	0
SAUGERTIES	0	24	NS	406	102	0	0	258	NS	295	139	0
	0	9	NS	102	0	0	0	45	NS	0	0	0
CATSKILL	0	51	NS	83	33	0	0	1043	NS	155	81	0
	0	24	NS	33	0	0	0	418	NS	0	0	0
ALBANY	0	8	NS	37	30	0	0	113	NS	113	71	0
	0	6	NS	30	0	0	0	35	NS	0	0	0
TOTAL STANDING CROP	627	803	27	1887	355	9	2059	4311	3410	2423	1378	0
	365	174	9	355	0	0	1904	1011	719	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 14SEP87 TO 24SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	36	21	6	4
TAPPAN ZEE	0	0	0	0	61	30	0	187	1221	273	337	178
CROTON-HAVERSTRAW	0	0	8	4	221	66	0	142	1228	216	213	136
INDIAN POINT	0	24	0	0	63	39	0	206	290	89	52	36
WEST POINT	141	37	NS	NS	67	38	0	43	NS	NS	23	18
CORNWALL	0	5	15	8	98	33	0	188	186	19	25	19
POUGHKEEPSIE	0	53	NS	NS	0	0	0	880	NS	NS	6	4
HYDE PARK	93	66	NS	NS	4	4	282	373	NS	NS	1	<0.5
KINGSTON	0	64	NS	NS	74	33	0	490	NS	NS	21	17
SAUGERTIES	82	10	NS	NS	68	31	327	542	NS	NS	140	99
CATSKILL	0	0	NS	NS	116	66	168	224	NS	NS	155	62
ALBANY	0	4	NS	NS	2	2	0	66	NS	NS	8	8
TOTAL STANDING CROP	316	261	24	9	774	125	776	3342	2961	360	987	257
	188	54					583	739				

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 28SEP87 TO 08OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHORE	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	87	413	218	87	2	
	0	0	0	0	0	0	87	199	139	87	2	
TAPPAN ZEE	0	14	114	142	114	53	0	38	7866	0	240	
	0	14	56	53	56	53	0	19	1571	0	90	
CROTON-HAVERSTRAW	0	35	164	65	164	53	0	77	1598	0	69	
	0	20	48	53	48	53	0	42	229	0	54	
INDIAN POINT	0	41	16	140	16	64	0	33	99	0	11	
	0	20	10	64	10	64	0	13	55	0	9	
WEST POINT	160	7	NS	14	NS	5	0	0	NS	0	42	
	160	4		5		5	0	0		0	33	
CORNWALL	0	134	9	114	9	34	0	183	17	0	80	
	0	54	7	34	7	34	0	65	12	0	26	
POUGHKEEPSIE	369	52	NS	16	NS	3	0	292	NS	0	35	
	369	19		3		3	0	55		0	22	
HYDE PARK	419	129	NS	0	NS	0	127	270	NS	127	1	
	214	35		0		0	127	82		127	1	
KINGSTON	171	184	NS	65	NS	31	340	413	NS	340	22	
	127	43		31		31	295	88		295	7	
SAUGERTIES	258	76	NS	117	NS	55	226	171	NS	226	80	
	167	20		55		55	226	34		226	25	
CATSKILL	0	43	NS	441	NS	252	0	223	NS	0	110	
	0	18		252		252	0	53		0	42	
ALBANY	0	11	NS	54	NS	29	0	35	NS	0	8	
	0	5		29		29	0	8		0	6	
TOTAL STANDING CROP	1378	725	303	1168	303	282	779	2149	9799	779	701	
	502	90	75	282	75	282	402	260	1595	402	126	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 13OCT87 TO 22OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	38	0	0	0	0	311	604	6	6	
	0	0	22	0	0	0	0	178	234	4	4	
TAPPAN ZEE	0	6	680	42	20	0	0	323	7593	70	70	
	0	6	218	20	0	0	0	96	1252	30	30	
CROTON-HAVERSTRAW	0	4	621	52	19	0	0	169	1727	35	35	
	0	4	148	19	0	0	0	42	282	17	17	
INDIAN POINT	0	32	31	2	2	0	0	28	37	9	9	
	0	23	29	2	0	0	0	24	22	5	5	
WEST POINT	159	17	NS	7	5	0	128	16	NS	1	1	
	159	8		5			128	16		1	1	
CORNWALL	0	46	141	46	25	0	0	143	85	5	5	
	0	25	52	25	0	0	0	54	52	4	4	
POUGHKEEPSIE	0	39	NS	4	4	0	0	379	NS	1	1	
	0	23		4			0	178		1		
HYDE PARK	79	73	NS	4	3	0	0	257	NS	2	2	
	79	40		3			0	77		1	1	
KINGSTON	0	66	NS	3	2	0	0	458	NS	0	0	
	0	19		2			0	110		0	0	
SAUGERTIES	0	82	NS	33	22	0	0	332	NS	33	33	
	0	31		22			0	80		11	11	
CATSKILL	0	30	NS	246	131	0	0	261	NS	55	55	
	0	11		131			0	74		29	29	
ALBANY	0	6	NS	10	6	0	0	43	NS	0	0	
	0	6		6			0	10		0	0	
TOTAL STANDING CROP	238	402	1511	450	138	0	128	2722	10046	217	217	
	178	70	272	138			128	329	1506	48	48	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 26OCT87 TO 05NOV87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	604	113	6	3	
	0	0	0	0	0	0	0	150	21			
TAPPAN ZEE	0	16	157	17	8	17	0	134	1227	32	22	
	0	8	42	8		8	0	49	311			
CROTON-HAVERSTRAW	0	36	129	15	8	15	0	122	789	10	8	
	0	13	28	8		8	0	46	171			
INDIAN POINT	0	32	22	7	5	7	171	55	109	0	0	
	0	15	16	5		5	171	18	84			
WEST POINT	0	69	NS	6	4	6	174	65*	NS	2	2	
	0	37		4		4	174	36				
CORNWALL	88	97	50	11	9	11	0	331	51	11	7	
	88	35	24	9		9	0	86	23			
POUGHKEEPSIE	358	153	NS	7	4	7	920	366	NS	4	3	
	358	89		4		4	638	163				
HYDE PARK	629	123	NS	3	3	3	269	245	NS	<0.5	<0.5	
	425	30		3		3	172	82				
KINGSTON	458	138	NS	12	10	12	766	392	NS	2	2	
	303	33		10		10	323	150				
SAUGERTIES	398	32	NS	31	14	31	1435	156	NS	29	9	
	167	15		14		14	550	73				
CATSKILL	80	6	NS	122	55	122	406	41	NS	6	4	
	51	3		55		55	269	7				
ALBANY	19	0	NS	58	26	58	38	2	NS	2	2	
	19	0		26		26	38	1				
TOTAL STANDING CROP	2030	702	358	290	66	290	4180	2513	2289	104	27	
	663	115	58	66		66	988	311	366			



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE PERCH FROM 10NOV87 TO . . . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	
YONKERS	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	6	6
TAPPAN ZEE	NS	NS	NS	NS	27	11	NS	NS	NS	NS	NS	144	47
CROTON-HAVERSTRAW	NS	NS	NS	NS	15	9	NS	NS	NS	NS	NS	4	3
INDIAN POINT	NS	NS	NS	NS	2	2	NS	NS	NS	NS	NS	24	14
WEST POINT	NS	NS	NS	NS	1	1	NS	NS	NS	NS	NS	0	0
CORNWALL	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0	0
POUGHKEEPSIE	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	4	3
HYDE PARK	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	<0.5	<0.5
KINGSTON	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	2	2
SAUGERTIES	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	4	3
CATSKILL	NS	NS	NS	NS	41	41	NS	NS	NS	NS	NS	0	0
ALBANY	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	2	2
TOTAL STANDING CROP	NS	NS	NS	NS	86	44	NS	NS	NS	NS	NS	190	50

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 24JUN87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER				
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE	
YONKERS	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
TAPPAN ZEE	NS	NS	NS	7 4	NS	NS	NS	NS	0 0
CROTON-HAVERSTRAW	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
INDIAN POINT	NS	NS	NS	2 2	NS	NS	NS	NS	0 0
WEST POINT	NS	NS	NS	4 3	NS	NS	NS	NS	0 0
CORNWALL	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
POUGHKEEPSIE	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
HYDE PARK	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
KINGSTON	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
SAUGERTIES	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
CATSKILL	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
ALBANY	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
TOTAL STANDING CROP	NS	NS	NS	13 5	NS	NS	NS	NS	0 0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 06-JUL87 TO 17-JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	407 302	4004 1756	2129 813	5 3			134 134	20 20	9 4	0 0		
TAPPAN ZEE	794 519	1317 251	737 162	0 0			0 0	0 0	0 0	0 0		
CROTON-HAVERSTRAN	0 0	941 441	649 144	2 2			0 0	3 3	6 4	0 0		
INDIAN POINT	6378 2936	1979 767	87 43	7 7			323 162	16 16	2 2	0 0		
WEST POINT	3221 110	1062 796	NS	1 1			0 0	3 3	NS	0 0		
CORNWALL	86 86	467 153	124 65	0 0			0 0	0 0	0 0	0 0		
POUGHKEEPSIE	196 196	230 73	NS	1 1			0 0	0 0	NS	0 0		
HYDE PARK	86 86	29 7	NS	0 0			0 0	0 0	NS	0 0		
KINGSTON	0 0	26 16	NS	0 0			0 0	0 0	NS	0 0		
SAUGERTIES	47 47	20 9	NS	0 0			0 0	0 0	NS	0 0		
CATSKILL	0 0	16 5	NS	0 0			0 0	0 0	NS	0 0		
ALBANY	0 0	5 3	NS	0 0			0 0	0 0	NS	0 0		
TOTAL STANDING CROP	11214 3008	10095 2143	3727 845	16 8			456 210	42 26	17 6	0 0		

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 20JUL87 TO 30JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR					YEARLING AND OLDER				
	FALL SHOALS		BEACH SEINE		STANDARD ERROR	FALL SHOALS		BEACH SEINE		STANDARD ERROR
	CHANNEL	BOTTOM	SHOAL	SHORE		CHANNEL	BOTTOM	SHOAL	SHORE	
YONKERS	0	3990	368	0	0	0	230	4	0	0
	0	823	159	0	0	0	71	4	0	0
TAPPAN ZEE	505	499	160	0	0	0	0	0	0	0
	505	298	96	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	33	9	0	0	0	0	0	0	0
	0	17	5	0	0	0	0	0	0	0
INDIAN POINT	0	1803	57	0	0	0	0	0	0	0
	0	656	23	0	0	0	0	0	0	0
WEST POINT	1416	119	NS	0	0	0	0	NS	0	0
	1416	44		0	0	0	0		0	0
CORNWALL	0	131	11	0	0	0	0	0	0	0
	0	11	8	0	0	0	0	0	0	0
POUGHKEEPSIE	0	24	NS	0	0	0	0	NS	0	0
	0	10		0	0	0	0		0	0
HYDE PARK	0	8	NS	0	0	0	0	NS	0	0
	0	8		0	0	0	0		0	0
KINGSTON	0	0	NS	0	0	0	0	NS	0	0
	0	0		0	0	0	0		0	0
SAUGERTIES	0	0	NS	0	0	0	0	NS	0	0
	0	0		0	0	0	0		0	0
CATSKILL	0	0	NS	0	0	0	0	NS	0	0
	0	0		0	0	0	0		0	0
ALBANY	0	0	NS	0	0	0	0	NS	0	0
	0	0		0	0	0	0		0	0
TOTAL STANDING CROP	1921	6608	606	0	0	0	230	4	0	0
	1503	1095	187	0	0	0	71	4	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 03AUG87 TO 13AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	311	3577	314	0	0	37	18	0
	311	996	121	0	0	23	12	0
TAPPAN ZEE	0	723	366	2	0	6	4	0
	0	148	233	2	0	6	4	0
CROTON-HAVERSTRAW	0	47	0	0	0	3	0	0
	0	11	0	0	0	3	0	0
INDIAN POINT	0	455	4	0	0	21	0	0
	0	103	2	0	0	9	0	0
WEST POINT	0	117	NS	0	0	3	NS	0
	0	34		0	0	3		0
CORNWALL	0	512	6	0	0	0	0	0
	0	173	5	0	0	0	0	0
POUGHKEEPSIE	0	50	NS	0	0	0	NS	0
	0	43		0	0	0		0
HYDE PARK	0	6	NS	0	0	0	NS	0
	0	4		0	0	0		0
KINGSTON	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
SAUGERTIES	0	2	NS	0	0	0	NS	0
	0	2		0	0	0		0
CATSKILL	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
ALBANY	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
TOTAL STANDING CROP	311	5490	690	2	0	69	22	0
	311	1029	262	2	0	26	12	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 17AUG87 TO 27AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	1489	416	0	0	0	0	88	26	0	0	
	0	447	208	0	0	0	0	52	15	0	0	
TAPPAN ZEE	0	584	513	0	0	0	0	50	87	0	0	
	0	323	195	0	0	0	0	31	41	0	0	
CROTON-HAVERSTRAW	0	10	0	0	0	0	0	0	0	0	0	
	0	5	0	0	0	0	0	0	0	0	0	
INDIAN POINT	0	35	4	0	0	0	0	9	0	0	0	
	0	14	4	0	0	0	0	6	0	0	0	
WEST POINT	328	117	NS	0	0	0	0	0	NS	0	0	
	328	55		0	0	0	0	0		0	0	
CORNWALL	0	121	14	0	0	0	0	0	0	0	0	
	0	39	8	0	0	0	0	0	0	0	0	
POUGHKEEPSIE	0	50	NS	0	0	0	0	0	NS	0	0	
	0	41		0	0	0	0	0		0	0	
HYDE PARK	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0		0	0	0	0	0		0	0	
KINGSTON	0	11	NS	0	0	0	0	0	NS	0	0	
	0	7		0	0	0	0	0		0	0	
SAUGERTIES	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0		0	0	0	0	0		0	0	
CATSKILL	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0		0	0	0	0	0		0	0	
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0		0	0	0	0	0		0	0	
TOTAL STANDING CROP	328	2416	947	0	0	0	0	146	113	0	0	
	328	557	285	0	0	0	0	61	43	0	0	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 31AUG87 TO 11SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	134 134	1259 212	180 54	0 0	0 0	0 0	0 0	96 14	18 8	0 0	0 0	0 0
TAPPAN ZEE	0 0	184 46	113 46	19 9	13 11	13 11	0 0	22 12	10 8	0 0	0 0	0 0
CROTON-HAVERSTRAW	0 0	111 46	3 3	8 6	0 0	0 0	0 0	17 5	0 0	0 0	0 0	0 0
INDIAN POINT	0 0	319 70	4 4	0 0	0 0	0 0	0 0	81 28	2 2	0 0	0 0	0 0
WEST POINT	0 0	243 104	NS	0 0	0 0	0 0	0 0	9 6	NS	0 0	0 0	0 0
CORNWALL	0 0	142 74	17 11	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
POUGHKEEPSIE	0 0	84 54	NS	0 0	0 0	0 0	206 206	0 0	NS	0 0	0 0	0 0
HYDE PARK	0 0	30 22	NS	0 0	0 0	0 0	0 0	3 3	NS	0 0	0 0	0 0
KINGSTON	0 0	11 6	NS	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0	0 0
SAUGERTIES	0 0	3 3	NS	0 0	0 0	0 0	0 0	5 4	NS	0 0	0 0	0 0
CATSKILL	0 0	2 2	NS	0 0	0 0	0 0	0 0	2 2	NS	0 0	0 0	0 0
ALBANY	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0	0 0
TOTAL STANDING CROP	134 134	2389 272	316 72	27 11	27 11	27 11	206 206	237 35	30 11	13 11	13 11	13 11

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 14SEP87 TO 24SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	764	115	0	0	55	26	0
	0	351	36	0	0	15	11	0
TAPPAN ZEE	0	234	35	21	0	20	5	9
	0	79	25	12	0	14	5	5
CROTON-HAVERSTRAW	0	32	0	13	0	13	0	0
	0	6	0	8	0	7	0	0
INDIAN POINT	0	317	5	0	0	56	0	0
	0	155	5	0	0	27	0	0
WEST POINT	308	172	NS	0	0	14	NS	0
	155	101		0	0	9		0
CORNWALL	0	29	1	0	0	0	0	0
	0	12	1	0	0	0	0	0
POUGHKEEPSIE	0	129	NS	0	0	0	NS	0
	0	65		0	0	0		0
HYDE PARK	0	41	NS	0	0	3	NS	0
	0	23		0	0	3		0
KINGSTON	0	7	NS	0	0	0	NS	0
	0	5		0	0	0		0
SAUGERTIES	0	3	NS	0	0	0	NS	0
	0	3		0	0	0		0
CATSKILL	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
ALBANY	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
TOTAL STANDING CROP	308	1727	157	34	0	162	31	9
	155	411	44	15	0	36	12	5



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 28SEP87 TO 08OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHOAL	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	87	1312	243	0	0	0	77	73	29	0	0	
	87	516	62	0	0	0	77	23	12	0	0	
TAPPAN ZEE	165	520	318	110	46	0	0	54	4	30	0	
	114	71	49	46	0	0	0	18	4	14	0	
CROTON-HAVERSTRAW	0	238	44	0	0	0	0	0	0	0	0	
	0	35	13	0	0	0	0	0	0	0	0	
INDIAN POINT	0	128	6	0	0	0	0	0	0	0	0	
	0	45	4	0	0	0	0	0	0	0	0	
WEST POINT	0	61	NS	0	0	0	0	0	NS	0	0	
	0	31	NS	0	0	0	0	0	NS	0	0	
CORNWALL	0	9	0	0	0	0	0	0	0	0	0	
	0	9	0	0	0	0	0	0	0	0	0	
POUGHKEEPSIE	0	114	NS	0	0	0	0	7	NS	0	0	
	0	23	NS	0	0	0	0	7	NS	0	0	
HYDE PARK	0	20	NS	0	0	0	0	0	NS	0	0	
	0	17	NS	0	0	0	0	0	NS	0	0	
KINGSTON	0	6	NS	0	0	0	0	0	NS	0	0	
	0	4	NS	0	0	0	0	0	NS	0	0	
SAUGERTIES	0	26	NS	0	0	0	0	0	NS	0	0	
	0	12	NS	0	0	0	0	0	NS	0	0	
CATSKILL	0	4	NS	0	0	0	0	2	NS	0	0	
	0	3	NS	0	0	0	0	2	NS	0	0	
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0	NS	0	0	0	0	0	NS	0	0	
TOTAL STANDING CROP	252	2438	611	110	46	0	77	137	33	30	0	
	144	526	80	46	0	0	77	30	13	14	0	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 13OCT87 TO 22OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	404	218	0	0	0	0	255	94	0	0	
	0	162	65	0	0	0	0	94	26	0	0	
TAPPAN ZEE	0	439	247	38	14	0	0	92	44	8	0	
	0	135	60	0	0	0	0	45	25	4	0	
CROTON-HAVERSTRAW	0	139	22	0	0	0	0	16	0	0	0	
	0	28	19	0	0	0	0	8	0	0	0	
INDIAN POINT	0	138	3	0	0	0	0	4	0	0	0	
	0	53	2	0	0	0	0	4	0	0	0	
WEST POINT	0	60	NS	0	0	0	0	0	NS	0	0	
	0	39	0	0	0	0	0	0	0	0	0	
CORNWALL	0	32	0	0	0	0	0	5	0	0	0	
	0	16	0	0	0	0	0	5	0	0	0	
POUGHKEEPSIE	0	116	NS	0	0	0	0	15	NS	0	0	
	0	62	0	0	0	0	0	9	0	0	0	
HYDE PARK	0	3	NS	0	0	0	0	0	NS	0	0	
	0	3	0	0	0	0	0	0	0	0	0	
KINGSTON	0	34	NS	0	0	0	0	0	NS	0	0	
	0	21	0	0	0	0	0	0	0	0	0	
SAUGERTIES	0	18	NS	0	0	0	0	0	NS	0	0	
	0	9	0	0	0	0	0	0	0	0	0	
CATSKILL	0	7	NS	0	0	0	0	0	NS	0	0	
	0	5	0	0	0	0	0	0	0	0	0	
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
TOTAL STANDING CROP	0	1390	490	38	14	0	0	386	137	8	0	
	0	233	91	0	0	0	0	105	37	4	0	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 260C187 TO 05HOV87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	274	15	0	0	0	0	312	12	0	0	
	0	117	6	0	0	0	0	86	6	0	0	
TAPPAN ZEE	0	200	158	11	0	0	0	31	18	8	0	
	0	34	50	6	0	0	0	13	10	4	0	
CROTON-HAVERSTRAW	0	102	56	0	0	0	0	0	0	0	0	
	0	19	19	0	0	0	0	0	0	0	0	
INDIAN POINT	0	81	22	0	0	0	0	0	0	0	0	
	0	40	9	0	0	0	0	0	0	0	0	
WEST POINT	0	70	NS	0	0	0	0	4	NS	0	0	
	0	17		0	0	0	0	4		0	0	
CORNWALL	0	58	0	0	0	0	0	0	0	0	0	
	0	26	0	0	0	0	0	0	0	0	0	
POUGRKEEPSIE	0	92	NS	0	0	0	0	0	NS	0	0	
	0	29		0	0	0	0	0		0	0	
HYDE PARK	0	26	NS	0	0	0	0	0	NS	0	0	
	0	23		0	0	0	0	0		0	0	
KINGSTON	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0		0	0	0	0	0		0	0	
SAUGERTIES	0	12	NS	0	0	0	0	5	NS	0	0	
	0	6		0	0	0	0	3		0	0	
CATSKILL	0	7	NS	0	0	0	0	0	NS	0	0	
	0	3		0	0	0	0	0		0	0	
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	
	0	0		0	0	0	0	0		0	0	
TOTAL STANDING CROP	0	923	250	11	0	0	0	352	29	8	0	
	0	139	55	6	0	0	0	87	11	4	0	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC TOMCOD FROM 10NOV87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER				
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE	
YONKERS	NS	NS	NS	6 3	NS	NS	NS	NS	2 2
TAPPAN ZEE	NS	NS	NS	51 25	NS	NS	NS	NS	4 3
CROTON-HAVERSTRAW	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
INDIAN POINT	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
WEST POINT	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
CORNWALL	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
POUGHKEEPSIE	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
HYDE PARK	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
KINGSTON	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
SAUGERTIES	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
CATSKILL	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
ALBANY	NS	NS	NS	0 0	NS	NS	NS	NS	0 0
TOTAL STANDING CROP	NS	NS	NS	57 25	NS	NS	NS	NS	5 3

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 24JUN87 TO STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	NS	NS	NS	0	NS	NS	NS	0
				0				0
TAPPAN ZEE	NS	NS	NS	0	NS	NS	NS	0
				0				0
CROTON-HAVERSTRAW	NS	NS	NS	0	NS	NS	NS	0
				0				0
INDIAN POINT	NS	NS	NS	0	NS	NS	NS	0
				0				0
WEST POINT	NS	NS	NS	0	NS	NS	NS	0
				0				0
CORNWALL	NS	NS	NS	0	NS	NS	NS	0
				0				0
POUGHKEEPSIE	NS	NS	NS	7	NS	NS	NS	1
				5				1
HYDE PARK	NS	NS	NS	16	NS	NS	NS	0
				9				0
KINGSTON	NS	NS	NS	117	NS	NS	NS	0
				45				0
SAUGERTIES	NS	NS	NS	82	NS	NS	NS	0
				46				0
CATSKILL	NS	NS	NS	388	NS	NS	NS	0
				383				0
ALBANY	NS	NS	NS	14	NS	NS	NS	0
				14				0
TOTAL STANDING CROP	NS	NS	NS	623	NS	NS	NS	1
				389				1

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 06JUL87 TO 17JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	39	0	0	0	0
	0	0	0	23	0	0	0	0
TAPPAN ZEE	231	0	44	244	0	0	0	0
	127	0	19	69	0	0	0	0
CROTON-HAVERSTRAW	0	52	85	96	0	0	0	0
	0	22	26	28	0	0	0	0
INDIAN POINT	163	4	14	59	0	0	0	0
	163	4	6	28	0	0	0	0
WEST POINT	0	3	NS	7	0	0	NS	2
	0	3		5	0	0		2
CORNWALL	164	0	0	60	0	0	0	0
	82	0	0	38	0	0	0	0
POUGHKEEPSIE	214	15	NS	24	0	0	NS	0
	214	9		10	0	0		0
HYDE PARK	881	19	NS	27	0	0	NS	0
	453	7		4	0	0		0
KINGSTON	134	42	NS	150	0	0	NS	0
	91	20		87	0	0		0
SAUGERTIES	1095	109	NS	140	0	0	NS	0
	334	26		41	0	0		0
CATSKILL	1486	114	NS	584	0	0	NS	0
	1387	23		373	0	0		0
ALBANY	33	9	NS	128	0	0	NS	0
	33	3		60	0	0		0
TOTAL STANDING CROP	4401	369	144	1559	0	0	0	2
	1531	48	33	400	0	0	0	2

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 20JUL87 TO 30JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	3	3	0	0	0	0	0	0	0	
TAPPAN ZEE	0	5	27	12	42	24	0	0	0	0	0	
CROTON-HAVERSTRAW	68	3	25	10	206	74	0	0	0	0	0	
INDIAN POINT	173	5	9	5	37	16	0	0	0	0	0	
WEST POINT	0	4	NS	NS	4	3	0	0	NS	NS	0	
CORNWALL	183	0	8	2	105	33	0	0	0	0	0	
POUGHKEEPSIE	817	33	NS	NS	126	41	0	0	NS	NS	0	
HYDE PARK	0	8	NS	NS	15	6	0	0	NS	NS	0	
KINGSTON	127	0	NS	NS	79	36	0	0	NS	NS	0	
SAUGERTIES	109	97	NS	NS	168	66	0	2	NS	NS	0	
CATSKILL	382	88	NS	NS	466	124	0	0	NS	NS	0	
ALBANY	18	18	NS	NS	367	118	0	0	NS	NS	0	
TOTAL STANDING CROP	1878	262	71	17	1614	210	0	2	0	0	0	
	903	41										

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 03AUG87 TO 13AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	8	17	8	6	6	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	3	0	3	38	29	0	0	0	0	0	0
INDIAN POINT	0	0	75	0	46	29	0	0	0	0	0	0
WEST POINT	0	0	NS	0	38	22	0	0	0	NS	0	0
CORNWALL	0	5	9	5	630	125	0	0	0	0	0	0
POUGHKEEPSIE	217	13	NS	8	257	109	0	0	0	NS	0	0
HYDE PARK	82	3	NS	3	15	8	0	0	0	NS	0	0
KINGSTON	168	3	NS	3	33	24	0	0	0	NS	0	0
SAUGERTIES	604	16	NS	5	181	25	0	0	0	NS	0	0
CATSKILL	35	7	NS	4	836	209	0	0	0	NS	0	0
ALBANY	0	1	NS	1	237	85	0	0	0	NS	0	0
TOTAL STANDING CROP	1107	57	101	15	2318	286	0	0	0	0	0	0
	451		34									



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 17AUG87 TO 27AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHORE	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	14	0	0	17	9	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	3	23	13	0	0	0	0	0	0	0
INDIAN POINT	172	0	2	2	13	8	0	0	0	0	0	0	0
WEST POINT	0	0	0	NS	19	4	0	0	0	0	NS	0	0
CORNWALL	0	9	1	1	211	84	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	0	NS	85	27	0	0	0	0	NS	0	0
HYDE PARK	0	3	3	NS	9	3	0	0	0	0	NS	0	0
KINGSTON	0	3	3	NS	95	56	0	0	0	0	NS	0	0
SAUGERTIES	198	8	4	NS	415	139	0	0	0	0	NS	0	0
CATSKILL	0	19	9	NS	397	170	0	0	0	0	NS	0	0
ALBANY	19	4	2	NS	489	120	0	0	0	0	NS	0	0
TOTAL STANDING CROP	388	61	4	6	1774	272	0	0	0	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 31AUG87 TO 11SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	58	0	0	74	0	0	0	0
CROTON-HAVERSTRAW	0	4	6	33	0	0	0	0
INDIAN POINT	0	0	0	22	0	0	0	0
WEST POINT	0	0	NS	24	0	0	NS	0
CORNWALL	0	9	0	94	0	0	0	0
POUGHKEEPSIE	633	16	NS	71	0	0	NS	0
HYDE PARK	106	7	NS	14	0	0	NS	0
KINGSTON	0	6	NS	15	0	0	NS	0
SAUGERTIES	0	14	NS	435	0	0	NS	0
CATSKILL	80	9	NS	584	0	0	NS	0
ALBANY	0	6	NS	778	0	0	NS	0
TOTAL STANDING CROP	877	71	6	2145	0	0	0	0
	649	17	4	549	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 14SEP87 TO 24SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	8	6	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	3	3	0	10	7	0	0	0	0	0	0	0
INDIAN POINT	125	0	0	0	4	2	0	0	0	0	0	0	0
WEST POINT	0	0	0	NS	6	3	0	0	0	0	NS	0	0
CORNWALL	0	9	9	1	67	24	0	0	0	0	0	0	0
POUGHKEEPSIE	413	7	7	NS	21	6	0	0	0	0	NS	0	0
HYDE PARK	0	7	5	NS	10	2	0	0	0	0	NS	0	0
KINGSTON	0	2	2	NS	2	2	0	0	0	0	NS	0	0
SAUGERTIES	0	15	8	NS	127	49	0	0	0	0	NS	0	0
CATSKILL	117	4	3	NS	283	77	0	0	0	0	NS	0	0
ALBANY	0	1	1	NS	394	201	0	0	0	0	NS	0	0
TOTAL STANDING CROP	655	49	16	1	932	225	0	0	0	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 28SEP87 TO 08OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	14	62	25	15	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	4	9	12	7	0	0	0	0	0	0	0
INDIAN POINT	0	5	0	46	31	0	0	0	0	0	0	0
WEST POINT	0	9	NS	20	9	0	0	0	NS	0	0	0
CORNWALL	0	10	3	206	67	0	0	0	0	0	0	0
POUGHKEEPSIE	0	15	NS	74	60	0	0	0	NS	0	0	0
HYDE PARK	0	7	NS	17	5	0	0	0	NS	0	0	0
KINGSTON	0	19	NS	50	24	0	0	0	NS	0	0	0
SAUGERTIES	54	10	NS	291	84	0	0	0	NS	0	0	0
CATSKILL	0	24	NS	352	132	0	0	0	NS	0	0	0
ALBANY	0	8	NS	155	91	0	0	0	NS	0	0	0
TOTAL STANDING CROP	54	123	73	1246	207	0	0	0	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 13OCT87 TO 22OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	26	8	12	0	0	0	0
	0	26	5	8	0	0	0	0
TAPPAN ZEE	0	21	40	273	0	0	0	0
	0	21	15	111	0	0	0	0
CROTON-HAVERSTRAW	0	6	3	142	0	0	0	0
	0	4	3	22	0	0	0	0
INDIAN POINT	0	0	0	7	0	0	0	0
	0	0	0	3	0	0	0	0
WEST POINT	0	3	NS	1	0	0	NS	0
	0	3		1	0	0		0
CORNWALL	0	5	1	18	0	0	0	0
	0	5	1	10	0	0	0	0
POUGHKEEPSIE	0	0	NS	7	0	0	NS	0
	0	0		7	0	0		0
HYDE PARK	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
KINGSTON	0	3	NS	0	0	0	NS	0
	0	3		0	0	0		0
SAUGERTIES	0	0	NS	5	0	0	NS	0
	0	0		4	0	0		0
CATSKILL	0	0	NS	2	0	0	NS	0
	0	0		2	0	0		0
ALBANY	0	0	NS	10	0	0	NS	0
	0	0		6	0	0		0
TOTAL STANDING CROP	0	63	52	477	0	0	0	0
	0	34	16	114	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 26OCT87 TO 05NOV87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR					YEARLING AND OLDER				
	FALL SHOALS		BEACH SEINE		STANDARD ERROR	FALL SHOALS		BEACH SEINE		STANDARD ERROR
	CHANNEL	BOTTOM	SHOAL	SHORE		CHANNEL	BOTTOM	SHOAL	SHORE	
YONKERS	75	10	26	57	0	0	0	0	0	0
	75	10	12	18	0	0	0	0	0	0
TAPPAN ZEE	0	15	28	244	0	0	0	0	0	0
	0	7	15	68	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	9	12	134	0	0	0	0	0	0
	0	5	5	35	0	0	0	0	0	0
INDIAN POINT	0	5	2	33	0	0	0	0	0	0
	0	5	2	12	0	0	0	0	0	0
WEST POINT	0	8	NS	4	0	0	NS	NS	0	0
	0	5	NS	3	0	0	NS	NS	0	0
CORNWALL	0	0	6	14	0	0	0	0	0	0
	0	0	3	10	0	0	0	0	0	0
POUGHKEEPSIE	0	51	NS	7	0	0	NS	NS	0	0
	0	27	NS	7	0	0	NS	NS	0	0
HYDE PARK	0	0	NS	<0.5	0	0	NS	NS	0	0
	0	0	NS	<0.5	0	0	NS	NS	0	0
KINGSTON	0	0	NS	0	0	0	NS	NS	0	0
	0	0	NS	0	0	0	NS	NS	0	0
SAUGERTIES	0	0	NS	0	0	0	NS	NS	0	0
	0	0	NS	0	0	0	NS	NS	0	0
CATSKILL	0	0	NS	0	0	0	NS	NS	0	0
	0	0	NS	0	0	0	NS	NS	0	0
ALBANY	0	0	NS	0	0	0	NS	NS	0	0
	0	0	NS	0	0	0	NS	NS	0	0
TOTAL STANDING CROP	75	100	74	495	0	0	0	0	0	0
	75	31	20	80	0	0	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER AMERICAN SHAD FROM 10NOV87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	NS	NS	NS	2	NS	NS	NS	0
				2				0
TAPPAN ZEE	NS	NS	NS	0	NS	NS	NS	0
				0				0
CROTON-HAVERSTRAM	NS	NS	NS	2	NS	NS	NS	0
				2				0
INDIAN POINT	NS	NS	NS	0	NS	NS	NS	0
				0				0
WEST POINT	NS	NS	NS	0	NS	NS	NS	0
				0				0
CORNWALL	NS	NS	NS	0	NS	NS	NS	0
				0				0
POUGHKEEPSIE	NS	NS	NS	0	NS	NS	NS	0
				0				0
HYDE PARK	NS	NS	NS	0	NS	NS	NS	0
				0				0
KINGSTON	NS	NS	NS	0	NS	NS	NS	0
				0				0
SAUGERTIES	NS	NS	NS	0	NS	NS	NS	0
				0				0
CATSKILL	NS	NS	NS	0	NS	NS	NS	0
				0				0
ALBANY	NS	NS	NS	0	NS	NS	NS	0
				0				0
TOTAL STANDING CROP	NS	NS	NS	3	NS	NS	NS	0
				2				0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 24JUN87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	NS	NS	NS	0	NS	NS	NS	0
TAPPAN ZEE	NS	NS	NS	0	NS	NS	NS	0
CROTON-HAVERSTRAW	NS	NS	NS	0	NS	NS	NS	0
INDIAN POINT	NS	NS	NS	0	NS	NS	NS	0
WEST POINT	NS	NS	NS	0	NS	NS	NS	0
CORNWALL	NS	NS	NS	0	NS	NS	NS	0
POUGHKEEPSIE	NS	NS	NS	0	NS	NS	NS	0
HYDE PARK	NS	NS	NS	0	NS	NS	NS	0
KINGSTON	NS	NS	NS	0	NS	NS	NS	0
SAUGERTIES	NS	NS	NS	0	NS	NS	NS	0
CATSKILL	NS	NS	NS	0	NS	NS	NS	0
ALBANY	NS	NS	NS	0	NS	NS	NS	0
TOTAL STANDING CROP	NS	NS	NS	0	NS	NS	NS	0



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 06JUL87 TO 17JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	3	3	0	0	0	0	0	0	0	2	2
INDIAN POINT	642	20	2	2	0	0	0	0	0	0	0	0
WEST POINT	961	35	NS	NS	1	1	0	0	NS	NS	0	0
CORNWALL	678	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	4222	23	NS	NS	10	6	0	0	NS	NS	0	0
HYDE PARK	2678	39	NS	NS	1	<0.5	0	0	NS	NS	0	0
KINGSTON	402	256	NS	NS	0	0	0	0	NS	NS	0	0
SAUGERTIES	6718	569	NS	NS	12	8	0	0	NS	NS	0	0
CATSKILL	2255	708	NS	NS	214	204	0	0	NS	NS	0	0
ALBANY	16	117	NS	NS	45	24	0	0	NS	NS	0	0
TOTAL STANDING CROP	18573	1768	2	2	283	205	0	0	0	0	0	2
	4779	362										

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 20JUL87 TO 30JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	105	0	13	0	0	0	0	0	0	0	0	0
	105	0	9	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	18	15	0	0	0	0	0	0	0	0	0
	0	12	9	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	53	6	15	0	0	0	0	0	0	0	0
	0	22	4	10	0	0	0	0	0	0	0	0
INDIAN POINT	988	14	2	0	0	0	0	0	0	0	0	0
	601	9	2	0	0	0	0	0	0	0	0	0
WEST POINT	157	0	NS	113	0	0	0	0	NS	0	0	0
	157	0	0	92	0	0	0	0	0	0	0	0
CORNWALL	88	5	16	218	0	0	0	0	0	0	0	0
	88	5	7	174	0	0	0	0	0	0	0	0
POUGHKEEPSIE	4757	132	NS	216	0	0	0	0	NS	6	6	6
	3447	92	0	115	0	0	0	0	0	0	0	0
HYDE PARK	2223	237	NS	25	0	0	0	0	NS	0	0	0
	1506	123	0	12	0	0	0	0	0	0	0	0
KINGSTON	9515	378	NS	22	0	0	0	0	NS	0	0	0
	3471	139	0	18	0	0	0	0	0	0	0	0
SAUGERTIES	6107	1857	NS	131	0	0	0	0	NS	0	0	0
	2912	461	0	59	0	0	0	0	0	0	0	0
CATSKILL	9077	2319	NS	1846	0	0	0	0	NS	0	0	0
	5265	414	0	1685	0	0	0	0	0	0	0	0
ALBANY	162	556	NS	705	0	0	0	0	NS	0	0	0
	162	422	0	428	0	0	0	0	0	0	0	0
TOTAL STANDING CROP	33180	5569	51	3290	0	0	0	0	0	6	6	6
	7926	778	15	1755	0	0	0	0	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 03AUG87 TO 13AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	31	0	0	2	2	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	28	0	0	2	2	0	0	0	0	0	0
INDIAN POINT	356	0	2	2	118	118	0	0	0	0	0	0
WEST POINT	166	0	NS	NS	177	155	0	0	0	NS	0	0
CORNWALL	81	99	40	17	233	49	81	81	0	0	0	0
POUGHKEEPSIE	3041	1052	NS	NS	1476	1246	0	0	0	NS	0	0
HYDE PARK	4494	88	NS	NS	106	43	0	0	0	NS	0	0
KINGSTON	2548	221	NS	NS	53	24	0	0	0	NS	0	0
SAUGERTIES	14420	1080	NS	NS	622	141	0	0	0	NS	0	0
CATSKILL	2191	945	NS	NS	1308	789	0	0	3	NS	0	0
ALBANY	15	84	NS	NS	301	222	0	0	0	NS	0	0
TOTAL STANDING CROP	27312	3628	42	17	4398	1512	81	81	3	3	0	0
	9374	559										

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 17AUG87 TO 27AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	20	11	0	0	0	0	12	0	0	0	
	0	12	5	0	0	0	0	12	0	0	0	
TAPPAN ZEE	0	6	4	0	0	0	0	0	0	0	0	
	0	6	4	0	0	0	0	0	0	0	0	
CROTON-HAVERSTRAM	0	25	0	0	0	0	0	0	0	0	0	
	0	14	0	0	0	0	0	0	0	0	0	
INDIAN POINT	0	0	4	0	0	0	0	0	0	0	0	
	0	0	4	0	0	0	0	0	0	0	0	
WEST POINT	164	3	NS	27	0	0	0	0	NS	0	0	
	164	3		18	0	0	0	0		0	0	
CORNWALL	347	142	45	186	0	0	0	0	0	0	0	
	174	60	27	145	0	0	0	0	0	0	0	
POUGHKEEPSIE	1400	347	NS	2435	0	0	0	0	NS	0	0	
	1400	103		1406	0	0	0	0		0	0	
HYDE PARK	3518	160	NS	278	0	0	0	0	NS	0	0	
	3022	32		148	0	0	0	0		0	0	
KINGSTON	1114	868	NS	170	0	0	0	0	NS	0	0	
	452	290		105	0	0	0	0		0	0	
SAUGERTIES	7706	1307	NS	2360	0	0	0	3	NS	0	0	
	6611	240		1688	0	0	0	3		0	0	
CATSKILL	382	1067	NS	864	0	0	0	0	NS	0	0	
	142	235		677	0	0	0	0		0	0	
ALBANY	1013	185	NS	619	0	0	0	0	NS	0	0	
	1013	105		466	0	0	0	0		0	0	
TOTAL STANDING CROP	15643	4130	63	6940	0	0	0	15	0	0	0	
	7490	472	28	2357	0	0	0	12	0	0	0	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 31AUG87 TO 11SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER							
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE				
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE			
YONKERS	0	0	0	0	3	3	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	3	3	3	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	6	6	0	0	0	0	0	0	0	0
WEST POINT	0	0	0	NS	135	84	0	0	0	0	NS	NS	0	0
CORNWALL	0	24	14	4	67	31	0	0	0	0	0	0	0	0
POUGHKEEPSIE	211	79	33	NS	35	32	0	0	0	0	NS	NS	0	0
HYDE PARK	1258	209	84	NS	78	66	0	0	0	0	NS	NS	0	0
KINGSTON	2226	151	77	NS	84	33	0	0	0	0	NS	NS	0	0
SAUGERTIES	223	1171	317	NS	1352	668	0	0	0	0	NS	NS	0	0
CATSKILL	1495	1472	405	NS	476	217	0	0	0	3	NS	NS	0	0
ALBANY	0	595	299	NS	805	569	0	0	0	0	NS	NS	0	0
TOTAL STANDING CROP	5413	3705	607	6	3042	912	0	0	0	6	4	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 14SEP87 TO 24SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	11	0	0	0	0	0	0
	0	11	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
INDIAN POINT	145	0	0	4	0	0	2	0
	145	0	0	2	0	0	2	0
WEST POINT	0	14	NS	81	0	0	NS	0
	0	4		52	0	0		0
CORNWALL	160	5	3	206	0	0	0	0
	160	5	3	81	0	0	0	0
POUGHKEEPSIE	63765	231	NS	6	0	0	NS	0
	53696	112		6	0	0		0
HYDE PARK	10667	228	NS	390	0	0	NS	0
	3213	91		214	0	0		0
KINGSTON	9355	595	NS	2328	0	0	NS	0
	4255	104		1146	0	0		0
SAUGERTIES	4009	647	NS	882	0	0	NS	0
	3804	123		456	0	0		0
CATSKILL	8095	479	NS	1153	0	0	NS	0
	2507	64		393	0	0		0
ALBANY	673	90	NS	1184	0	0	NS	4
	213	35		495	0	0		4
TOTAL STANDING CROP	96869	2300	3	6233	0	0	2	4
	54153	228	3	1406	0	0	2	4

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 28SEP87 TO 08OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	164	9	15	15	0	0	0	0	0	0	0	0	0
	101	9	8	8	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	2753	137	1341	1341	121	121	0	0	4	4	0	0	0
	1498	38	819	819	111	111	0	0	4	4	0	0	0
CROTON-HAVERSTRAW	625	511	669	669	52	52	0	0	0	0	0	0	0
	328	171	219	219	43	43	0	0	0	0	0	0	0
INDIAN POINT	829	2364	91	91	2744	2744	0	0	0	0	0	0	0
	623	1999	77	77	2701	2701	0	0	0	0	0	0	0
WEST POINT	2206	231	NS	NS	70	70	0	0	NS	NS	0	0	0
	1180	85			60	60	0	0			0	0	0
CORNWALL	0	1184	84	84	1019	1019	0	0	0	0	0	0	0
	0	526	77	77	480	480	0	0	0	0	0	0	0
POUGHKEEPSIE	6609	476	NS	NS	209	209	0	0	NS	NS	0	0	0
	3316	132			97	97	0	0			0	0	0
HYDE PARK	6914	272	NS	NS	531	531	0	0	NS	NS	0	0	0
	3642	58			485	485	0	0			0	0	0
KINGSTON	3431	654	NS	NS	2459	2459	0	0	NS	NS	0	0	0
	1771	175			686	686	0	0			0	0	0
SAUGERTIES	4305	253	NS	NS	659	659	0	0	NS	NS	0	0	0
	2662	40			239	239	0	0			0	0	0
CATSKILL	167	240	NS	NS	1251	1251	0	0	NS	NS	0	0	0
	81	68			366	366	0	0			0	0	0
ALBANY	128	36	NS	NS	2104	2104	0	0	NS	NS	0	0	0
	47	15			735	735	0	0			0	0	0
TOTAL STANDING CROP	28132	6367	2200	2200	11219	11219	0	0	4	4	0	0	0
	6216	2090	855	855	2998	2998	0	0			4	4	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 13OCT87 TO 22OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	133	347	109	109	5	5	0	0	0	0	0	0
	133	137	42	42	5	5	0	0	0	0	0	0
TAPPAN ZEE	0	2639	575	575	1178	1178	0	0	0	0	0	0
	0	672	163	163	594	594	0	0	0	0	0	0
CROTON - HAVERSTRAM	0	831	473	473	3465	3465	0	0	3	3	0	0
	0	230	102	102	1212	1212	0	0	0	0	0	0
INDIAN POINT	9424	168	270	270	122	122	0	0	0	0	0	0
	4462	58	254	254	94	94	0	0	0	0	0	0
WEST POINT	6568	127	NS	NS	1	1	0	0	NS	NS	0	0
	4150	29			1	1	0	0			0	0
CORNWALL	79	714	370	370	94	94	0	0	0	0	0	0
	79	169	110	110	88	88	0	0	0	0	0	0
POUGHKEEPSIE	422	233	NS	NS	75	75	0	0	NS	NS	0	0
	211	73			62	62	0	0			0	0
HYDE PARK	607	64	NS	NS	1	1	0	0	NS	NS	0	0
	411	13			1	1	0	0			0	0
KINGSTON	425	133	NS	NS	269	269	0	0	NS	NS	0	0
	331	24			167	167	0	0			0	0
SAUGERTIES	378	264	NS	NS	68	68	0	0	NS	NS	0	0
	170	65			68	68	0	0			0	0
CATSKILL	0	40	NS	NS	2	2	0	0	NS	NS	0	0
	0	18			2	2	0	0			0	0
ALBANY	0	7	NS	NS	17	17	0	0	NS	NS	0	0
	0	5			7	7	0	0			0	0
TOTAL STANDING CROP	18037	5566	1796	1796	5297	5297	0	0	3	3	0	0
	6124	753	339	339	1369	1369	0	0			0	0



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 26OCT87 TO 05NOV87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	1316	129	37	37	214	98	0	0	0	0	0	0
	1032	86	7	7			0	0	0	0	0	0
TAPPAN ZEE	1779	80	185	185	4532		0	0	0	0	0	0
	1212	25	49	49	4166		0	0	0	0	0	0
CROTON-HAVERSTRAW	954	34	84	84	42		0	0	0	0	0	0
	954	11	34	34	14		0	0	0	0	0	0
INDIAN POINT	343	199	43	43	665		0	0	0	0	0	0
	343	96	20	20	231		0	0	0	0	0	0
WEST POINT	2510	139	NS	NS	11		0	0	NS	NS	0	0
	500	54			7		0	0			0	0
CORNWALL	176	133	224	224	183		0	0	0	0	0	0
	176	38	115	115	66		0	0	0	0	0	0
POUGHKEEPSIE	1661	642	NS	NS	23		0	0	NS	NS	0	0
	1106	343			19		0	0			0	0
HYDE PARK	809	49	NS	NS	10		0	0	NS	NS	0	0
	694	13			8		0	0			0	0
KINGSTON	343	24	NS	NS	177		0	0	NS	NS	0	0
	136	16			102		0	0			0	0
SAUGERTIES	578	11	NS	NS	12		0	0	NS	NS	0	0
	509	9			12		0	0			0	0
CATSKILL	0	0	NS	NS	0		0	0	NS	NS	0	0
	0	0			0		0	0			0	0
ALBANY	0	0	NS	NS	0		0	0	NS	NS	0	0
	0	0			0		0	0			0	0
TOTAL STANDING CROP	10468	1440	573	573	5869		0	0	0	0	0	0
	2413	374	131	131	4176		0	0			0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BLUEBACK HERRING FROM 10NOV87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR					YEARLING AND OLDER						
	FALL SHOALS		BEACH SEINE		SHORE	FALL SHOALS		BEACH SEINE		SHORE		
	CHANNEL	BOTTOM	SHOAL	SHOAL		CHANNEL	BOTTOM	SHOAL	SHOAL			
YONKERS	NS	NS	NS	NS	8	NS	NS	NS	NS	NS	0	0
TAPPAN ZEE	NS	NS	NS	NS	0	NS	NS	NS	NS	NS	0	0
CROTON-HAVERSTRAW	NS	NS	NS	NS	54	NS	NS	NS	NS	NS	0	0
INDIAN POINT	NS	NS	NS	NS	34	NS	NS	NS	NS	NS	0	0
WEST POINT	NS	NS	NS	NS	0	NS	NS	NS	NS	NS	0	0
CORNWALL	NS	NS	NS	NS	1	NS	NS	NS	NS	NS	0	0
POUGHKEEPSIE	NS	NS	NS	NS	1	NS	NS	NS	NS	NS	0	0
HYDE PARK	NS	NS	NS	NS	5	NS	NS	NS	NS	NS	0	0
KINGSTON	NS	NS	NS	NS	4	NS	NS	NS	NS	NS	0	0
SAUGERTIES	NS	NS	NS	NS	7	NS	NS	NS	NS	NS	0	0
CATSKILL	NS	NS	NS	NS	4	NS	NS	NS	NS	NS	0	0
ALBANY	NS	NS	NS	NS	0	NS	NS	NS	NS	NS	0	0
TOTAL STANDING CROP	NS	NS	NS	NS	0	NS	NS	NS	NS	NS	0	0
					74						74	34
					34						34	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 24JUN87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	NS	NS	NS	0	NS	NS	NS	0
				0				0
TAPPAN ZEE	NS	NS	NS	0	NS	NS	NS	5
				0				4
CROTON-HAVERSTRAM	NS	NS	NS	0	NS	NS	NS	2
				0				2
INDIAN POINT	NS	NS	NS	0	NS	NS	NS	0
				0				0
WEST POINT	NS	NS	NS	0	NS	NS	NS	0
				0				0
CORNWALL	NS	NS	NS	0	NS	NS	NS	0
				0				0
POUGHKEEPSIE	NS	NS	NS	0	NS	NS	NS	0
				0				0
HYDE PARK	NS	NS	NS	0	NS	NS	NS	0
				0				0
KINGSTON	NS	NS	NS	2	NS	NS	NS	0
				2				0
SAUGERTIES	NS	NS	NS	2	NS	NS	NS	0
				2				0
CATSKILL	NS	NS	NS	0	NS	NS	NS	0
				0				0
ALBANY	NS	NS	NS	0	NS	NS	NS	0
				0				0
TOTAL STANDING CROP	NS	NS	NS	4	NS	NS	NS	8
				3				4

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 06JUL87 TO 17JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR					YEARLING AND OLDER					
	FALL SHOALS		BEACH SEINE		SHOAL	FALL SHOALS		BEACH SEINE		SHOAL	
	CHANNEL	BOTTOM	SHOAL	SHORE		CHANNEL	BOTTOM	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	2	2	0	0	4	4	0	0
CROTON-HAVERSTRAW	0	3	3	2	2	3	3	5	4	0	0
INDIAN POINT	163	0	2	4	4	0	0	0	0	0	0
WEST POINT	0	0	NS	8	4	0	0	NS	0	0	0
CORNWALL	79	5	1	44	22	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	0	NS	0	0	0
HYDE PARK	1041	15	NS	2	1	0	0	NS	0	0	0
KINGSTON	1155	33	NS	3	2	0	0	NS	0	0	0
SAUGERTIES	1431	85	NS	35	15	0	0	NS	0	0	0
CATSKILL	75	76	NS	4	3	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0	1	NS	0	0	0
TOTAL STANDING CROP	3944	217	7	105	27	0	0	9	5	0	0
	1000	50	4								

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 20JUL87 TO 30JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	15	11	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	3	3	6	27	23	0	0	0	0	0	0
INDIAN POINT	0	9	9	4	0	0	0	0	0	0	0	0
WEST POINT	0	0	0	NS	2	2	0	0	0	NS	0	0
CORNWALL	88	0	0	17	2	2	0	0	0	0	0	0
POUGHKEEPSIE	381	8	8	NS	0	0	0	0	0	NS	0	0
HYDE PARK	1677	14	5	NS	1	<0.5	0	0	4	NS	0	0
KINGSTON	891	10	5	NS	10	8	43	20	NS	NS	0	0
SAUGERTIES	106	79	25	NS	41	22	0	13	NS	NS	0	0
CATSKILL	519	45	16	NS	6	4	0	4	NS	NS	0	0
ALBANY	0	5	4	NS	0	0	0	1	NS	NS	0	0
TOTAL STANDING CROP	3662	173	27	27	103	35	43	42	0	0	0	0
	1755	33	9	9			43	14	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 03AUG87 TO 13AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	10	6	6	6	0	0	0	0	2	2	2
CROTON-HAVERSTRAW	0	0	0	0	4	4	0	0	0	0	0	0	0
INDIAN POINT	0	0	9	2	2	2	0	0	0	0	0	0	0
WEST POINT	0	3	NS	3	2	2	0	0	0	NS	0	0	0
CORNWALL	0	5	20	4	4	4	0	0	0	0	0	0	0
POUGHKEEPSIE	0	13	NS	18	17	17	0	0	0	NS	0	0	0
HYDE PARK	0	0	NS	2	2	2	0	0	0	NS	0	0	0
KINGSTON	127	7	NS	29	27	27	0	0	0	NS	0	0	0
SAUGERTIES	219	21	NS	25	16	16	56	0	0	NS	0	0	0
CATSKILL	0	0	NS	8	8	8	0	0	0	NS	0	0	0
ALBANY	0	0	NS	0	0	0	0	0	0	NS	0	0	0
TOTAL STANDING CROP	346	48	39	101	37	37	56	0	0	0	2	2	2
	164	17	9				56						

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEMIFE FROM 17AUG87 TO 27AUG87 . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	4	0	0	0	0
INDIAN POINT	0	0	4	4	0	0	0	0
WEST POINT	149	0	NS	4	0	0	NS	0
CORNWALL	0	10	5	9	0	0	0	0
POUGHKEEPSIE	0	0	NS	7	0	0	NS	0
HYDE PARK	0	12	NS	2	0	4	NS	0
KINGSTON	510	29	NS	10	0	0	NS	0
SAUGERTIES	445	86	NS	62	49	3	NS	0
CATSKILL	0	15	NS	26	0	2	NS	0
ALBANY	19	0	NS	2	0	1	NS	0
TOTAL STANDING CROP	1122	152	9	130	49	11	0	0
	693	45	3	50	49	6	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 31AUG87 TO 11SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	15	11	0	0	0	0	2	2
CROTON-HAVERSTRAW	0	0	5	5	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	10	8	11	11	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	33	26	0	0	0	NS	0	0
CORNWALL	0	5	14	9	7	5	0	0	0	0	0	0
POUGHKEEPSIE	1265	8	NS	NS	0	0	0	0	0	NS	0	0
HYDE PARK	0	0	NS	NS	1	1	0	0	4	NS	0	0
KINGSTON	0	3	NS	NS	7	5	0	0	0	NS	0	0
SAUGERTIES	53	6	NS	NS	21	13	0	0	0	NS	0	0
CATSKILL	0	4	NS	NS	0	0	0	0	0	NS	0	0
ALBANY	0	5	NS	NS	4	4	0	0	0	NS	0	0
TOTAL STANDING CROP	1318	30	29	13	100	34	0	0	4	0	2	2
	1266	12							4	0		



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 14SEP87 TO 24SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR					YEARLING AND OLDER					
	FALL SHOALS		BEACH SEINE		SHOAL	FALL SHOALS		BEACH SEINE		SHOAL	SHORE
	CHANNEL	BOTTOM	SHOAL	SHORE		CHANNEL	BOTTOM	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	4	4	0	0	4	4	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	2	2	0	0	2	2	0	0
WEST POINT	0	0	NS	3	2	171	0	NS	NS	0	0
CORNWALL	0	0	3	16	7	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	0	NS	NS	0	0
HYDE PARK	0	0	NS	5	5	88	0	NS	NS	0	0
KINGSTON	87	11	NS	26	26	0	0	NS	NS	0	0
SAUGERTIES	0	10	NS	2	2	0	0	NS	NS	0	0
CATSKILL	39	4	NS	6	4	0	0	NS	NS	0	0
ALBANY	0	0	NS	2	2	0	0	NS	NS	0	0
TOTAL STANDING CROP	126	25	3	65	28	259	0	6	4	0	0
	67	8	2	28		193					

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 28SEP87 TO 08OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	4	4	0	0
TAPPAN ZEE	96	6	8	8	0	0	0	0	7	5	0	0
CROTON-HAVERSTRAW	61	0	10	10	0	0	0	0	6	4	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	2	1	0	3	NS	NS	0	0
CORNWALL	0	0	0	0	21	17	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	4	3	0	0	NS	NS	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	NS	NS	0	0
KINGSTON	0	17	NS	NS	36	24	0	0	NS	NS	2	2
SAUGERTIES	0	0	NS	NS	4	3	0	0	NS	NS	0	0
CATSKILL	0	0	NS	NS	4	3	0	0	NS	NS	0	0
ALBANY	0	0	NS	NS	0	0	0	0	NS	NS	0	0
TOTAL STANDING CROP	156	23	18	18	71	30	0	0	17	8	2	2
	113	9	9	9								

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 13OCT87 TO 22OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	26	12	12	0	0	0	0	0	0	0	
	0	26	12	12	0	0	0	0	0	0	0	
TAPPAN ZEE	0	63	33	33	9	0	0	0	0	0	0	
	0	55	13	13	5	0	0	0	0	0	0	
CROTON-HAVERSTRAM	84	35	26	26	2	0	0	4	7	0	0	
	84	24	14	14	2	0	0	4	5	0	0	
INDIAN POINT	153	8	2	2	0	0	153	0	0	0	0	
	153	5	2	2	0	0	153	0	0	0	0	
WEST POINT	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	NS	NS	0	0	0	0	NS	0	0	
CORNWALL	0	13	1	1	0	0	0	5	1	0	0	
	0	8	1	1	0	0	0	5	1	0	0	
POUGHKEEPSIE	0	0	NS	NS	6	0	0	0	NS	0	0	
	0	0	NS	NS	6	0	0	0	NS	0	0	
HYDE PARK	72	0	NS	NS	0	0	0	0	NS	0	0	
	72	0	NS	NS	0	0	0	0	NS	0	0	
KINGSTON	0	8	NS	NS	0	0	0	0	NS	0	0	
	0	4	NS	NS	0	0	0	0	NS	0	0	
SAUGERTIES	50	7	NS	NS	0	0	0	0	NS	0	0	
	50	5	NS	NS	0	0	0	0	NS	0	0	
CATSKILL	0	8	NS	NS	0	0	0	0	NS	0	0	
	0	5	NS	NS	0	0	0	0	NS	0	0	
ALBANY	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	NS	NS	0	0	0	0	NS	0	0	
TOTAL STANDING CROP	360	166	74	74	17	153	153	8	8	0	0	
	196	66	23	23	8	153	153	6	5	0	0	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 26OCT87 TO 05NOV87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	239 98	8 8	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
TAPPAN ZEE	47 47	5 5	15 7	6 4	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
CROTON-HAVERSTRAM	0 0	0 0	3 3	4 4	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
INDIAN POINT	0 0	5 5	2 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
WEST POINT	174 174	0 0	NS	0 0	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0
CORNWALL	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
POUGHKEEPSIE	0 0	10 10	NS	0 0	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0
HYDE PARK	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0
KINGSTON	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0
SAUGERTIES	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0
CATSKILL	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0
ALBANY	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0
TOTAL STANDING CROP	460 205	30 15	20 8	10 6	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ALEWIFE FROM 10NOV87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	NS	NS	NS	NS	3	2	NS	NS	NS	NS	0	0
TAPPAN ZEE	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
CROTON-HAVERSTRAW	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
INDIAN POINT	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
WEST POINT	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
CORNWALL	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
POUGHKEEPSIE	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
HYDE PARK	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
KINGSTON	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
SAUGERTIES	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
CATSKILL	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
ALBANY	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
TOTAL STANDING CROP	NS	NS	NS	NS	3	2	NS	NS	NS	NS	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 24-JUN87 TO . . . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	NS	NS	NS	0	NS	NS	NS	47 25
TAPPAN ZEE	NS	NS	NS	0	NS	NS	NS	222 78
CROTON-HAVERSTRAW	NS	NS	NS	0	NS	NS	NS	0 0
INDIAN POINT	NS	NS	NS	0	NS	NS	NS	2 2
WEST POINT	NS	NS	NS	0	NS	NS	NS	1 1
CORNWALL	NS	NS	NS	0	NS	NS	NS	0 0
POUGHKEEPSIE	NS	NS	NS	0	NS	NS	NS	0 0
HYDE PARK	NS	NS	NS	0	NS	NS	NS	0 0
KINGSTON	NS	NS	NS	0	NS	NS	NS	0 0
SAUGERTIES	NS	NS	NS	0	NS	NS	NS	0 0
CATSKILL	NS	NS	NS	0	NS	NS	NS	0 0
ALBANY	NS	NS	NS	0	NS	NS	NS	0 0
TOTAL STANDING CROP	NS	NS	NS	0	NS	NS	NS	271 82

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 06JUL87 TO 17JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	67	6	6324	110	133	0	49	32	14	0	8
	0	44	4	3083								
TAPPAN ZEE	26647	187	620	33809	431	1453	53	90	208	115	115	41
	5668	58	176	14547			35			41		
CROTON-HAVERSTRAW	4107	279	240	150	73	94	2	16	23	8	8	8
	882	110	52	150			2					
INDIAN POINT	3249	14	30	0	30	34	6	18	20	2	2	2
	1079	9	13	0			6					
WEST POINT	5913	11	NS	0	3	NS	1	3	NS	3	3	2
	3299	5		0			1			2		
CORNWALL	27825	5	6	79	0	0	0	0	0	0	0	0
	19063	5	5	79	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS	0	0	NS	0	0	0
	0	0		0			0					
HYDE PARK	0	0	NS	0	0	NS	0	0	NS	0	0	0
	0	0		0			0					
KINGSTON	0	0	NS	0	0	NS	0	0	NS	0	0	0
	0	0		0			0					
SAUGERTIES	93	2	NS	0	0	NS	0	0	NS	0	0	0
	59	2		0			0					
CATSKILL	182	0	NS	0	0	NS	0	0	NS	0	0	0
	182	0		0			0					
ALBANY	0	1	NS	0	0	NS	0	0	NS	0	0	0
	0	1		0			0					
TOTAL STANDING CROP	68017	566	903	40363	646	1714	61	646	1714	142	142	43
	20209	132	184	14871	106	213	35	106	213	43	43	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 20JUL87 TO 30JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	12	9	9	0	0	5037	340	215	0	0	
	0	12	4	4	0	0	2097	66	45	0	0	
TAPPAN ZEE	19933	680	3082	3082	151	151	3958	436	546	45	45	
	9254	131	1002	1002	70	70	2257	109	103	18	18	
CROTON-HAVERSTRAM	23357	3270	1471	1471	4	4	205	438	25	0	0	
	15222	1028	351	351	4	4	205	75	10	0	0	
INDIAN POINT	14416	46	192	192	41	41	0	47	31	0	0	
	4845	13	114	114	41	41	0	16	15	0	0	
WEST POINT	4585	13	NS	NS	0	0	199	3	NS	0	0	
	2489	13	NS	NS	0	0	199	3	NS	0	0	
CORNWALL	18366	53	25	25	0	0	88	0	5	0	0	
	5546	14	15	15	0	0	88	0	5	0	0	
POUGHKEEPSIE	32590	0	NS	NS	0	0	247	0	NS	0	0	
	29283	0	NS	NS	0	0	247	0	NS	0	0	
HYDE PARK	940	3	NS	NS	0	0	0	0	NS	0	0	
	502	3	NS	NS	0	0	0	0	NS	0	0	
KINGSTON	800	13	NS	NS	0	0	0	0	NS	0	0	
	504	8	NS	NS	0	0	0	0	NS	0	0	
SAUGERTIES	274	0	NS	NS	0	0	0	0	NS	0	0	
	130	0	NS	NS	0	0	0	0	NS	0	0	
CATSKILL	164	9	NS	NS	0	0	0	0	NS	0	0	
	104	4	NS	NS	0	0	0	0	NS	0	0	
ALBANY	0	1	NS	NS	0	0	0	0	NS	0	0	
	0	1	NS	NS	0	0	0	0	NS	0	0	
TOTAL STANDING CROP	115426	4100	4780	4780	196	196	9734	1264	822	45	45	
	35154	1037	1068	1068	81	81	3105	149	114	18	18	



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 03AUG87 TO 13AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	45221 16500	1077 474	489 208	0 0	0 0	0 0	505 505	334 176	160 80	0 0	0 0	
TAPPAN ZEE	73526 32397	581 170	2810 504	127 119	0 0	0 0	177 177	88 26	77 21	0 0	0 0	
CROTON-HAVERSTRAW	9641 6397	590 252	2376 423	113 111	0 0	0 0	0 0	39 18	17 9	0 0	0 0	
INDIAN POINT	109315 95775	95 46	35 13	26 24	0 0	0 0	2537 1489	4 4	13 8	0 0	0 0	
WEST POINT	10819 6499	58 17	NS	0 0	0 0	0 0	238 238	57 21	NS	0 0	0 0	
CORNWALL	6551 2558	565 207	37 11	0 0	0 0	0 0	81 81	14 10	16 5	0 0	0 0	
POUGHKEEPSIE	7186 6223	48 34	NS	0 0	0 0	0 0	0 0	24 17	NS	0 0	0 0	
HYDE PARK	2302 965	3 3	NS	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0	
KINGSTON	2324 1095	0 0	NS	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0	
SAUGERTIES	595 264	0 0	NS	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0	
CATSKILL	193 72	2 2	NS	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0	
ALBANY	0 0	0 0	NS	0 0	0 0	0 0	0 0	0 0	NS	0 0	0 0	
TOTAL STANDING CROP	267674 103080	3018 603	5747 691	266 165	0 0	0 0	3538 1602	560 181	283 84	0 0	0 0	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 17AUG87 TO 27AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	56711 18631	343 60	266 111	266 111	5 3		282 187	21 13	20 11	0 0		
TAPPAN ZEE	76565 26944	1423 226	5497 714	5497 714	392 181		118 77	56 26	46 14	0 0		
CROTON-HAVERSTRAW	32066 10507	3586 1504	2267 504	2267 504	12 5		60 60	22 13	13 9	0 0		
INDIAN POINT	56055 42691	964 307	400 161	400 161	0 0		32343 31319	4 4	6 6	0 0		
WEST POINT	7824 2857	270 82	NS	NS	222 222		164 164	77 16	NS	0 0		
CORNWALL	57375 27536	977 259	119 39	119 39	0 0		349 349	82 28	23 11	0 0		
POUGHKEEPSIE	15533 4297	102 53	NS	NS	0 0		3057 575	9 9	NS	0 0		
HYDE PARK	699 461	7 4	NS	NS	0 0		0 0	7 5	NS	0 0		
KINGSTON	4853 640	31 9	NS	NS	0 0		379 163	5 4	NS	0 0		
SAUGERTIES	327 270	0 0	NS	NS	0 0		0 0	0 0	NS	0 0		
CATSKILL	118 81	2 2	NS	NS	0 0		0 0	0 0	NS	0 0		
ALBANY	19 19	0 0	NS	NS	0 0		0 0	0 0	NS	0 0		
TOTAL STANDING CROP	308144 61576	7705 1578	8549 896	8549 896	630 286		36752 31328	283 47	109 24	0 0		

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 31AUG87 TO 11SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	262085	3685	4242	4242	1065	1065	545	75	6	6	45	
	76231	705	760	760	881	881	334	32	4	4	26	
TAPPAN ZEE	93145	1387	3478	3478	1149	1149	286	7	8	8	4	
	13826	347	586	586	710	710	121	7	6	6	3	
CROTON-HAVERSTRAW	86961	1185	3354	3354	12	12	259	0	17	17	0	
	38905	452	562	562	12	12	144	0	9	9	0	
INDIAN POINT	6587	199	40	40	2	2	266	5	11	11	0	
	1886	108	10	10	2	2	135	5	3	3	0	
WEST POINT	14932	26	NS	NS	94	94	740	3	NS	NS	0	
	4113	19			94	94	370	3			0	
CORNWALL	10219	415	5	5	0	0	0	10	0	0	0	
	2946	304	3	3	0	0	0	10	0	0	0	
POUGHKEEPSIE	17868	170	NS	NS	0	0	0	0	NS	NS	0	
	10517	97			0	0	0	0			0	
HYDE PARK	6894	9	NS	NS	0	0	0	0	NS	NS	0	
	3748	6			0	0	0	0			0	
KINGSTON	2300	8	NS	NS	0	0	0	0	NS	NS	0	
	1423	4			0	0	0	0			0	
SAUGERTIES	0	2	NS	NS	0	0	0	0	NS	NS	0	
	0	2			0	0	0	0			0	
CATSKILL	0	0	NS	NS	0	0	0	0	NS	NS	0	
	0	0			0	0	0	0			0	
ALBANY	0	0	NS	NS	0	0	0	0	NS	NS	0	
	0	0			0	0	0	0			0	
TOTAL STANDING CROP	500991	7087	11120	11120	2321	2321	2095	101	42	42	49	
	87589	967	1112	1112	1135	1135	549	35	12	12	26	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 14SEP87 TO 24SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	49917	1454	665	38	38		475	46	8	8	0	
	19678	534	157	38	38		291	21	8	8	0	
TAPPAN ZEE	48400	5136	2746	203	203		407	0	3	3	0	
	15228	1874	393	101	101		201	0	3	3	0	
CROTON-HAVERSTRAM	4529	491	1509	0	0		0	3	3	3	0	
	1834	180	358	0	0		0	3	3	3	0	
INDIAN POINT	5718	428	145	2	2		125	10	0	0	0	
	1934	177	93	2	2		125	6	0	0	0	
WEST POINT	31998	56	NS	0	0		0	8	NS	NS	0	
	8223	28		0	0		0	8			0	
CORNWALL	13456	44	3	5	5		0	5	0	0	0	
	10666	22	3	5	5		0	5	0	0	0	
POUGHKEEPSIE	2088	15	NS	0	0		0	0	NS	NS	0	
	892	9		0	0		0	0			0	
HYDE PARK	1565	14	NS	0	0		0	0	NS	NS	0	
	869	14		0	0		0	0			0	
KINGSTON	1337	0	NS	265	265		0	0	NS	NS	0	
	413	0		265	265		0	0			0	
SAUGERTIES	60	0	NS	0	0		0	0	NS	NS	0	
	60	0		0	0		0	0			0	
CATSKILL	39	0	NS	0	0		0	0	NS	NS	0	
	39	0		0	0		0	0			0	
ALBANY	19	0	NS	0	0		0	0	NS	NS	0	
	19	0		0	0		0	0			0	
TOTAL STANDING CROP	159126	7639	5068	513	513		1008	73	15	15	0	
	28449	1965	562	286	286		376	25	10	10	0	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 28SEP87 TO 08OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	118195 56506	783 372	240 85	3 3			423 138	29 20	11 5		2 2	
TAPPAN ZEE	35753 4877	295 97	1109 233	89 33			439 232	6 6	16 9		2 2	
CROTON-HAVERSTRAW	10159 7271	100 39	148 35	29 22			0 0	0 0	12 7		0 0	
INDIAN POINT	1307 906	91 44	6 3	804 626			0 0	0 0	0 0		0 0	
WEST POINT	469 277	12 6	NS	9 9			0 0	0 0	NS NS		1 1	
CORNWALL	1665 1265	20 10	14 12	69 44			0 0	0 0	0 0		0 0	
POUGHKEEPSIE	0 0	22 15	NS	0 0			0 0	0 0	NS NS		0 0	
HYDE PARK	0 0	7 4	NS	0 0			0 0	0 0	NS NS		0 0	
KINGSTON	112 112	0 0	NS	246 148			0 0	0 0	NS NS		0 0	
SAUGERTIES	112 112	0 0	NS	0 0			0 0	0 0	NS NS		0 0	
CATSKILL	0 0	0 0	NS	0 0			0 0	0 0	NS NS		0 0	
ALBANY	0 0	0 0	NS	0 0			0 0	0 0	NS NS		0 0	
TOTAL STANDING CROP	167771 57202	1330 389	1517 251	1249 646			862 270	36 21	38 13		4 3	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 13OCT87 TO 22OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	11602 4614	100 60	28 6	0 0	0 0	0 0	242 149	11 11	0 0	0 0	0 0	0 0
TAPPAN ZEE	2775 1232	66 32	30 15	4 3	0 0	0 0	77 77	6 6	0 0	0 0	0 0	0 0
CROTON-HAVERSTRAW	0 0	24 10	33 10	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
INDIAN POINT	434 16	0 0	0 0	4 4	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
WEST POINT	3622 2485	3 3	NS NS	0 0	0 0	0 0	0 0	0 0	NS NS	0 0	0 0	0 0
CORNWALL	159 159	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
POUGHKEEPSIE	0 0	0 0	NS NS	0 0	0 0	0 0	0 0	0 0	NS NS	0 0	0 0	0 0
HYDE PARK	0 0	0 0	NS NS	0 0	0 0	0 0	0 0	0 0	NS NS	0 0	0 0	0 0
KINGSTON	0 0	0 0	NS NS	0 0	0 0	0 0	0 0	0 0	NS NS	0 0	0 0	0 0
SAUGERTIES	0 0	0 0	NS NS	0 0	0 0	0 0	0 0	0 0	NS NS	0 0	0 0	0 0
CATSKILL	0 0	0 0	NS NS	0 0	0 0	0 0	0 0	0 0	NS NS	0 0	0 0	0 0
ALBANY	0 0	0 0	NS NS	0 0	0 0	0 0	0 0	0 0	NS NS	0 0	0 0	0 0
TOTAL STANDING CROP	18593 5386	194 69	92 20	7 5	0 0	0 0	319 168	18 13	0 0	0 0	0 0	0 0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 26OCT87 TO 05NOV87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	7997 2134	0	0	0	23 23	23 23	76 76	0	0	0	0	2	2
TAPPAN ZEE	419 207	0	3	3	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	33 33	33 33	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	NS	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	NS	NS	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	NS	NS	0	0
KINGSTON	0	0	NS	NS	0	0	0	0	0	NS	NS	0	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	NS	NS	0	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	NS	NS	0	0
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	NS	0	0
TOTAL STANDING CROP	8416 2144	0	3	3	56 40	56 40	76 76	0	0	0	0	2	2

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER BAY ANCHOVY FROM 10NOV87 TO . . . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR					YEARLING AND OLDER						
	FALL SHOALS		BEACH SEINE		SHORE	FALL SHOALS		BEACH SEINE		SHORE		
	CHANNEL	BOTTOM	SHOAL	SHOAL		CHANNEL	BOTTOM	SHOAL	SHOAL			
YONKERS	NS	NS	NS	NS	15 7	NS	NS	NS	NS	NS	NS	0 0
TAPPAN ZEE	NS	NS	NS	NS	0 0	NS	NS	NS	NS	NS	NS	0 0
CROTON-HAVERSTRAW	NS	NS	NS	NS	0 0	NS	NS	NS	NS	NS	NS	0 0
INDIAN POINT	NS	NS	NS	NS	0 0	NS	NS	NS	NS	NS	NS	0 0
WEST POINT	NS	NS	NS	NS	0 0	NS	NS	NS	NS	NS	NS	0 0
CORNWALL	NS	NS	NS	NS	0 0	NS	NS	NS	NS	NS	NS	0 0
POUGHKEEPSIE	NS	NS	NS	NS	0 0	NS	NS	NS	NS	NS	NS	0 0
HYDE PARK	NS	NS	NS	NS	0 0	NS	NS	NS	NS	NS	NS	0 0
KINGSTON	NS	NS	NS	NS	0 0	NS	NS	NS	NS	NS	NS	0 0
SAUGERTIES	NS	NS	NS	NS	0 0	NS	NS	NS	NS	NS	NS	0 0
CATSKILL	NS	NS	NS	NS	0 0	NS	NS	NS	NS	NS	NS	0 0
ALBANY	NS	NS	NS	NS	0 0	NS	NS	NS	NS	NS	NS	0 0
TOTAL STANDING CROP	NS	NS	NS	NS	15 7	NS	NS	NS	NS	NS	NS	0 0



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 24-JUN-87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	NS	NS	NS	0	NS	NS	NS	0
				0				0
TAPPAN ZEE	NS	NS	NS	0	NS	NS	NS	0
				0				0
CROTON-HAVERSTRAW	NS	NS	NS	0	NS	NS	NS	0
				0				0
INDIAN POINT	NS	NS	NS	0	NS	NS	NS	0
				0				0
WEST POINT	NS	NS	NS	0	NS	NS	NS	0
				0				0
CORNWALL	NS	NS	NS	0	NS	NS	NS	0
				0				0
POUGHKEEPSIE	NS	NS	NS	0	NS	NS	NS	0
				0				0
HYDE PARK	NS	NS	NS	0	NS	NS	NS	0
				0				0
KINGSTON	NS	NS	NS	0	NS	NS	NS	0
				0				0
SAUGERTIES	NS	NS	NS	0	NS	NS	NS	0
				0				0
CATSKILL	NS	NS	NS	0	NS	NS	NS	0
				0				0
ALBANY	NS	NS	NS	0	NS	NS	NS	0
				0				0
TOTAL STANDING CROP	NS	NS	NS	0	NS	NS	NS	0
				0				0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 06JUL87 TO 17JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	3	3	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	11	47	16	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAN	0	21	15	7	0	0	0	0	0	0	0	0
INDIAN POINT	0	4	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	NS	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	NS	0	0
KINGSTON	0	0	NS	NS	0	0	0	0	0	NS	0	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	NS	0	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	NS	0	0
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	0	36	65	18	0	0	0	0	0	0	0	0
	0	14										

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAFISH FROM 20JUL87 TO 30JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	37	19	0	0	0	0	0
	0	24	8	0	0	0	0	0
TAPPAN ZEE	0	0	166	0	0	0	0	0
	0	0	56	0	0	0	0	0
CROTON-HAVERSTRAW	0	9	0	0	0	0	0	0
	0	4	0	0	0	0	0	0
INDIAN POINT	345	212	2	0	0	0	0	0
	345	64	2	0	0	0	0	0
WEST POINT	157	0	NS	0	0	0	NS	0
	157	0		0	0	0		0
CORNWALL	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
HYDE PARK	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
KINGSTON	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
SAUGERTIES	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
CATSKILL	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
ALBANY	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
TOTAL STANDING CROP	503	258	187	0	0	0	0	0
	380	69	56	0	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 03AUG87 TO 13AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	160	51	0	0	10	4	0
	0	121	29	0	0	10	4	0
TAPPAN ZEE	0	38	97	0	0	0	4	0
	0	16	70	0	0	0	4	0
CROTON-HAVERSTRAW	0	137	0	0	0	3	3	0
	0	63	0	0	0	3	3	0
INDIAN POINT	0	81	13	0	0	0	0	0
	0	53	6	0	0	0	0	0
WEST POINT	0	290	NS	0	0	0	NS	0
	0	51		0	0	0		0
CORNWALL	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
HYDE PARK	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
KINGSTON	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
SAUGERTIES	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
CATSKILL	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
ALBANY	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
TOTAL STANDING CROP	0	706	161	0	0	13	11	0
	0	156	76	0	0	11	7	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 17AUG87 TO 27AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	96	82	47	0	0	0	0	0	0	0	0	0
	96	48	14	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	51	101	0	0	0	0	0	0	0	0	0
	0	17	36	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	61	18	28	0	0	0	0	0	0	0	0	0
	61	15	17	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	54	16	0	0	0	0	0	0	0	0	0
	0	23	9	0	0	0	0	0	0	0	0	0
WEST POINT	0	90	NS	0	0	0	0	0	NS	0	0	0
	0	67		0	0	0	0	0		0	0	0
CORNWALL	0	20	0	0	0	0	0	0	0	0	0	0
	0	10	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0		0	0	0	0	0		0	0	0
HYDE PARK	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0		0	0	0	0	0		0	0	0
KINGSTON	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0		0	0	0	0	0		0	0	0
SAUGERTIES	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0		0	0	0	0	0		0	0	0
CATSKILL	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0		0	0	0	0	0		0	0	0
ALBANY	0	0	NS	0	0	0	0	0	NS	0	0	0
	0	0		0	0	0	0	0		0	0	0
TOTAL STANDING CROP	156	317	191	0	0	0	0	0	0	0	0	0
	113	89	43	0	0	0	0	0	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 31AUG87 TO 11SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	1330	285	145	0	0	0	0	0
	884	129	29	0	0	0	0	0
TAPPAN ZEE	48	29	104	0	0	3	0	0
	48	13	28	0	0	3	0	0
CROTON-HAVERSTRAW	55	28	6	0	0	0	0	0
	55	13	4	0	0	0	0	0
INDIAN POINT	0	20	4	0	0	0	0	0
	0	14	4	0	0	0	0	0
WEST POINT	0	0	NS	0	0	NS	0	0
	0	0		0	0		0	0
CORNWALL	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	NS	0	0
	0	0		0	0		0	0
HYDE PARK	0	0	NS	0	0	NS	0	0
	0	0		0	0		0	0
KINGSTON	0	0	NS	0	0	NS	0	0
	0	0		0	0		0	0
SAUGERTIES	0	0	NS	0	0	NS	0	0
	0	0		0	0		0	0
CATSKILL	0	0	NS	0	0	NS	0	0
	0	0		0	0		0	0
ALBANY	0	0	NS	0	0	NS	0	0
	0	0		0	0		0	0
TOTAL STANDING CROP	1433	361	258	0	0	3	0	0
	887	131	41	0	0	3	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 14SEP87 TO 24SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	122	53	0	0	0	0	0
	0	17	41	0	0	0	0	0
TAPPAN ZEE	0	80	27	0	0	0	0	0
	0	24	20	0	0	0	0	0
CROTON-HAVERSTRAW	0	18	3	0	0	0	0	0
	0	9	3	0	0	0	0	0
INDIAN POINT	0	98	0	0	0	0	0	0
	0	55	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
CORNWALL	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
HYDE PARK	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
KINGSTON	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
SAUGERTIES	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
CATSKILL	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
ALBANY	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
TOTAL STANDING CROP	0	318	84	0	0	0	0	0
	0	63	45	0	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 28SEP87 TO 08OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	91	25	0	0	0	0	0
	0	69	25	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
CORNWALL	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
HYDE PARK	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
KINGSTON	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
SAUGERTIES	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
CATSKILL	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
ALBANY	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
TOTAL STANDING CROP	0	91	25	0	0	0	0	0
	0	69	25	0	0	0	0	0



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 13OCT87 TO 22OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	62	0	0	0	0	0
	0	0	30	0	0	0	0	0
TAPPAN ZEE	0	35	11	0	0	0	0	0
	0	15	6	0	0	0	0	0
CROTON-HAVERSTRAW	0	17	3	0	0	0	0	0
	0	10	3	0	0	0	0	0
INDIAN POINT	0	8	0	0	0	0	0	0
	0	5	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
CORNWALL	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
HYDE PARK	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
KINGSTON	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
SAUGERTIES	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
CATSKILL	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
ALBANY	0	0	NS	0	0	0	NS	0
	0	0		0	0	0		0
TOTAL STANDING CROP	0	60	77	0	0	0	0	0
	0	19	31	0	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 26OCT87 TO 05NOV87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	3	3	0	0	0	0	0	0	0	0
TAPPAN ZEE	47	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	NS	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	NS	0	0
KINGSTON	0	0	NS	NS	0	0	0	0	0	NS	0	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	NS	0	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	NS	0	0
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	47	0	3	3	0	0	0	0	0	0	0	0
	47	0	3	3	0	0	0	0	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WEAKFISH FROM 10NOV87 TO . . . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	
YONKERS	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0	0
TAPPAN ZEE	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0	0
CROTON-HAVERSTRAW	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0	0
INDIAN POINT	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0	0
WEST POINT	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0	0
CORNWALL	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0	0
POUGHKEEPSIE	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0	0
HYDE PARK	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0	0
KINGSTON	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0	0
SAUGERTIES	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0	0
CATSKILL	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0	0
ALBANY	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0	0
TOTAL STANDING CROP	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 24JUN87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS		BEACH SEINE		SHOAL		FALL SHOALS		BEACH SEINE		SHOAL		
	CHANNEL	BOTTOM	SHOAL	SHORE	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE	SHOAL	SHORE	
YONKERS	NS	NS	NS	0	NS	0	NS	NS	NS	NS	NS	0	0
TAPPAN ZEE	NS	NS	NS	0	NS	0	NS	NS	NS	NS	NS	4	3
CROTON-HAVERSTRAW	NS	NS	NS	0	NS	0	NS	NS	NS	NS	NS	17	10
INDIAN POINT	NS	NS	NS	0	NS	0	NS	NS	NS	NS	NS	31	31
WEST POINT	NS	NS	NS	0	NS	0	NS	NS	NS	NS	NS	1	1
CORNWALL	NS	NS	NS	0	NS	0	NS	NS	NS	NS	NS	0	0
POUGHKEEPSIE	NS	NS	NS	0	NS	0	NS	NS	NS	NS	NS	0	0
HYDE PARK	NS	NS	NS	0	NS	0	NS	NS	NS	NS	NS	<0.5	<0.5
KINGSTON	NS	NS	NS	0	NS	0	NS	NS	NS	NS	NS	0	0
SAUGERTIES	NS	NS	NS	0	NS	0	NS	NS	NS	NS	NS	0	0
CATSKILL	NS	NS	NS	0	NS	0	NS	NS	NS	NS	NS	0	0
ALBANY	NS	NS	NS	0	NS	0	NS	NS	NS	NS	NS	0	0
TOTAL STANDING CROP	NS	NS	NS	0	NS	0	NS	NS	NS	NS	NS	52	33

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 06JUL87 TO 17JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	6	2
CROTON-HAVERSTRAW	0	0	0	0	0	3	2	4
INDIAN POINT	0	0	0	0	0	5	2	0
WEST POINT	0	0	NS	0	0	0	NS	0
CORNWALL	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
HYDE PARK	0	0	NS	0	0	0	NS	0
KINGSTON	0	0	NS	0	0	2	NS	0
SAUGERTIES	0	0	NS	0	0	0	NS	0
CATSKILL	0	6	NS	0	0	4	NS	0
ALBANY	80	3	NS	0	0	2	NS	0
TOTAL STANDING CROP	80	18	NS	0	0	1	NS	0
	80	8	NS	0	0	1	NS	0
	80	24	0	0	0	15	11	6
	80	8	0	0	0	7	5	4

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 20JUL87 TO 30JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	7	17	7	15	9
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	3	3	4	4
INDIAN POINT	0	0	0	0	0	0	0	10	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	4	4	NS	0	0
CORNWALL	0	0	0	0	0	0	0	5	1	1	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	NS	NS	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	NS	NS	0	0
KINGSTON	0	5	NS	NS	0	0	0	5	NS	NS	0	0
SAUGERTIES	0	2	NS	NS	0	0	0	11	NS	NS	0	0
CATSKILL	37	42	NS	NS	0	0	0	11	NS	NS	2	2
ALBANY	18	15	NS	NS	0	0	0	4	NS	NS	0	0
TOTAL STANDING CROP	55	68	0	0	0	0	0	55	22	22	21	21
	41	18	0	0	0	0	0	15	8	8	10	10

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 03AUG87 TO 13AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	4	0	
	0	0	0	0	0	0	0	0	0	4	0	
TAPPAN ZEE	0	0	0	0	0	0	0	0	25	2	2	
	0	0	0	0	0	0	0	0	8	2	2	
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	3	0	0	13	
	0	0	0	0	0	0	0	3	0	0	13	
INDIAN POINT	0	0	0	0	0	0	0	8	11	2	2	
	0	0	0	0	0	0	0	8	6	2	2	
WEST POINT	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	NS	0	0	
CORNWALL	0	0	0	0	0	0	0	0	4	2	2	
	0	0	0	0	0	0	0	0	2	2	2	
POUGHKEEPSIE	0	6	NS	NS	0	0	0	0	NS	0	0	
	0	6	0	0	0	0	0	0	NS	0	0	
HYDE PARK	0	0	NS	NS	0	0	0	0	NS	0	0	
	0	0	0	0	0	0	0	0	NS	0	0	
KINGSTON	0	3	NS	NS	0	0	0	3	NS	0	0	
	0	3	0	0	0	0	0	3	NS	0	0	
SAUGERTIES	0	25	NS	NS	0	0	0	0	NS	4	3	
	0	13	0	0	0	0	0	0	NS	3	3	
CATSKILL	35	83	NS	NS	0	0	0	16	NS	0	0	
	35	25	0	0	0	0	0	6	NS	0	0	
ALBANY	0	37	NS	NS	0	0	0	0	NS	2	2	
	0	25	0	0	0	0	0	0	NS	2	2	
TOTAL STANDING CROP	35	154	0	0	0	0	0	29	44	25	25	
	35	38	0	0	0	0	0	10	11	14	14	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 17AUG87 TO 27AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	8	5	11	6	6	6
CROTON-HAVERSTRAH	0	0	0	0	0	0	0	0	0	13	13	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	9	9	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	NS	NS	0	0	0
CORNWALL	0	0	1	1	0	0	0	0	1	1	2	2	2
POUGHKEEPSIE	0	8	NS	NS	0	0	0	9	NS	NS	0	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	NS	NS	0	0	0
KINGSTON	0	3	NS	NS	0	0	0	0	NS	NS	0	0	0
SAUGERTIES	0	8	NS	NS	0	0	0	0	NS	NS	2	2	2
CATSKILL	0	89	NS	NS	0	0	0	17	NS	NS	0	0	0
ALBANY	0	31	NS	NS	0	0	0	7	NS	NS	0	0	0
TOTAL STANDING CROP	0	50	NS	NS	0	0	0	0	NS	NS	0	0	0
	0	11			0	0	0	0			0	0	0
	0	158	1	1	0	0	0	32	18	29	13	11	15
	0	34			0	0	0	13	11	15			



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 3TAUG87 TO 11SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	11	6	6	6	6
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	5	2	2	0	0	0
WEST POINT	0	0	0	NS	0	0	0	0	0	NS	0	0	0
CORNWALL	0	0	0	1	0	0	0	0	0	5	0	0	0
POUGHKEEPSIE	0	0	0	NS	0	0	0	0	0	NS	0	0	0
HYDE PARK	0	0	0	NS	0	0	0	0	0	NS	0	0	0
KINGSTON	0	6	6	NS	0	0	0	3	3	NS	0	0	0
SAUGERTIES	0	3	3	NS	0	0	0	0	0	NS	0	0	0
CATSKILL	0	16	8	NS	0	0	0	11	4	NS	0	0	0
ALBANY	0	42	22	NS	0	0	0	1	1	NS	0	0	0
TOTAL STANDING CROP	0	67	25	1	1	0	0	19	7	18	6	6	6

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 14SEP87 TO 24SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	7	5	6	3	3
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	3	3	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	9	9	4	0	0
WEST POINT	0	0	0	NS	0	0	0	0	0	0	NS	0	0
CORNWALL	0	5	8	8	0	0	0	0	5	5	3	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	0	NS	0	0
HYDE PARK	88	4	NS	NS	0	0	0	0	7	4	NS	0	0
KINGSTON	0	6	NS	NS	0	0	0	0	3	3	NS	0	0
SAUGERTIES	0	2	NS	NS	0	0	0	0	10	7	NS	0	0
CATSKILL	0	7	NS	NS	0	0	0	0	6	5	NS	0	0
ALBANY	0	8	NS	NS	0	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	88	33	8	8	0	0	0	0	40	14	17	6	3
	88	10	1	1	0	0	0	0	17	7	7	3	3

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 28SEP87 TO 08OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	9	0	0
	0	0	0	0	0	9	0	0
TAPPAN ZEE	0	0	0	0	0	0	11	8
	0	0	0	0	0	0	6	8
CROTON-HAVERSTRAW	0	3	12	0	0	0	504	2
	0	3	7	0	0	0	479	2
INDIAN POINT	0	16	2	0	0	10	6	0
	0	16	2	0	0	6	4	0
WEST POINT	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
CORNWALL	0	0	0	0	0	15	0	0
	0	0	0	0	0	6	0	0
POUGHKEEPSIE	0	7	NS	0	0	7	NS	0
	0	7	0	0	0	7	0	0
HYDE PARK	0	6	NS	0	0	3	NS	0
	0	4	0	0	0	3	0	0
KINGSTON	0	0	NS	0	0	0	NS	0
	0	0	0	0	0	0	0	0
SAUGERTIES	0	13	NS	0	0	3	NS	0
	0	5	0	0	0	3	0	0
CATSKILL	0	9	NS	0	0	4	NS	0
	0	4	0	0	0	3	0	0
ALBANY	0	7	NS	0	0	1	NS	0
	0	5	0	0	0	1	0	0
TOTAL STANDING CROP	0	61	14	0	0	51	521	9
	0	20	7	0	0	15	479	8

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 13OCT87 TO 22OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	4	4
CROTON-HAVERSTRAW	0	0	0	0	0	7	14	6
INDIAN POINT	0	4	3	0	0	8	14	0
WEST POINT	0	3	NS	0	0	5	5	0
CORNWALL	0	5	5	0	0	5	7	0
POUGHKEEPSIE	0	37	NS	0	0	7	NS	0
HYDE PARK	0	4	NS	0	0	0	NS	0
KINGSTON	0	5	NS	0	0	7	NS	0
SAUGERTIES	0	7	NS	0	0	2	NS	0
CATSKILL	0	9	NS	0	0	0	NS	0
ALBANY	0	1	NS	0	0	0	NS	0
TOTAL STANDING CROP	0	78	8	0	0	37	38	4
	0	19	3	0	0	12	10	3

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 26OCT87 TO 05NOV87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	8	0	0	0	0
	0	0	0	0	0	0	0	8	0	0	0	0
TAPPAN ZEE	0	5	3	3	0	0	0	11	26	2	2	2
	0	5	3	3	0	0	0	7	8	2	2	2
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	3	31	0	0	0
	0	0	0	0	0	0	0	3	14	0	0	0
INDIAN POINT	0	5	2	2	0	0	0	6	4	0	0	0
	0	5	2	2	0	0	0	6	4	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	NS	0	0	0
	0	0	NS	NS	0	0	0	0	NS	0	0	0
CORNWALL	0	8	0	0	0	0	0	8	7	0	0	0
	0	8	0	0	0	0	0	8	2	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	10	NS	0	0	0
	0	0	NS	NS	0	0	0	10	NS	0	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	NS	0	0	0
	0	0	NS	NS	0	0	0	0	NS	0	0	0
KINGSTON	0	0	NS	NS	0	0	0	0	NS	0	0	0
	0	0	NS	NS	0	0	0	0	NS	0	0	0
SAUGERTIES	0	0	NS	NS	0	0	0	3	NS	0	0	0
	0	0	NS	NS	0	0	0	3	NS	0	0	0
CATSKILL	0	4	NS	NS	0	0	0	0	NS	0	0	0
	0	3	NS	NS	0	0	0	0	NS	0	0	0
ALBANY	0	1	NS	NS	0	0	0	0	NS	0	0	0
	0	1	NS	NS	0	0	0	0	NS	0	0	0
TOTAL STANDING CROP	0	23	5	4	0	0	0	48	68	2	2	2
	0	11	4	0	0	0	0	18	16	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER WHITE CATFISH FROM 10NOV87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	NS	NS	NS	0	NS	NS	NS	0
				0				0
TAPPAN ZEE	NS	NS	NS	0	NS	NS	NS	2
				0				2
CROTON-HAVERSTRAW	NS	NS	NS	0	NS	NS	NS	0
				0				0
INDIAN POINT	NS	NS	NS	0	NS	NS	NS	0
				0				0
WEST POINT	NS	NS	NS	0	NS	NS	NS	0
				0				0
CORNWALL	NS	NS	NS	0	NS	NS	NS	0
				0				0
POUGHKEEPSIE	NS	NS	NS	0	NS	NS	NS	0
				0				0
HYDE PARK	NS	NS	NS	0	NS	NS	NS	0
				0				0
KINGSTON	NS	NS	NS	0	NS	NS	NS	0
				0				0
SAUGERTIES	NS	NS	NS	0	NS	NS	NS	0
				0				0
CATSKILL	NS	NS	NS	0	NS	NS	NS	0
				0				0
ALBANY	NS	NS	NS	0	NS	NS	NS	0
				0				0
TOTAL STANDING CROP	NS	NS	NS	0	NS	NS	NS	2
				0				2

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 24JUN87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
TAPPAN ZEE	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
CROTON-HAVERSTRAW	NS	NS	NS	NS	0	0	NS	NS	NS	NS	0	0
INDIAN POINT	NS	NS	NS	NS	0	0	NS	NS	NS	NS	22	18
WEST POINT	NS	NS	NS	NS	0	0	NS	NS	NS	NS	5	3
CORNWALL	NS	NS	NS	NS	0	0	NS	NS	NS	NS	39	16
POUGHKEEPSIE	NS	NS	NS	NS	0	0	NS	NS	NS	NS	13	4
HYDE PARK	NS	NS	NS	NS	5	5	NS	NS	NS	NS	4	3
KINGSTON	NS	NS	NS	NS	10	6	NS	NS	NS	NS	2	2
SAUGERTIES	NS	NS	NS	NS	53	22	NS	NS	NS	NS	2	2
CATSKILL	NS	NS	NS	NS	110	61	NS	NS	NS	NS	31	19
ALBANY	NS	NS	NS	NS	132	78	NS	NS	NS	NS	0	0
TOTAL STANDING CROP	NS	NS	NS	NS	311	102	NS	NS	NS	NS	118	31

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 06JUL87 TO 17JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	2	0	0	0	17
WEST POINT	0	0	NS	1	0	0	NS	11
CORNWALL	0	0	0	20	0	5	0	62
POUGHKEEPSIE	0	0	NS	7	0	5	0	36
HYDE PARK	0	0	NS	5	0	3	NS	87
KINGSTON	0	0	NS	4	0	3	NS	87
SAUGERTIES	0	0	NS	51	0	0	NS	2
CATSKILL	0	0	NS	28	0	0	NS	1
ALBANY	0	1	NS	140	0	0	NS	21
TOTAL STANDING CROP	0	1	0	118	0	15	0	14
	0	1	0	328	0	9	NS	41
	0	1	0	244	0	5	NS	26
	0	1	0	608	0	32	NS	2
	0	1	0	275	0	17	NS	2



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 20JUL87 TO 30JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	0	NS	0	0	0	0	0	NS	0	0
CORNWALL	0	0	0	0	0	7	0	0	0	0	1	0
POUGHKEEPSIE	0	0	0	NS	1	1	0	0	0	NS	8	16
HYDE PARK	0	0	0	NS	14	9	0	0	0	NS	0	<0.5
KINGSTON	0	0	0	NS	98	86	0	0	0	NS	2	<0.5
SAUGERTIES	0	2	2	NS	39	33	0	0	0	NS	6	10
CATSKILL	0	0	0	NS	205	152	0	0	0	NS	2	7
ALBANY	0	16	10	NS	307	231	0	0	0	NS	9	63
TOTAL STANDING CROP	0	18	10	0	671	292	0	0	0	0	27	109
											11	62

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 03AUG87 TO 13AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	NS	2
CORNWALL	0	0	0	0	0	0	2	0
POUGHKEEPSIE	0	0	NS	60	0	0	NS	10
HYDE PARK	0	0	NS	39	0	0	NS	8
KINGSTON	0	0	NS	4	0	3	NS	0
SAUGERTIES	0	0	NS	3	0	3	NS	0
CATSKILL	0	0	NS	5	0	52	NS	3
ALBANY	0	0	NS	5	0	33	NS	2
TOTAL STANDING CROP	0	0	0	21	0	7	NS	4
	0	0	0	17	0	4	NS	4
	0	0	NS	22	0	2	NS	6
	0	0	NS	13	0	2	NS	4
	0	1	NS	78	0	4	NS	10
	0	1	NS	52	0	2	NS	6
	0	1	0	190	0	68	2	48
	0	1	0	69	0	33	2	14

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 17AUG87 TO 27AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	2	2
WEST POINT	0	0	0	NS	0	0	0	0	0	NS	2	2
CORNWALL	0	0	0	0	0	0	0	0	0	0	30	23
POUGHKEEPSIE	0	0	0	NS	142	107	0	0	0	NS	41	25
HYDE PARK	0	0	0	NS	40	15	0	0	3	NS	4	3
KINGSTON	0	3	3	NS	34	27	0	0	31	NS	12	6
SAUGERTIES	0	0	0	NS	57	36	0	0	6	NS	25	17
CATSKILL	0	0	0	NS	437	314	0	0	2	NS	20	14
ALBANY	0	6	3	NS	149	71	0	0	11	NS	10	6
TOTAL STANDING CROP	0	8	4	0	859	343	0	0	53	0	147	42

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 31AUG87 TO 11SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	7	0	0	0	13
WEST POINT	0	0	NS	1	0	0	NS	11
CORNWALL	0	0	0	11	0	0	0	4
POUGHKEEPSIE	0	0	NS	9	0	0	0	4
HYDE PARK	0	0	NS	11	0	0	NS	2
KINGSTON	0	0	NS	4	0	0	NS	4
SAUGERTIES	0	0	NS	55	0	0	NS	3
CATSKILL	0	0	NS	18	0	0	NS	1
ALBANY	0	12	NS	142	0	0	NS	15
TOTAL STANDING CROP	0	9	0	36	0	0	0	6
	0	12	0	10	0	0	NS	111
	0	9	0	7	0	0	NS	52
	0	12	0	93	0	20	NS	8
	0	9	0	67	0	9	NS	5
	0	12	0	336	0	29	NS	12
	0	9	0	80	0	11	NS	12
	0	12	0	336	0	29	0	173
	0	9	0	80	0	11	0	55

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 14SEP87 TO 24SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	17
WEST POINT	0	0	NS	2	0	0	NS	4
CORNWALL	0	0	0	5	0	0	0	5
POUGHKEEPSIE	0	0	NS	13	0	8	NS	11
HYDE PARK	0	0	NS	14	0	0	NS	1
KINGSTON	0	3	NS	127	0	29	NS	14
SAUGERTIES	0	0	NS	29	0	5	NS	12
CATSKILL	0	0	NS	51	0	3	NS	7
ALBANY	0	6	NS	97	0	11	NS	4
TOTAL STANDING CROP	0	8	0	338	0	53	0	91
	0	4	0	94	0	18	0	23

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 28SEP87 TO 08OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	6	6	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	1	1	0	0	NS	NS	NS	3	1
CORNWALL	0	0	0	0	9	4	0	0	0	0	0	89	26
POUGHKEEPSIE	0	0	NS	NS	84	28	0	0	NS	NS	NS	20	15
HYDE PARK	0	0	NS	NS	6	4	0	0	NS	NS	NS	5	2
KINGSTON	0	0	NS	NS	41	23	0	0	NS	NS	NS	24	10
SAUGERTIES	0	0	NS	NS	31	15	0	0	NS	NS	NS	68	27
CATSKILL	0	2	NS	NS	311	166	0	0	NS	NS	NS	285	205
ALBANY	0	14	NS	NS	245	141	0	0	NS	NS	NS	184	130
TOTAL STANDING CROP	0	16	0	0	733	221	0	0	0	0	0	679	246

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 13OCT87 TO 22OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	4	0	2
WEST POINT	0	0	NS	0	0	0	NS	2
CORNWALL	0	0	0	0	0	0	0	16
POUGHKEEPSIE	0	0	NS	3	0	0	NS	4
HYDE PARK	0	0	NS	14	0	0	NS	16
KINGSTON	0	0	NS	3	0	0	NS	12
SAUGERTIES	0	0	NS	170	0	15	NS	5
CATSKILL	0	0	NS	103	0	9	NS	3
ALBANY	0	0	NS	106	0	5	NS	89
TOTAL STANDING CROP	0	0	0	47	0	4	0	37
	0	1	0	68	0	2	NS	8
	0	1	0	45	0	1	NS	5
	0	1	0	365	0	27	0	268
	0	1	0	122	0	10	0	83

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 26OCT87 TO 05NOV87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	2	2
WEST POINT	0	0	0	NS	0	0	0	0	NS	0	5	3
CORNWALL	0	0	0	0	16	7	0	0	2	2	25	8
POUGHKEEPSIE	0	63	53	NS	44	37	0	0	NS	14	13	11
HYDE PARK	0	0	0	NS	9	4	0	0	NS	6	4	2
KINGSTON	0	5	3	NS	14	4	0	0	NS	42	22	11
SAUGERTIES	0	3	3	NS	70	34	0	0	NS	35	82	22
CATSKILL	0	9	5	NS	136	83	0	0	NS	31	33	16
ALBANY	0	19	13	NS	136	76	0	0	NS	30	17	8
TOTAL STANDING CROP	0	98	55	0	424	123	0	0	0	157	204	33



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SPOTTAIL SHINER FROM 10NOV87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	NS	NS	NS	0	NS	NS	NS	0
				0				0
TAPPAN ZEE	NS	NS	NS	0	NS	NS	NS	0
				0				0
CROTON-HAVERSTRAW	NS	NS	NS	0	NS	NS	NS	0
				0				0
INDIAN POINT	NS	NS	NS	2	NS	NS	NS	17
				2				12
WEST POINT	NS	NS	NS	2	NS	NS	NS	3
				2				2
CORNWALL	NS	NS	NS	0	NS	NS	NS	2
				0				2
POUGHKEEPSIE	NS	NS	NS	3	NS	NS	NS	0
				3				0
HYDE PARK	NS	NS	NS	5	NS	NS	NS	2
				4				1
KINGSTON	NS	NS	NS	10	NS	NS	NS	10
				8				10
SAUGERTIES	NS	NS	NS	12	NS	NS	NS	8
				8				5
CATSKILL	NS	NS	NS	37	NS	NS	NS	6
				33				6
ALBANY	NS	NS	NS	4	NS	NS	NS	0
				3				0
TOTAL STANDING CROP	NS	NS	NS	75	NS	NS	NS	47
				36				18

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 24JUN87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0
TAPPAN ZEE	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0
CROTON-HAVERSTRAW	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0
INDIAN POINT	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0
WEST POINT	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0
CORNWALL	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0
POUGHKEEPSIE	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0
HYDE PARK	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0
KINGSTON	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0
SAUGERTIES	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0
CATSKILL	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0
ALBANY	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0
TOTAL STANDING CROP	NS	NS	NS	NS	0	0	NS	NS	NS	NS	NS	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 06JUL87 TO 17JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	6	4	0	0	
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	
WEST POINT	0	0	NS	NS	0	0	0	3	3	NS	0	
CORNWALL	0	0	0	0	0	0	0	5	5	1	1	
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	NS	0	
HYDE PARK	0	0	NS	NS	0	0	0	29	9	NS	0	
KINGSTON	0	0	NS	NS	0	0	0	11	8	NS	0	
SAUGERTIES	0	0	NS	NS	0	0	0	5	3	NS	0	
CATSKILL	0	0	NS	NS	0	0	0	0	0	NS	0	
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	0	
TOTAL STANDING CROP	0	0	0	0	0	0	0	58	15	1	1	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 20JUL87 TO 30JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	3	3	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	9	6	NS	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	NS	NS	0	0
HYDE PARK	0	0	NS	NS	0	0	0	10	4	NS	NS	0	0
KINGSTON	0	0	NS	NS	0	0	0	12	5	NS	NS	0	0
SAUGERTIES	0	0	NS	NS	0	0	0	6	6	NS	NS	0	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	NS	NS	0	0
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	NS	0	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	39	11	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 03AUG87 TO 13AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	
TAPPAN ZEE	0	0	0	0	0	0	0	8	0	0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	
INDIAN POINT	0	0	0	0	0	0	0	16	0	0	0	
WEST POINT	0	0	NS	NS	0	0	0	2	NS	0	0	
CORNWALL	0	0	0	0	0	0	0	5	0	0	0	
POUGHKEEPSIE	0	0	NS	NS	0	0	0	8	NS	0	0	
HYDE PARK	0	0	NS	NS	0	0	0	21	NS	0	0	
KINGSTON	0	0	NS	NS	0	0	0	53	NS	0	0	
SAUGERTIES	0	0	NS	NS	0	0	0	8	NS	0	0	
CATSKILL	0	0	NS	NS	0	0	0	6	NS	0	0	
ALBANY	0	0	NS	NS	0	0	0	0	NS	0	0	
TOTAL STANDING CROP	0	0	0	0	0	0	0	120	0	0	0	
								20				

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 17AUG87 TO 27AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	16	7	NS	0
CORNWALL	0	0	0	0	0	0	0	0	10	6	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	8	8	NS	0
HYDE PARK	0	0	NS	NS	0	0	0	0	7	5	NS	0
KINGSTON	0	0	NS	NS	0	0	0	0	17	10	NS	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	23	13	NS	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	0	NS	0
ALBANY	0	0	NS	NS	0	0	0	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	82	21	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 31AUG87 TO 11SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	6	NS	0
CORNWALL	0	0	0	0	0	5	0	0
POUGHKEEPSIE	0	0	NS	0	0	17	NS	0
HYDE PARK	0	0	NS	0	0	6	NS	0
KINGSTON	0	0	NS	0	0	15	NS	0
SAUGERTIES	0	0	NS	0	0	5	NS	0
CATSKILL	0	0	NS	0	0	2	NS	0
ALBANY	0	0	NS	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	56	0	0
						21		

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 14SEP87 TO 24SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER							
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE				
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE			
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	3	3	NS	NS	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	0	0	NS	NS	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	11	7	NS	NS	0
KINGSTON	0	0	NS	NS	0	0	0	0	0	23	14	NS	NS	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	5	3	NS	NS	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	0	0	NS	NS	0
ALBANY	0	0	NS	NS	0	0	0	0	0	0	0	NS	NS	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	0	42	17	0	0	0



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 28SEP87 TO 08OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0	6	4	0	0	0	
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	
WEST POINT	0	0	NS	NS	0	0	3	3	NS	NS	0	
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	NS	NS	0	
HYDE PARK	0	0	NS	NS	0	0	3	3	NS	NS	0	
KINGSTON	0	0	NS	NS	0	0	9	6	NS	NS	0	
SAUGERTIES	0	0	NS	NS	0	0	2	2	NS	NS	0	
CATSKILL	0	0	NS	NS	0	0	0	0	NS	NS	0	
ALBANY	0	0	NS	NS	0	0	0	0	NS	NS	0	
TOTAL STANDING CROP	0	0	0	0	0	0	24	9	0	0	0	

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 13OCT87 TO 22OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	5	5	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	7	7	NS	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	0	NS	0
KINGSTON	0	0	NS	NS	0	0	0	0	10	6	NS	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	2	2	NS	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	0	NS	0
ALBANY	0	0	NS	NS	0	0	0	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	25	11	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 26OCT87 TO 05NOV87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	4	NS	0
CORNWALL	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	10	NS	0
HYDE PARK	0	0	NS	0	0	0	NS	0
KINGSTON	0	0	NS	0	0	11	NS	0
SAUGERTIES	0	2	NS	0	0	2	NS	0
CATSKILL	0	0	NS	0	0	0	NS	0
ALBANY	0	0	NS	0	0	0	NS	0
TOTAL STANDING CROP	0	2	0	0	0	28	0	0
						13		

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER ATLANTIC STURGEON FROM 10NOV87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	NS	NS	NS	0	NS	NS	NS	0
TAPPAN ZEE	NS	NS	NS	0	NS	NS	NS	0
CROTON-HAVERSTRAM	NS	NS	NS	0	NS	NS	NS	0
INDIAN POINT	NS	NS	NS	0	NS	NS	NS	0
WEST POINT	NS	NS	NS	0	NS	NS	NS	0
CORNWALL	NS	NS	NS	0	NS	NS	NS	0
POUGHKEEPSIE	NS	NS	NS	0	NS	NS	NS	0
HYDE PARK	NS	NS	NS	0	NS	NS	NS	0
KINGSTON	NS	NS	NS	0	NS	NS	NS	0
SAUGERTIES	NS	NS	NS	0	NS	NS	NS	0
CATSKILL	NS	NS	NS	0	NS	NS	NS	0
ALBANY	NS	NS	NS	0	NS	NS	NS	0
TOTAL STANDING CROP	NS	NS	NS	0	NS	NS	NS	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 06JUL87 TO 17JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	NS	0
CORNWALL	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
HYDE PARK	0	0	NS	0	0	0	NS	0
KINGSTON	0	0	NS	0	0	0	NS	0
SAUGERTIES	0	0	NS	0	0	0	NS	0
CATSKILL	0	0	NS	0	0	0	NS	0
ALBANY	0	0	NS	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 24 JUN 87 TO . . . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	NS	NS	NS	0	NS	NS	NS	0
TAPPAN ZEE	NS	NS	NS	0	NS	NS	NS	0
CROTON-HAVERSTRAW	NS	NS	NS	0	NS	NS	NS	0
INDIAN POINT	NS	NS	NS	0	NS	NS	NS	0
WEST POINT	NS	NS	NS	0	NS	NS	NS	0
CORNWALL	NS	NS	NS	0	NS	NS	NS	0
POUGHKEEPSIE	NS	NS	NS	0	NS	NS	NS	0
HYDE PARK	NS	NS	NS	0	NS	NS	NS	0
KINGSTON	NS	NS	NS	0	NS	NS	NS	0
SAUGERTIES	NS	NS	NS	0	NS	NS	NS	0
CATSKILL	NS	NS	NS	0	NS	NS	NS	0
ALBANY	NS	NS	NS	0	NS	NS	NS	0
TOTAL STANDING CROP	NS	NS	NS	0	NS	NS	NS	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 20JUL87 TO 30JUL87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	6	6	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	0	NS	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	17	17	NS	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	0	NS	0
KINGSTON	0	0	NS	NS	0	0	0	0	0	0	NS	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	0	NS	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	0	NS	0
ALBANY	0	0	NS	NS	0	0	0	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	17	17	6	6

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 03AUG87 TO 13AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	NS	0
CORNWALL	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
HYDE PARK	0	0	NS	0	0	0	NS	0
KINGSTON	0	0	NS	0	0	0	NS	0
SAUGERTIES	0	0	NS	0	0	0	NS	0
CATSKILL	0	0	NS	0	0	0	NS	0
ALBANY	0	0	NS	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0



1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 17AUG87 TO 27AUG87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	NS	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	NS	0	0
KINGSTON	0	0	NS	NS	0	0	0	0	0	NS	0	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	NS	0	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	NS	0	0
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTHOSE STURGEON FROM 3AUG87 TO 11SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	3	3	NS	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	0	NS	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	0	NS	0
KINGSTON	0	0	NS	NS	0	0	0	0	5	4	NS	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	0	NS	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	0	NS	0
ALBANY	0	0	NS	NS	0	0	0	0	0	0	NS	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	8	5	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 14SEP87 TO 24SEP87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	
YONKERS	0	0	0	0	0	0	0	0	0	0	0	
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	
WEST POINT	0	0	NS	NS	0	0	0	0	NS	0	0	
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	NS	0	0	
HYDE PARK	0	0	NS	NS	0	0	0	0	NS	0	0	
KINGSTON	0	0	NS	NS	0	0	0	6	NS	0	0	
SAUGERTIES	0	0	NS	NS	0	0	0	3	NS	0	0	
CATSKILL	0	0	NS	NS	0	0	0	0	NS	0	0	
ALBANY	0	0	NS	NS	0	0	0	0	NS	0	0	
TOTAL STANDING CROP	0	0	0	0	0	0	0	9	0	0	0	
								5				

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 28SEP87 TO 08OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	0	0	0	NS	0
CORNWALL	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	0	0	0	NS	0
HYDE PARK	0	0	NS	0	0	0	NS	0
KINGSTON	0	0	NS	0	0	0	NS	0
SAUGERTIES	0	0	NS	0	0	0	NS	0
CATSKILL	0	0	NS	0	0	0	NS	0
ALBANY	0	0	NS	0	0	0	NS	0
* TOTAL STANDING CROP	0	0	0	0	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 13OCT87 TO 22OCT87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER					
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE		
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAM	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	NS	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	NS	0	0
KINGSTON	0	0	NS	NS	0	0	0	0	0	NS	0	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	0	NS	0	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	NS	0	0
ALBANY	0	0	NS	NS	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	0	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 26OCT87 TO 05NOV87. STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR						YEARLING AND OLDER						
	FALL SHOALS			BEACH SEINE			FALL SHOALS			BEACH SEINE			
	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE	SHORE	CHANNEL	BOTTOM	SHOAL	SHOAL	SHORE		
YONKERS	0	0	0	0	0	0	0	0	0	0	0	0	0
TAPPAN ZEE	0	0	0	0	0	0	0	0	0	0	0	0	0
CROTON-HAVERSTRAW	0	0	0	0	0	0	0	0	0	0	0	0	0
INDIAN POINT	0	0	0	0	0	0	0	0	0	0	0	0	0
WEST POINT	0	0	NS	NS	0	0	0	0	0	0	NS	0	0
CORNWALL	0	0	0	0	0	0	0	0	0	0	0	0	0
POUGHKEEPSIE	0	0	NS	NS	0	0	0	0	0	0	NS	0	0
HYDE PARK	0	0	NS	NS	0	0	0	0	0	0	NS	0	0
KINGSTON	0	0	NS	NS	0	0	0	0	0	0	NS	0	0
SAUGERTIES	0	0	NS	NS	0	0	0	0	2	2	NS	0	0
CATSKILL	0	0	NS	NS	0	0	0	0	0	0	NS	0	0
ALBANY	0	0	NS	NS	0	0	0	0	0	0	NS	0	0
TOTAL STANDING CROP	0	0	0	0	0	0	0	0	2	2	0	0	0

1987 FALL SHOALS AND BEACH SEINE SURVEYS STANDING CROP DATA (IN THOUSANDS) FOR YOUNG-OF-YEAR AND YEARLING AND OLDER SHORTNOSE STURGEON FROM 10NOV87 TO . STANDARD ERRORS (IN THOUSANDS) ARE PRINTED BELOW EACH STANDING CROP. "NS" INDICATES THAT THE STRATUM WAS NOT SAMPLED

REGION	YOUNG-OF-YEAR				YEARLING AND OLDER			
	FALL SHOALS		BEACH SEINE		FALL SHOALS		BEACH SEINE	
	CHANNEL	BOTTOM	SHOAL	SHORE	CHANNEL	BOTTOM	SHOAL	SHORE
YONKERS	NS	NS	NS	0	NS	NS	NS	0
				0				0
TAPPAN ZEE	NS	NS	NS	0	NS	NS	NS	0
				0				0
CROTON-HAVERSTRAW	NS	NS	NS	0	NS	NS	NS	0
				0				0
INDIAN POINT	NS	NS	NS	0	NS	NS	NS	0
				0				0
WEST POINT	NS	NS	NS	0	NS	NS	NS	0
				0				0
CORNWALL	NS	NS	NS	0	NS	NS	NS	0
				0				0
POUGHKEEPSIE	NS	NS	NS	0	NS	NS	NS	0
				0				0
HYDE PARK	NS	NS	NS	0	NS	NS	NS	0
				0				0
KINGSTON	NS	NS	NS	0	NS	NS	NS	0
				0				0
SAUGERTIES	NS	NS	NS	0	NS	NS	NS	0
				0				0
CATSKILL	NS	NS	NS	0	NS	NS	NS	0
				0				0
ALBANY	NS	NS	NS	0	NS	NS	NS	0
				0				0
TOTAL STANDING CROP	NS	NS	NS	0	NS	NS	NS	0
				0				0

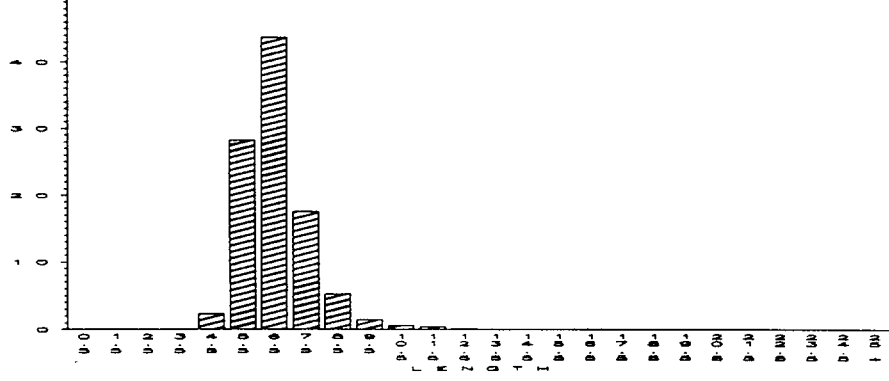
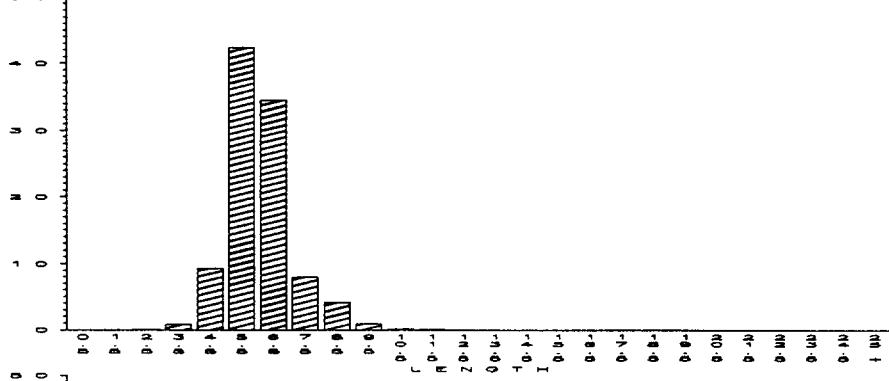
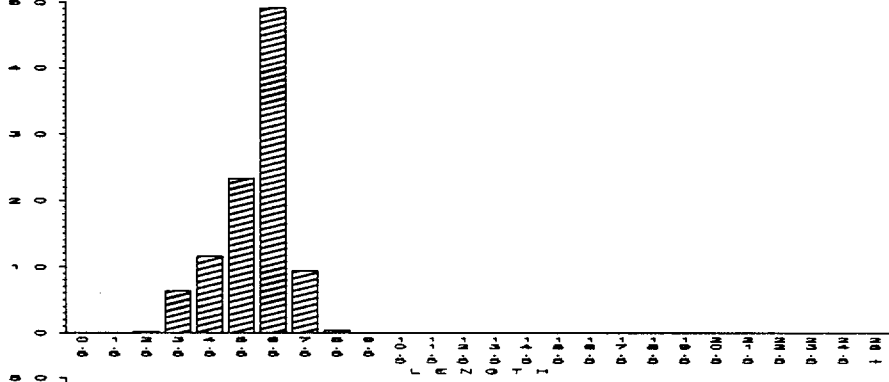
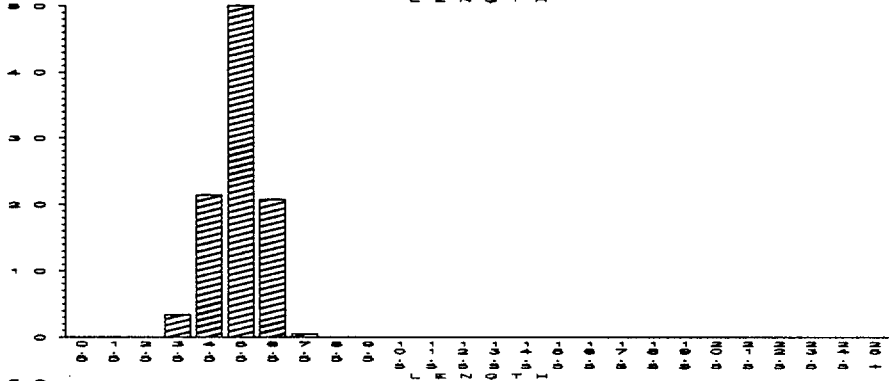
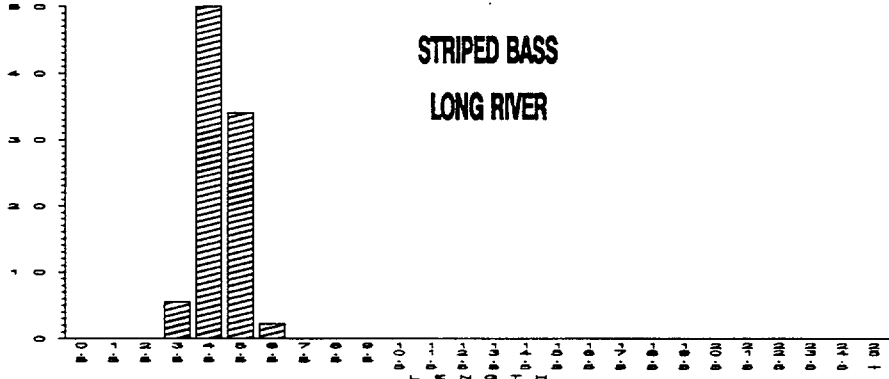
APPENDIX K

LRS, FSS, AND BSS, LENGTH FREQUENCY STRIPED BASS  
WHITE PERCH, AND AMERICAN SHAD (1986 and 1987)



**FREQUENCY**

**STRIPED BASS  
LONG RIVER**



**STRIPED BASS  
LONG RIVER**

**FREQUENCY**

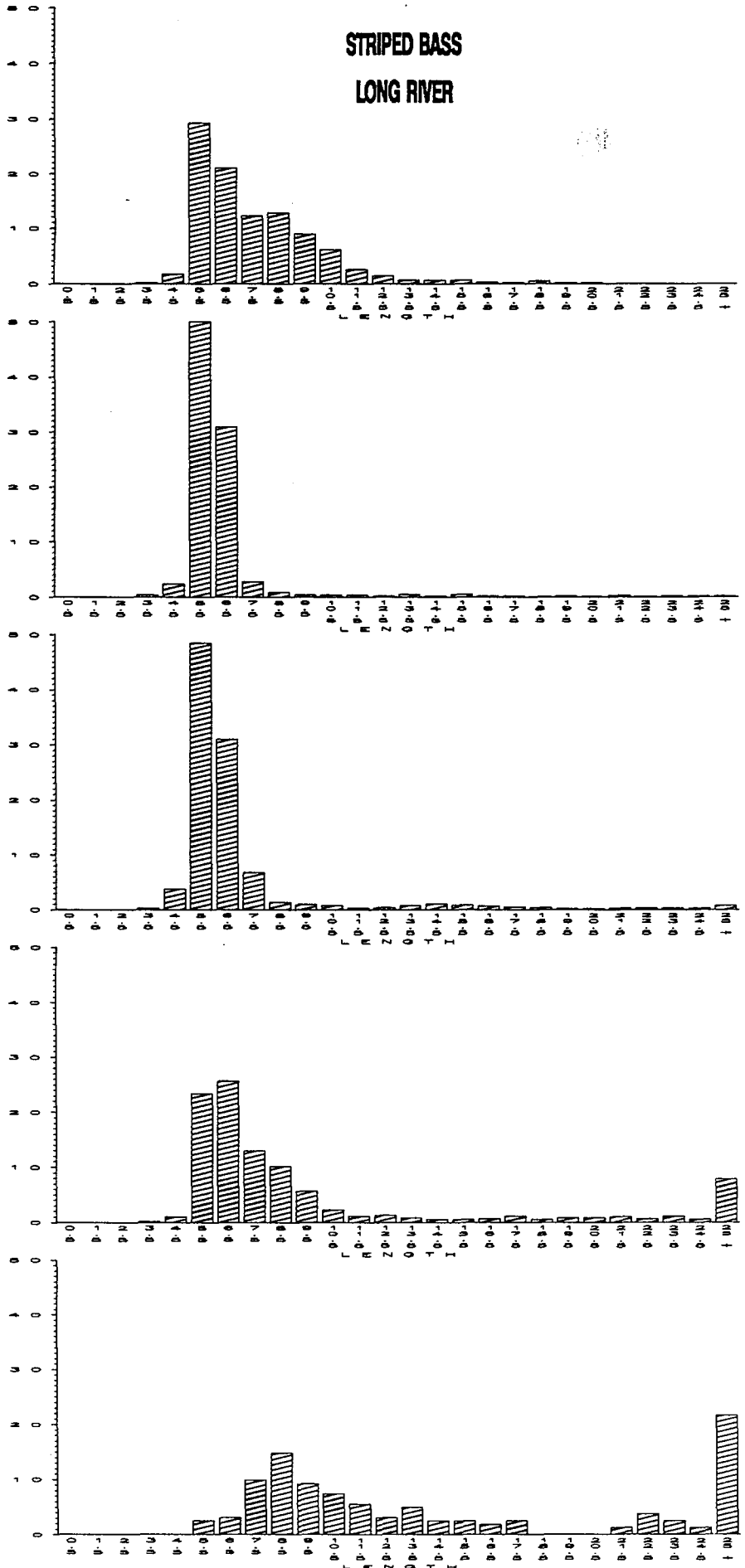
06/09/86

06/16/86

06/23/86

06/30/86

07/07/86



WHITE PERCH  
LONG RIVER

04/28/86

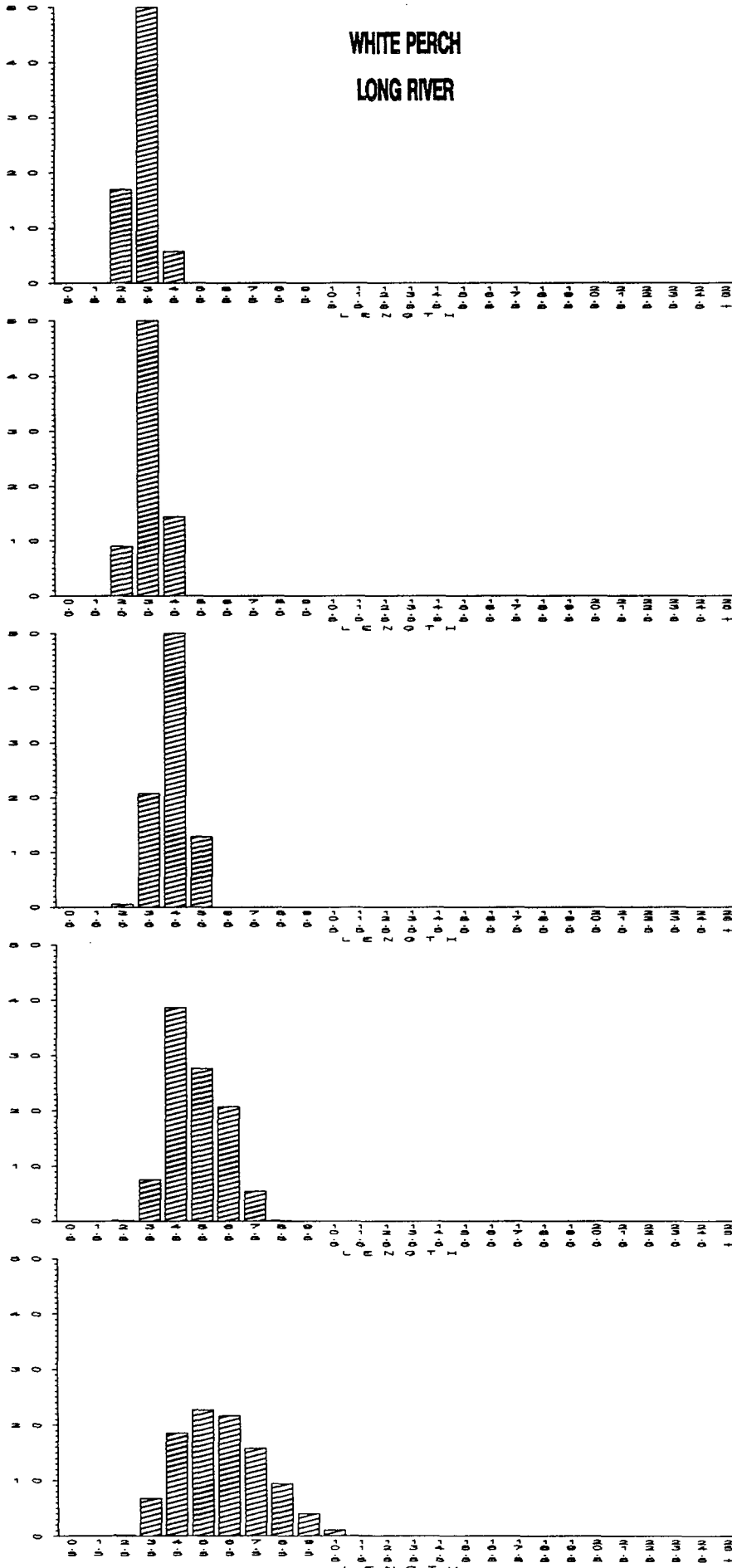
05/05/86

05/12/86

05/19/86

05/26/86

FREQUENCY



**WHITE PERCH  
LONG RIVER**

06/02/86

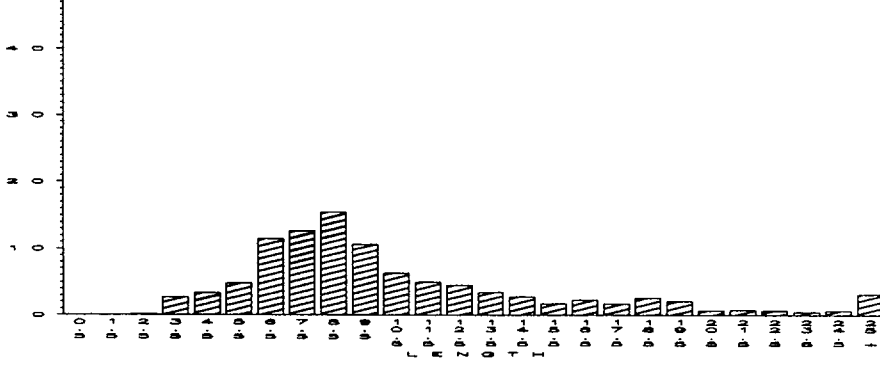
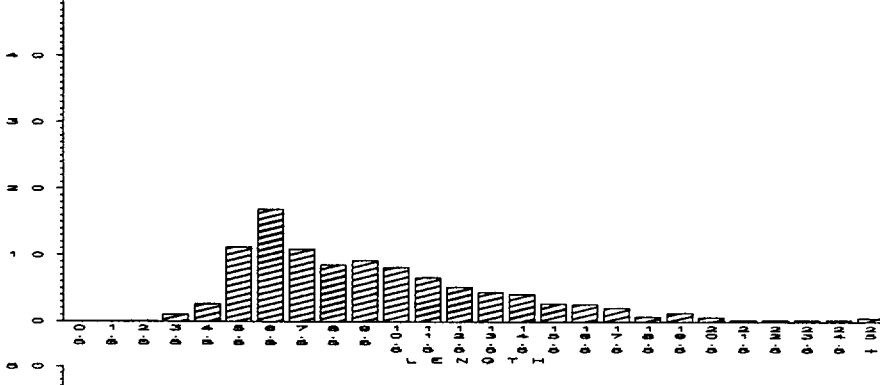
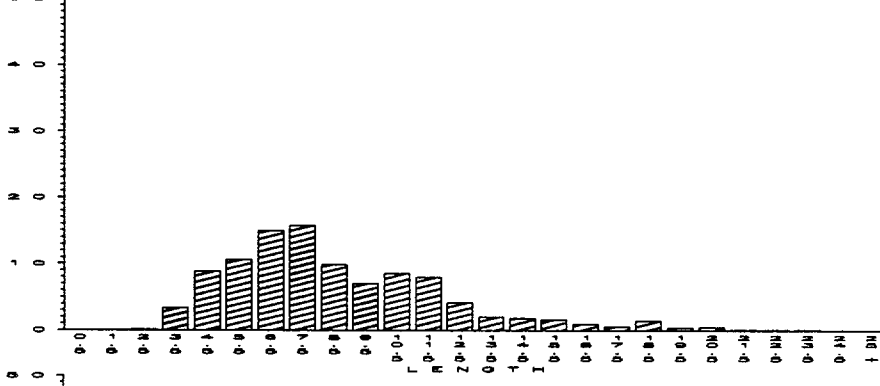
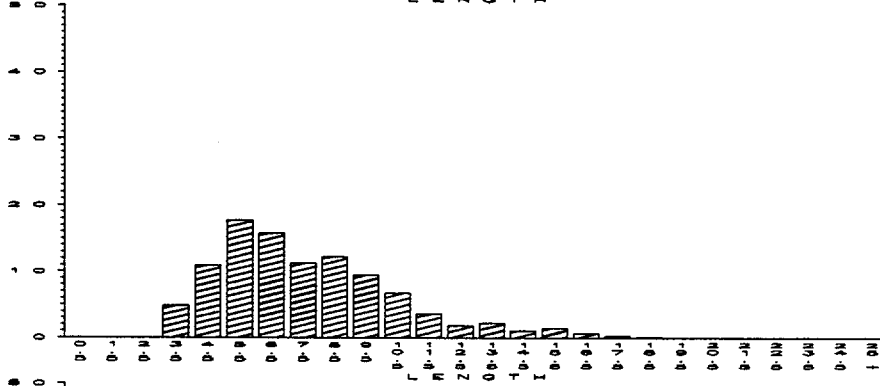
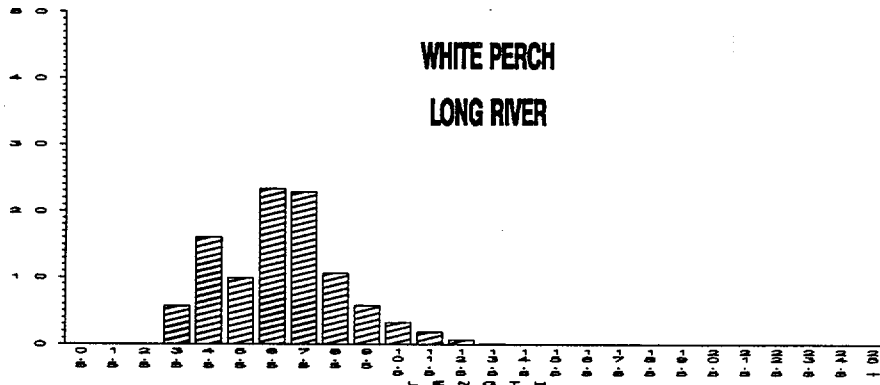
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06/23/86

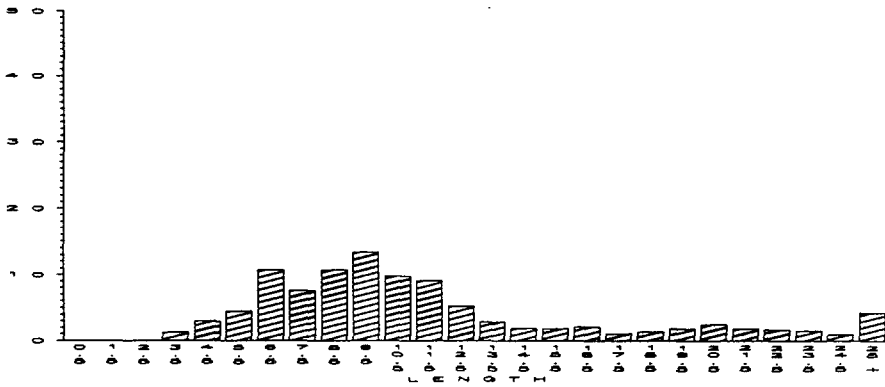
06/30/86

**FREQUENCY**



WHITE PERCH  
LONG RIVER

FREQUENCY



07/07/86

# AMERICAN SHAD LONG RIVER

04/28/86

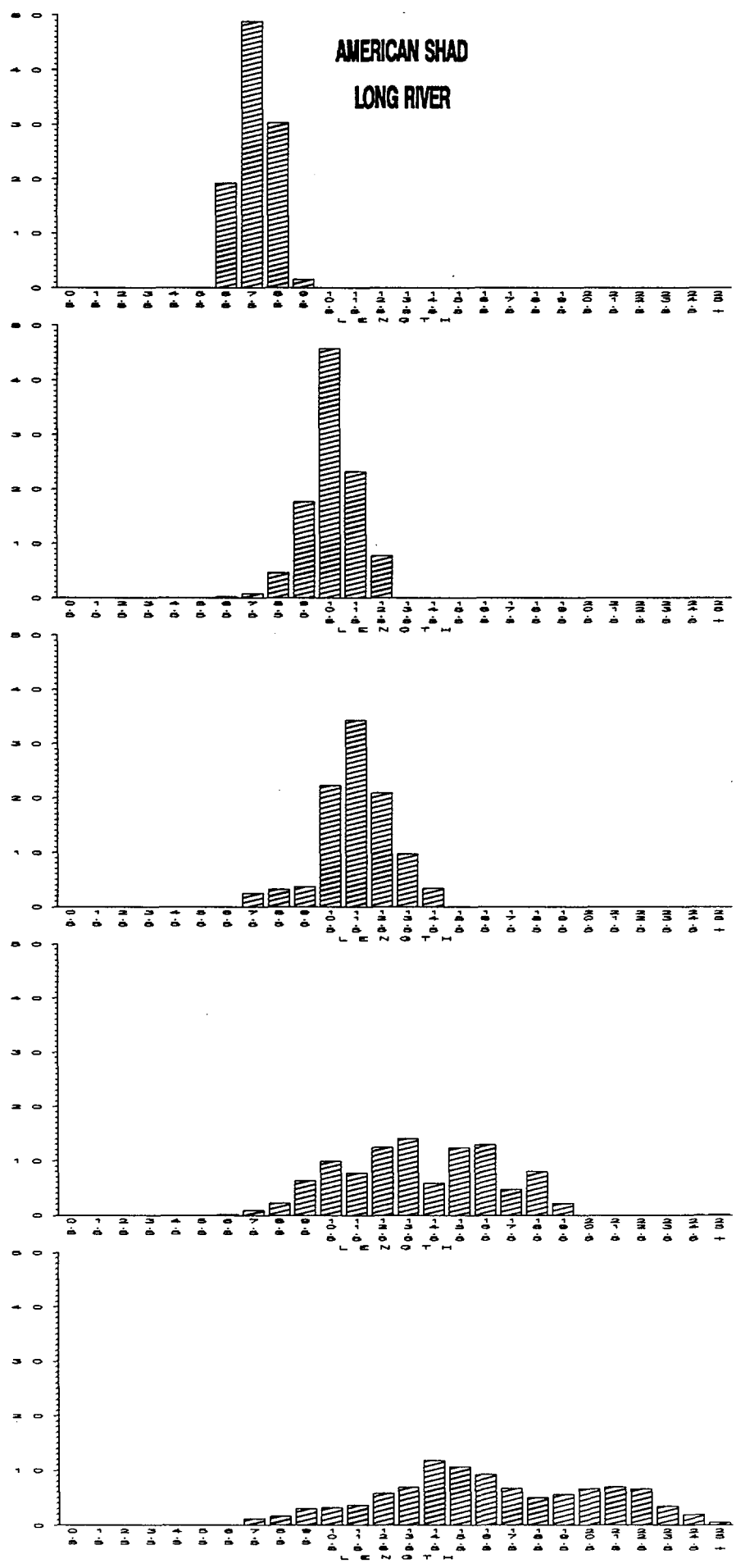
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05/12/86

05/19/86

05/26/86

FREQUENCY



AMERICAN SHAD  
LONG RIVER

06/02/86

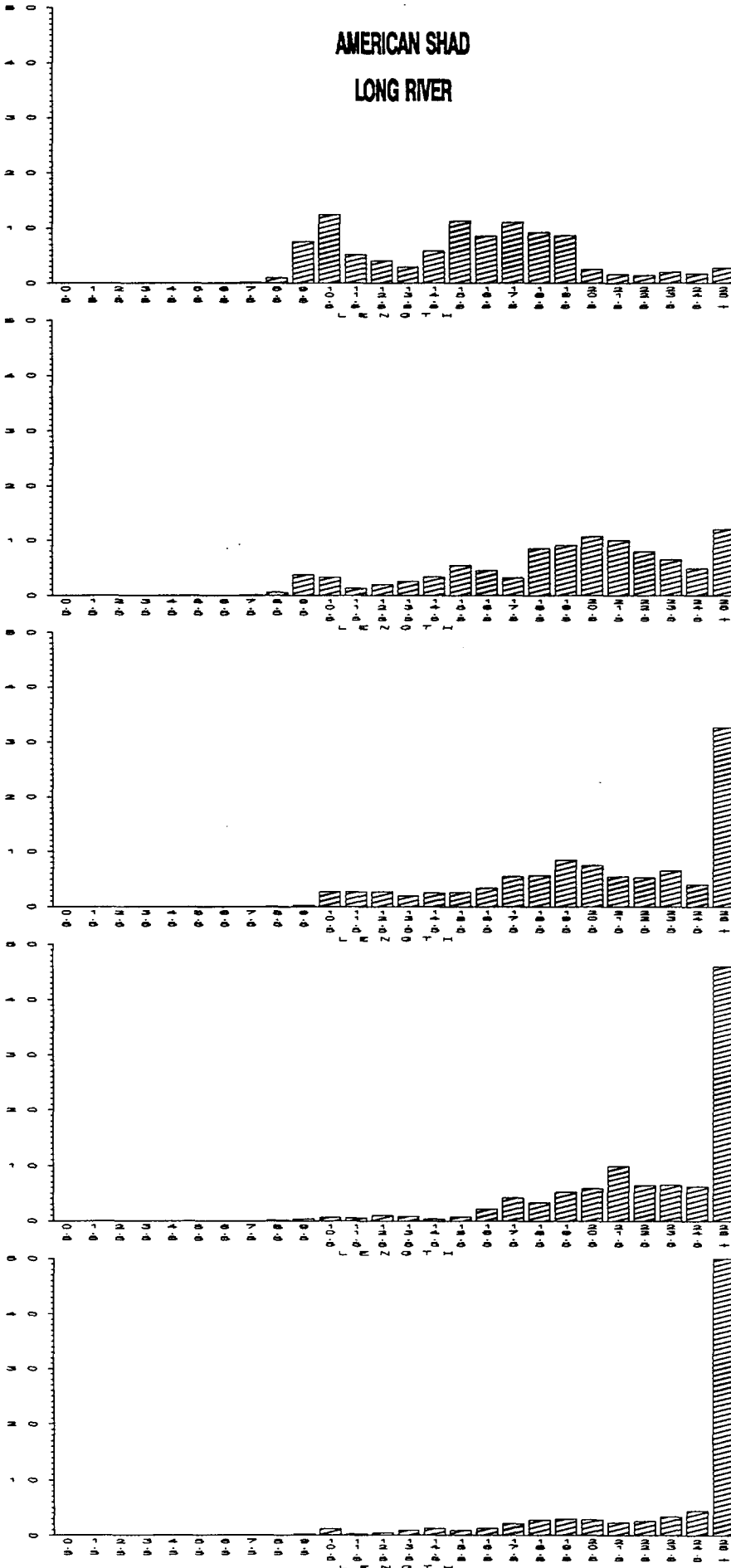
06/09/86

06/16/86

06/23/86

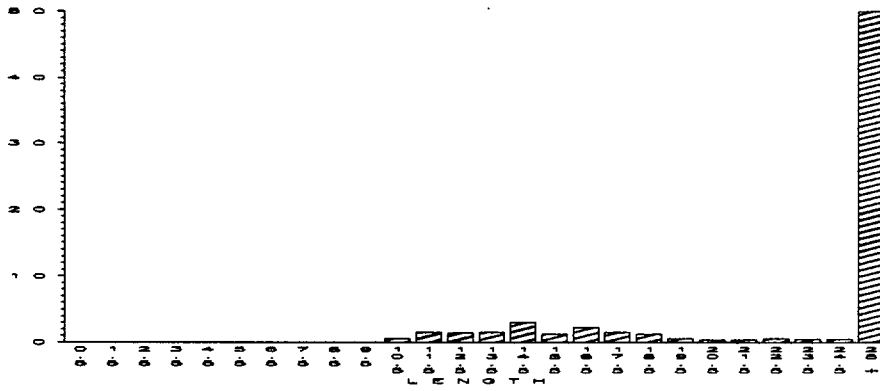
06/30/86

FREQUENCY



AMERICAN SHAD  
LONG RIVER

FREQUENCY

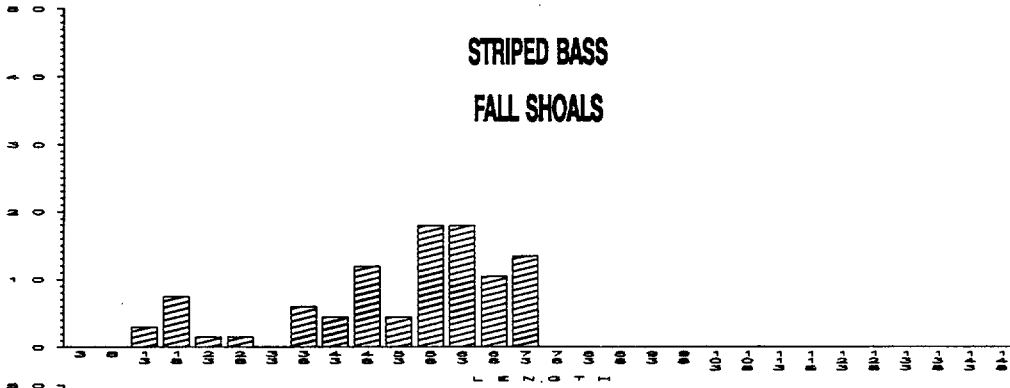


07/07/86

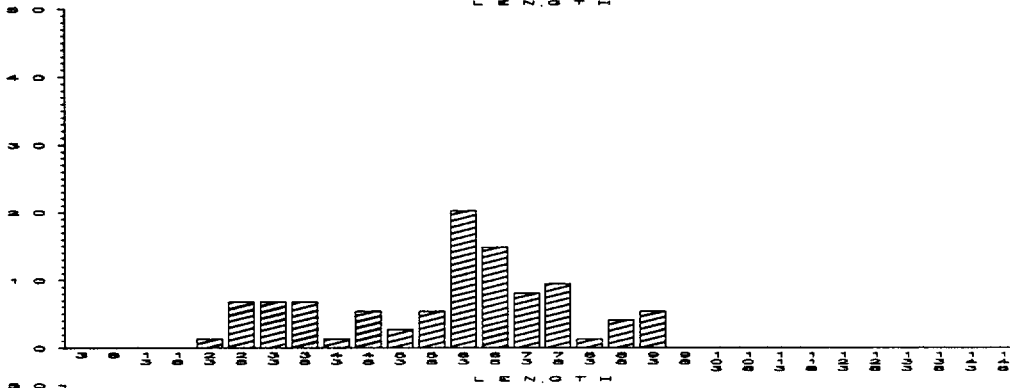


STRIPED BASS  
FALL SHOALS

07/21/86

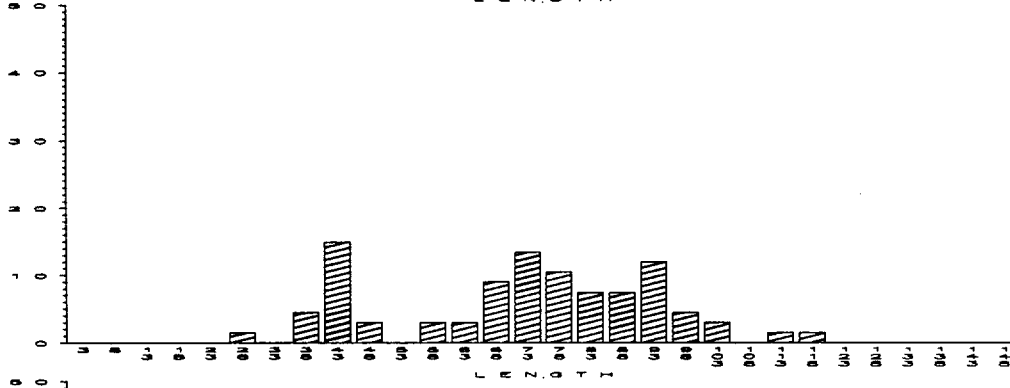


08/04/86

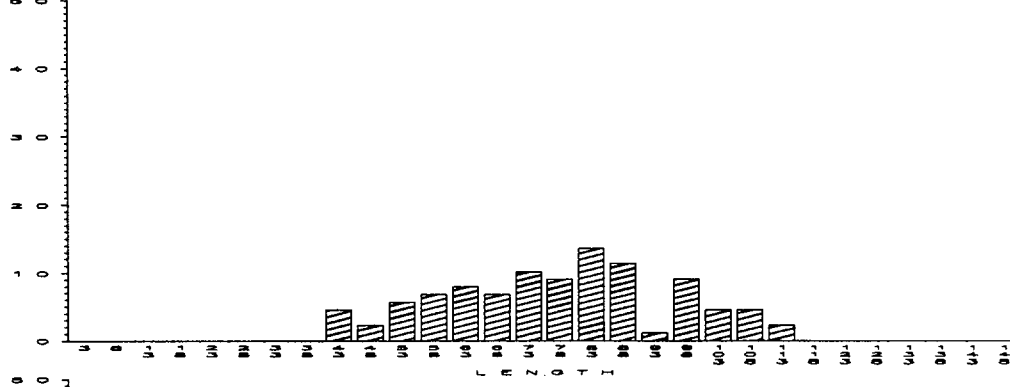


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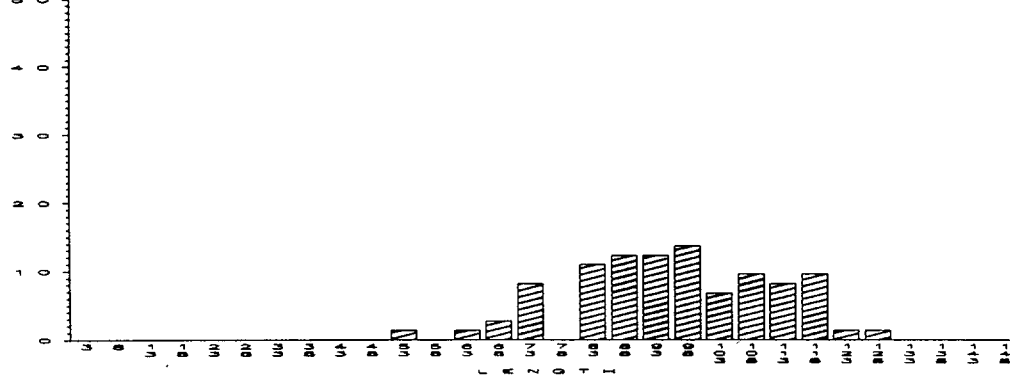
FREQUENCY



09/01/86

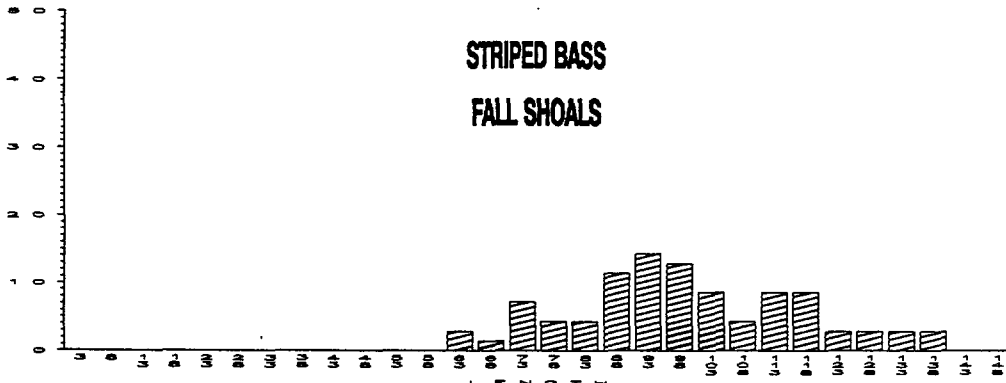


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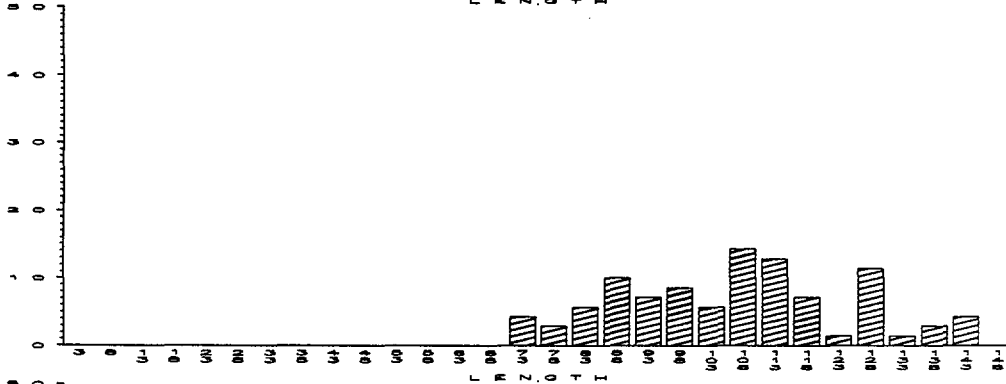


**STRIPED BASS  
FALL SHOALS**

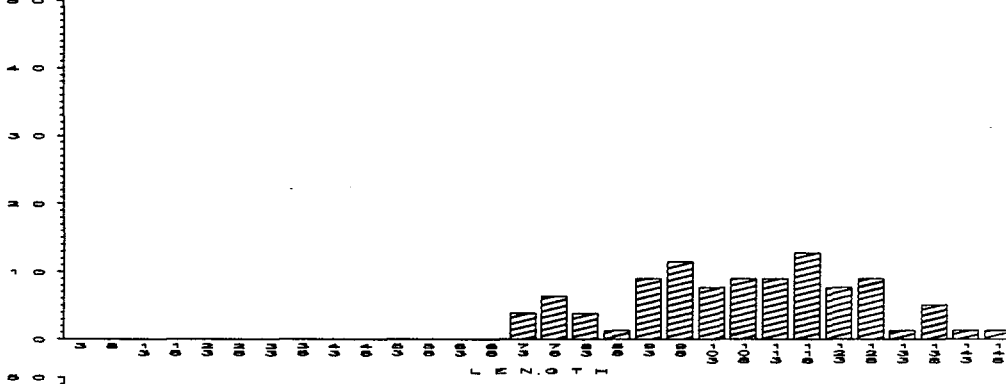
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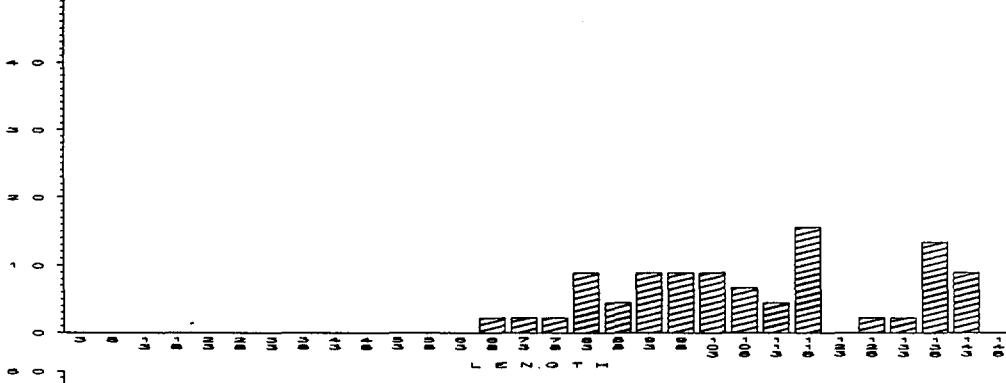
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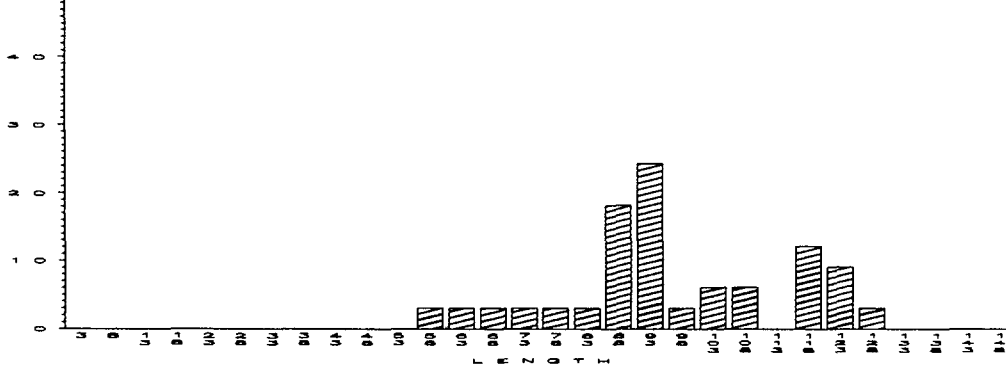
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11/10/86



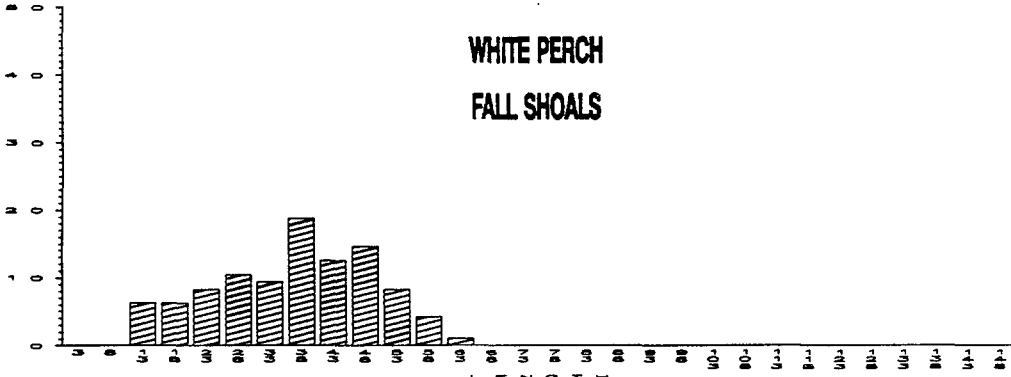
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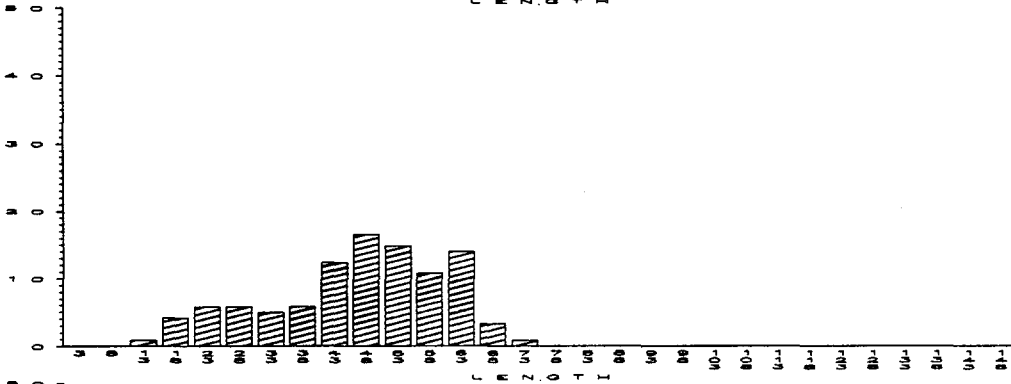
FREQUENCY

WHITE PERCH  
FALL SHOALS

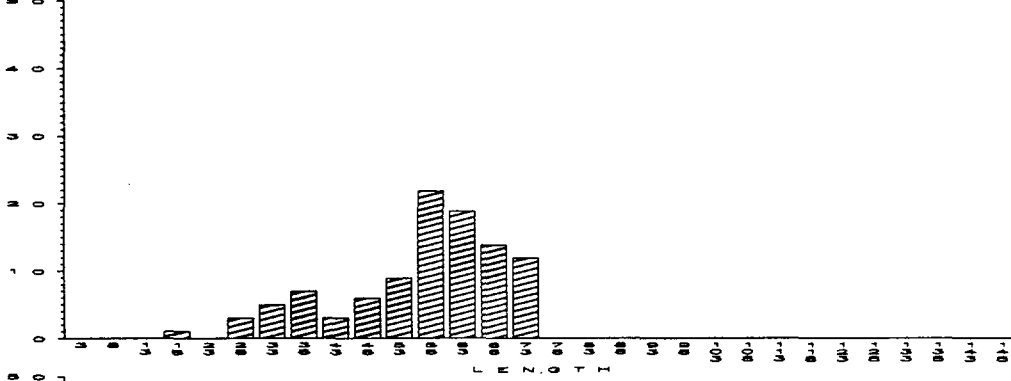
07/21/86



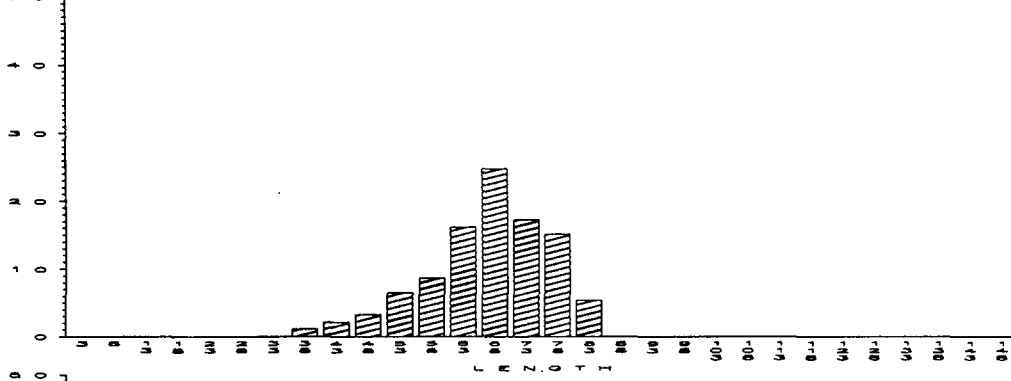
08/04/86



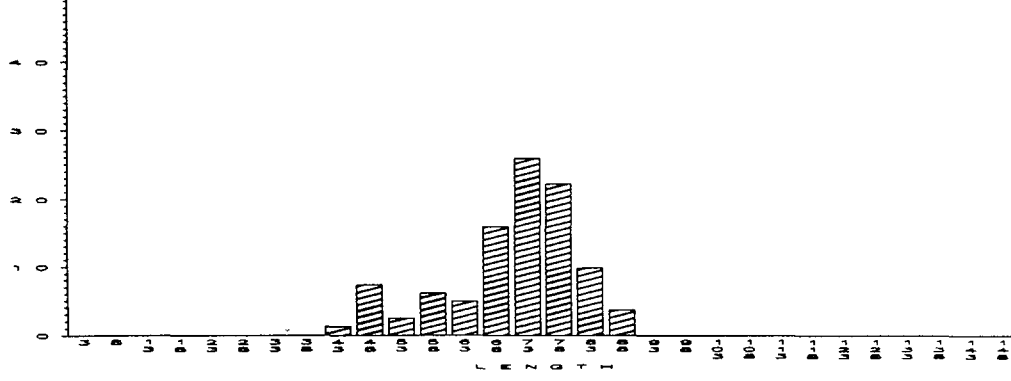
08/18/86



09/01/86



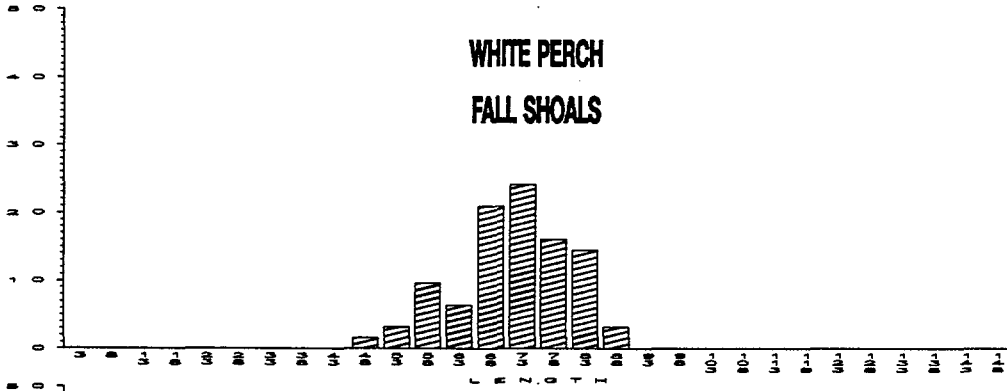
09/15/86



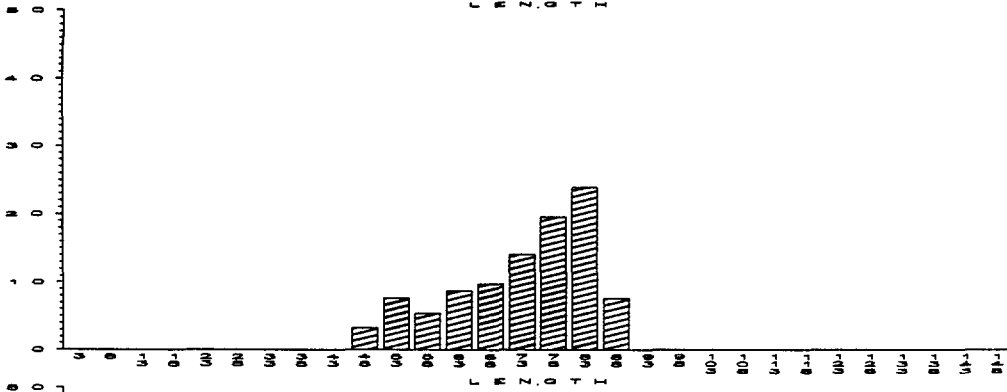
FREQUENCY

**WHITE PERCH  
FALL SHOALS**

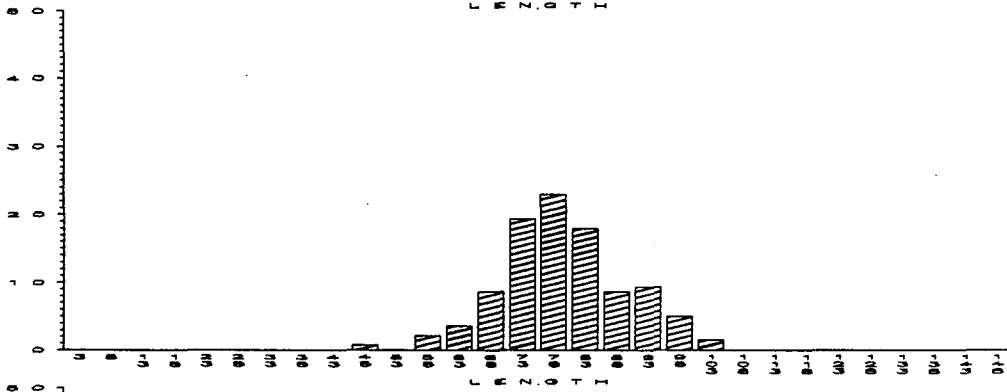
09/29/86



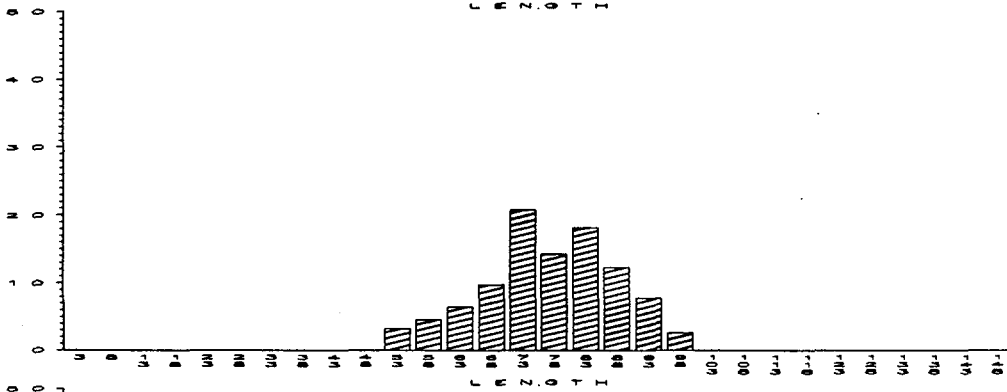
10/13/86



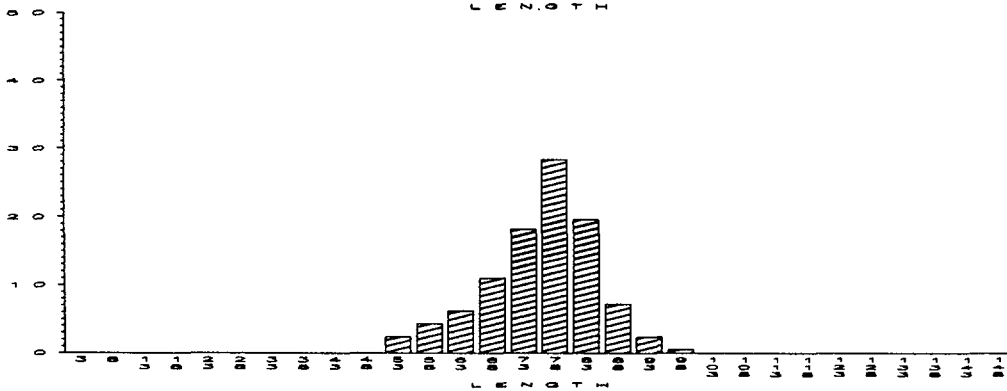
10/27/86



11/10/86



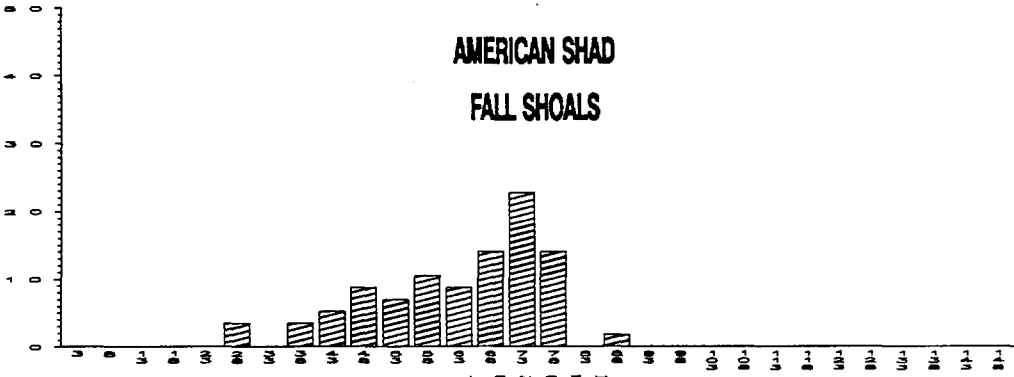
11/24/86



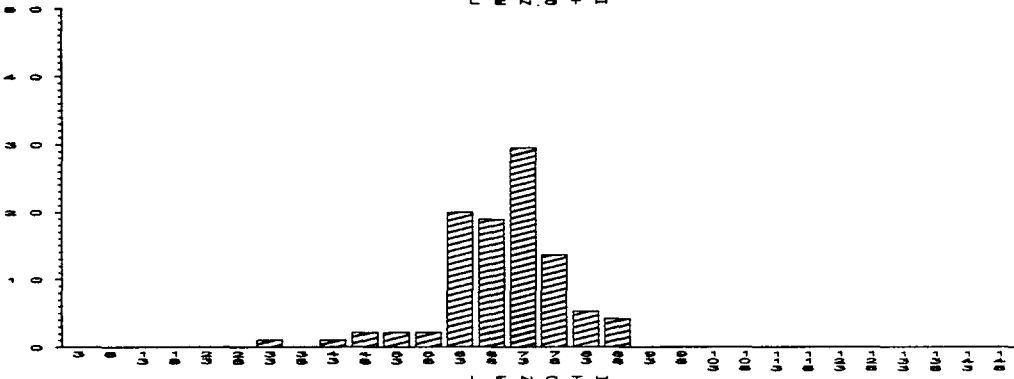
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FREQUENCY

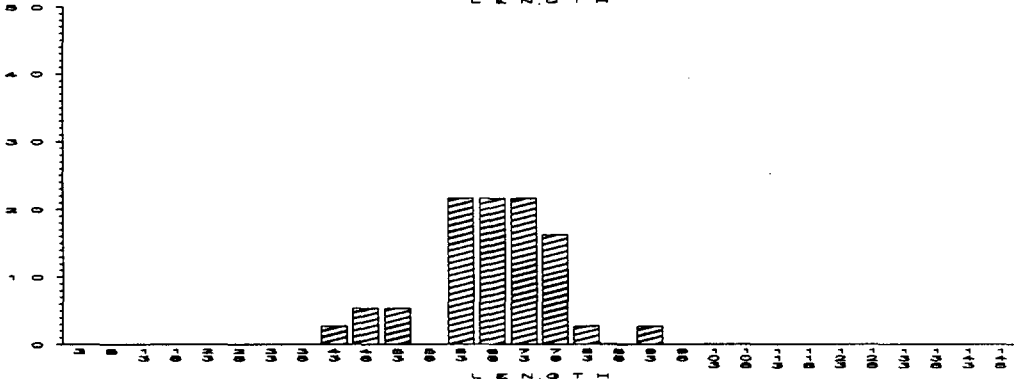
AMERICAN SHAD  
FALL SHOALS



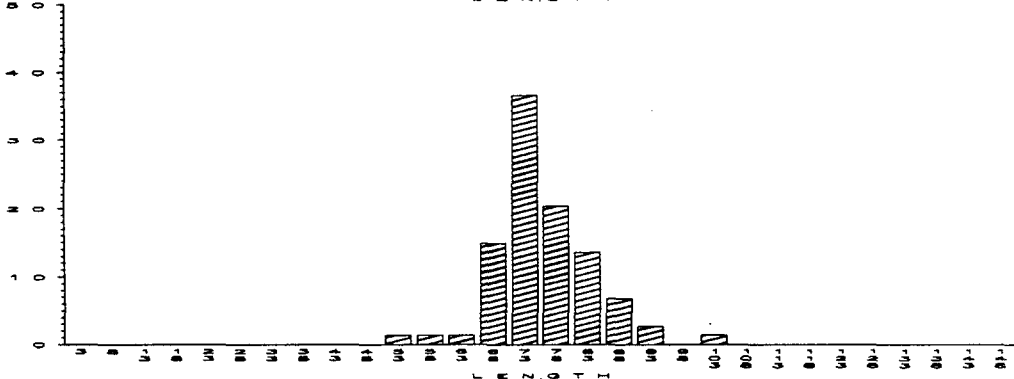
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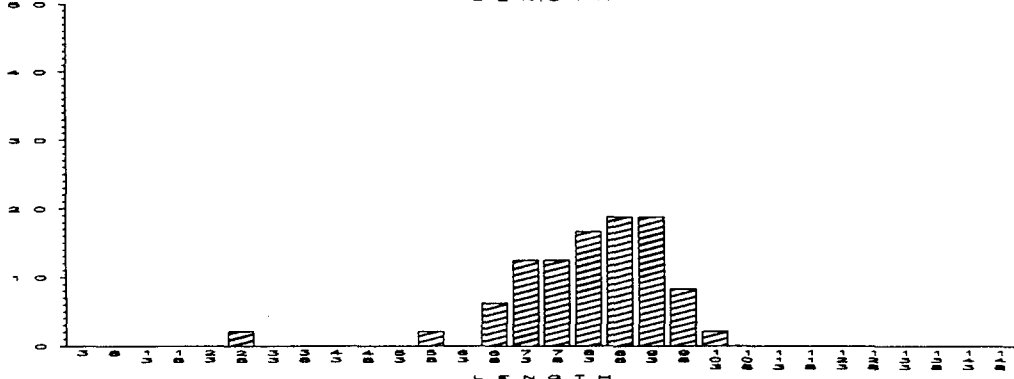
08/04/86



08/18/86



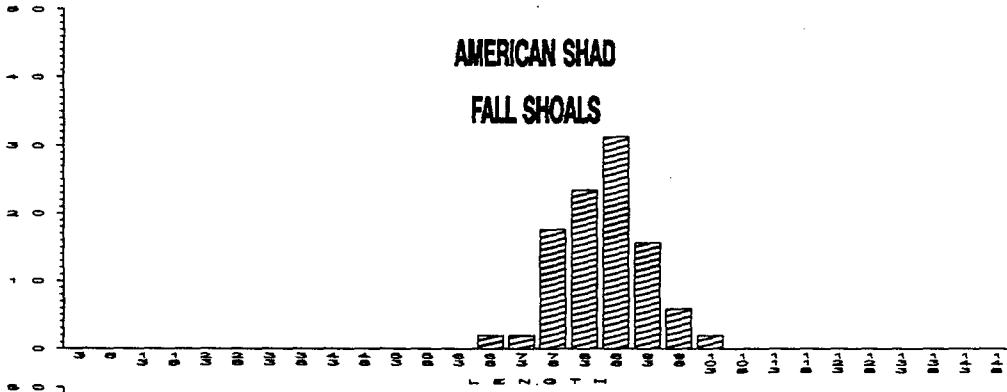
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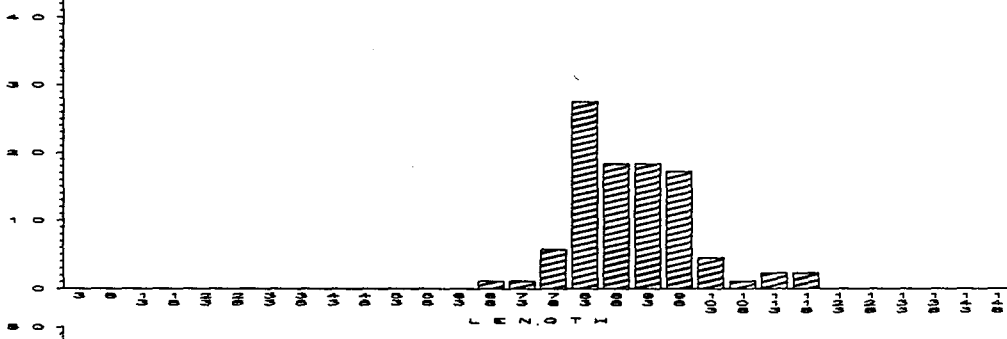
09/15/86

FREQUENCY

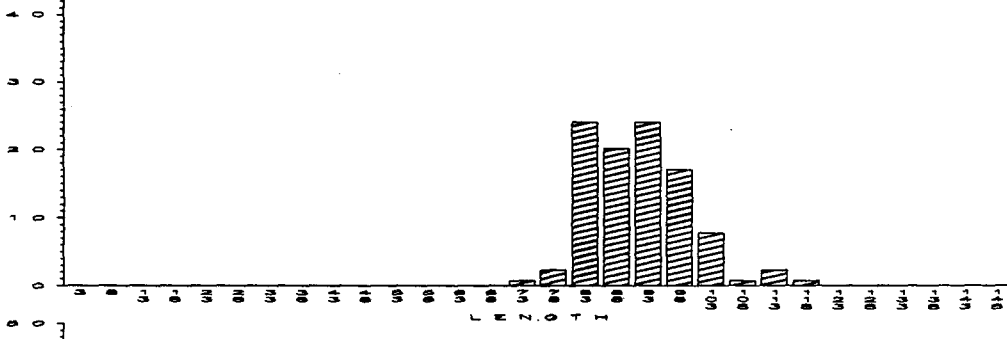
# AMERICAN SHAD FALL SHOALS



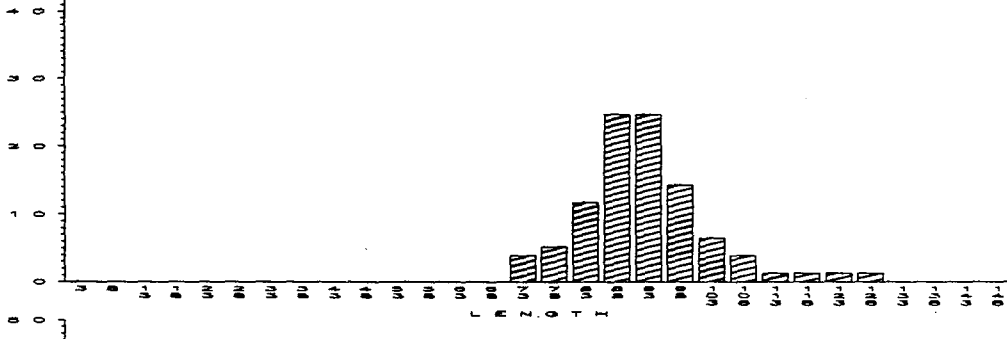
09/29/86



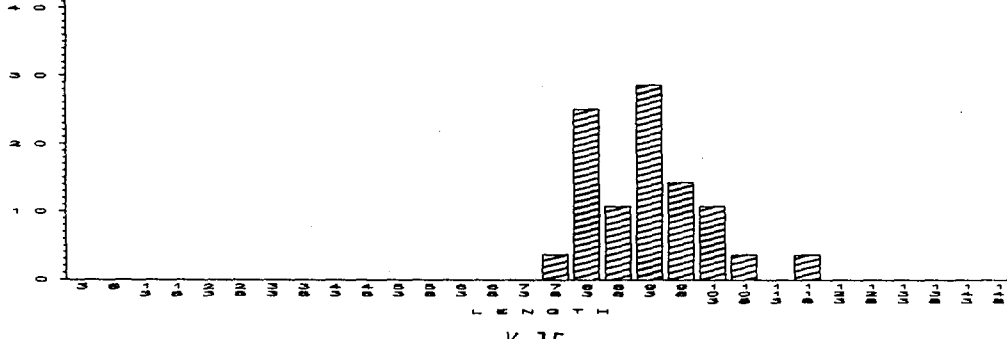
10/13/86



10/27/86



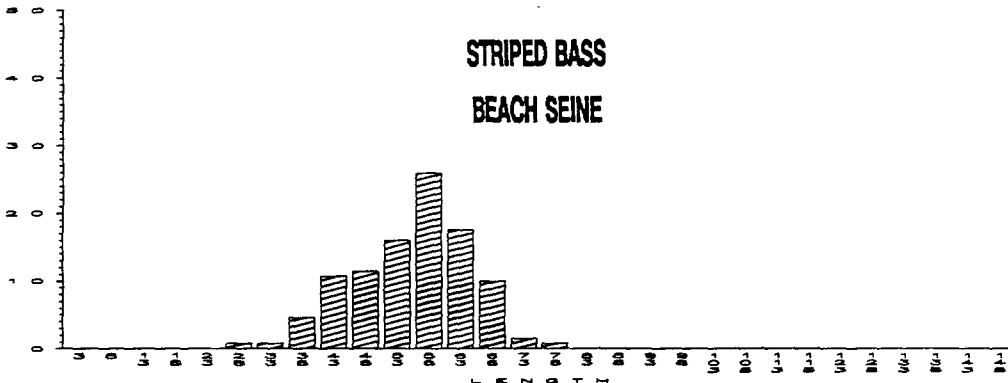
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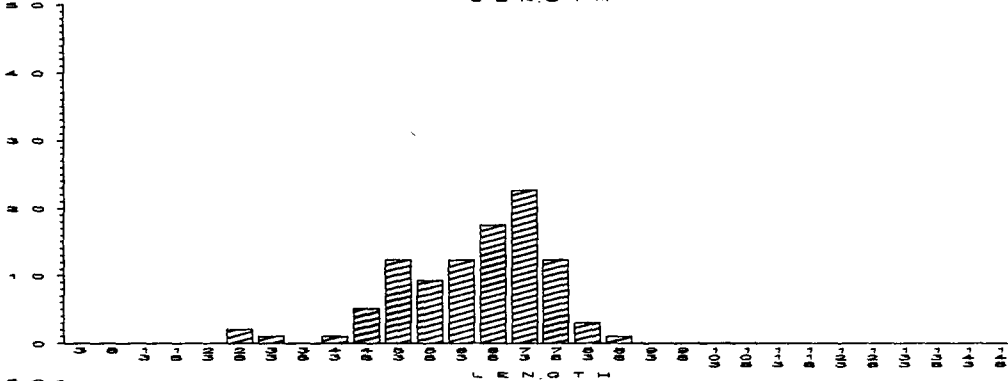
11/24/86

**STRIPED BASS  
BEACH SEINE**

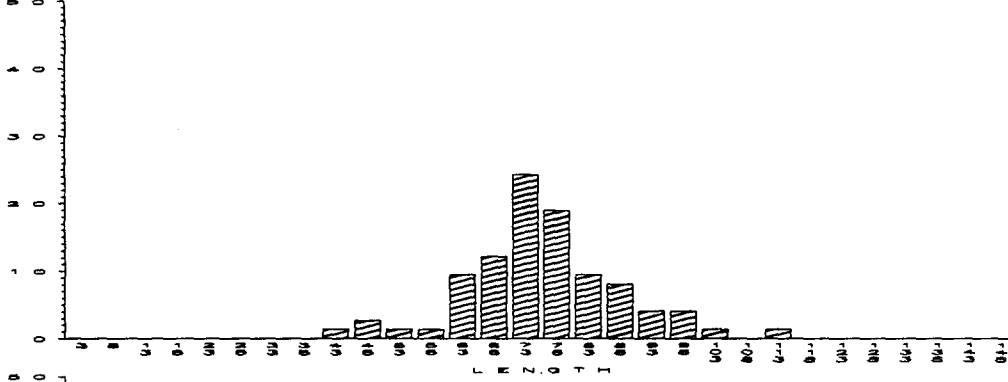
07/14/86



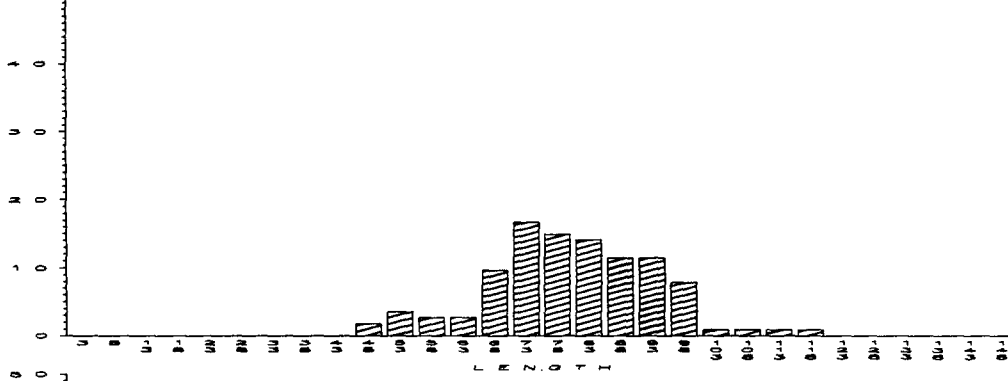
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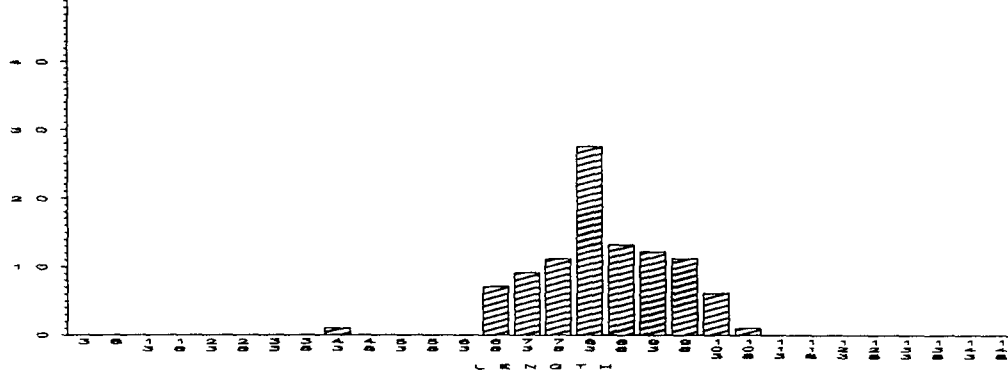
08/11/86



08/25/86



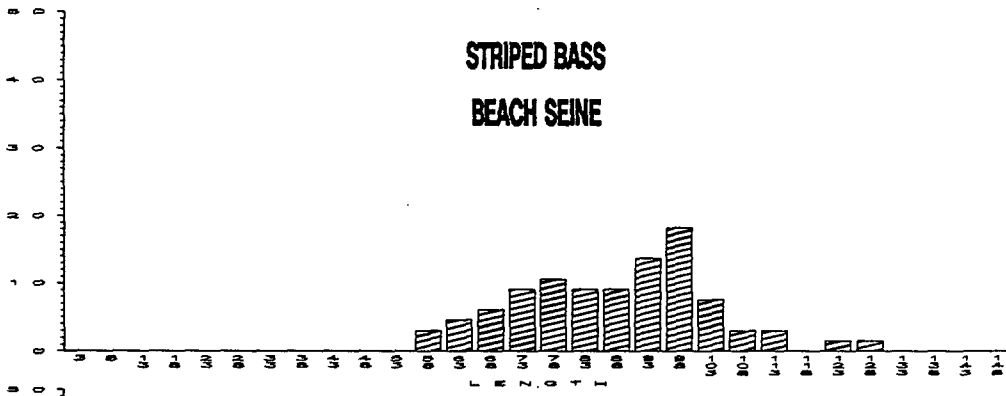
09/08/86



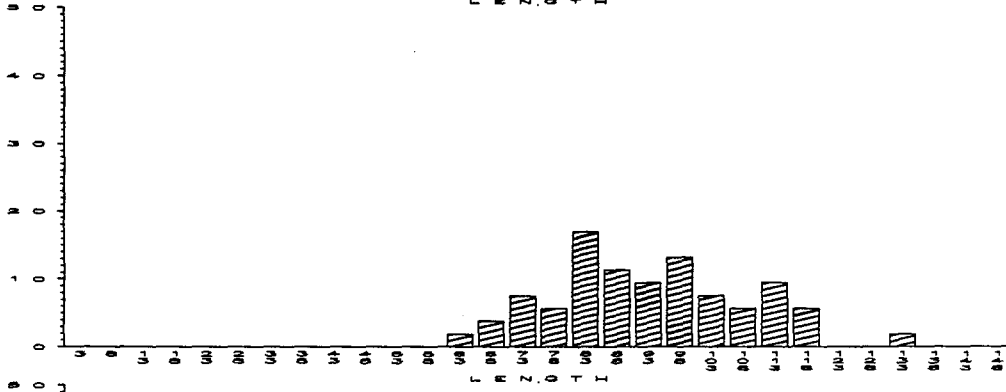
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**STRIPED BASS  
BEACH SEINE**

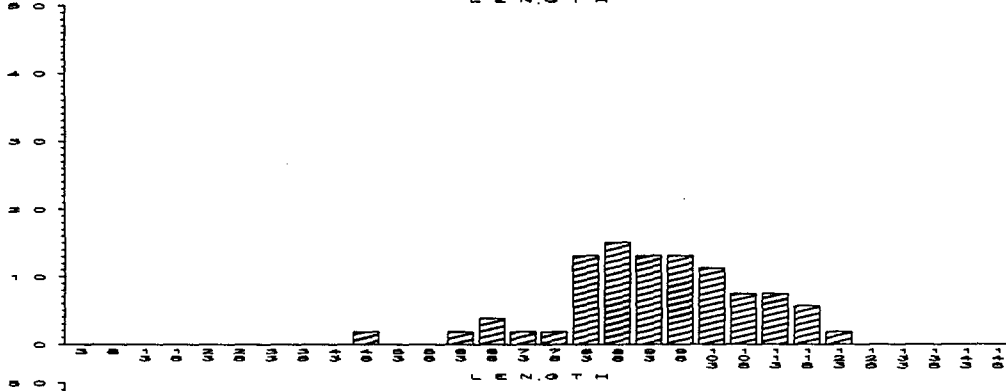
09/22/86



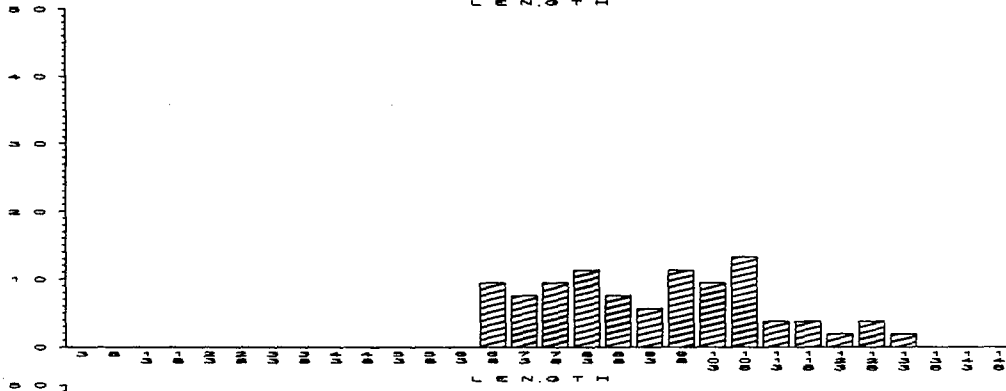
10/06/86



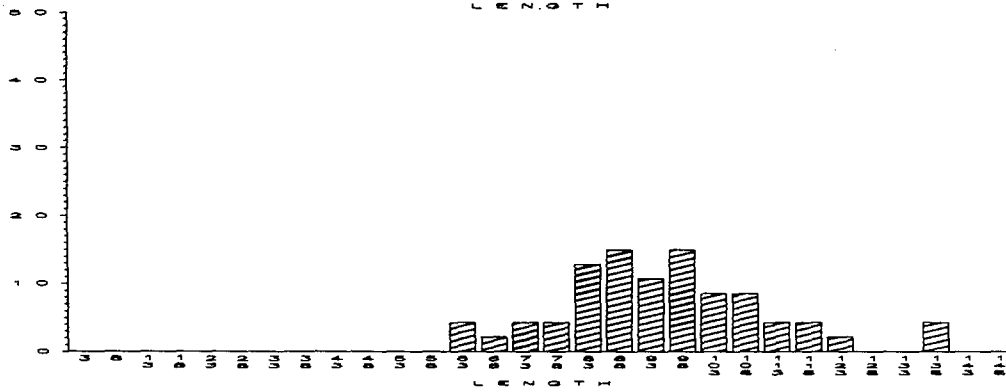
10/20/86



11/03/86



11/17/86



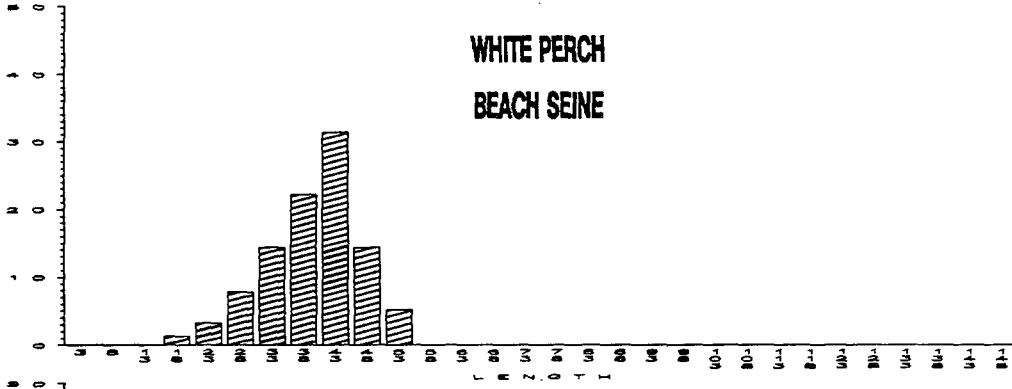
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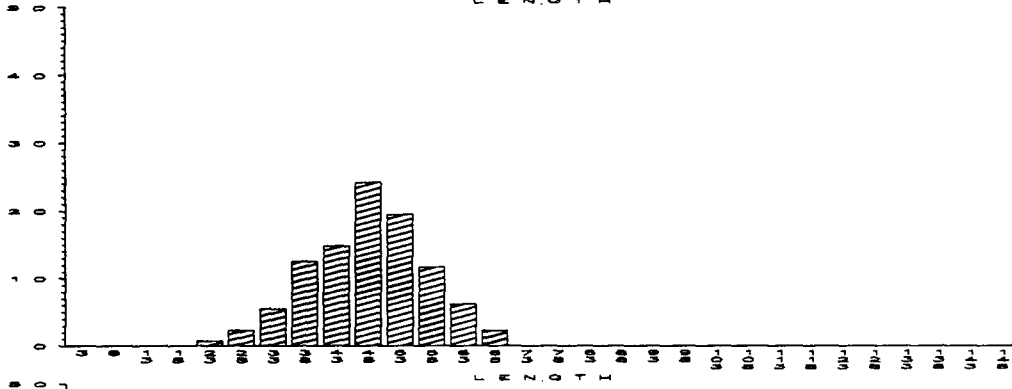
FREQUENCY

WHITE PERCH  
BEACH SEINE

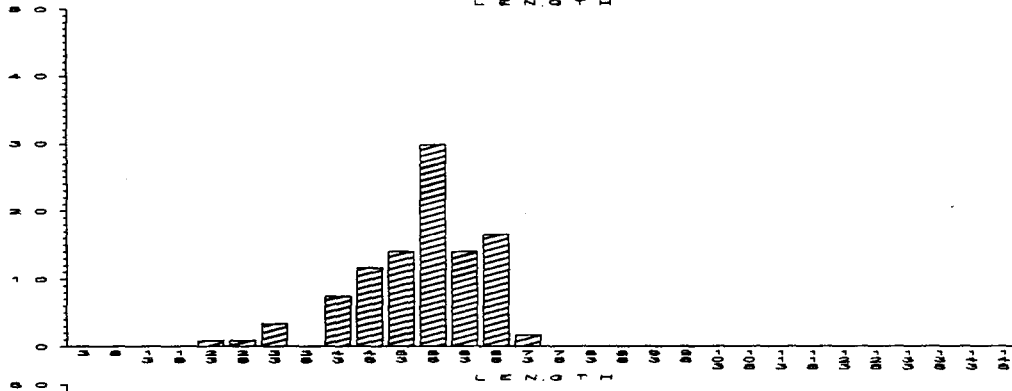
07/14/86



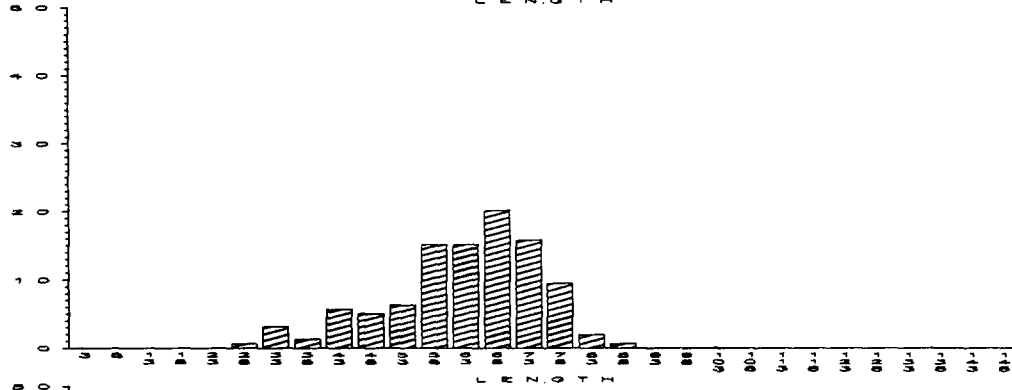
07/23/86



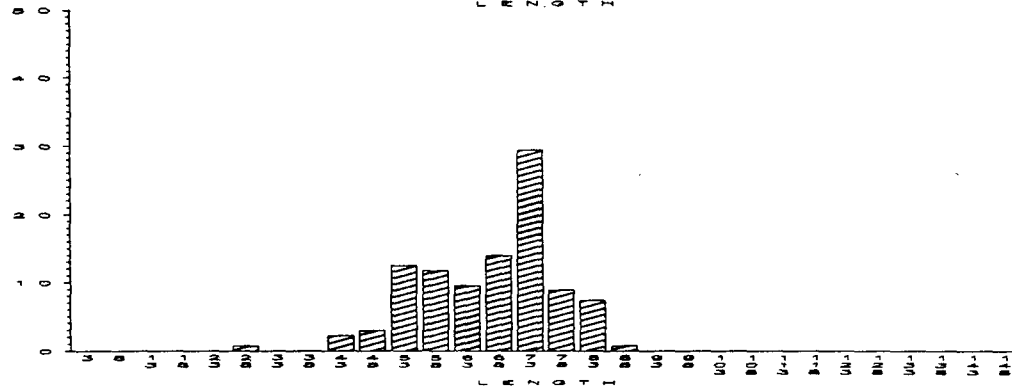
08/11/86



08/25/86

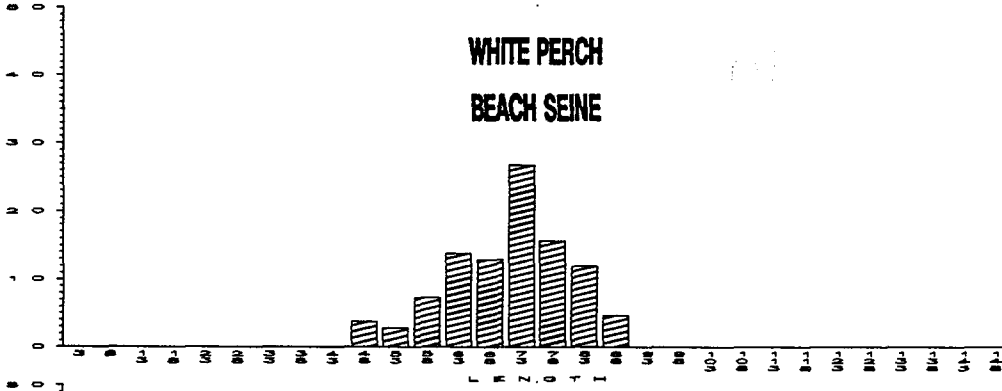


09/08/86

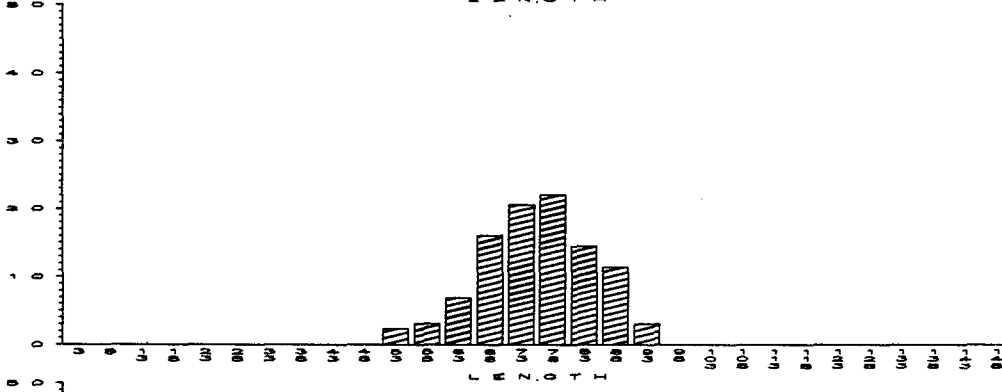


**WHITE PERCH  
BEACH SEINE**

09/22/86

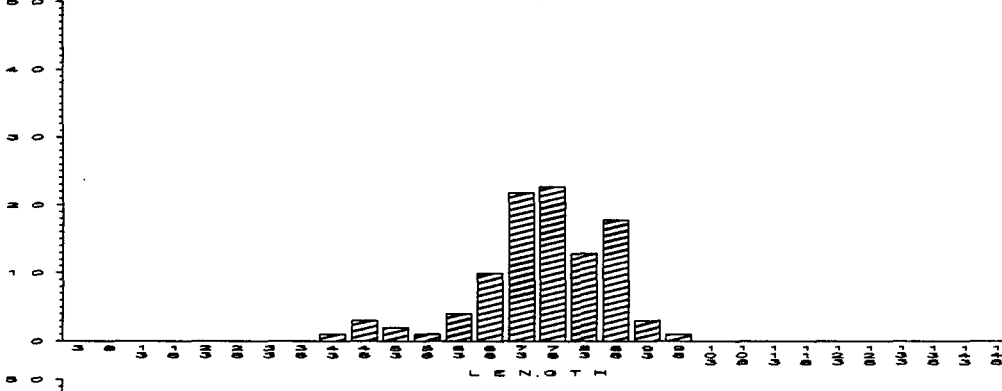


10/06/86

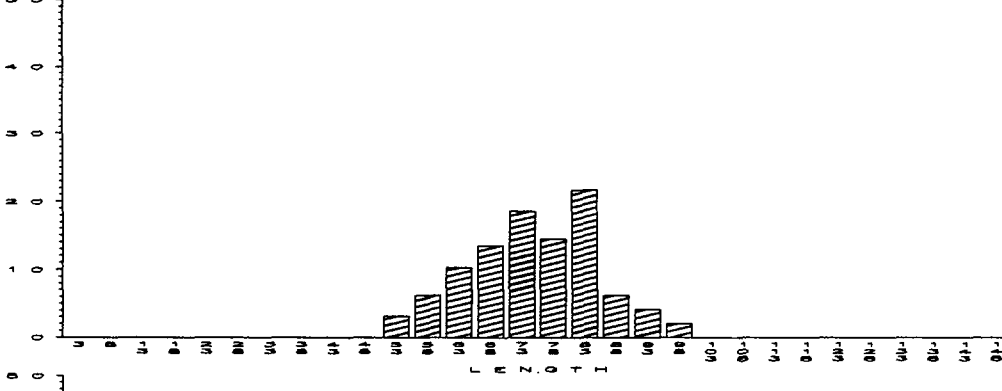


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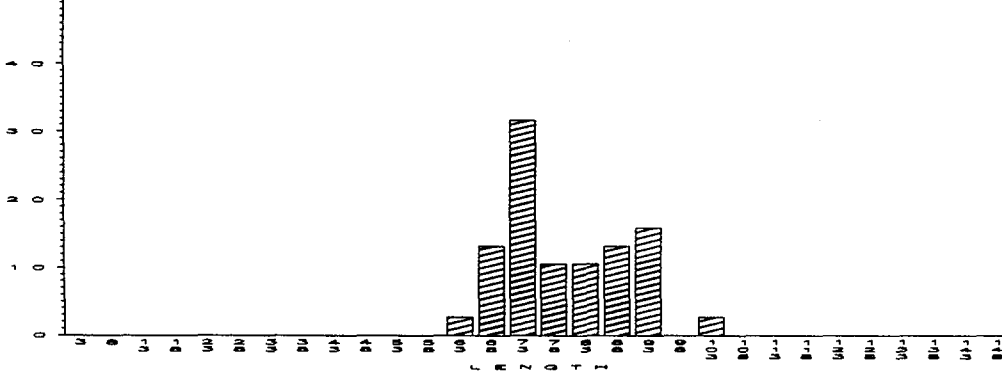
10/20/86



11/03/86

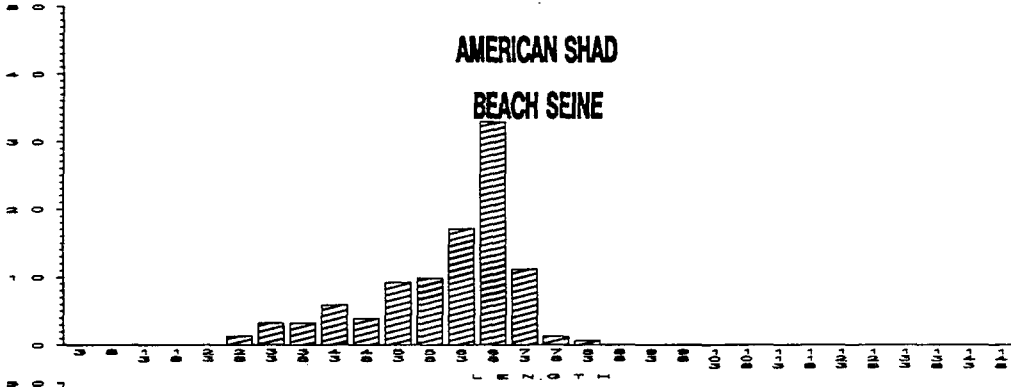


11/17/86

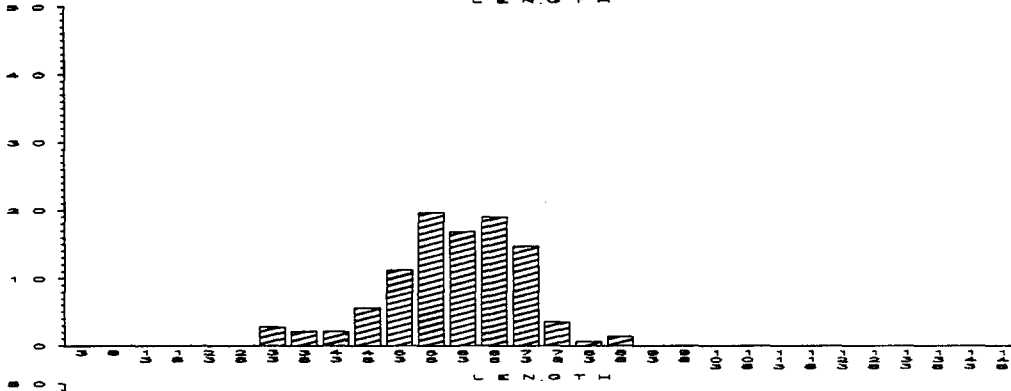


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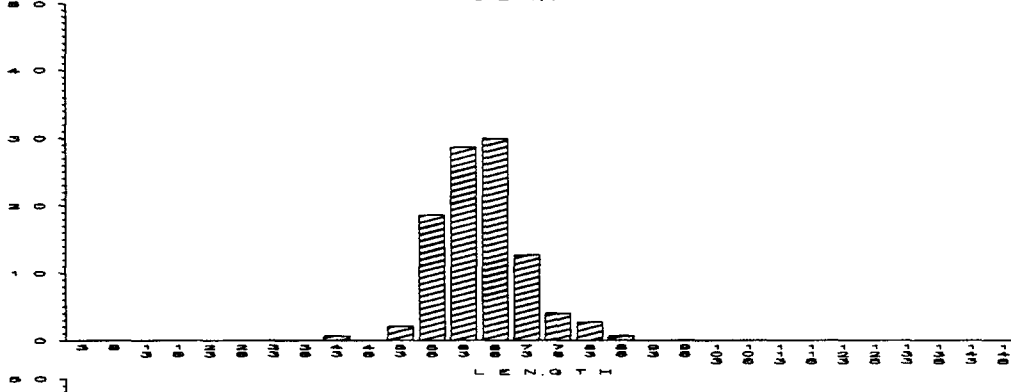
AMERICAN SHAD  
BEACH SEINE



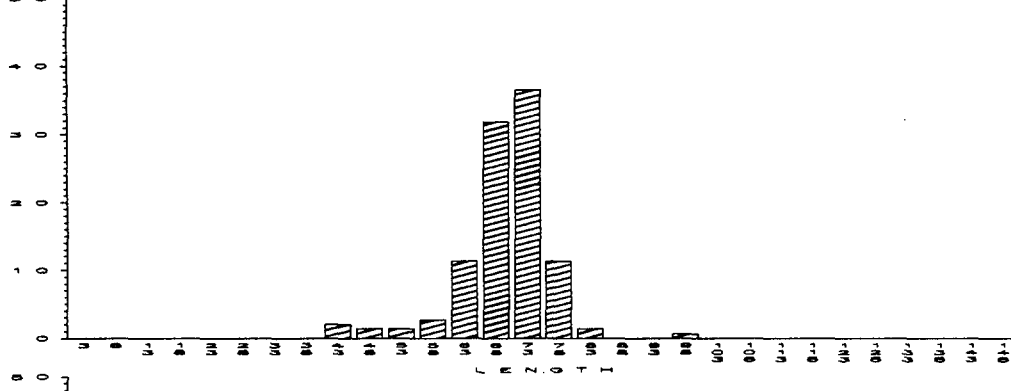
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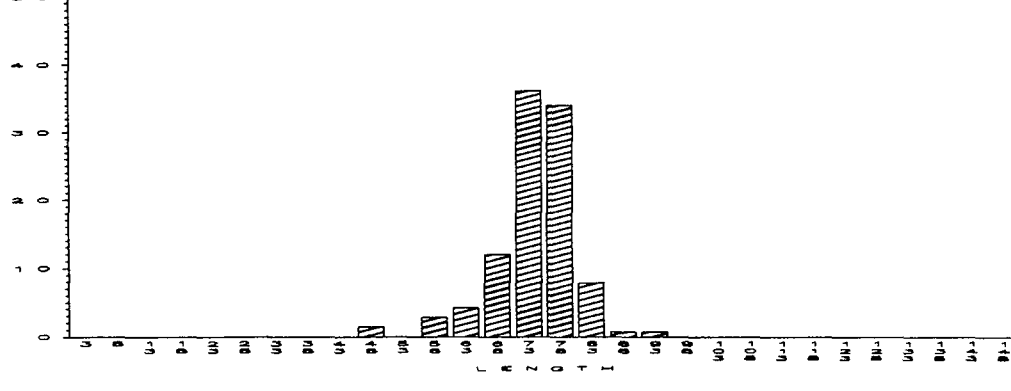
07/28/86



08/11/86



08/25/86

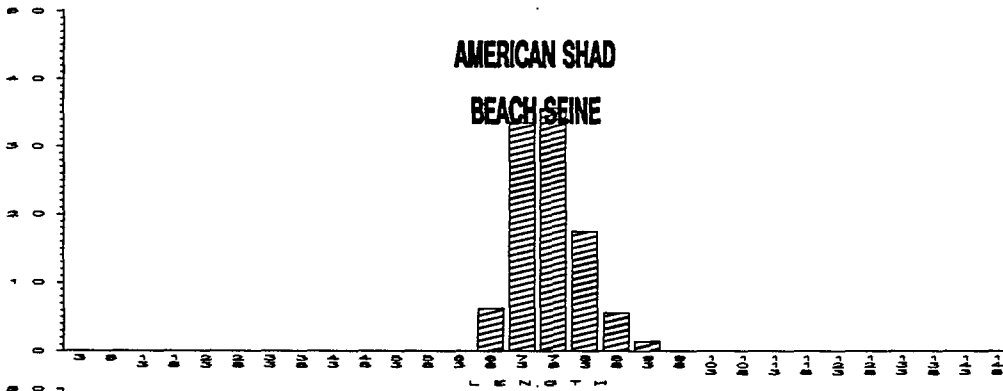


09/08/86

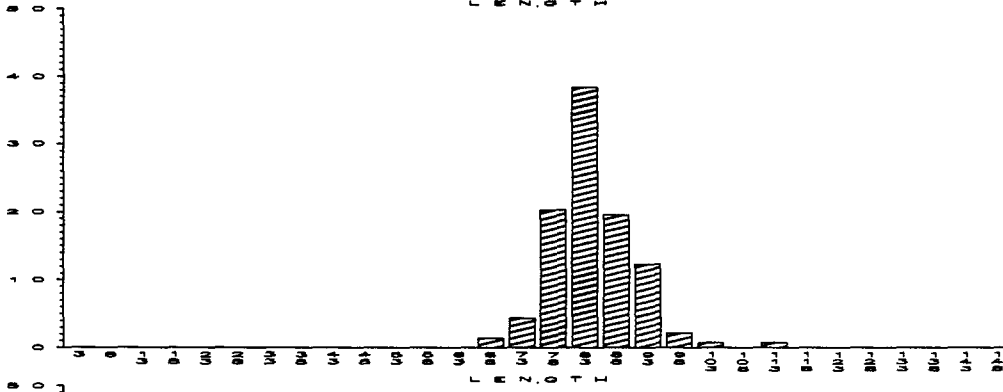
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**AMERICAN SHAD  
BEACH SEINE**

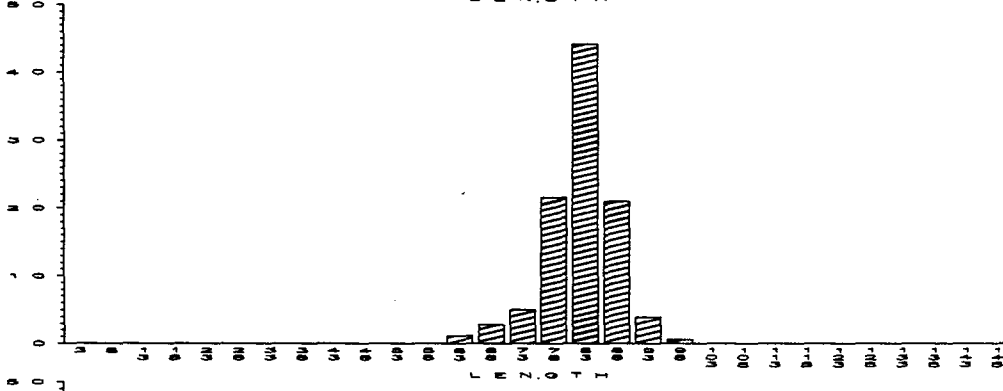
09/22/86



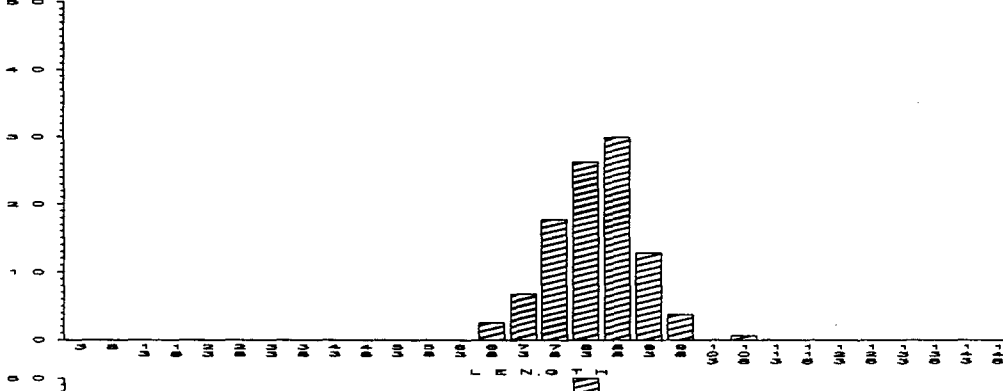
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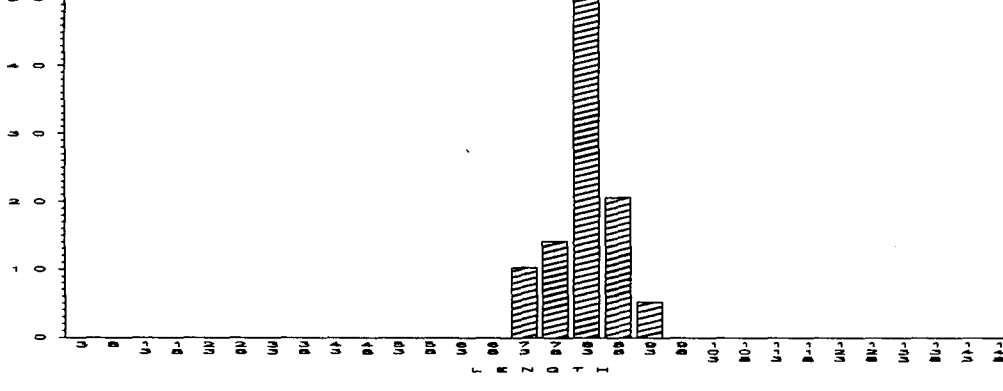
10/20/86



11/03/86



11/17/86



STRIPED BASS  
LONG RIVER

04/27/87

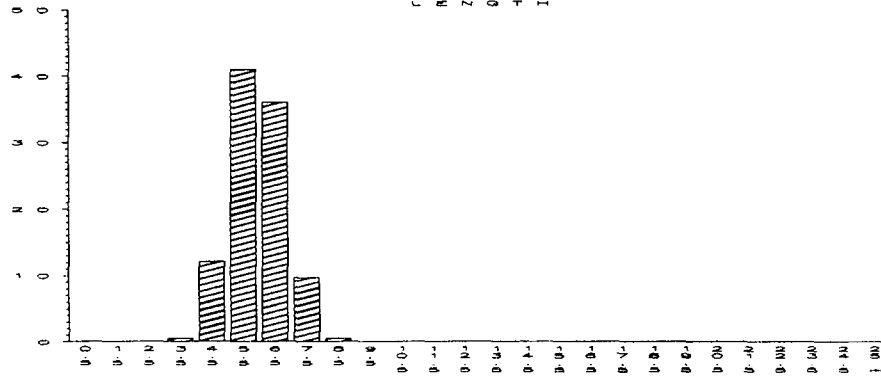
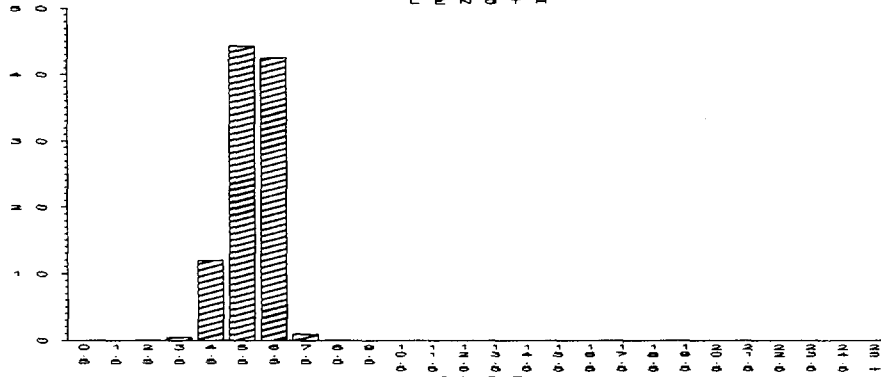
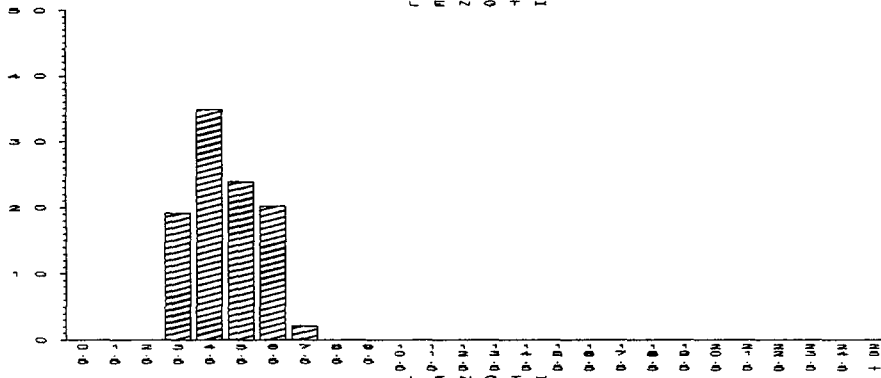
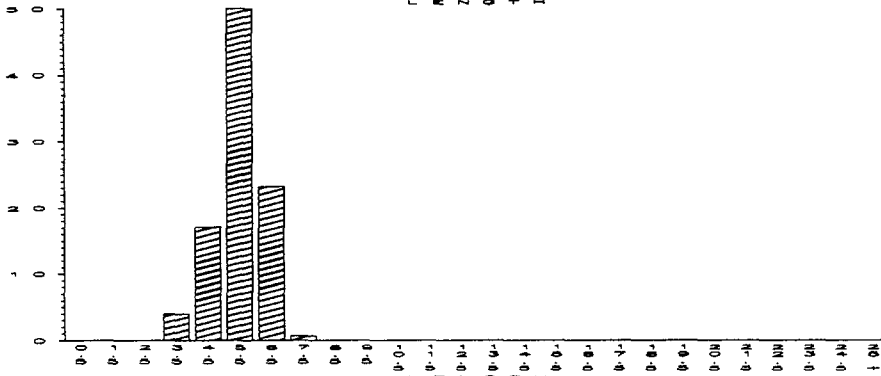
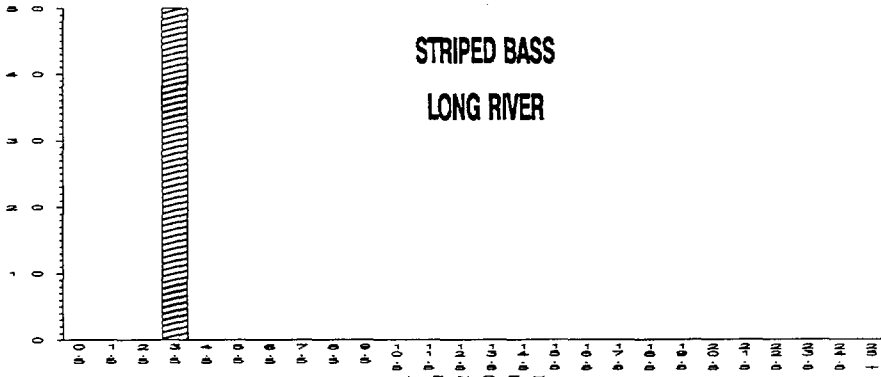
05/04/87

05/11/87

05/18/87

05/25/87

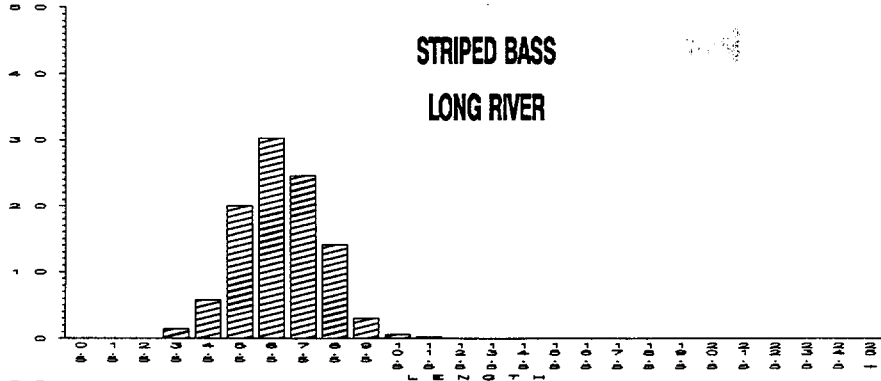
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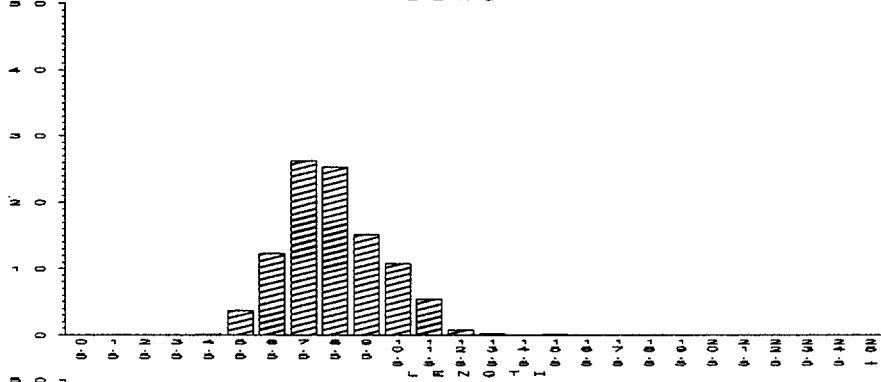
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**STRIPED BASS  
LONG RIVER**

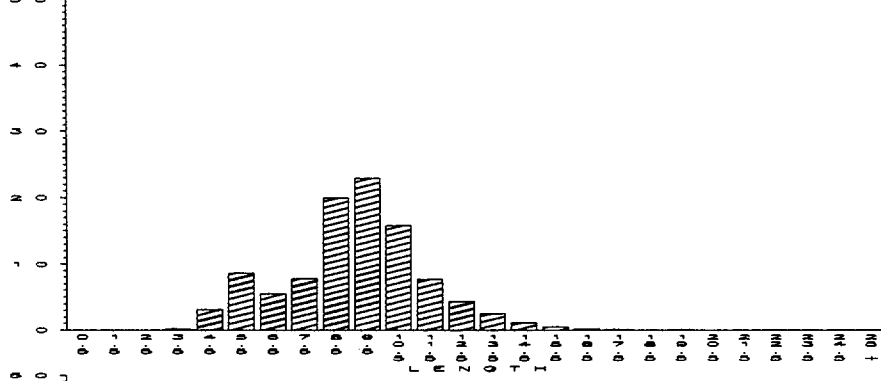
06/01/87



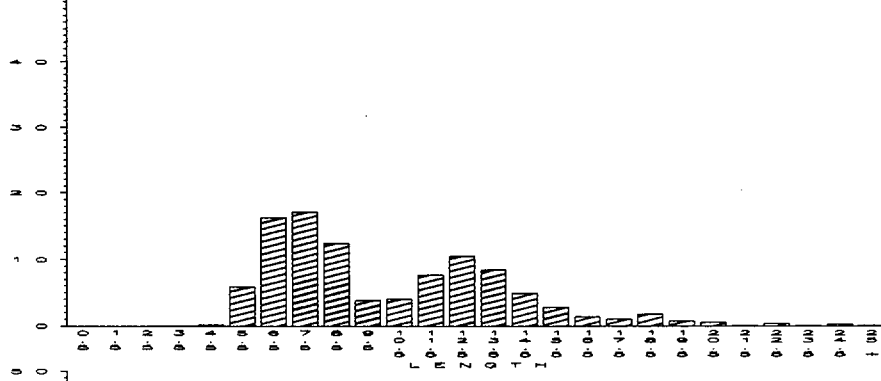
06/08/87



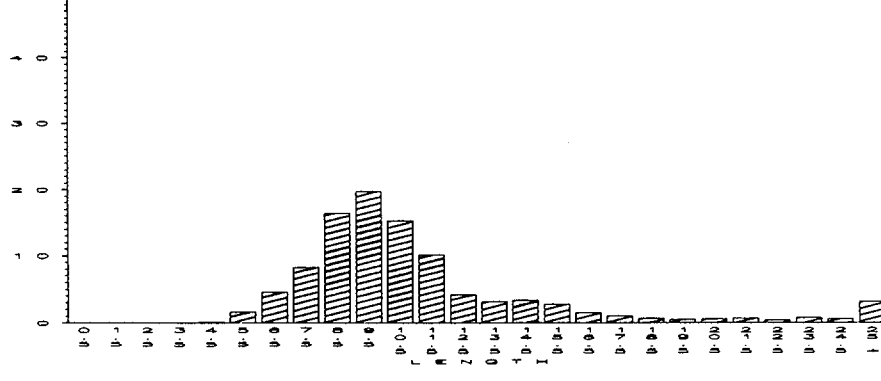
06/15/87



06/22/87

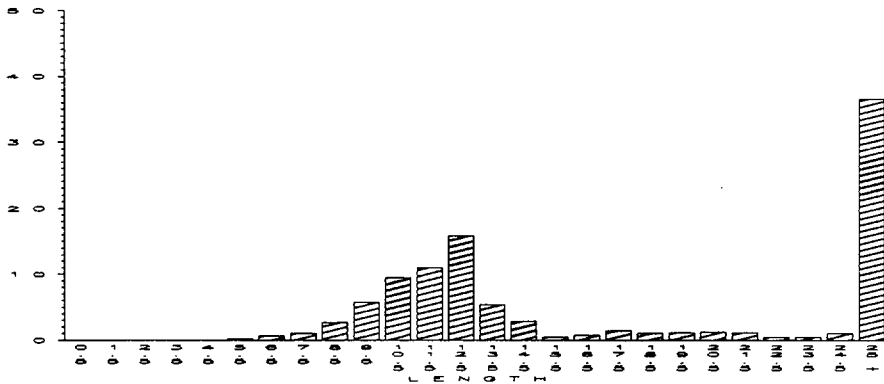


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STRIPED BASS  
LONG RIVER

FREQUENCY



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FREQUENCY

WHITE PERCH  
LONG RIVER

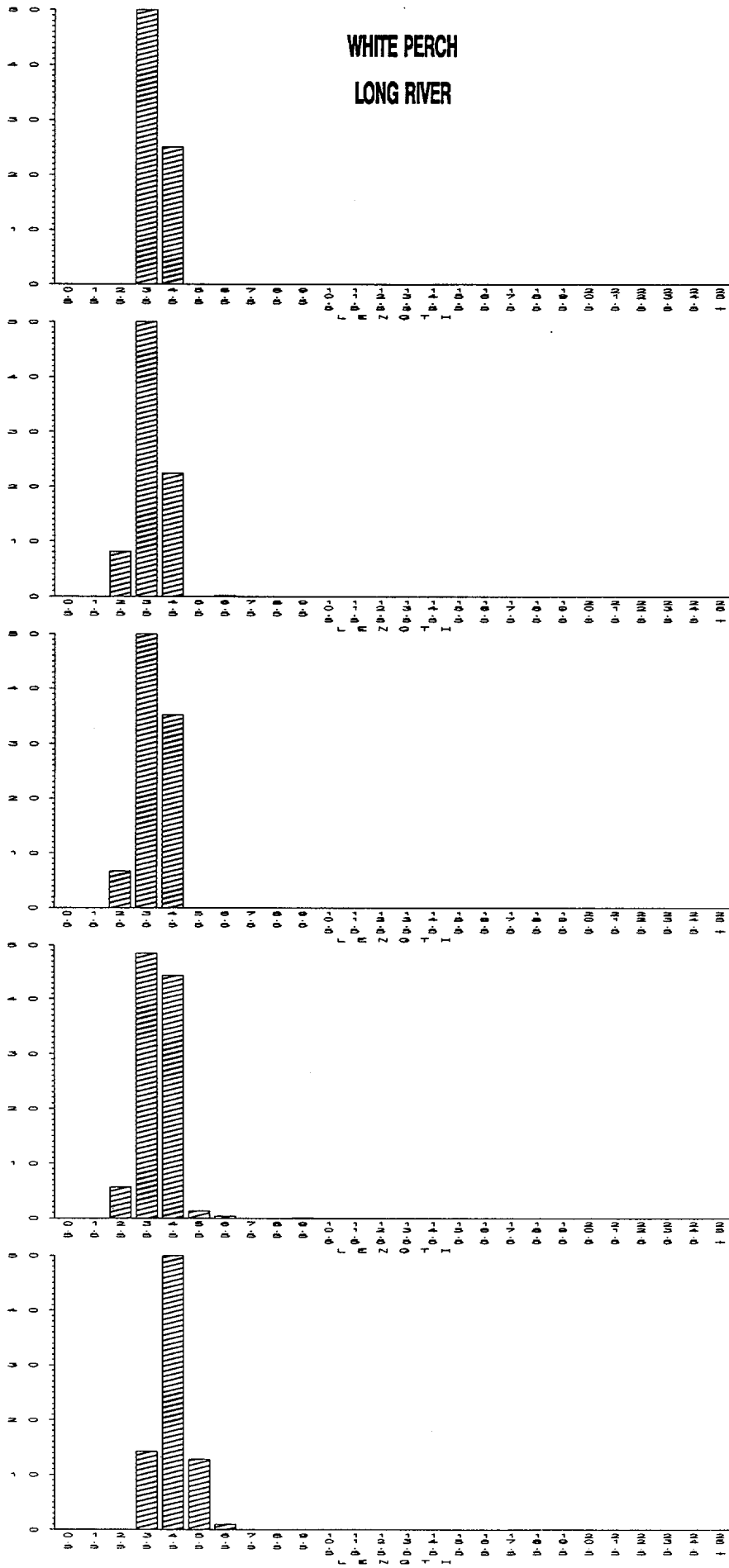
04/20/87

04/27/87

05/04/87

05/11/87

05/18/87





FREQUENCY

WHITE PERCH  
LONG RIVER

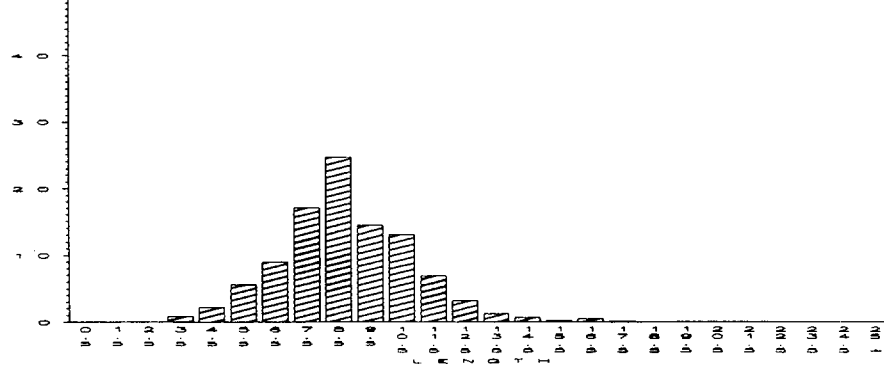
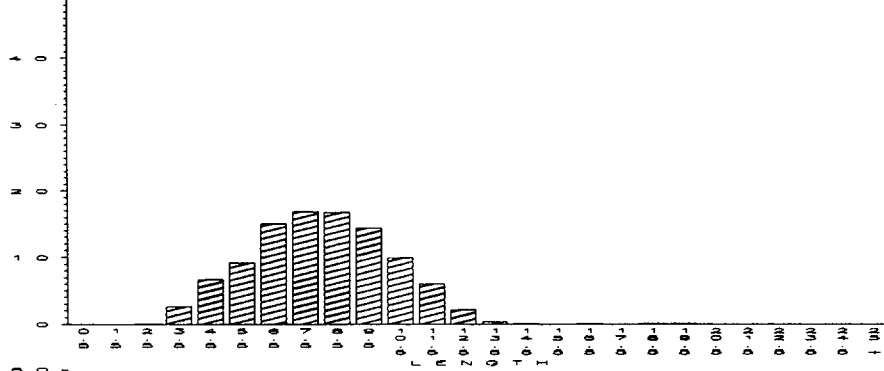
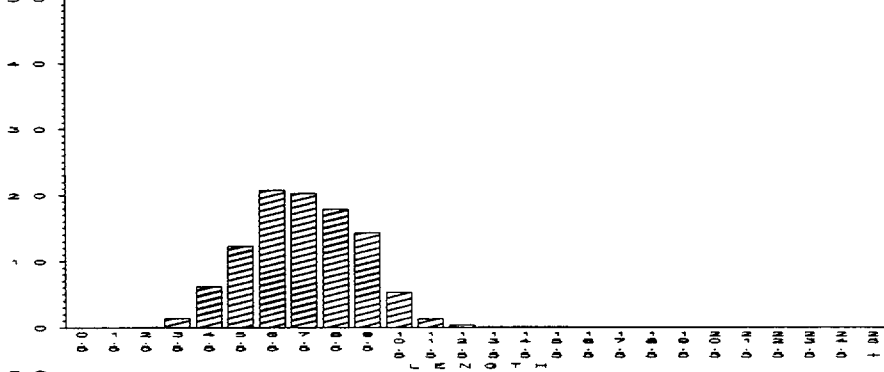
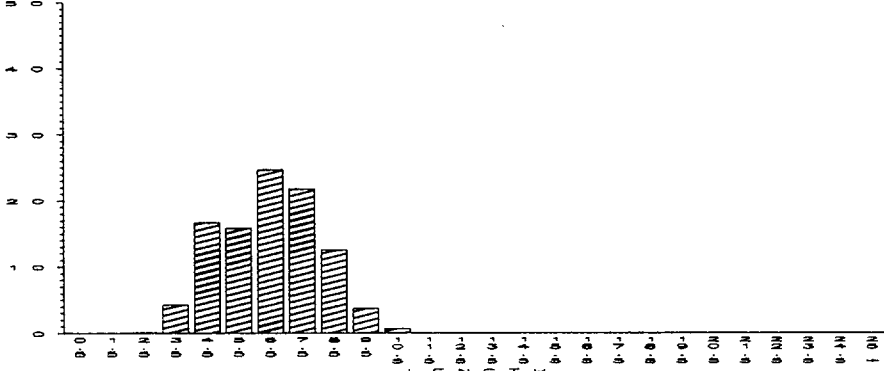
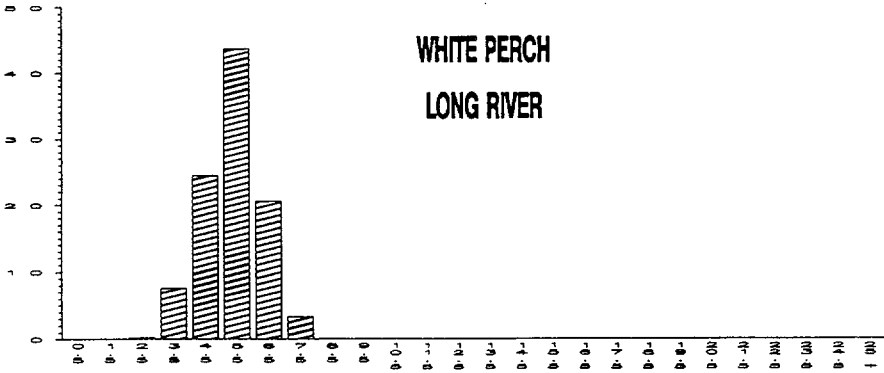
05/25/87

06/01/87

06/08/87

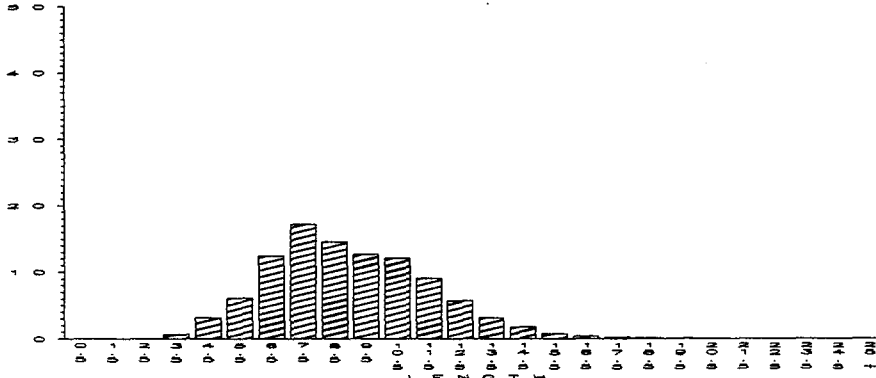
06/15/87

06/22/87

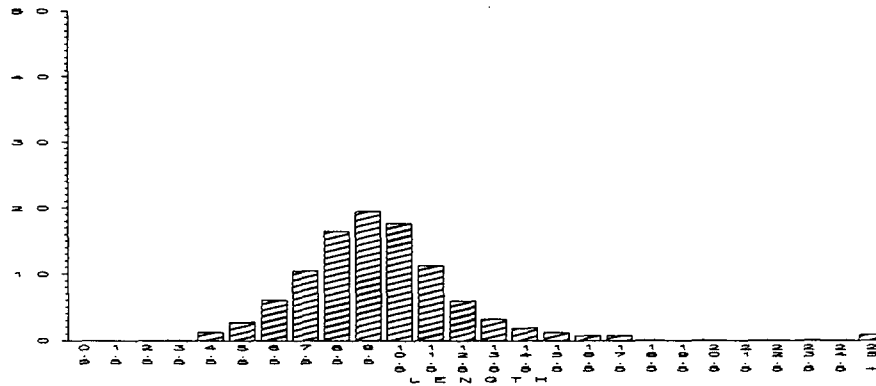


WHITE PERCH  
LONG RIVER

FREQUENCY



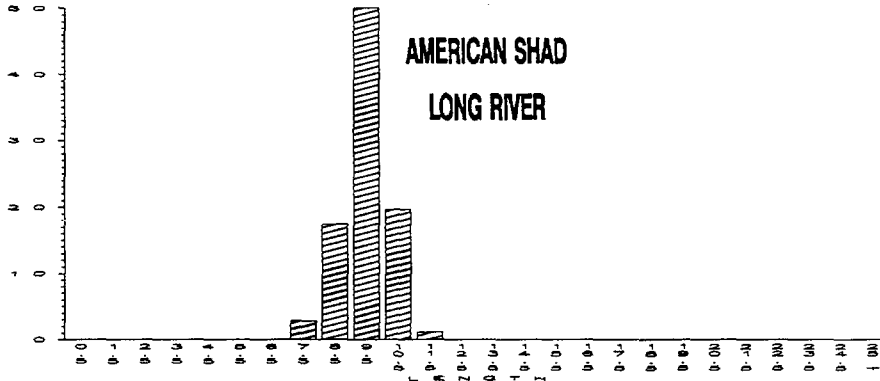
06/29/87



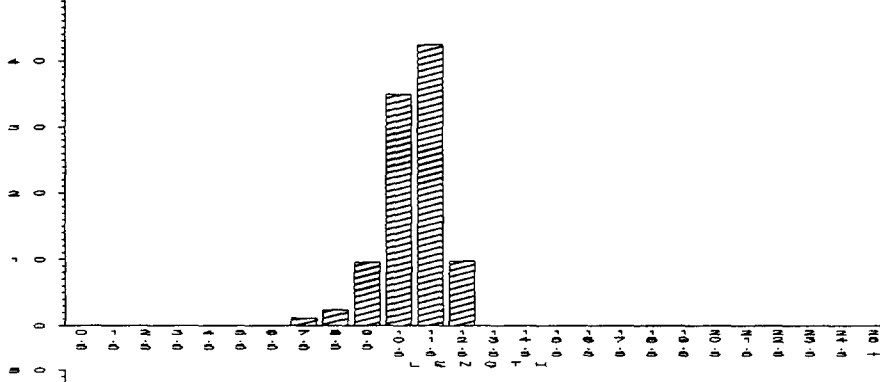
07/06/87

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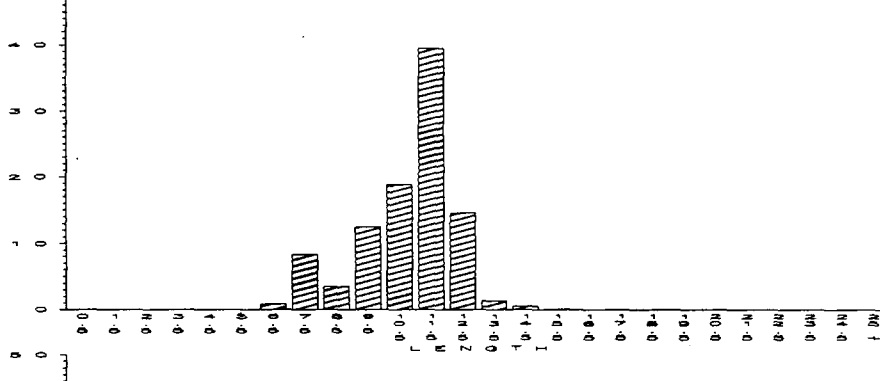
**AMERICAN SHAD  
LONG RIVER**



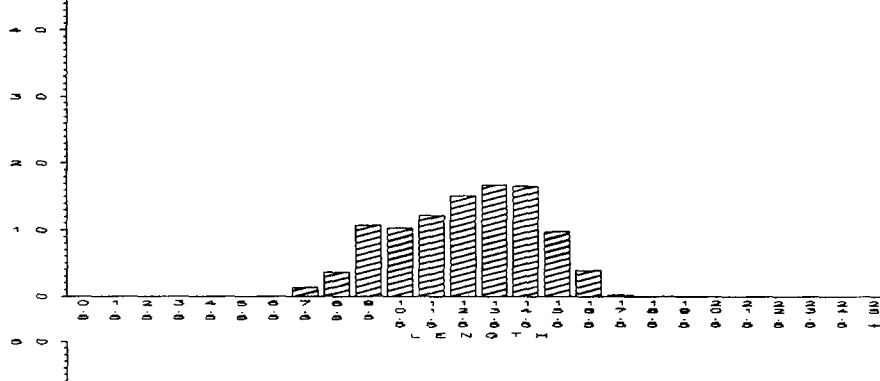
04/27/87



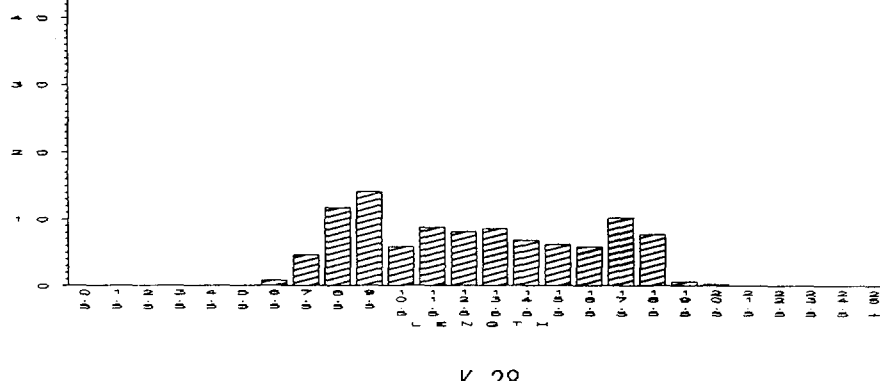
05/04/87



05/11/87



05/18/87

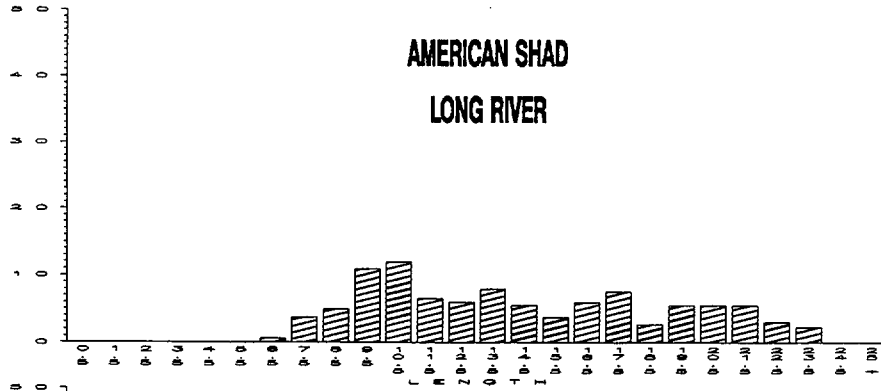


05/25/87

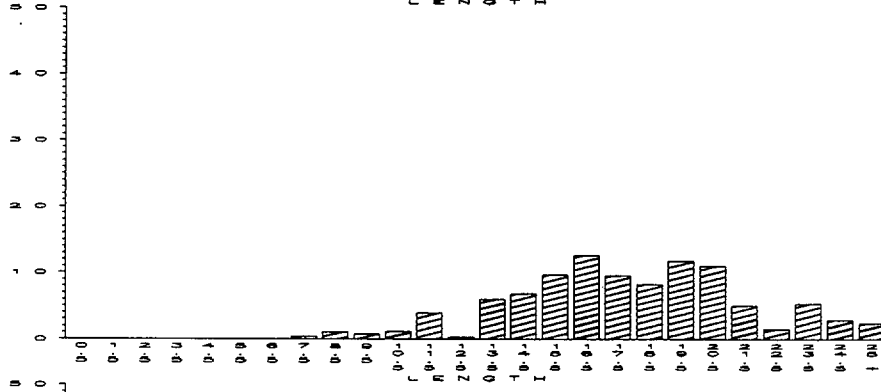
FREQUENCY

AMERICAN SHAD  
LONG RIVER

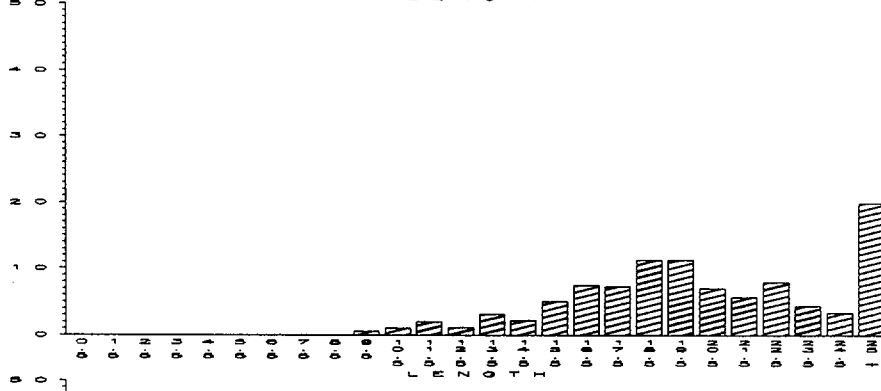
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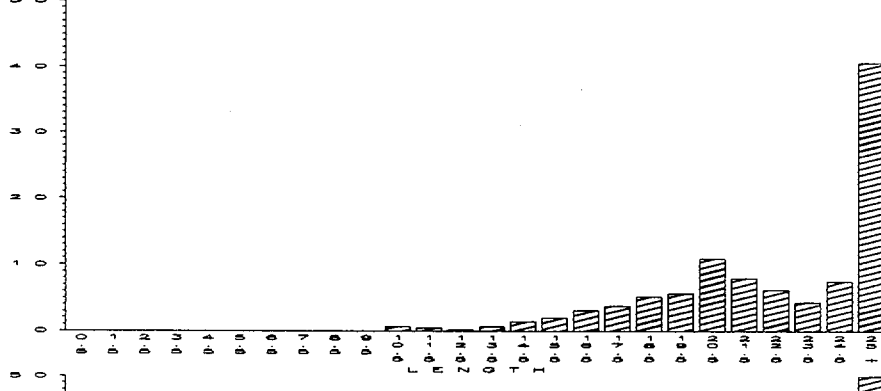
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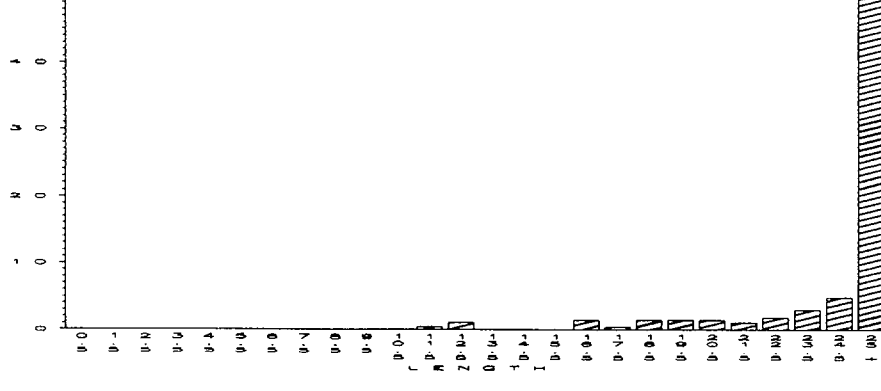
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06/22/87

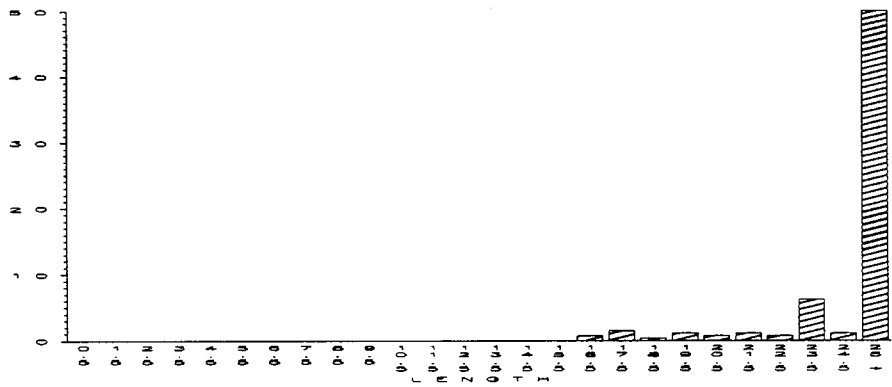


06/29/87



AMERICAN SHAD  
LONG RIVER

FREQUENCY

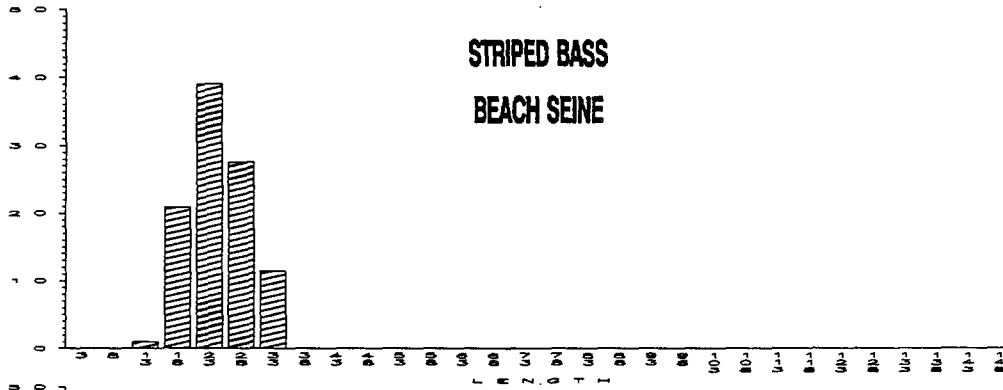


07/26/87

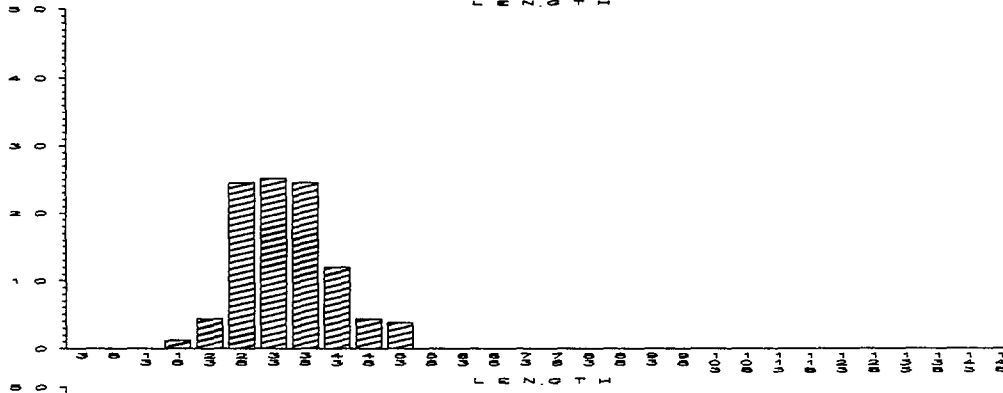
FREQUENCY

STRIPED BASS  
BEACH SEINE

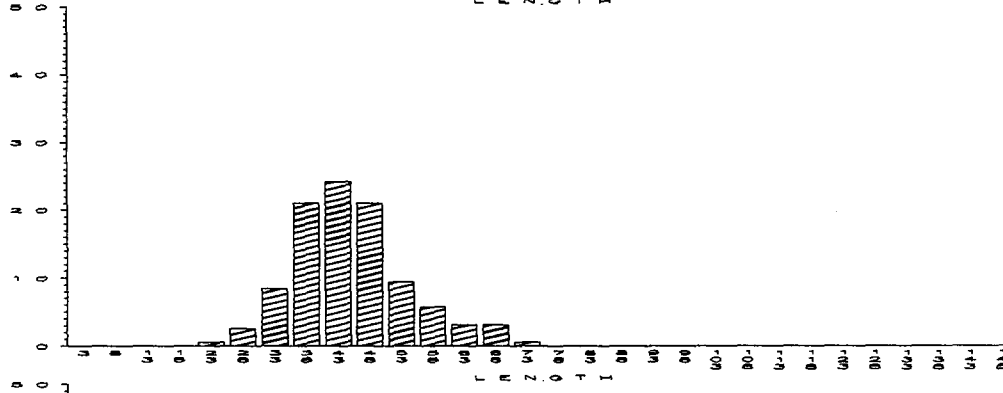
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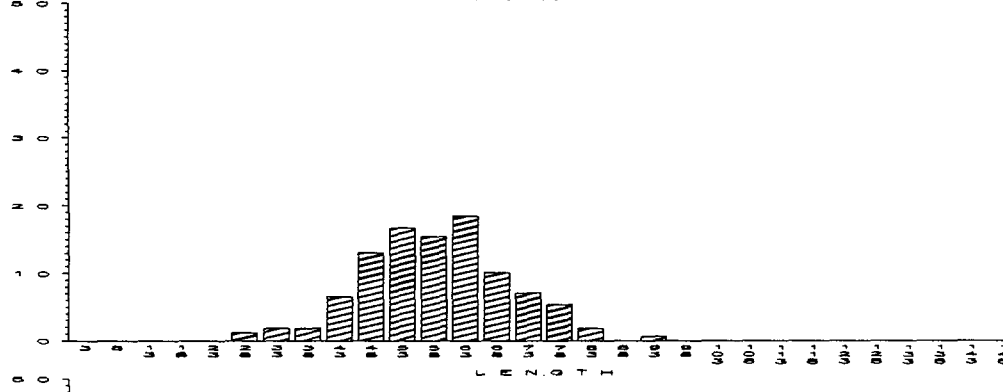
07/06/87



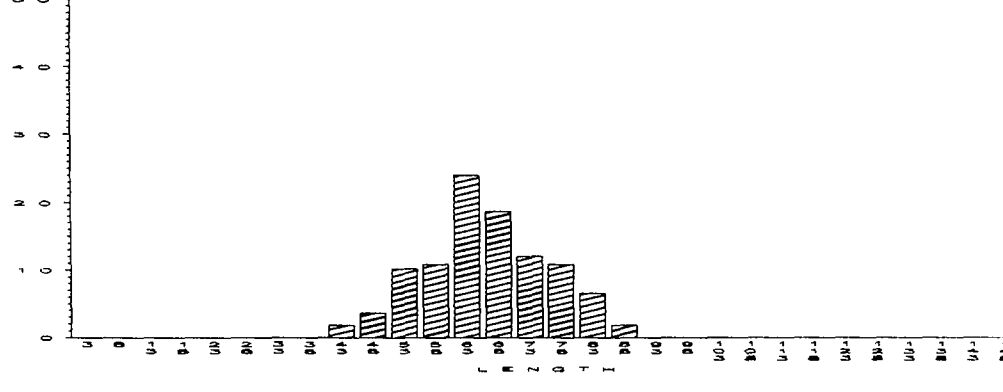
07/20/87



08/03/87

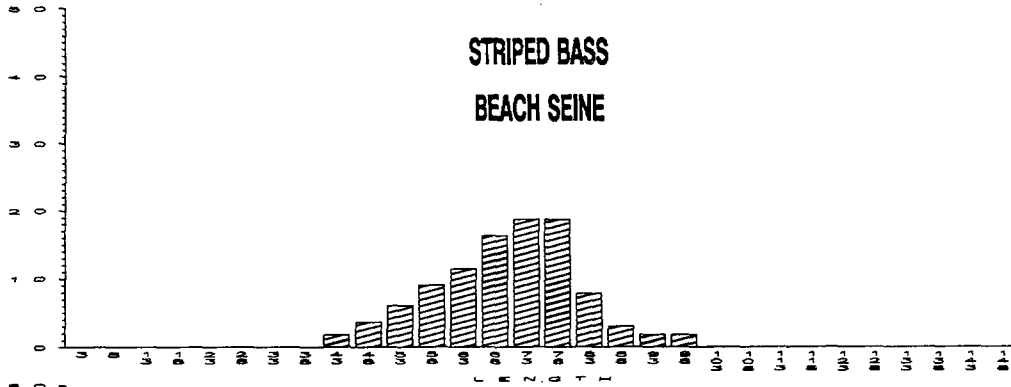


08/17/87

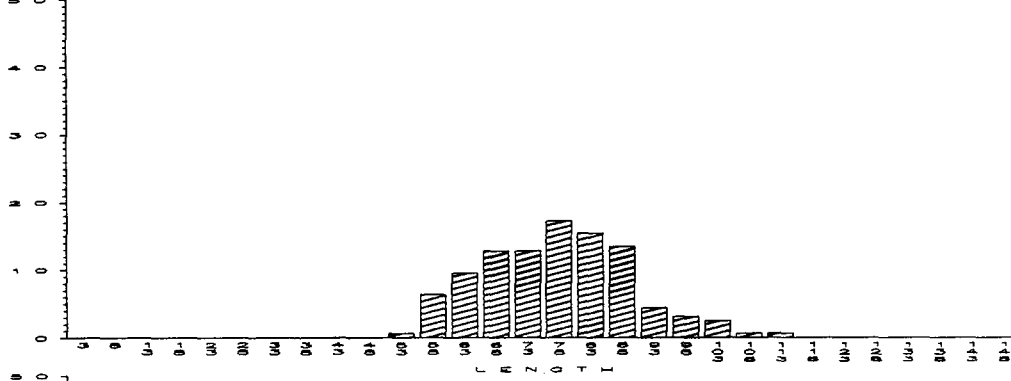


STRIPED BASS  
BEACH SEINE

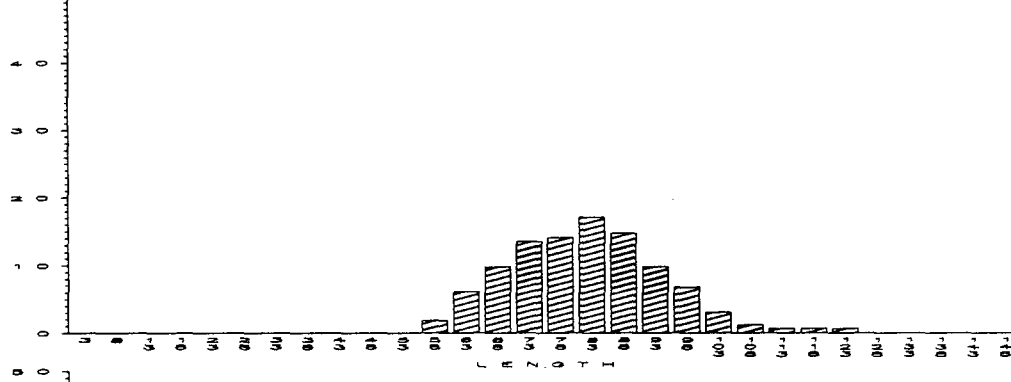
08/31/87



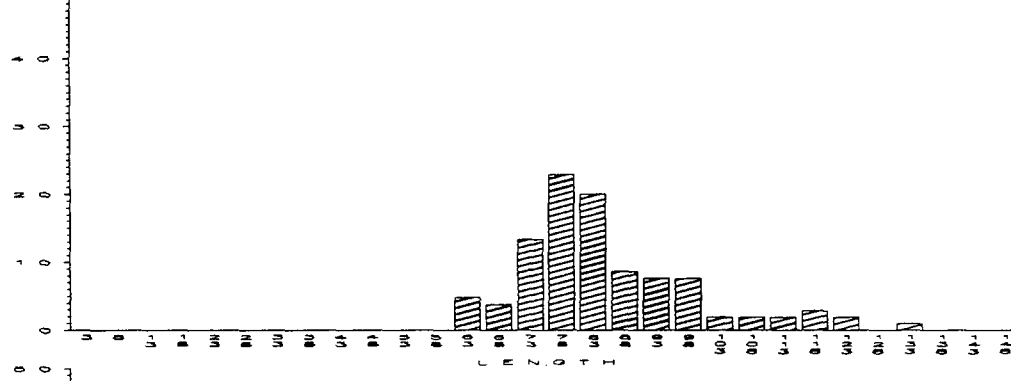
09/14/87



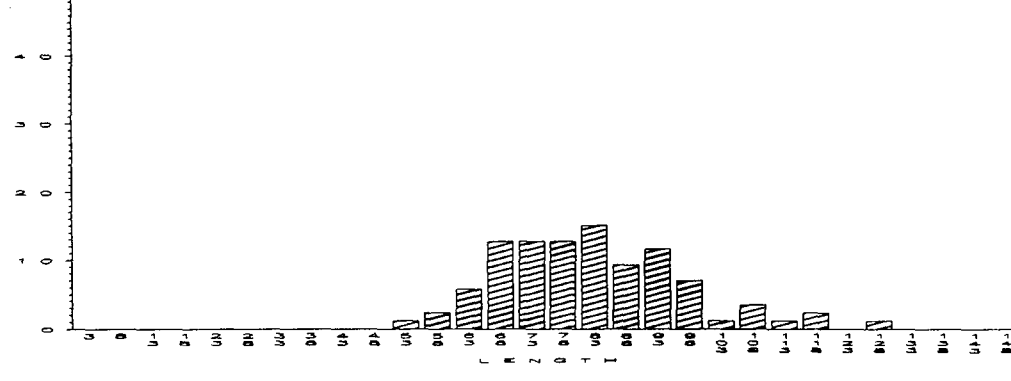
09/28/87



10/12/87



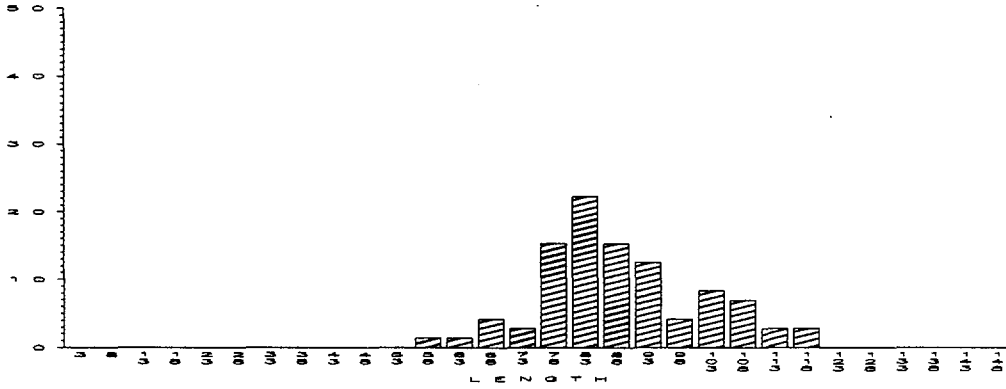
10/26/87



FREQUENCY

STRIPED BASS  
BEACH SEINE

FREQUENCY

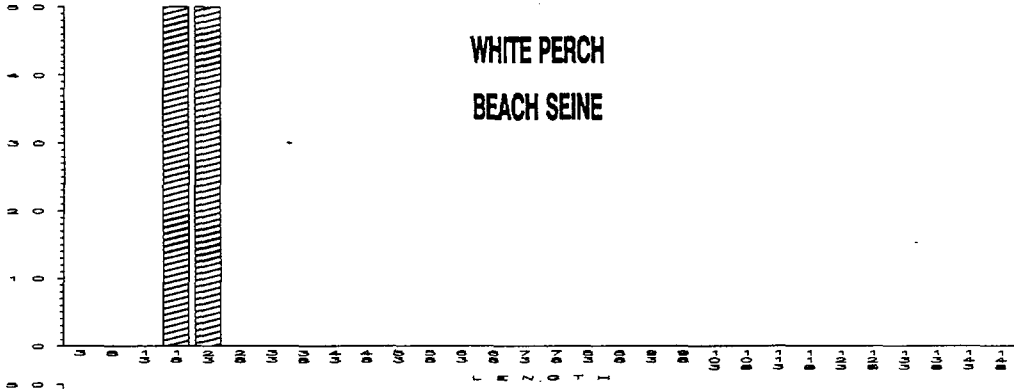


11/09/87

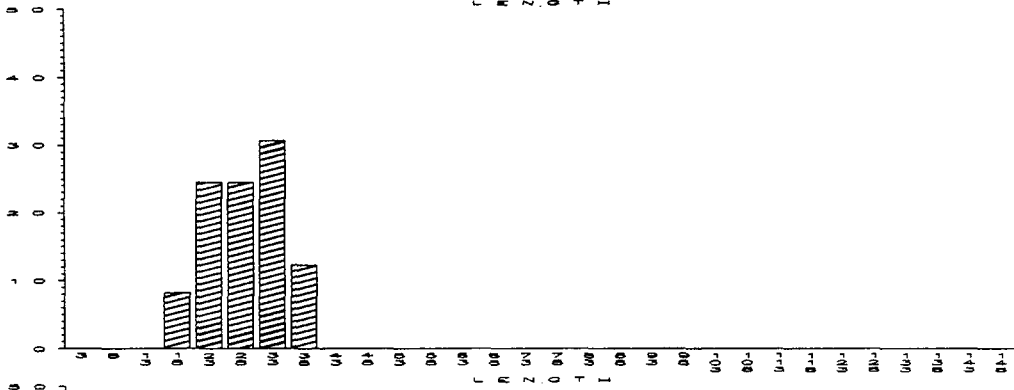


WHITE PERCH  
BEACH SEINE

06/22/87

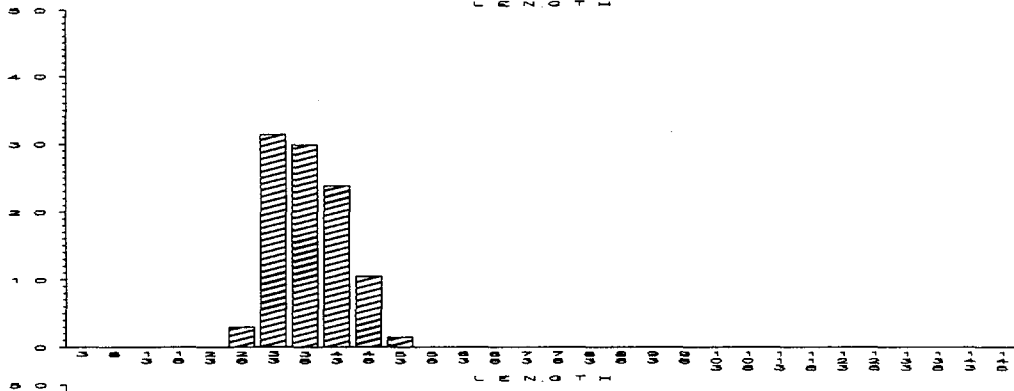


07/06/87

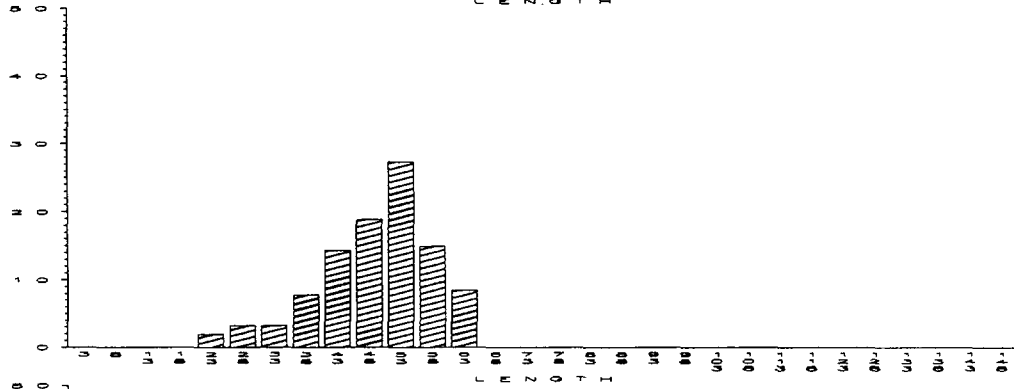


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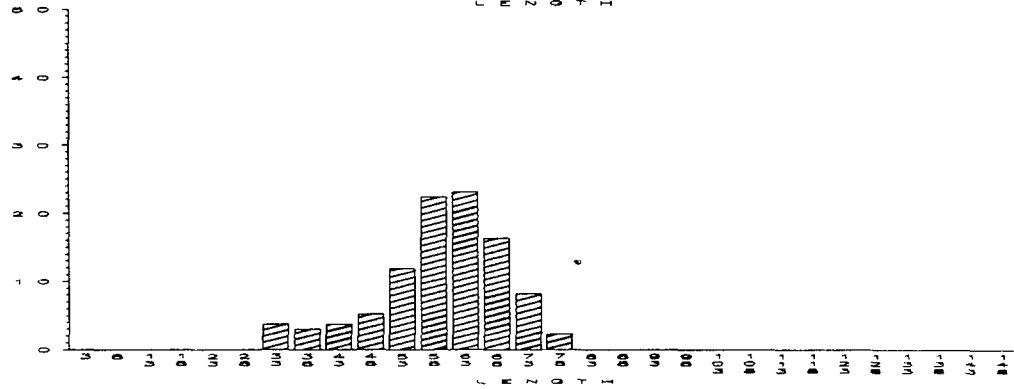
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08/03/87



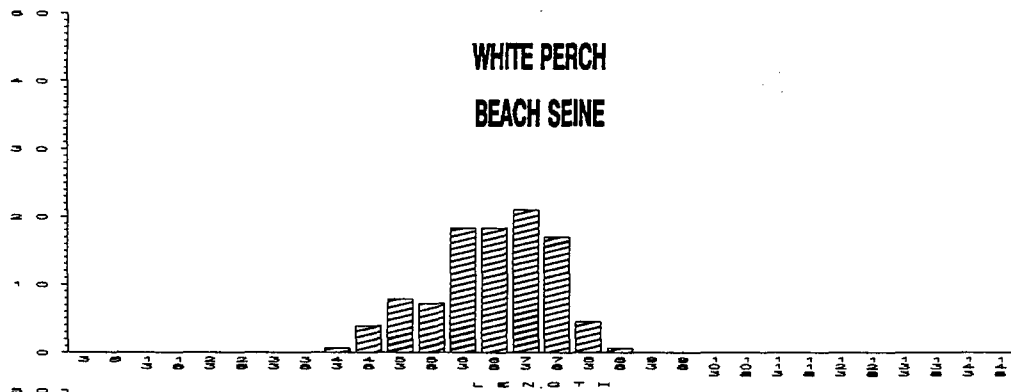
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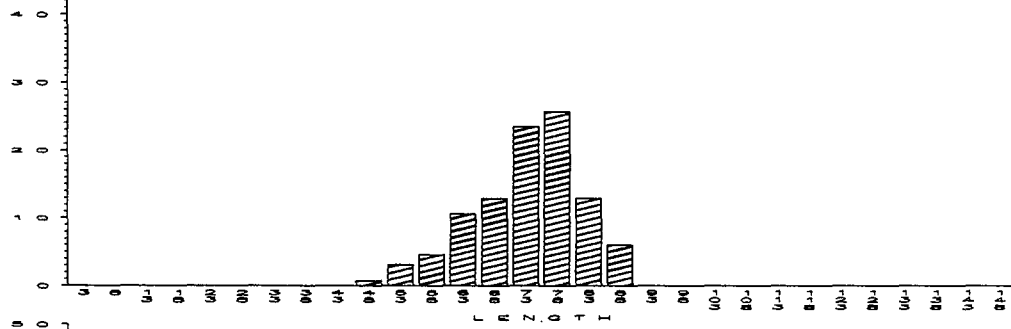
FREQUENCY

WHITE PERCH  
BEACH SEINE

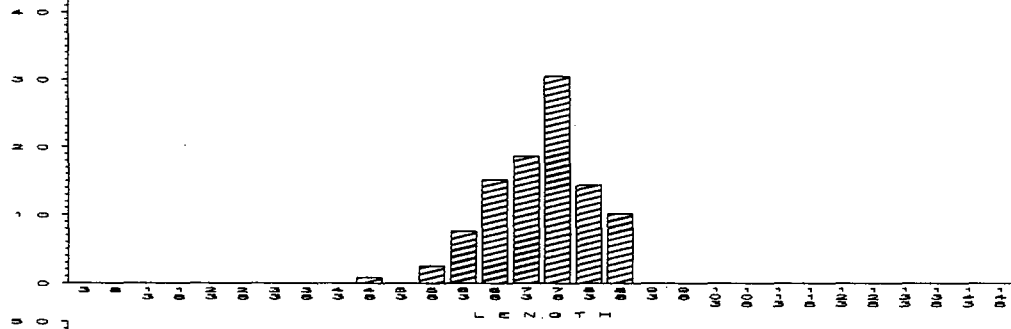
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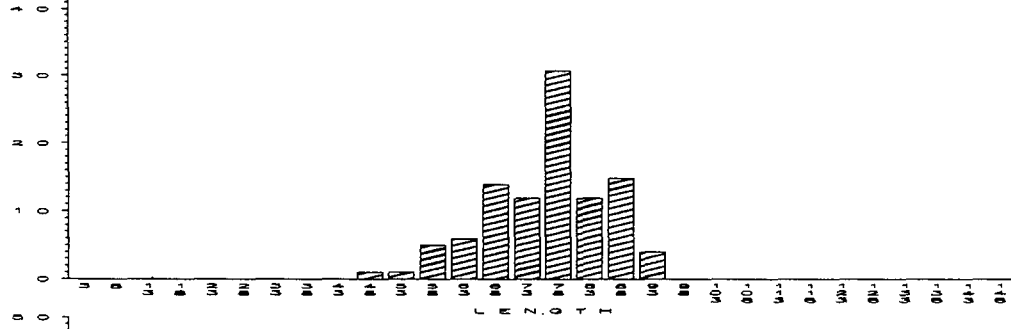
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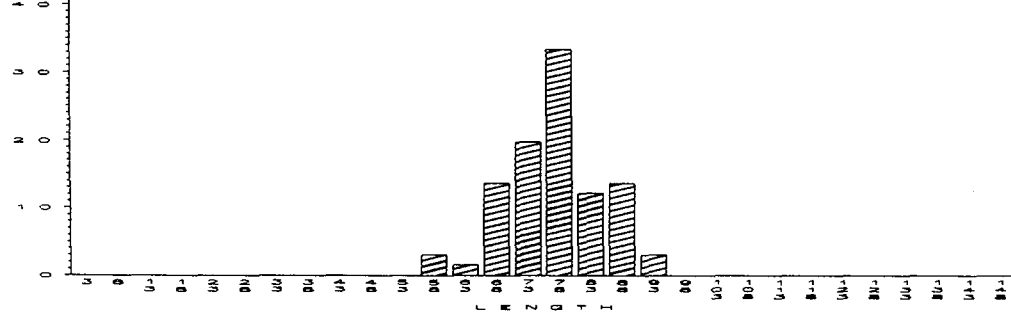
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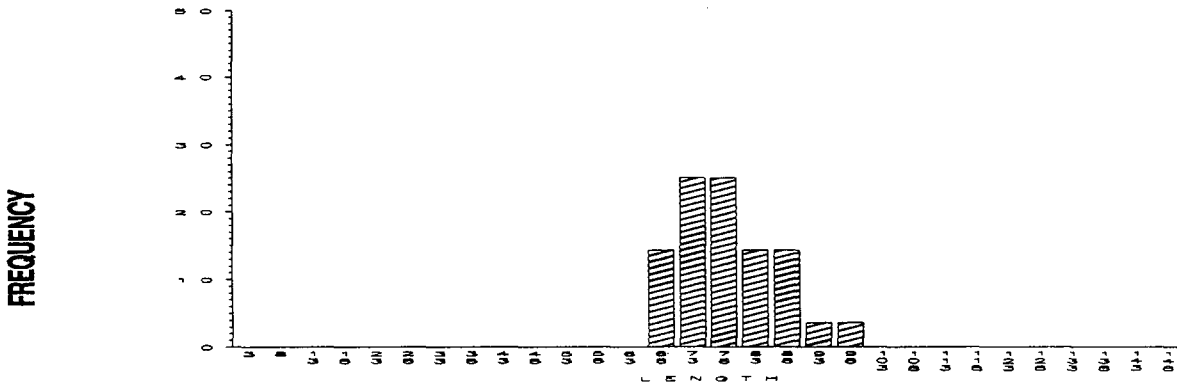
10/12/87



10/26/87



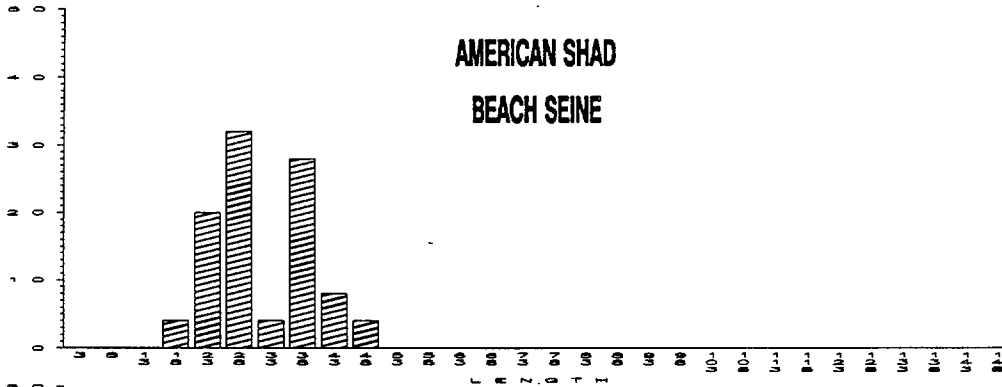
WHITE PERCH  
BEACH SEINE



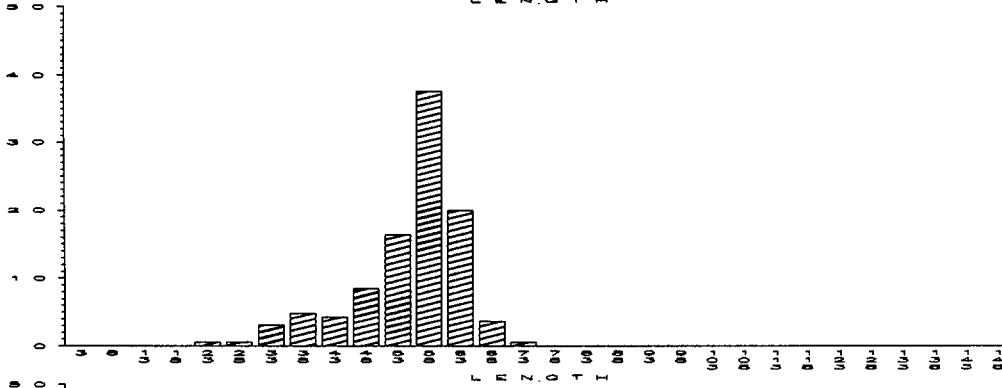
11/09/87

AMERICAN SHAD  
BEACH SEINE

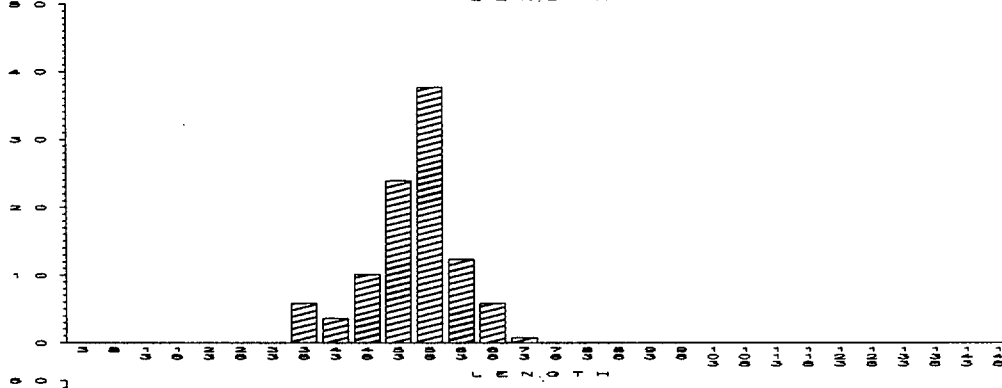
06/22/87



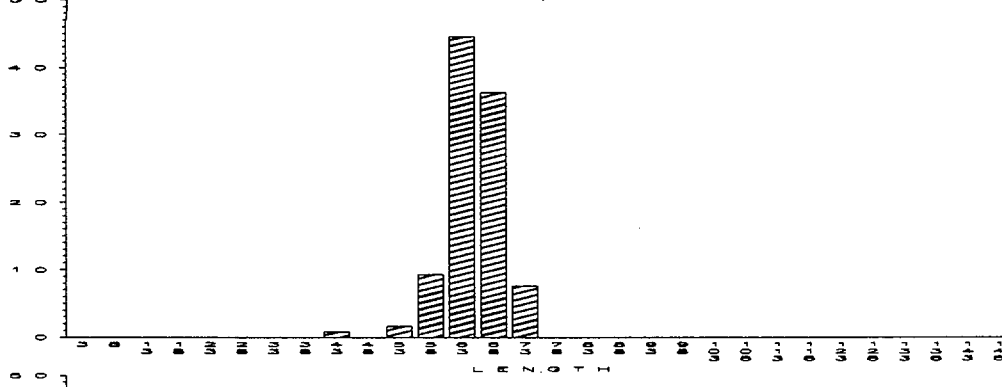
07/06/87



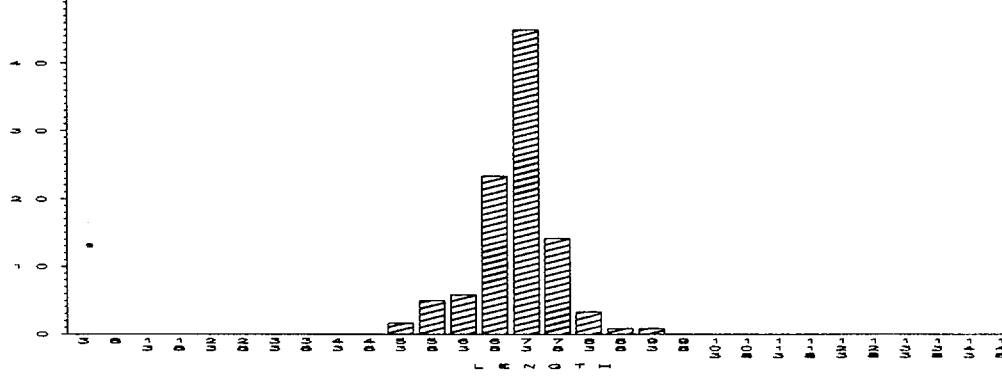
07/20/87



08/03/87

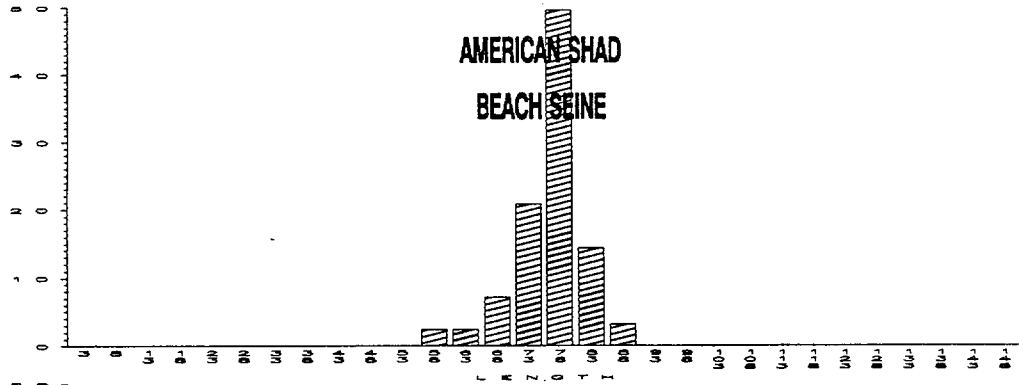


08/17/87

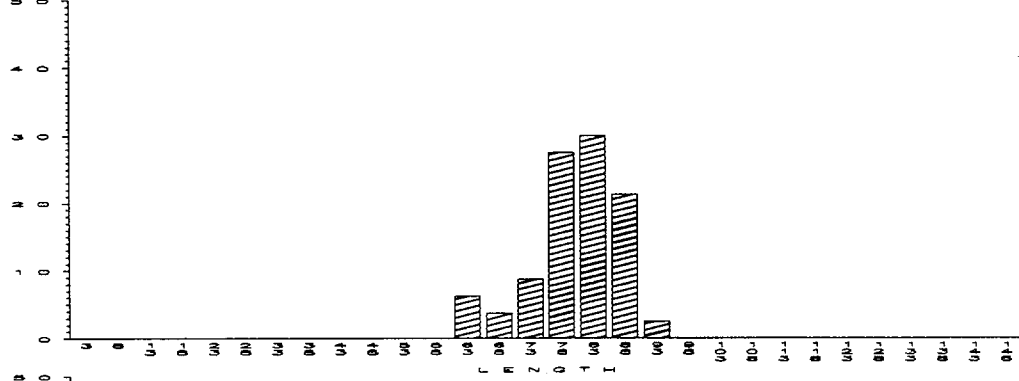


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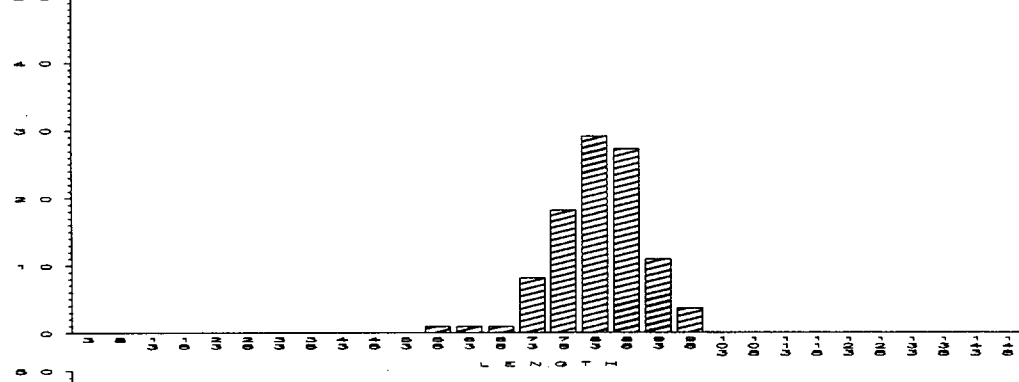
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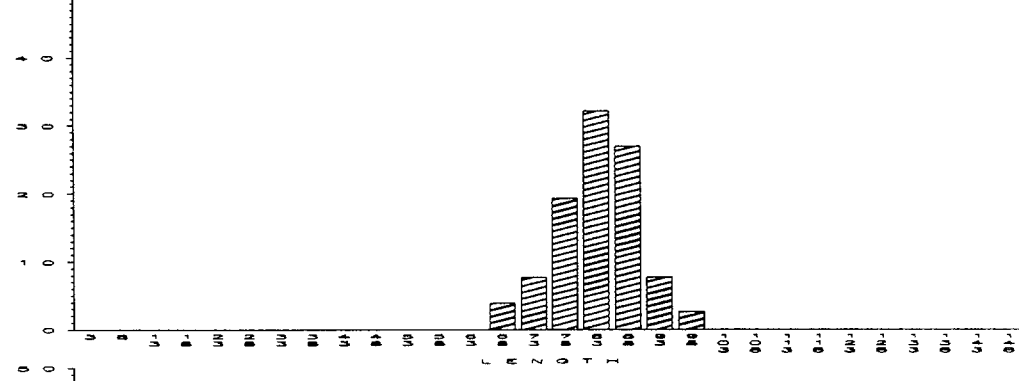
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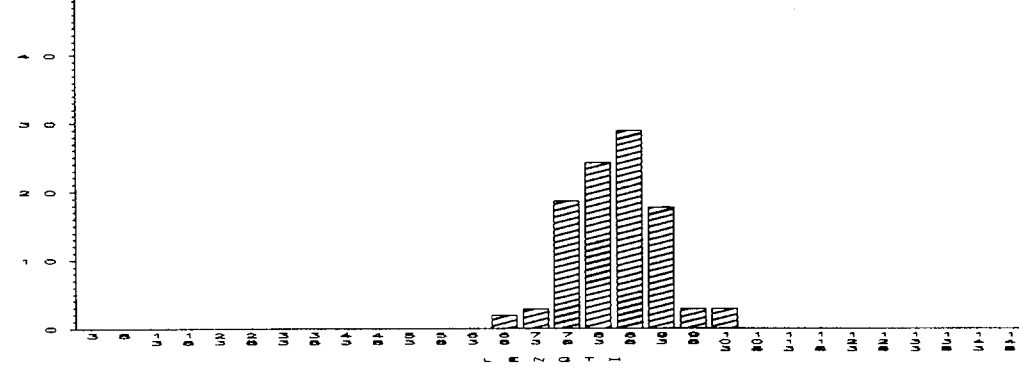
09/14/87



09/28/87



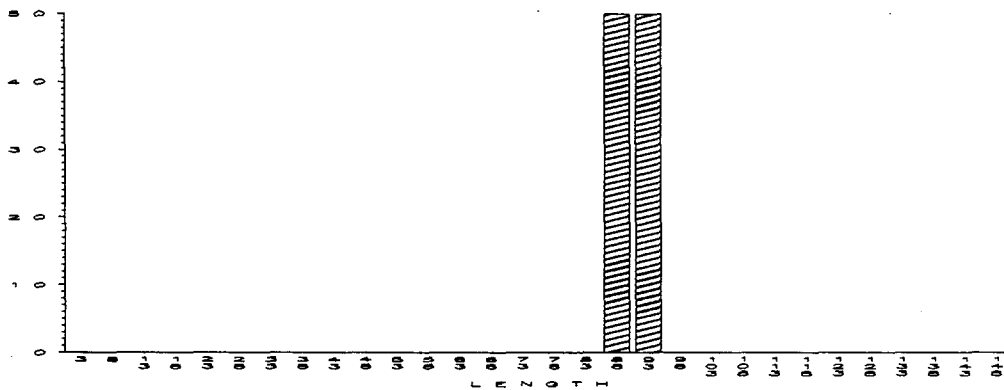
10/12/87



10/26/87

AMERICAN SHAD  
BEACH SEINE

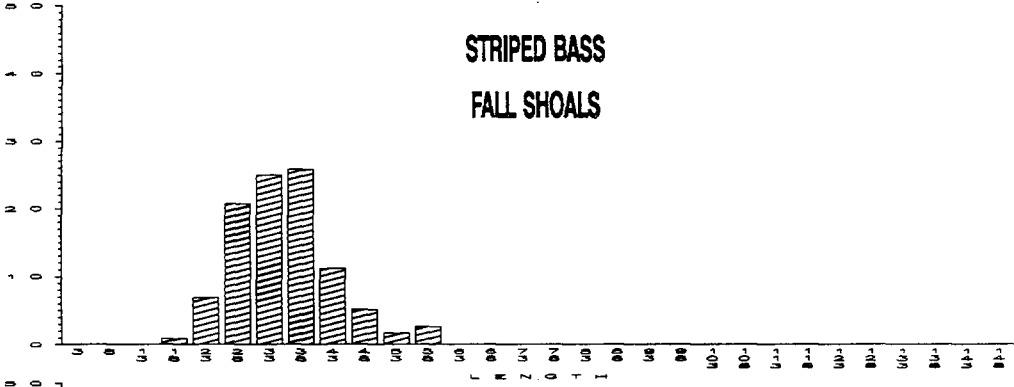
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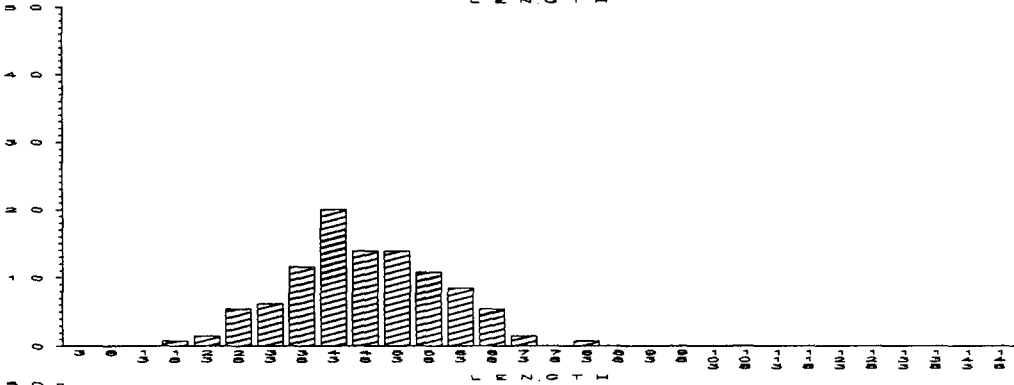
11/09/87

**STRIPED BASS  
FALL SHOALS**

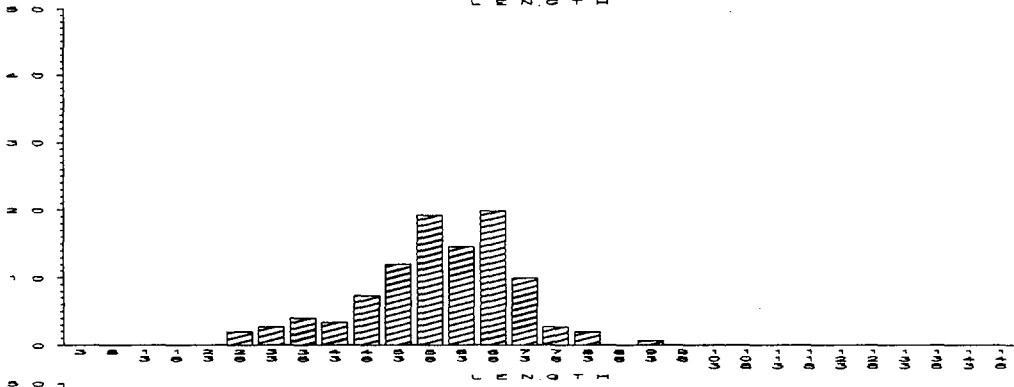
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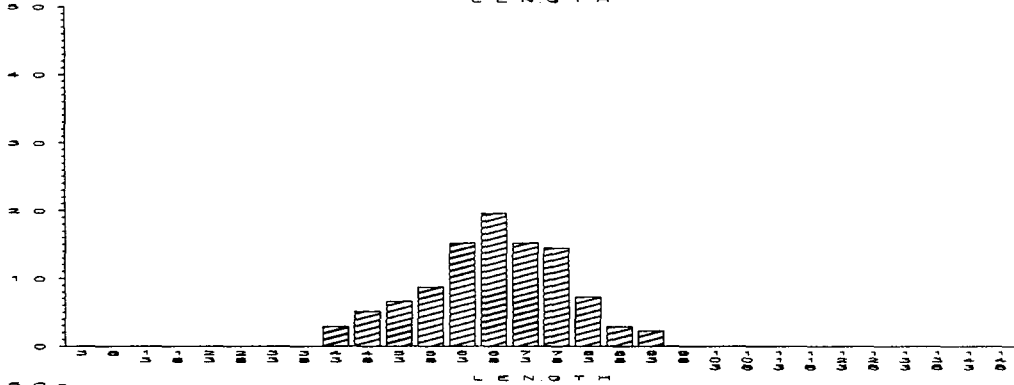
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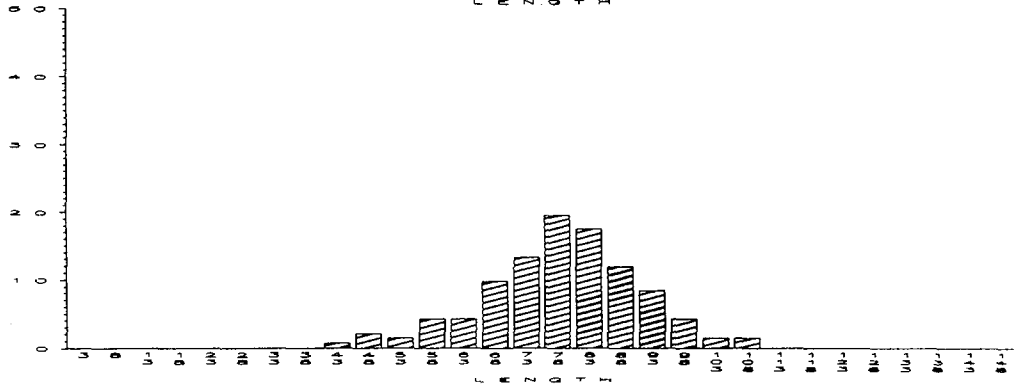
08/10/87



08/24/87



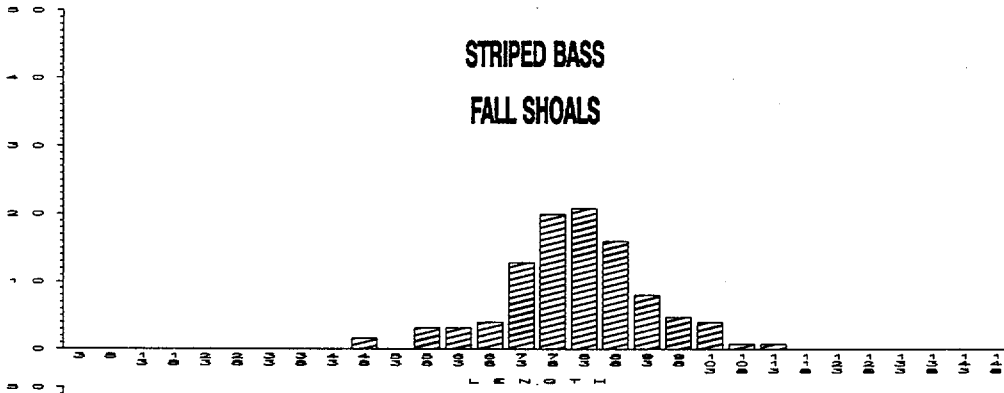
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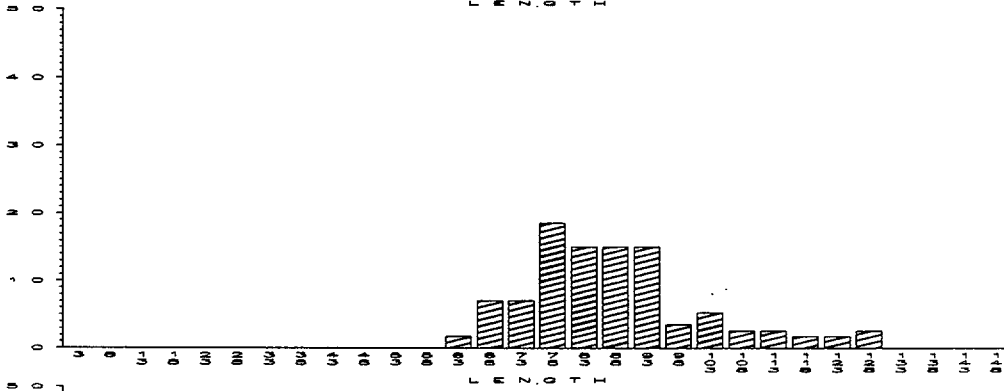
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**STRIPED BASS  
FALL SHOALS**

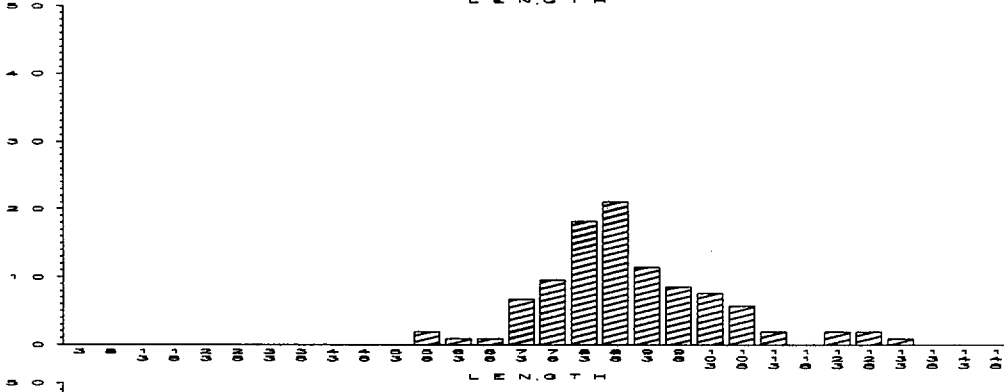
09/21/87



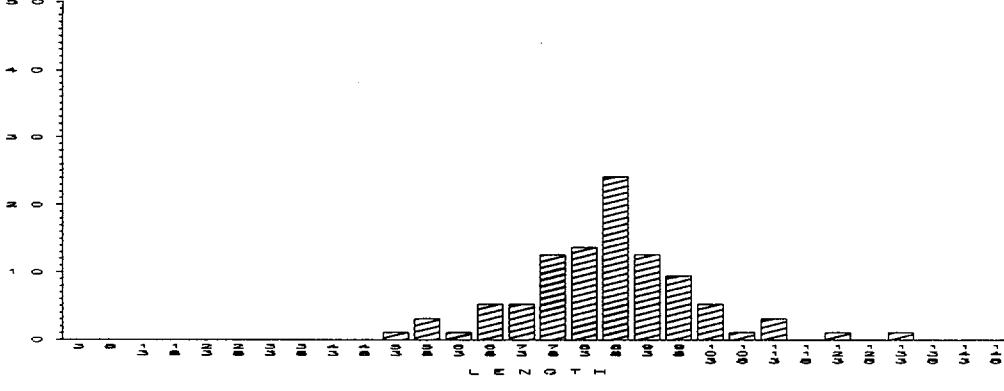
10/05/87



10/19/87



11/02/87

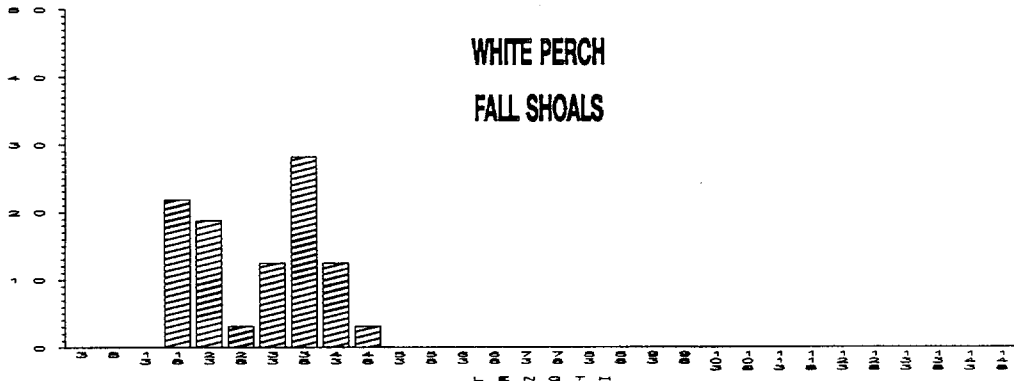


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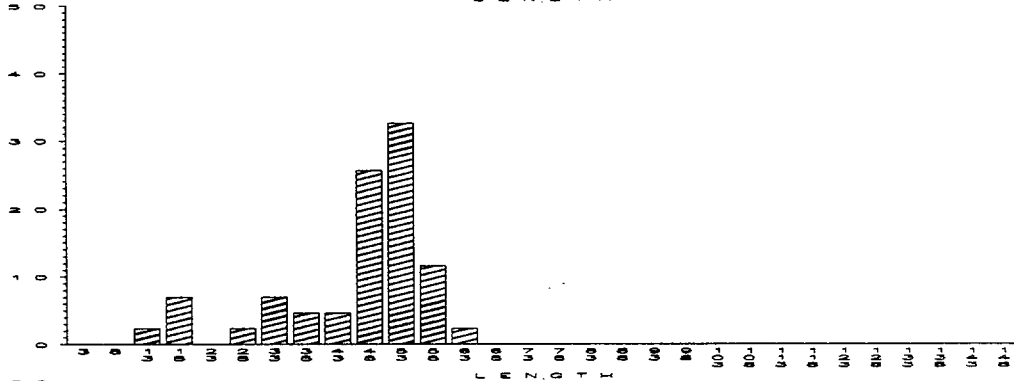


WHITE PERCH  
FALL SHOALS

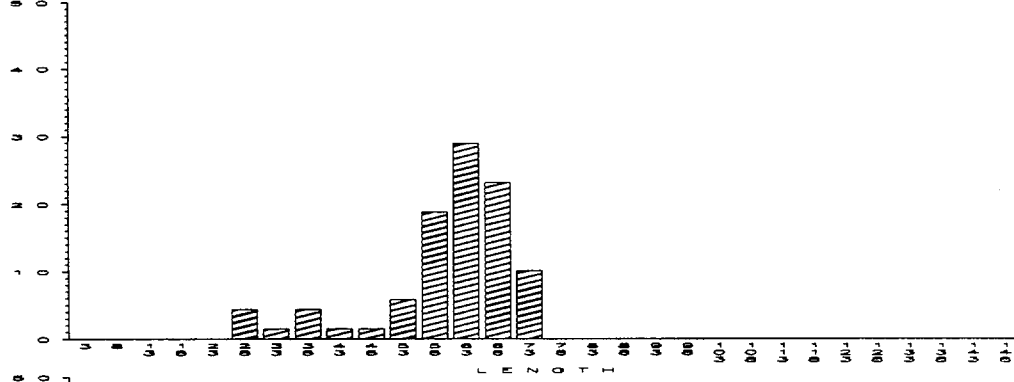
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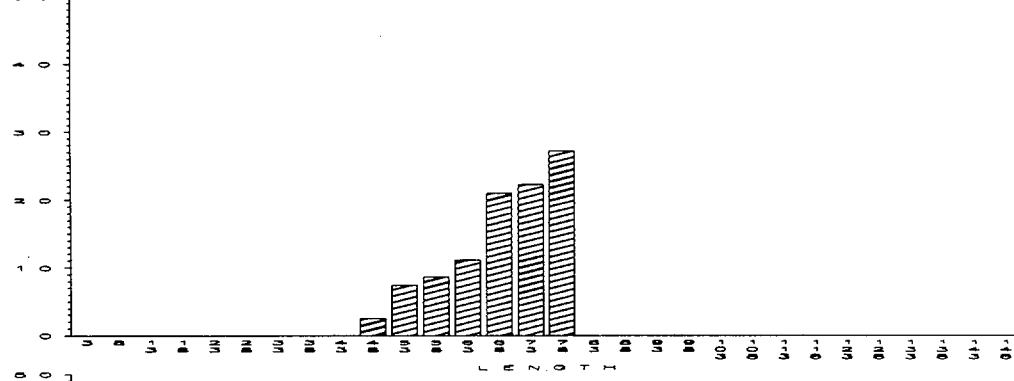
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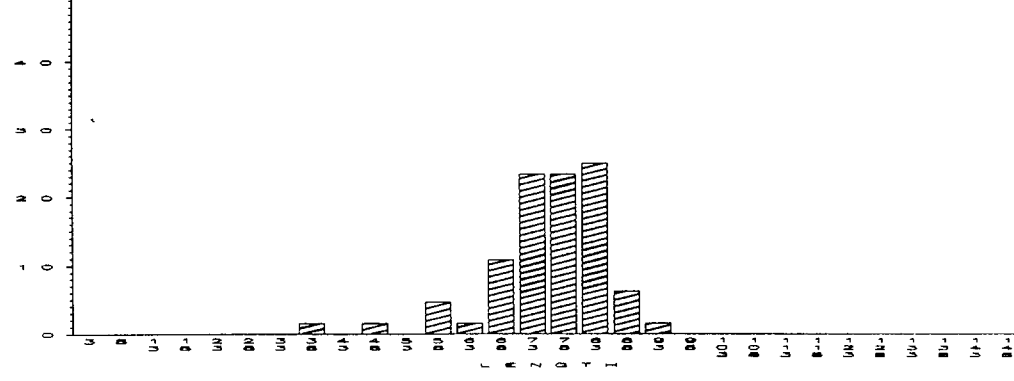
08/10/87



08/24/87

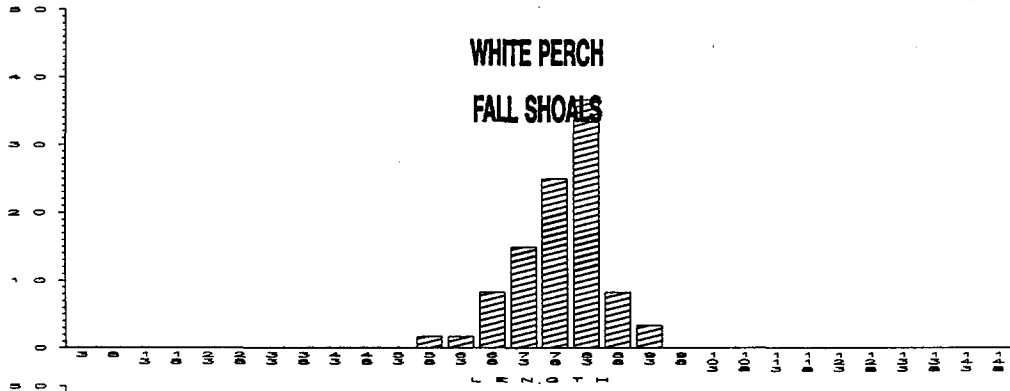


09/07/87

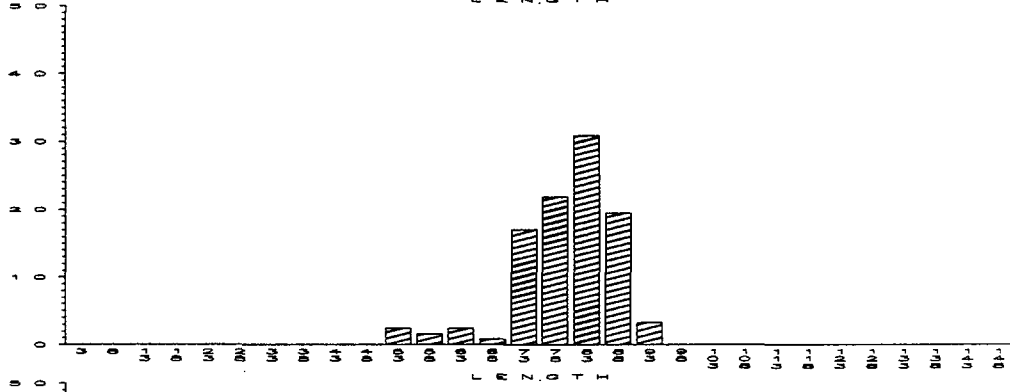


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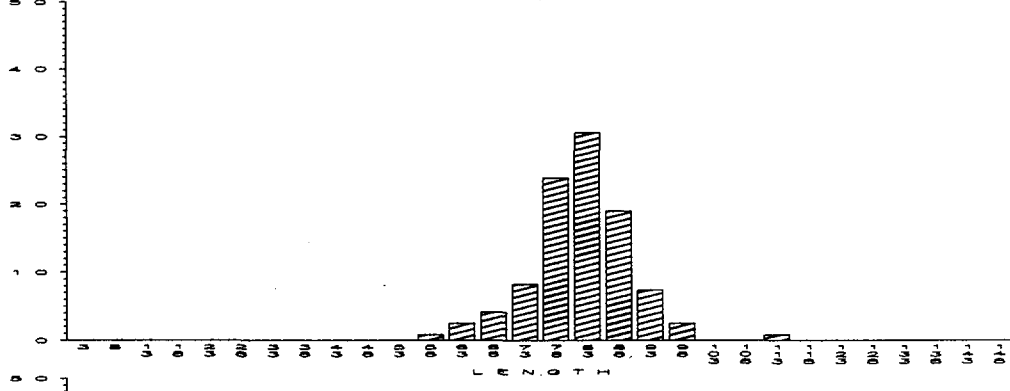
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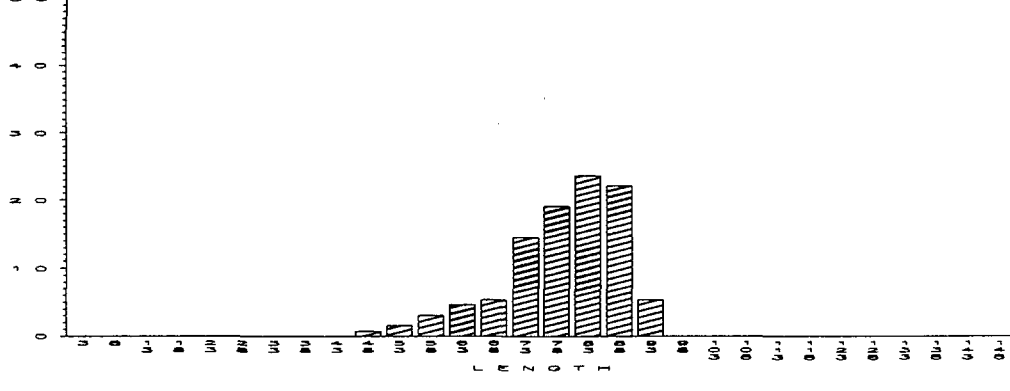
09/21/87



10/05/87



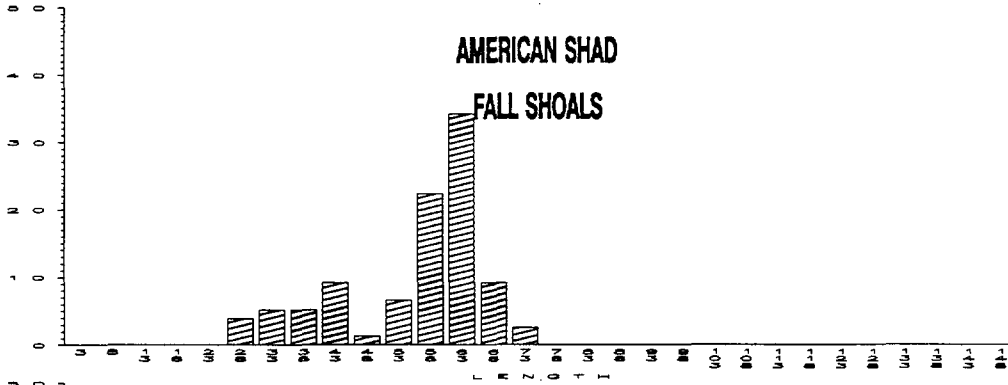
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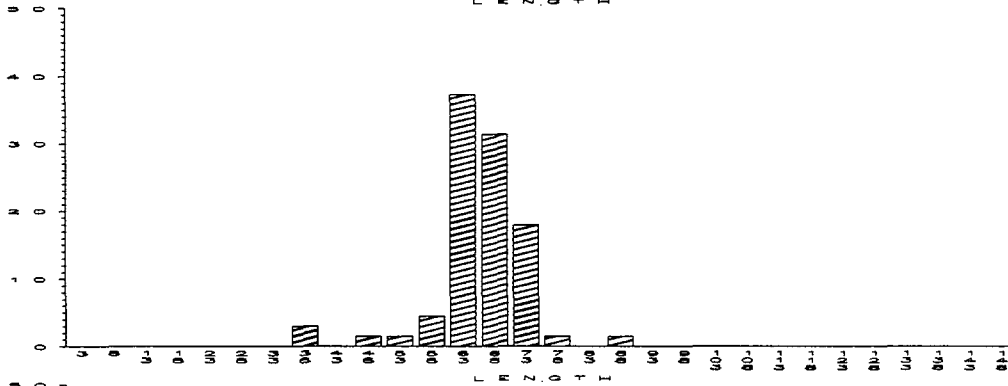
11/02/87

FREQUENCY

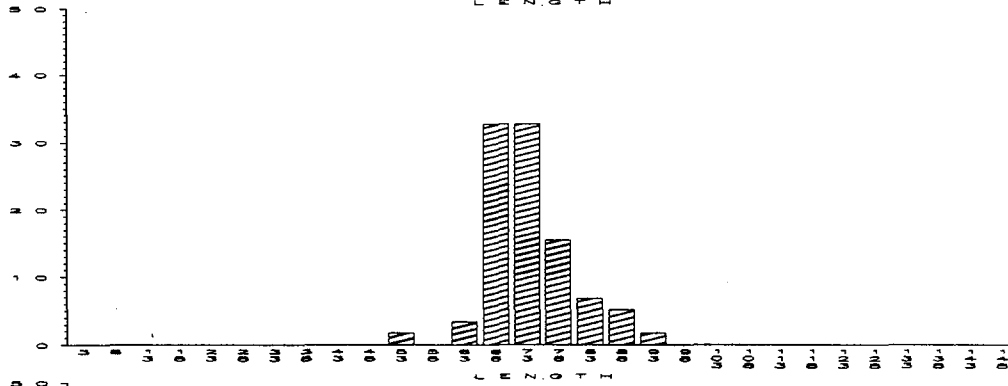
AMERICAN SHAD  
FALL SHOALS



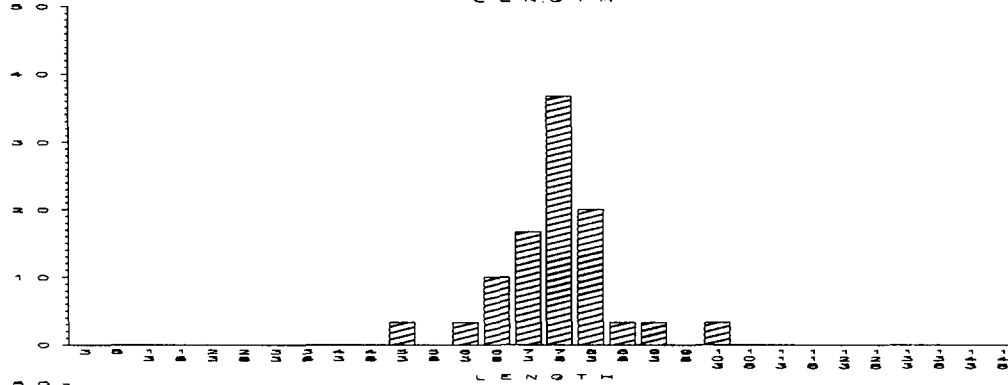
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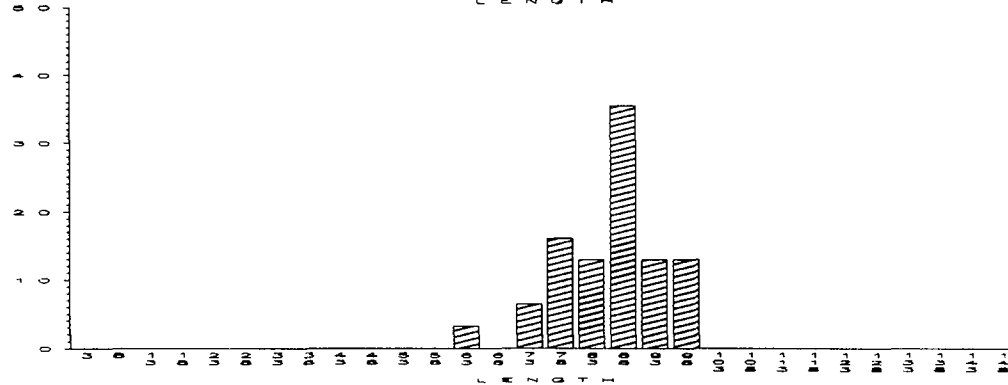
07/27/87



08/10/87



08/24/87



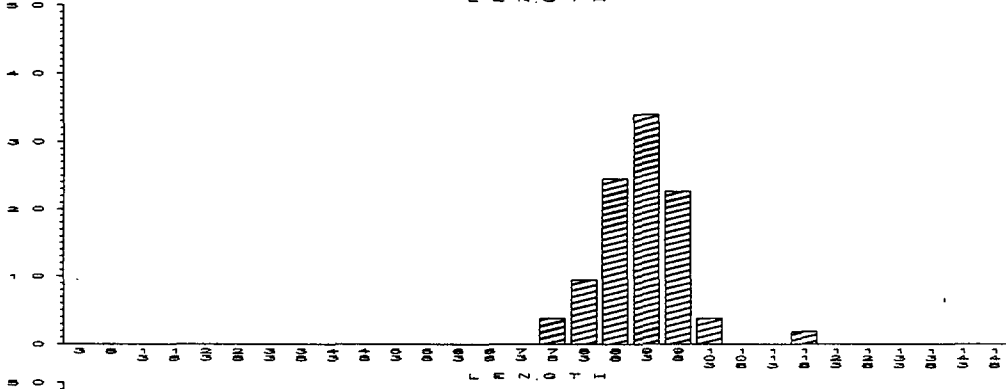
09/07/87

# AMERICAN SHAD FALL SHOALS

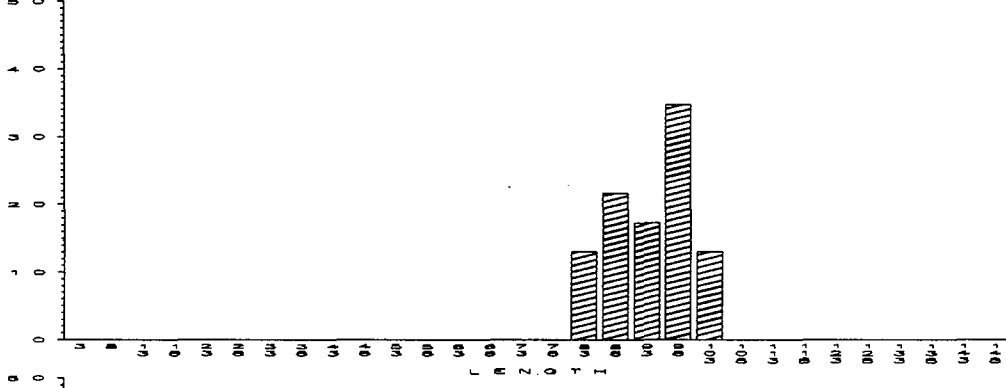
09/21/87



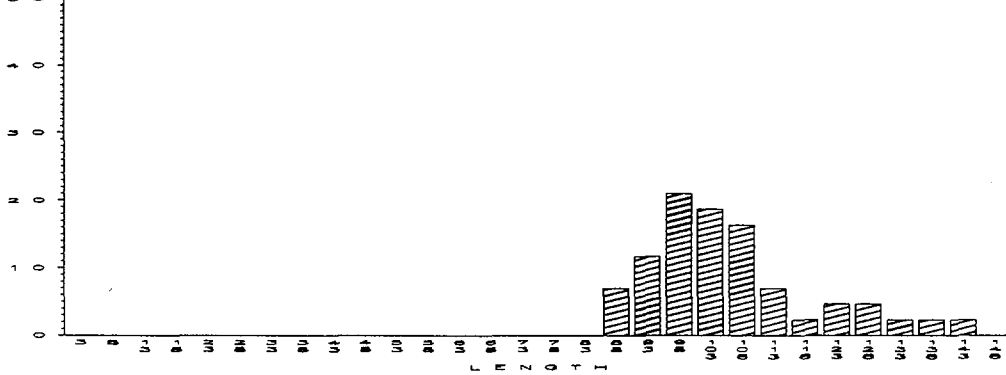
10/05/87



10/19/87



11/02/87



FREQUENCY