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1982 YEAR CLASS REPORT FOR THE HUDSON RIVER ESTUARY MONITORING PROGRAM

VOLUME 3.
APPENDICES B (PART 2), C, AND D

Prepared under contract with

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R-175

February 1985

APPENDIX B
ABUNDANCE DATA

INDEX OF TABLE NUMBERS

PART 2. DENSITY AND CATCH PER UNIT EFFORT DATA

SPECIES	ICHTHYOPLANKTON EGGS	ICHTHYOPLANKTON YSL	ICHTHYOPLANKTON PYSL	ICHTHYOPLANKTON YOY	FALL SHOALS YOY	FALL SHOALS YRLG	FALL SHOALS OLDER	BEACH SEINE YOY	BEACH SEINE YRLG	BEACH SEINE OLDER
Striped bass	71	72	73	74	75	77	79	76	78	80
White perch	81	82	83	84	85	87	89	86	88	90
American shad	91	92	93	94	95	97	98	96	NC	99
Atlantic tomcod	--	--	100	101	102	--	--	103	--	--
Blueback herring	104[a]	105[a]	106[a]	107[a]	108	110	NC	109	111	112
Alewife					113	115	NC	114	116	NC
Bay anchovy	--	--	--	NC	117	119	121	118	120	NC
Weakfish	--	--	--	NC	122	--	--	123	--	--
White catfish	--	--	--	124	125	126	127	NC	NC	128
Spottail shiner	--	--	--	NC	129	131	NC	130	132	133
Atlantic sturgeon	--	--	--	NC	NC	NC	134	NC	NC	NC
Shortnose sturgeon	--	--	--	NC	NC	NC	135	NC	NC	NC

[a] = Due to the difficulty in identifying the early life stages of the blueback herring and alewife - these stages were combined.
NC = none caught
Dashes indicate that life stage was not looked at.
Stages: YSL = yolk-sac larva; PYSL = post yolk-sac larva;
YOY = young-of-year; YRLG = yearling

TABLE B-71
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

STRIPED BASS EGGS

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	4.76	6.16	0.76	3.41
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	2.84	3.18	0.76	1.29
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	3.56	1.53	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	3.56	1.53	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-71 (CONTINUED).

STRIPED BASS EGGS

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
10MAY82	DENSITY	56.72	17.89	30.91	30.38	N	173.99	107.82	116.94	0.50	1.02	0.00	0.30
	S.E.	42.74	6.85	12.52	10.15	N	129.83	28.27	30.24	0.50	0.69	0.00	0.19
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.98	2.26	7.06	5.92	N	56.01	45.54	46.98	19.00	28.47	11.28	16.25
	S.E.	0.98	2.26	4.01	3.14	N	52.42	23.08	21.17	16.19	6.52	7.40	5.39
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	1.40	1.56	1.44	N	120.34	104.50	106.68	22.85	38.45	40.00	38.59
	S.E.	0.00	0.99	1.01	0.81	N	45.97	35.61	31.34	7.22	11.63	19.00	13.26
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	0.00	2.13	0.93	1.07	N	4.17	3.73	3.79	2.77	5.47	1.92	2.90
	S.E.	0.00	1.36	0.64	0.55	N	4.17	2.27	2.04	2.77	3.71	1.92	1.64
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	0.00	2.71	0.87	1.12	N	7.88	1.70	2.55	0.56	0.00	0.00	0.03
	S.E.	0.00	2.24	0.53	0.55	N	5.55	0.55	0.90	0.56	0.00	0.00	0.03
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	0.00	0.00	0.00	0.00	N	2.59	0.44	0.74	3.77	0.00	0.00	0.22
	S.E.	0.00	0.00	0.00	0.00	N	2.59	0.35	0.46	3.77	0.00	0.00	0.22
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.36	0.35	0.35	0.00	1.41	0.65	0.81
	S.E.	0.00	0.00	0.00	0.00	N	0.36	0.25	0.22	0.00	1.18	0.48	0.45
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.21	0.18	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.14	0.12	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-71 (CONTINUED).

STRIPED BASS EGGS

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	DENSITY	N	2.59	0.99	1.36	N	13.41	2.94	5.11	N	1.72	0.00	0.58
	S.E.	N	0.58	0.66	0.52	N	7.27	2.09	2.24	N	1.22	0.00	0.41
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	60.27	52.28	54.14	N	146.31	53.49	72.73	N	39.62	4.56	16.40
	S.E.	N	29.40	41.14	32.32	N	64.54	28.13	26.01	N	26.65	4.13	9.41
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	122.50	31.24	52.42	N	180.82	37.56	67.25	N	7.63	7.12	7.29
	S.E.	N	32.27	11.58	11.62	N	66.58	16.17	18.84	N	4.72	6.15	4.38
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	17.44	3.96	7.08	N	31.98	29.53	30.04	N	4.34	0.00	1.47
	S.E.	N	6.80	1.63	2.01	N	13.70	13.32	10.93	N	2.51	0.00	0.85
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	0.35	0.33	0.33	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.35	0.33	0.27	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	0.82	1.35	1.22	N	0.00	0.23	0.18	N	0.00	0.00	0.00
	S.E.	N	0.82	0.73	0.59	N	0.00	0.23	0.18	N	0.00	0.00	0.00
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	7.00	2.47	3.52	N	26.62	0.31	5.76	N	2.06	0.71	1.17
	S.E.	N	7.00	2.47	2.50	N	14.80	0.31	3.08	N	1.29	0.71	0.64
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	0.00	0.17	0.13	N	7.38	0.00	1.53	N	0.00	0.00	0.00
	S.E.	N	0.00	0.17	0.13	N	7.38	0.00	1.53	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.48	0.32
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.48	0.32
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-71 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS				EGGS			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	9.89	0.00	3.54	N	0.00	0.00	0.00
	S.E.	N	9.89	0.00	3.54	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	16.33	0.00	5.85	N	0.00	0.00	0.00
	S.E.	N	16.33	0.00	5.85	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	12.67	75.05	52.71	N	0.00	71.59	37.37
	S.E.	N	8.07	17.01	11.29	N	0.00	71.59	37.37
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	1.48	0.00	0.53	N	0.00	5.23	2.73
	S.E.	N	1.48	0.00	0.53	N	0.00	2.62	1.37
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	0.00	0.00	0.00	N	2.72	6.71	4.80
	S.E.	N	0.00	0.00	0.00	N	2.72	6.71	3.74
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-71 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS				EGGS			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	N	0.00	4.38	12.88	16.76	14.59
	S.E.	N	0.00	N	0.00	2.51	6.81	3.66	2.94
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	0.00	N	0.00	0.75	26.70	20.00	19.75
	S.E.	N	0.00	N	0.00	0.59	6.74	7.37	5.11
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	0.00	N	0.00	0.83	37.33	33.57	31.27
	S.E.	N	0.00	N	0.00	0.26	6.34	6.56	4.58
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	1.02	N	1.02	0.10	5.35	4.21	4.09
	S.E.	N	1.02	N	1.02	0.10	1.27	1.28	0.90
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	0.00	N	0.00	0.02	0.61	0.35	0.38
	S.E.	N	0.00	N	0.00	0.02	0.32	0.10	0.10
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	0.00	N	0.00	0.14	0.40	0.57	0.49
	S.E.	N	0.00	N	0.00	0.14	0.24	0.19	0.14
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	1.79	N	1.79	0.00	3.41	0.91	1.44
	S.E.	N	1.79	N	1.79	0.00	1.34	0.54	0.48
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	0.00	N	0.00	0.00	0.46	0.05	0.15
	S.E.	N	0.00	N	0.00	0.00	0.46	0.03	0.11
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.03	0.02
	S.E.	N	0.00	N	0.00	0.00	0.00	0.03	0.02
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-72
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

STRIPED BASS

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.64	0.00	0.12
	S.E.	0.00	N	0.00	0.00	0.00	0.64	0.00	0.12
	NO. TOWS	3	N	3	6	3	4	3	10
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10
24MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11
31MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.71	0.31
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.71	0.31
	NO. TOWS	3	N	3	6	3	4	4	11
07JUN82	DENSITY	0.00	N	0.00	0.00	0.00	17.51	0.75	3.70
	S.E.	0.00	N	0.00	0.00	0.00	10.47	0.75	2.05
	NO. TOWS	3	N	3	6	3	4	4	11
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	7.94	0.00	1.53
	S.E.	0.00	N	0.00	0.00	0.00	7.26	0.00	1.40
	NO. TOWS	1	N	8	9	3	5	6	14
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	9	10	3	5	6	14
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14

YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	24.47	22.91	12.85	19.30
	S.E.	10.30	11.13	6.07	5.15
	NO. TOWS	6	3	5	14
17MAY82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	6	3	4	13
24MAY82	DENSITY	0.00	0.77	1.05	0.60
	S.E.	0.00	0.77	1.05	0.47
	NO. TOWS	5	4	3	12
31MAY82	DENSITY	0.00	1.00	0.00	0.22
	S.E.	0.00	1.00	0.00	0.22
	NO. TOWS	5	4	3	12
07JUN82	DENSITY	82.09	418.91	40.86	139.09
	S.E.	24.14	236.05	6.38	52.75
	NO. TOWS	5	4	4	13
14JUN82	DENSITY	16.23	20.03	12.65	15.58
	S.E.	9.20	17.09	6.03	5.63
	NO. TOWS	4	6	6	16
21JUN82	DENSITY	0.00	0.00	0.85	0.35
	S.E.	0.00	0.00	0.85	0.35
	NO. TOWS	4	6	6	16
28JUN82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	6	16
05JUL82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-72 (CONTINUED).

STRIPED BASS YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
10MAY82	DENSITY	50.68	25.12	33.58	33.26	N	17.73	18.73	18.59	2.26	2.00	12.99	9.47
	S.E.	30.10	5.75	6.55	5.50	N	8.41	4.25	3.84	1.10	0.98	10.65	7.24
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	5.54	74.49	15.60	24.43	N	40.94	104.93	96.10	66.40	155.04	125.03	129.53
	S.E.	1.19	31.10	5.67	6.66	N	15.07	29.95	25.90	40.92	51.92	87.48	60.99
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	1.04	76.06	54.51	54.73	N	428.71	465.72	460.62	951.40	1557.90	26.45	483.17
	S.E.	1.04	72.93	25.83	23.28	N	86.22	95.17	82.90	596.73	733.25	7.91	196.16
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	25.28	216.22	154.96	156.94	N	463.71	422.26	427.97	121.87	556.81	54.35	190.52
	S.E.	9.69	107.21	52.43	44.32	N	249.15	78.28	75.73	55.04	234.10	51.73	71.00
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	41.02	278.88	66.63	99.11	N	44.36	22.93	25.88	9.94	27.15	7.43	12.76
	S.E.	27.45	158.90	25.47	32.34	N	18.88	6.40	6.10	9.26	10.16	7.43	5.73
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	8.13	3.37	7.78	7.10	N	1.45	3.55	3.26	0.00	24.13	0.78	6.88
	S.E.	6.06	1.65	5.51	4.32	N	0.99	1.30	1.13	0.00	11.24	0.44	2.98
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	8.00	5.57	18.73	15.97	N	31.03	28.12	28.52	0.00	20.54	10.36	12.44
	S.E.	3.94	5.57	6.74	5.33	N	10.11	8.27	7.26	0.00	16.92	4.03	5.23
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	0.53	11.81	3.35	4.54	N	6.92	2.80	3.36	0.00	3.23	4.12	3.65
	S.E.	0.53	6.95	1.25	1.48	N	2.16	1.01	0.92	0.00	1.16	0.98	0.73
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	0.00	0.00	0.53	0.41	N	2.26	0.71	0.92	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.38	0.29	N	1.50	0.26	0.30	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-72 (CONTINUED).

STRIPED BASS YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	DENSITY	N	14.65	9.53	10.72	N	1.33	1.11	1.15	N	0.00	0.37	0.25
	S.E.	N	7.60	3.52	3.22	N	0.72	0.50	0.42	N	0.00	0.37	0.25
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	61.51	70.99	68.79	N	39.91	37.21	37.77	N	1.56	0.76	1.03
	S.E.	N	14.63	22.02	17.25	N	12.32	18.35	14.77	N	1.05	0.76	0.62
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	1357.94	1083.48	1147.17	N	1961.41	493.31	797.57	N	255.28	11.53	93.87
	S.E.	N	298.76	646.53	501.31	N	869.22	333.24	319.76	N	92.17	6.20	31.41
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	1365.30	260.14	516.60	N	648.56	319.51	387.70	N	227.78	0.78	77.46
	S.E.	N	302.66	154.39	137.80	N	165.93	257.68	207.15	N	145.82	0.49	49.26
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	6.02	0.86	2.05	N	1.99	2.03	2.02	N	5.32	2.65	3.55
	S.E.	N	1.79	0.64	0.65	N	1.54	1.20	1.00	N	1.96	1.37	1.12
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	116.66	77.06	86.25	N	1.72	5.25	4.52	N	12.40	6.93	8.78
	S.E.	N	58.63	52.12	42.28	N	0.70	3.49	2.77	N	9.52	4.98	4.60
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	86.67	53.92	61.52	N	61.19	40.80	45.03	N	17.48	7.30	10.73
	S.E.	N	26.68	34.20	26.98	N	25.88	19.22	16.15	N	6.92	2.40	2.83
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	53.13	12.59	22.00	N	16.62	6.33	8.46	N	1.37	0.00	0.46
	S.E.	N	19.27	5.73	6.27	N	8.35	3.71	3.41	N	1.37	0.00	0.46
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	0.00	0.17	0.13	N	0.00	0.00	0.00	N	0.00	0.43	0.28
	S.E.	N	0.00	0.17	0.13	N	0.00	0.00	0.00	N	0.00	0.43	0.28
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-72 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS				YOLK-SAC LARVAE			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	120.62	128.14	125.45	N	8.42	14.58	11.64
	S.E.	N	52.00	87.29	59.04	N	8.42	13.38	8.06
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	36.23	4.12	15.62	N	20.73	4.78	12.40
	S.E.	N	10.82	2.13	4.11	N	5.67	4.78	3.69
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	3.09	0.95	1.72	N	0.00	0.00	0.00
	S.E.	N	1.37	0.95	0.78	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	168.11	53.44	94.50	N	4.19	5.05	4.64
	S.E.	N	86.50	0.00	30.98	N	2.78	5.05	2.95
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	9.32	21.95	17.42	N	54.33	12.10	32.28
	S.E.	N	7.49	14.22	9.51	N	35.40	2.30	16.96
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	10.67	16.82	14.62	N	10.55	5.10	7.70
	S.E.	N	9.72	8.74	6.60	N	6.00	5.10	3.91
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	0.00	1.49	0.96	N	0.00	0.84	0.44
	S.E.	N	0.00	1.49	0.96	N	0.00	0.84	0.44
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-72 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS ALBANY S	B	C	R	YOLK-SAC LARVAE COMBINED S	B	C	R
10MAY82	DENSITY	N	0.00	N	0.00	8.86	5.87	8.85	8.12
	S.E.	N	0.00	N	0.00	3.02	1.28	1.26	0.93
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	0.00	N	0.00	2.73	27.11	36.52	30.89
	S.E.	N	0.00	N	0.00	1.49	4.45	7.65	5.14
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	0.00	N	0.00	34.63	456.84	284.99	302.50
	S.E.	N	0.00	N	0.00	21.68	82.21	104.57	71.59
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	0.00	N	0.00	5.86	310.41	139.93	168.53
	S.E.	N	0.00	N	0.00	2.07	46.16	34.81	25.50
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	1.05	N	1.05	22.53	49.11	12.79	22.65
	S.E.	N	1.05	N	1.05	6.05	16.87	2.94	4.60
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	0.00	N	0.00	4.38	39.30	18.94	22.50
	S.E.	N	0.00	N	0.00	2.25	12.36	8.06	6.10
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	2.75	N	2.75	0.45	28.28	20.81	20.64
	S.E.	N	1.56	N	1.56	0.22	6.35	5.77	4.10
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	1.89	N	1.89	0.03	11.95	5.02	6.23
	S.E.	N	1.89	N	1.89	0.03	2.86	1.20	1.06
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	0.00	N	0.00	0.00	0.12	0.36	0.26
	S.E.	N	0.00	N	0.00	0.00	0.08	0.14	0.09
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-73
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

STRIPED BASS — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	0.00	0.00	0.00	1.19	0.00	0.23	0.00	2.13	0.00	0.47
	S.E.	0.00	N	0.00	0.00	0.00	0.69	0.00	0.13	0.00	1.40	0.00	0.31
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	2.15	N	0.00	0.25	18.38	0.91	17.08	14.45	42.47	322.74	5.21	88.68
	S.E.	2.15	N	0.00	0.25	12.76	0.91	17.08	8.77	23.14	67.79	5.21	17.28
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	172.87	N	262.11	251.76	63.77	603.56	42.71	158.90	1064.92	2722.76	2064.21	1844.45
	S.E.	38.84	N	171.77	151.91	38.48	114.81	14.14	27.19	647.48	278.43	346.05	283.21
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	44.88	N	18.43	21.50	12.68	168.91	2.92	38.64	110.62	34.50	103.69	90.99
	S.E.	0.00	N	9.28	8.20	12.68	46.91	2.40	10.30	15.04	20.72	30.11	14.39
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	3.14	N	9.92	9.13	18.13	29.11	6.06	15.07	43.98	24.28	31.63	34.52
	S.E.	0.00	N	8.10	7.16	11.92	10.15	4.11	5.22	5.79	4.23	5.81	3.34
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	3.20	N	0.00	0.37	63.87	63.92	42.08	54.53	34.76	45.11	158.77	88.51
	S.E.	0.00	N	0.00	0.00	20.30	42.64	13.13	12.58	7.41	7.36	61.46	25.70
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	0.00	N	0.00	0.00	1.04	1.15	2.36	1.63	17.86	30.32	36.97	28.53
	S.E.	0.00	N	0.00	0.00	1.04	0.71	1.58	0.79	5.57	7.16	7.34	3.99
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-73 (CONTINUED).

STRIPED BASS — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
10MAY82	DENSITY	0.00	0.00	0.14	0.11	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.14	0.11	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.00	0.00	0.00	0.00	N	8.34	8.29	8.30	0.00	16.67	2.23	5.90
	S.E.	0.00	0.00	0.00	0.00	N	4.09	3.66	3.20	0.00	6.71	2.23	2.33
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	16.87	60.39	49.76	N	83.24	117.22	112.53	163.96	164.14	8.40	58.41
	S.E.	0.00	13.40	27.81	21.78	N	20.48	19.93	17.41	129.17	59.03	5.32	17.62
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	217.31	673.63	760.08	713.39	N	741.92	1733.77	1597.00	412.62	1088.72	800.82	854.11
	S.E.	110.80	302.79	135.01	116.05	N	182.74	405.68	350.64	295.83	310.14	777.30	534.20
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	526.06	918.73	625.12	666.21	N	71.19	68.93	69.24	17.02	78.94	12.18	30.03
	S.E.	249.97	299.16	116.91	104.06	N	20.43	17.49	15.34	9.57	37.86	4.48	10.43
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	1.25	11.28	20.62	17.95	N	3.59	11.39	10.31	0.00	7.68	6.08	6.15
	S.E.	1.25	7.06	7.69	6.10	N	1.65	2.72	2.36	0.00	3.09	1.71	1.42
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	22.24	33.46	76.01	65.94	N	68.06	81.87	79.96	9.40	89.09	82.17	79.77
	S.E.	7.07	18.71	16.35	13.09	N	18.62	12.18	10.81	3.42	29.53	18.42	14.72
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	116.03	76.62	85.16	85.66	N	84.62	88.83	88.25	103.79	183.99	89.89	115.47
	S.E.	62.97	24.78	14.74	12.73	N	12.97	11.43	10.02	35.84	43.21	11.78	14.06
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	13.03	36.44	21.83	23.64	N	20.82	17.35	17.83	12.04	16.41	17.99	17.23
	S.E.	6.97	29.88	5.57	6.48	N	8.66	6.03	5.33	5.37	5.98	3.32	2.77
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-73 (CONTINUED).

STRIPED BASS POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	3.39	0.00	0.79	N	0.41	0.00	0.08	N	0.00	0.00	0.00
	S.E.	N	3.09	0.00	0.72	N	0.41	0.00	0.08	N	0.00	0.00	0.00
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	331.95	83.49	141.15	N	8.28	6.88	7.17	N	0.00	0.47	0.31
	S.E.	N	154.13	54.42	55.00	N	4.45	3.46	2.89	N	0.00	0.47	0.31
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	1797.42	291.44	640.92	N	332.48	236.52	256.41	N	24.70	0.44	8.63
	S.E.	N	762.84	101.84	193.53	N	102.51	150.08	120.86	N	9.38	0.44	3.18
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	11.12	7.44	8.30	N	1.22	4.88	4.12	N	2.33	0.42	1.07
	S.E.	N	3.06	4.44	3.48	N	0.58	3.25	2.58	N	2.33	0.42	0.84
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	13.55	1.36	4.19	N	1.77	0.23	0.55	N	0.00	0.00	0.00
	S.E.	N	5.46	0.46	1.32	N	1.19	0.23	0.31	N	0.00	0.00	0.00
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	24.75	36.60	33.85	N	17.51	7.51	9.58	N	10.65	7.77	8.74
	S.E.	N	13.52	14.12	11.28	N	5.27	2.31	2.13	N	4.86	4.07	3.15
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	81.28	52.35	59.06	N	42.61	44.51	44.11	N	31.56	68.88	56.27
	S.E.	N	22.71	9.20	8.82	N	10.17	6.97	5.91	N	9.45	16.39	11.32
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	85.63	17.36	33.20	N	12.52	5.66	7.08	N	6.17	6.98	6.70
	S.E.	N	55.50	5.33	13.51	N	8.53	1.38	2.08	N	4.06	5.38	3.82
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-73 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS				POST YOLK-SAC LARVAE			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	14.36	0.00	5.14	N	0.00	0.00	0.00
	S.E.	N	4.64	0.00	1.66	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	0.69	0.00	0.25	N	0.00	0.00	0.00
	S.E.	N	0.69	0.00	0.25	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	0.00	2.67	1.72	N	1.03	0.00	0.49
	S.E.	N	0.00	0.00	0.00	N	1.03	0.00	0.49
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	4.17	16.79	12.27	N	0.00	0.00	0.00
	S.E.	N	1.81	16.79	10.80	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	44.66	37.44	40.03	N	11.70	4.11	7.74
	S.E.	N	30.32	27.22	20.57	N	9.12	2.14	4.50
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	15.79	0.00	5.66	N	0.00	0.00	0.00
	S.E.	N	10.63	0.00	3.81	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-73 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS				POST YOLK-SAC LARVAE			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.02	0.01
	S.E.	N	0.00	N	0.00	0.00	0.00	0.02	0.01
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	0.00	N	0.00	0.00	1.98	1.14	1.23
	S.E.	N	0.00	N	0.00	0.00	0.62	0.46	0.34
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	0.00	N	0.00	5.96	58.27	34.67	37.63
	S.E.	N	0.00	N	0.00	4.69	19.63	9.23	7.75
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	0.00	N	0.00	47.84	417.85	409.60	376.06
	S.E.	N	0.00	N	0.00	15.32	99.61	73.94	54.36
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	0.00	N	0.00	343.31	292.54	203.43	239.02
	S.E.	N	0.00	N	0.00	158.67	27.58	30.32	26.18
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	0.00	N	0.00	39.10	24.20	11.48	17.32
	S.E.	N	0.00	N	0.00	7.82	5.45	2.00	2.03
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	0.00	N	0.00	22.50	21.64	34.62	30.25
	S.E.	N	0.00	N	0.00	6.67	3.24	3.82	2.71
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	1.89	N	1.89	53.99	53.32	55.50	54.82
	S.E.	N	1.89	N	1.89	11.85	7.50	4.54	3.69
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	0.00	N	0.00	6.06	20.01	10.96	12.70
	S.E.	N	0.00	N	0.00	1.53	7.31	1.36	2.01
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-74
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		STRIPED BASS				YOUNG-OF-THE-YEAR							
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	27.03	0.54	0.00	9.98
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	21.50	0.54	0.00	7.85
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-74 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
10MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.38	0.00	0.05	0.98	0.00	0.00	0.06
	S.E.	0.00	0.00	0.00	0.00	N	0.38	0.00	0.05	0.98	0.00	0.00	0.06
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	32.67	0.00	0.00	1.98	N	0.00	0.00	0.00	5.56	0.28	0.00	0.40
	S.E.	18.72	0.00	0.00	1.13	N	0.00	0.00	0.00	3.18	0.28	0.00	0.20
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-74 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	0.40	0.35	0.36	N	1.87	0.00	0.39	N	0.00	0.00	0.00
	S.E.	N	0.40	0.35	0.28	N	1.87	0.00	0.39	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	0.41	0.00	0.09	N	0.00	0.28	0.22	N	3.77	0.00	1.28
	S.E.	N	0.41	0.00	0.09	N	0.00	0.28	0.22	N	3.77	0.00	1.28
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-74 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.96	0.00	0.46
	S.E.	N	0.00	0.00	0.00	N	0.96	0.00	0.46
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-74 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS ALBANY S	B	C	R	YOUNG-OF-THE-YEAR COMBINED S	B	C	R
10MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	0.00	N	0.00	0.04	0.18	0.05	0.08
	S.E.	N	0.00	N	0.00	0.04	0.13	0.05	0.05
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	0.00	N	0.00	8.59	0.56	0.02	1.00
	S.E.	N	0.00	N	0.00	5.31	0.36	0.02	0.53
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-75
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

STRIPED BASS — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
09AUG82	DENSITY	1.52	N	0.00	0.18	13.23	0.00	0.40	5.18	2.02	7.01	0.00	2.28
	S.E.	0.76	N	0.00	0.09	3.43	0.00	0.40	1.31	0.96	5.62	0.00	1.28
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	1.27	N	0.00	0.15	0.74	1.08	0.00	0.49	0.18	17.63	0.00	3.94
	S.E.	0.92	N	0.00	0.11	0.40	0.74	0.00	0.21	0.18	4.95	0.00	1.09
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.97	N	0.00	0.11	0.50	13.07	0.00	2.71	0.35	6.27	0.00	1.51
	S.E.	0.63	N	0.00	0.07	0.32	8.58	0.00	1.66	0.24	4.19	0.00	0.93
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.30	0.00	0.06	0.00	0.25	0.00	0.06
	S.E.	0.00	N	0.00	0.00	0.00	0.30	0.00	0.06	0.00	0.25	0.00	0.06
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.25	2.30	0.00	0.54	0.00	0.68	0.00	0.15
	S.E.	0.00	N	0.00	0.00	0.14	1.59	0.00	0.31	0.00	0.68	0.00	0.15
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-75 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
09AUG82	DENSITY	7.81	0.00	0.00	0.47	N	0.00	0.00	0.00	1.58	0.00	0.00	0.09
	S.E.	5.84	0.00	0.00	0.35	N	0.00	0.00	0.00	1.07	0.00	0.00	0.06
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.38	0.00	0.00	0.02	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.38	0.00	0.00	0.02	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	2.42	0.00	0.00	0.15	N	0.00	0.00	0.00	1.46	0.00	0.00	0.08
	S.E.	1.58	0.00	0.00	0.10	N	0.00	0.00	0.00	0.60	0.00	0.00	0.03
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	1.80	0.00	0.00	0.10
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	1.30	0.00	0.00	0.08
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.54	0.00	0.07	0.47	0.00	0.00	0.03
	S.E.	0.00	0.00	0.00	0.00	N	0.54	0.00	0.07	0.47	0.00	0.00	0.03
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-75 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.27	0.00	0.09
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.27	0.00	0.09
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.40	0.00	0.09	N	0.40	0.00	0.08	N	0.00	0.00	0.00
	S.E.	N	0.40	0.00	0.09	N	0.40	0.00	0.08	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	4.87	0.00	1.65
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	3.37	0.00	1.14
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.29	0.00	0.10
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.29	0.00	0.10
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-75 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.87	0.00	0.31	N	0.18	0.00	0.09
	S.E.	N	0.48	0.00	0.17	N	0.18	0.00	0.09
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.20	0.00	0.07	N	0.28	0.00	0.13
	S.E.	N	0.20	0.00	0.07	N	0.19	0.00	0.09
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.91	0.00	0.32	N	0.00	0.00	0.00
	S.E.	N	0.68	0.00	0.24	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-75 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	8.39	0.56	0.04	0.99
	S.E.	N	0.00	N	0.00	1.92	0.33	0.04	0.21
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	0.62	1.29	0.00	0.38
	S.E.	N	0.00	N	0.00	0.25	0.31	0.00	0.08
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	0.66	2.35	0.00	0.64
	S.E.	N	0.00	N	0.00	0.22	1.03	0.00	0.25
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	0.07	0.07	0.00	0.02
	S.E.	N	0.00	N	0.00	0.05	0.04	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	0.15	0.32	0.00	0.09
	S.E.	N	0.00	N	0.00	0.08	0.18	0.00	0.05
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-76
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	2.80	8.79	6.21	7.00	3.80	2.33	1.20	2.20	0.60	0.33	0.30	0.43	4.24
	S.E.	1.71	2.49	1.70	2.47	1.50	1.48	1.20	0.73	0.60	0.24	0.21	0.30	0.74
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	8.40	6.67	13.64	2.20	0.40	0.83	1.60	0.00	0.80	0.11	1.20	0.57	4.79
	S.E.	3.85	1.98	4.42	1.46	0.40	0.31	0.87	0.00	0.37	0.11	0.88	0.20	0.90
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	4.60	7.88	21.64	15.00	2.40	0.67	0.60	0.20	0.00	0.44	0.20	0.14	6.73
	S.E.	0.93	2.07	5.39	6.40	0.68	0.21	0.24	0.20	0.00	0.24	0.13	0.14	1.07
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	5.80	12.71	25.57	16.40	3.80	1.17	1.00	0.40	0.40	0.89	0.40	0.00	8.92
	S.E.	2.97	3.33	13.11	10.20	1.93	0.31	0.55	0.24	0.40	0.59	0.31	0.00	2.33
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	5.80	4.67	4.93	6.40	1.80	0.67	0.80	0.00	0.60	0.00	0.30	0.00	2.80
	S.E.	1.36	1.84	1.22	3.39	0.92	0.67	0.58	0.00	0.40	0.00	0.15	0.00	0.56
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-77
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.17	0.00	0.00	0.06	0.18	0.00	0.00	0.06
	S.E.	0.00	N	0.00	0.00	0.12	0.00	0.00	0.04	0.18	0.00	0.00	0.06
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.09	0.00	0.00	0.04	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.09	0.00	0.00	0.04	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.73	0.00	0.14	0.00	0.37	0.00	0.08
	S.E.	0.00	N	0.00	0.00	0.00	0.48	0.00	0.09	0.00	0.37	0.00	0.08
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.27	0.37	0.00	0.18	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.15	0.37	0.00	0.09	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-77 (CONTINUED).

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
09AUG82	DENSITY	0.41	0.00	0.00	0.02	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.41	0.00	0.00	0.02	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.86	0.00	0.00	0.05
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.52	0.00	0.00	0.03
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-77 (CONTINUED).

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.45	0.00	0.09	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.45	0.00	0.09	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.81	0.62	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.81	0.62	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-77 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS				YEARLING			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-77 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS				YEARLING			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	0.16	0.03	0.00	0.02
	S.E.	N	0.00	N	0.00	0.08	0.03	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	0.05	0.00	0.00	0.01
	S.E.	N	0.00	N	0.00	0.05	0.00	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	0.00	0.10	0.12	0.11
	S.E.	N	0.00	N	0.00	0.00	0.06	0.12	0.08
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	0.03	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.02	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	0.15	0.04	0.00	0.02
	S.E.	N	0.00	N	0.00	0.08	0.04	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-78
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.00	0.08	0.14	0.40	0.00	0.00	0.20	0.00	0.00	0.11	0.00	0.00	0.09
	S.E.	0.00	0.06	0.10	0.24	0.00	0.00	0.20	0.00	0.00	0.11	0.00	0.00	0.97
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	0.17	0.21	0.00	0.20	0.33	0.40	0.00	0.40	0.44	0.00	0.00	0.19
	S.E.	0.00	0.10	0.15	0.00	0.20	0.33	0.40	0.00	0.24	0.44	0.00	0.00	1.47
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.00	0.17	0.07	0.00	0.00	0.17	0.60	0.00	0.00	0.33	0.60	2.00	0.35
	S.E.	0.00	0.13	0.07	0.00	0.00	0.17	0.60	0.00	0.00	0.17	0.60	1.84	1.98
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.20	0.17	1.36	0.00	0.00	0.17	0.00	0.00	0.60	0.00	0.00	0.00	0.31
	S.E.	0.20	0.13	0.95	0.00	0.00	0.17	0.00	0.00	0.40	0.00	0.00	0.00	1.58
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.20	0.00	0.07	0.20	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.14	0.05
	S.E.	0.20	0.00	0.07	0.20	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.14	0.85
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-79
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

STRIPED BASS — OLDER

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
09AUG82	DENSITY	0.36	N	0.00	0.04	0.09	0.69	0.00	0.17	0.00	0.00	0.00	0.00
	S.E.	0.36	N	0.00	0.04	0.09	0.45	0.00	0.09	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.42	N	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.42	N	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-79 (CONTINUED).

STRIPED BASS OLDER

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
09AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.41	0.00	0.00	0.02
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.41	0.00	0.00	0.02
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.39	0.00	0.06	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.39	0.00	0.06	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-79 (CONTINUED).

STRIPED BASS OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.46	0.00	0.16
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.31	0.00	0.10
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.38	0.00	0.08	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.38	0.00	0.08	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-79 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS				OLDER			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.39	0.00	0.14	N	0.00	0.00	0.00
	S.E.	N	0.26	0.00	0.09	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.17	0.00	0.08
	S.E.	N	0.00	0.00	0.00	N	0.17	0.00	0.08
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-79 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS				OLDER			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	0.09	0.16	0.00	0.05
	S.E.	N	0.00	N	0.00	0.07	0.06	0.00	0.02
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	0.02	0.05	0.00	0.01
	S.E.	N	0.00	N	0.00	0.02	0.03	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	0.05	0.02	0.00	0.01
	S.E.	N	0.00	N	0.00	0.05	0.02	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-80
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

STRIPED BASS OLDER

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.02
	S.E.	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.39
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
	S.E.	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.00	0.00	0.07	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	S.E.	0.00	0.00	0.07	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.49
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-81
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE PERCH

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10
24MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11
31MAY82	DENSITY	0.00	N	0.00	0.00	2.17	8.17	3.56	3.92
	S.E.	0.00	N	0.00	0.00	2.17	8.17	3.56	2.34
	NO. TOWS	3	N	3	6	3	4	4	11
07JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	9	10	3	5	6	14
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14

EGGS

WEEK BEGINNING MONDAY		CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	9.19	0.00	0.00	3.35
	S.E.	6.29	0.00	0.00	2.30
	NO. TOWS	6	3	5	14
17MAY82	DENSITY	8.32	0.00	0.00	3.04
	S.E.	8.32	0.00	0.00	3.04
	NO. TOWS	6	3	4	13
24MAY82	DENSITY	4.00	0.66	0.00	1.60
	S.E.	4.00	0.66	0.00	1.47
	NO. TOWS	5	4	3	12
31MAY82	DENSITY	72.97	0.00	0.00	26.63
	S.E.	58.51	0.00	0.00	21.35
	NO. TOWS	5	4	3	12
07JUN82	DENSITY	0.60	0.00	0.00	0.22
	S.E.	0.60	0.00	0.00	0.22
	NO. TOWS	5	4	4	13
14JUN82	DENSITY	52.29	1.02	0.00	19.31
	S.E.	39.46	0.65	0.00	14.40
	NO. TOWS	4	6	6	16
21JUN82	DENSITY	0.73	0.00	0.00	0.27
	S.E.	0.73	0.00	0.00	0.27
	NO. TOWS	4	6	6	16
28JUN82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	6	16
05JUL82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-81 (CONTINUED).

WHITE PERCH EGGS

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
10MAY82	DENSITY	21.29	20.33	1.95	6.07	N	114.90	24.72	37.16	12.15	355.85	24.57	111.06
	S.E.	14.53	19.64	1.05	3.37	N	54.54	7.30	9.81	7.49	154.65	18.10	42.53
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.00	4.02	8.85	7.54	N	194.02	26.30	49.43	106.93	59.73	0.88	22.52
	S.E.	0.00	3.33	4.11	3.25	N	161.21	12.71	24.79	104.82	32.46	0.56	10.49
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	1.17	0.96	3.53	2.97	N	33.16	8.49	11.90	7.90	172.61	3.61	48.34
	S.E.	1.17	0.62	2.87	2.24	N	21.81	6.85	6.63	5.12	77.72	2.99	20.56
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	0.90	5.71	6.02	5.66	N	15.36	2.83	4.56	1.15	18.04	2.54	6.54
	S.E.	0.90	4.28	2.56	2.11	N	10.91	2.00	2.29	1.15	12.39	2.54	3.69
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	0.00	0.00	12.37	9.64	N	46.53	3.62	9.54	2.77	4.26	0.42	1.57
	S.E.	0.00	0.00	8.22	6.40	N	31.85	1.52	4.58	1.75	3.85	0.42	1.06
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	0.00	0.00	0.00	0.00	N	7.98	8.32	8.27	0.91	146.16	0.00	38.53
	S.E.	0.00	0.00	0.00	0.00	N	6.34	3.65	3.26	0.91	115.30	0.00	30.35
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	0.00	0.47	0.39	0.38	N	14.34	6.42	7.51	0.00	223.02	1.18	59.51
	S.E.	0.00	0.47	0.26	0.22	N	13.16	2.68	2.93	0.00	69.46	0.97	18.30
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	0.00	0.00	0.00	0.00	N	26.06	0.34	3.89	0.00	25.35	0.00	6.67
	S.E.	0.00	0.00	0.00	0.00	N	23.90	0.26	3.30	0.00	13.12	0.00	3.45
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	0.00	0.00	0.00	0.00	N	0.29	1.56	1.38	0.00	54.88	0.00	14.45
	S.E.	0.00	0.00	0.00	0.00	N	0.29	1.19	1.03	0.00	41.61	0.00	10.95
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-81 (CONTINUED).

WHITE PERCH EGGS

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	DENSITY	N	210.16	5.04	52.64	N	2488.61	99.01	594.26	N	432.55	45.17	176.03
	S.E.	N	64.76	2.49	15.15	N	455.46	56.73	104.56	N	243.68	29.02	84.53
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	439.55	47.66	138.61	N	2975.67	105.22	700.12	N	1015.92	3.25	345.34
	S.E.	N	228.74	26.17	56.76	N	639.11	44.84	137.14	N	558.63	3.25	188.72
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	83.72	4.49	22.87	N	547.89	11.34	122.54	N	45.91	427.71	298.73
	S.E.	N	35.08	2.26	8.32	N	321.99	8.43	67.07	N	45.91	422.15	279.97
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	1297.11	16.23	313.47	N	39.13	2.84	10.36	N	208.89	36.80	94.93
	S.E.	N	1038.55	8.24	241.09	N	15.10	1.77	3.43	N	109.63	29.21	41.78
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	40.82	0.96	10.21	N	11.85	2.36	4.33	N	26.27	3.06	10.90
	S.E.	N	24.02	0.61	5.59	N	7.93	2.36	2.49	N	13.05	2.56	4.72
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	670.90	15.85	167.86	N	1076.12	0.23	223.21	N	7.07	1.45	3.35
	S.E.	N	608.07	10.12	141.32	N	1018.03	0.23	210.99	N	7.07	0.75	2.44
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	29.90	1.06	7.75	N	6.53	0.32	1.61	N	0.00	0.00	0.00
	S.E.	N	28.95	0.89	6.75	N	4.47	0.32	0.96	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	20.60	0.87	5.45	N	1.12	0.00	0.23	N	2.78	0.00	0.94
	S.E.	N	12.33	0.71	2.91	N	0.69	0.00	0.14	N	1.61	0.00	0.54
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	0.41	5.26	4.13	N	0.00	0.00	0.00	N	2.33	0.00	0.79
	S.E.	N	0.41	4.39	3.37	N	0.00	0.00	0.00	N	2.33	0.00	0.79
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-81 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				EGGS			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	9166.16	482.77	3592.43	N	2573.03	424.16	1451.12
	S.E.	N	3600.26	393.78	1313.85	N	1473.67	251.48	716.41
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	1089.99	57.97	427.55	N	1718.55	161.75	905.76
	S.E.	N	782.86	43.26	281.73	N	1622.85	111.15	777.74
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	797.78	2108.81	1639.31	N	759.84	990.82	880.43
	S.E.	N	278.53	2064.04	1328.62	N	438.43	294.72	259.96
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	364.44	87.98	186.98	N	56.18	6.61	30.30
	S.E.	N	101.78	54.55	50.54	N	29.01	5.36	14.15
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	243.47	64.28	128.45	N	38.34	3.42	20.11
	S.E.	N	80.40	55.47	45.79	N	24.52	3.42	11.85
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	127.52	0.00	45.67	N	456.41	94.24	267.32
	S.E.	N	64.35	0.00	23.04	N	98.94	26.08	49.21
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	61.16	5.15	25.21	N	69.34	30.68	49.15
	S.E.	N	57.49	5.15	20.85	N	43.22	15.44	22.17
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	70.63	4.04	27.89	N	31.31	0.00	14.96
	S.E.	N	56.46	4.04	20.39	N	18.06	0.00	8.63
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	2.77	11.91	8.64	N	0.88	0.89	0.89
	S.E.	N	1.90	11.91	7.68	N	0.88	0.89	0.63
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-81 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				EGGS			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	48.95	N	48.95	3.87	1650.37	77.66	455.84
	S.E.	N	28.41	N	28.41	1.75	458.29	33.56	114.45
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	202.80	N	202.80	5.90	727.20	34.51	201.45
	S.E.	N	159.98	N	159.98	4.31	251.74	9.19	61.99
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	389.21	N	389.21	1.32	306.83	246.26	237.03
	S.E.	N	383.98	N	383.98	0.99	86.85	159.89	107.13
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	1303.46	N	1303.46	18.92	401.07	13.61	109.09
	S.E.	N	452.85	N	452.85	14.20	142.56	4.75	35.10
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	32280.69	N	32280.69	0.25	4173.90	7.43	1027.81
	S.E.	N	15051.80	N	15051.80	0.16	1925.86	4.33	471.98
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	145.51	N	145.51	12.68	256.90	8.86	70.02
	S.E.	N	75.35	N	75.35	9.54	100.37	2.19	24.66
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	78.11	N	78.11	0.18	46.18	3.20	13.44
	S.E.	N	46.15	N	46.15	0.18	12.16	1.02	3.05
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	1.89	N	1.89	0.00	18.48	0.48	4.85
	S.E.	N	1.89	N	1.89	0.00	7.21	0.33	1.78
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	7.86	N	7.86	0.00	5.34	1.95	2.59
	S.E.	N	4.21	N	4.21	0.00	2.83	1.14	1.02
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-82
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE PERCH

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R
10MAY82	DENSITY	1.04	N	0.00	0.12	2.76	1.34	1.59	1.98
	S.E.	1.04	N	0.00	0.12	1.69	1.34	0.79	0.77
	NO. TOWS	3	N	3	6	3	4	3	10
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10
24MAY82	DENSITY	0.92	N	0.89	0.90	0.00	0.00	0.00	0.00
	S.E.	0.92	N	0.89	0.80	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11
31MAY82	DENSITY	0.00	N	0.00	0.00	2.99	1.02	0.00	1.33
	S.E.	0.00	N	0.00	0.00	1.77	1.02	0.00	0.70
	NO. TOWS	3	N	3	6	3	4	4	11
07JUN82	DENSITY	11.28	N	0.00	1.31	2.79	0.69	1.51	1.84
	S.E.	8.32	N	0.00	0.97	1.52	0.69	1.51	0.87
	NO. TOWS	3	N	3	6	3	4	4	11
14JUN82	DENSITY	0.00	N	0.00	0.00	1.06	1.88	0.00	0.76
	S.E.	0.00	N	0.00	0.00	1.06	0.78	0.00	0.43
	NO. TOWS	1	N	8	9	3	5	6	14
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.65	0.00	0.13
	S.E.	0.00	N	0.00	0.00	0.00	0.65	0.00	0.13
	NO. TOWS	1	N	9	10	3	5	6	14
28JUN82	DENSITY	3.20	N	0.00	0.37	1.98	0.63	0.00	0.87
	S.E.	0.00	N	0.00	0.00	1.98	0.63	0.00	0.76
	NO. TOWS	1	N	8	9	3	5	6	14
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14

YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	3.81	8.63	0.65	3.56
	S.E.	1.71	3.26	0.65	0.99
	NO. TOWS	6	3	5	14
17MAY82	DENSITY	0.46	0.00	0.00	0.17
	S.E.	0.46	0.00	0.00	0.17
	NO. TOWS	6	3	4	13
24MAY82	DENSITY	0.00	1.53	1.11	0.80
	S.E.	0.00	1.53	1.11	0.57
	NO. TOWS	5	4	3	12
31MAY82	DENSITY	8.96	0.00	0.00	3.27
	S.E.	4.35	0.00	0.00	1.59
	NO. TOWS	5	4	3	12
07JUN82	DENSITY	28.73	10.38	13.92	18.55
	S.E.	6.95	4.95	8.19	4.38
	NO. TOWS	5	4	4	13
14JUN82	DENSITY	32.29	0.49	1.46	12.50
	S.E.	12.72	0.49	0.65	4.65
	NO. TOWS	4	6	6	16
21JUN82	DENSITY	1.46	2.29	0.00	1.04
	S.E.	1.46	1.73	0.00	0.65
	NO. TOWS	4	6	6	16
28JUN82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	6	16
05JUL82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-82 (CONTINUED).

WHITE PERCH — YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
10MAY82	DENSITY	2.93	1.71	2.38	2.31	N	19.21	10.04	11.31	28.99	36.85	25.65	28.80
	S.E.	1.88	1.19	0.52	0.47	N	15.18	1.60	2.51	8.96	9.70	10.19	7.39
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	1.85	23.76	2.91	6.19	N	25.44	31.74	30.87	189.81	331.03	56.91	136.77
	S.E.	1.85	13.31	1.10	2.30	N	15.32	10.85	9.59	109.73	133.30	39.89	44.77
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	2.09	3.98	7.77	6.82	N	51.36	73.23	70.22	262.92	425.37	192.97	258.20
	S.E.	2.09	2.78	3.14	2.49	N	25.58	23.33	20.42	87.14	176.71	119.43	93.61
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	7.25	13.32	16.33	15.30	N	40.98	28.06	29.84	58.21	55.71	33.88	41.04
	S.E.	3.96	6.52	5.49	4.41	N	18.81	5.35	5.29	20.24	15.16	32.15	22.22
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	60.49	12.98	2.37	7.59	N	3.18	2.64	2.72	45.84	5.04	2.23	5.49
	S.E.	54.98	9.14	0.65	3.67	N	2.36	0.90	0.84	45.14	2.52	0.85	2.76
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	0.00	1.67	0.51	0.67	N	1.20	1.71	1.64	1.95	1.16	0.76	0.93
	S.E.	0.00	1.67	0.28	0.34	N	0.90	0.67	0.59	1.95	0.65	0.42	0.35
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	0.57	0.00	0.37	0.32	N	1.91	1.62	1.66	0.00	2.17	4.61	3.70
	S.E.	0.57	0.00	0.25	0.20	N	1.09	0.66	0.59	0.00	0.83	2.20	1.51
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	0.00	0.00	0.19	0.15	N	0.00	0.41	0.36	0.00	1.17	0.55	0.68
	S.E.	0.00	0.00	0.19	0.15	N	0.00	0.29	0.25	0.00	0.93	0.29	0.32
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	0.00	0.00	0.00	0.00	N	0.28	0.00	0.04	0.00	0.00	0.19	0.13
	S.E.	0.00	0.00	0.00	0.00	N	0.28	0.00	0.04	0.00	0.00	0.19	0.13
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-82 (CONTINUED).

WHITE PERCH — YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	POUGHKEEPSIE B	POUGHKEEPSIE C	POUGHKEEPSIE R	HYDE PARK S	HYDE PARK B	HYDE PARK C	HYDE PARK R	KINGSTON S	KINGSTON B	KINGSTON C	KINGSTON R
10MAY82	DENSITY	N	106.76	20.58	40.58	N	629.58	98.89	208.87	N	431.73	117.98	223.96
	S.E.	N	56.68	13.83	16.91	N	131.41	36.89	39.96	N	164.22	32.84	59.59
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	955.91	262.51	423.42	N	3860.01	1826.31	2247.79	N	2701.68	719.76	1389.27
	S.E.	N	280.44	91.73	95.90	N	766.53	439.09	382.63	N	1037.34	278.94	396.13
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	909.68	428.05	539.82	N	1389.54	350.54	565.87	N	747.99	158.42	357.58
	S.E.	N	253.67	121.06	110.04	N	557.78	148.85	165.19	N	75.18	93.34	66.82
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	106.05	31.83	49.05	N	83.16	19.35	32.58	N	15.96	22.28	20.14
	S.E.	N	28.61	7.30	8.69	N	31.58	8.82	9.58	N	5.90	10.14	7.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	13.10	6.13	7.75	N	5.94	14.97	13.10	N	70.62	188.47	148.66
	S.E.	N	3.47	2.50	2.08	N	2.80	7.59	6.05	N	32.62	72.72	49.40
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	0.77	10.69	8.39	N	6.12	3.17	3.78	N	7.29	23.90	18.29
	S.E.	N	0.50	3.26	2.51	N	4.23	1.31	1.36	N	4.43	7.35	5.09
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	7.64	3.45	4.43	N	14.51	14.12	14.20	N	19.11	7.89	11.68
	S.E.	N	3.29	1.74	1.54	N	6.35	4.40	3.73	N	6.31	1.63	2.39
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	0.00	1.59	1.22	N	1.70	0.00	0.35	N	0.00	0.00	0.00
	S.E.	N	0.00	0.96	0.74	N	1.70	0.00	0.35	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	0.41	0.00	0.09	N	0.56	0.00	0.12	N	0.00	0.00	0.00
	S.E.	N	0.41	0.00	0.09	N	0.56	0.00	0.12	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-82 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YOLK-SAC LARVAE			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	107.28	280.03	218.17	N	54.70	47.90	51.15
	S.E.	N	19.76	27.35	18.93	N	12.34	20.37	12.16
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	1087.85	533.26	731.87	N	34.78	126.60	82.72
	S.E.	N	907.29	198.03	348.90	N	18.09	98.08	51.93
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	1244.31	1003.58	1089.79	N	231.33	334.86	285.38
	S.E.	N	431.59	86.53	164.24	N	128.78	87.29	76.58
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	55.17	38.37	44.38	N	92.35	19.30	54.21
	S.E.	N	19.08	25.25	17.59	N	36.99	11.28	18.63
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	1224.24	158.08	539.89	N	726.15	297.40	502.30
	S.E.	N	488.79	104.38	187.43	N	188.43	131.73	113.31
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	129.51	130.93	130.42	N	316.80	641.46	486.30
	S.E.	N	51.90	0.00	18.59	N	181.45	24.95	87.69
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	17.77	15.47	16.30	N	107.11	100.05	103.42
	S.E.	N	10.55	0.02	3.78	N	71.10	58.18	45.58
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	13.51	0.00	4.84	N	1.05	4.90	3.06
	S.E.	N	12.55	0.00	4.50	N	1.05	2.78	1.54
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	0.00	0.00	0.00	N	3.52	8.70	6.22
	S.E.	N	0.00	0.00	0.00	N	3.52	5.39	3.28
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-82 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YOLK-SAC LARVAE			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	16.49	N	16.49	3.77	115.33	46.55	59.20
	S.E.	N	8.35	N	8.35	1.08	18.04	5.05	5.53
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	10.50	N	10.50	7.11	744.02	302.00	381.34
	S.E.	N	5.57	N	5.57	3.99	148.73	47.64	48.03
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	10.66	N	10.66	9.78	469.16	223.91	262.96
	S.E.	N	10.66	N	10.66	3.17	71.30	26.20	24.52
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	458.32	N	458.32	6.32	104.09	19.31	38.81
	S.E.	N	57.15	N	57.15	1.62	10.16	3.37	3.33
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	7.34	N	7.34	14.90	250.34	44.32	91.92
	S.E.	N	7.34	N	7.34	4.10	61.38	11.82	16.93
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	460.83	N	460.83	8.46	119.03	49.89	62.76
	S.E.	N	189.76	N	189.76	3.13	35.40	1.57	8.74
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	435.16	N	435.16	0.38	76.44	9.61	25.08
	S.E.	N	152.11	N	152.11	0.35	21.85	3.32	5.78
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	34.79	N	34.79	1.47	6.38	0.63	2.12
	S.E.	N	18.99	N	18.99	1.08	2.82	0.22	0.71
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	74.22	N	74.22	0.00	10.08	0.50	2.80
	S.E.	N	50.83	N	50.83	0.00	6.52	0.30	1.61
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-83
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE PERCH — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.97	0.67	0.00	0.50	0.00	1.18	0.00	0.26
	S.E.	0.00	N	0.00	0.00	0.97	0.67	0.00	0.39	0.00	1.18	0.00	0.26
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	0.00	0.00	0.91	0.00	0.80	0.69	0.67	0.00	4.19	1.98
	S.E.	0.00	N	0.00	0.00	0.91	0.00	0.80	0.49	0.67	0.00	4.19	1.76
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	0.00	N	0.00	0.00	0.95	1.93	4.98	2.87	33.55	17.97	37.64	31.82
	S.E.	0.00	N	0.00	0.00	0.95	1.12	4.98	2.18	31.30	5.43	31.41	17.37
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	117.79	N	19.31	30.73	75.43	379.68	261.27	213.84	2167.91	1358.98	1787.16	1831.89
	S.E.	21.94	N	11.05	10.10	52.30	102.41	40.13	32.83	661.34	220.69	440.26	306.58
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	19.63	N	7.08	8.53	21.81	519.79	49.90	129.96	2072.43	582.60	1252.66	1404.38
	S.E.	0.00	N	5.07	4.48	14.65	275.76	30.81	55.11	319.09	293.72	325.01	189.55
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	0.00	N	46.24	40.88	70.98	96.94	20.75	54.45	262.95	167.59	181.82	208.29
	S.E.	0.00	N	46.24	40.88	67.56	48.42	14.35	27.89	85.87	29.05	31.41	34.54
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	0.00	N	0.00	0.00	122.72	64.42	108.18	105.24	105.02	64.77	171.55	123.77
	S.E.	0.00	N	0.00	0.00	53.80	35.36	36.98	26.68	31.66	14.62	44.03	21.86
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	1.72	0.45	0.53	17.52	99.71	76.36	60.03
	S.E.	0.00	N	0.00	0.00	0.00	1.14	0.45	0.29	6.65	28.48	14.77	9.10
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-83 (CONTINUED).

WHITE PERCH — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
10MAY82	DENSITY	1.96	0.68	0.87	0.91	N	7.09	3.07	3.62	6.23	8.46	3.42	4.91
	S.E.	1.96	0.68	0.43	0.37	N	7.09	0.58	1.10	4.93	3.79	1.59	1.50
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	3.55	8.85	1.98	3.18	N	66.59	42.55	45.86	144.79	210.97	96.66	129.54
	S.E.	2.47	4.95	0.71	0.98	N	54.97	10.18	11.60	42.97	49.63	28.69	23.58
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	28.31	90.33	74.92	N	929.85	1178.19	1143.94	2553.46	1852.81	6088.06	4768.41
	S.E.	0.00	19.53	41.77	32.70	N	281.75	286.75	250.25	1128.86	294.00	2714.02	1845.14
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	2192.81	680.53	1358.23	1300.05	N	666.29	2830.18	2531.79	3969.65	2825.83	1515.91	2002.90
	S.E.	1277.74	201.58	295.37	244.92	N	169.76	529.29	456.91	1580.97	757.48	761.60	561.63
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	965.70	1340.10	1042.15	1085.30	N	864.95	1793.61	1665.55	1153.24	1290.06	2197.71	1898.27
	S.E.	291.90	301.11	180.55	149.77	N	323.17	348.10	303.39	497.61	887.20	740.06	554.75
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	723.49	671.43	745.89	732.59	N	189.71	375.02	349.46	1861.40	946.96	712.37	840.69
	S.E.	587.57	252.65	221.68	180.94	N	106.47	113.73	99.14	718.27	359.19	77.74	116.00
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	160.51	241.12	283.08	268.93	N	527.45	294.98	327.04	266.47	667.45	888.53	794.30
	S.E.	13.67	60.08	39.30	32.11	N	211.99	32.61	40.56	199.54	284.35	255.53	189.27
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	241.48	256.34	408.77	374.21	N	682.62	495.50	521.31	745.38	987.57	590.27	703.84
	S.E.	87.81	142.13	98.26	80.06	N	237.28	66.05	65.67	325.27	159.46	101.67	82.95
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	21.15	124.75	141.02	131.16	N	417.47	252.26	275.04	346.95	470.21	745.02	649.62
	S.E.	12.55	57.29	38.33	31.25	N	146.36	30.20	32.94	38.43	87.90	197.40	136.00
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-83 (CONTINUED).

WHITE PERCH — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	POUGHKEEPSIE B	POUGHKEEPSIE C	POUGHKEEPSIE R	HYDE PARK S	HYDE PARK B	HYDE PARK C	HYDE PARK R	KINGSTON S	KINGSTON B	KINGSTON C	KINGSTON R
10MAY82	DENSITY	N	21.89	1.67	6.36	N	3.00	0.87	1.31	N	0.00	0.00	0.00
	S.E.	N	14.32	1.41	3.50	N	1.41	0.48	0.48	N	0.00	0.00	0.00
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	233.27	274.18	264.69	N	787.65	339.22	432.16	N	337.70	997.45	774.58
	S.E.	N	53.86	82.31	64.43	N	379.53	90.83	106.64	N	138.91	352.66	238.20
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	3288.70	3055.91	3109.94	N	5036.94	4074.26	4273.78	N	1197.20	736.71	892.27
	S.E.	N	672.59	601.33	487.45	N	1677.39	1416.53	1175.53	N	739.08	500.12	414.74
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	5621.21	2999.46	3607.86	N	2030.03	2282.01	2229.79	N	2097.11	1169.22	1482.67
	S.E.	N	985.86	378.60	369.96	N	611.49	579.75	476.75	N	324.49	416.64	296.87
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	1263.03	1198.37	1213.38	N	35.89	1832.18	1459.90	N	1659.71	1405.13	1491.13
	S.E.	N	266.78	271.81	217.72	N	7.83	489.62	388.15	N	710.45	519.12	419.25
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	3774.79	890.35	1559.71	N	603.96	1106.63	1002.45	N	175.40	502.87	392.25
	S.E.	N	2029.20	203.00	496.03	N	287.48	400.30	322.88	N	93.48	176.79	121.25
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	343.26	412.08	396.11	N	378.62	607.40	559.99	N	889.95	509.85	638.25
	S.E.	N	42.58	110.44	85.39	N	81.53	121.43	97.73	N	196.80	95.96	91.96
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	923.60	759.48	797.56	N	870.43	873.55	872.90	N	717.73	2305.02	1768.82
	S.E.	N	236.88	123.38	109.54	N	168.96	126.96	106.56	N	421.23	435.39	321.51
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	998.32	509.95	623.28	N	772.01	642.49	669.34	N	868.87	2115.12	1694.12
	S.E.	N	346.39	118.09	121.18	N	341.01	139.05	130.94	N	211.27	541.09	365.34
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-83 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				POST YOLK-SAC LARVAE			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	229.10	132.85	167.32	N	19.17	20.46	19.84
	S.E.	N	89.42	14.71	33.38	N	16.30	11.28	9.77
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	1473.37	1203.80	1300.34	N	224.72	405.07	318.88
	S.E.	N	452.83	371.88	288.58	N	175.24	59.27	89.28
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	1317.36	645.90	886.36	N	629.06	485.00	553.85
	S.E.	N	374.72	338.39	255.32	N	532.06	112.30	260.95
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	1532.62	776.98	1047.58	N	3.81	7.14	5.55
	S.E.	N	386.91	253.93	213.93	N	2.54	3.39	2.15
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	197.74	545.08	420.69	N	193.82	32.27	109.47
	S.E.	N	79.12	0.00	28.33	N	53.93	15.84	27.07
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	1139.43	1290.94	1236.68	N	644.73	785.90	718.44
	S.E.	N	392.87	756.20	505.38	N	295.36	366.60	237.82
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	1921.18	770.41	1182.52	N	2779.03	1467.77	2094.44
	S.E.	N	744.23	115.95	276.72	N	1289.33	558.72	681.74
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	1356.13	205.00	617.24	N	76.33	201.14	141.49
	S.E.	N	595.65	36.20	214.58	N	16.43	128.41	67.50
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-83 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				POST YOLK-SAC LARVAE			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	N	0.00	0.87	4.02	1.02	1.74
	S.E.	N	0.00	N	0.00	0.57	1.84	0.26	0.49
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	3.26	N	3.26	5.46	153.72	157.57	141.67
	S.E.	N	3.26	N	3.26	1.57	29.39	26.90	19.07
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	0.00	N	0.00	93.45	1194.03	1529.29	1305.98
	S.E.	N	0.00	N	0.00	41.03	159.99	238.88	161.73
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	59.29	N	59.29	276.84	1513.39	1398.96	1316.70
	S.E.	N	49.86	N	49.86	92.60	165.15	121.75	90.07
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	1.10	N	1.10	675.96	809.36	1063.11	962.87
	S.E.	N	1.10	N	1.10	164.30	105.46	98.76	71.65
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	1.00	N	1.00	623.93	776.79	538.24	605.12
	S.E.	N	1.00	N	1.00	88.33	257.76	57.67	74.16
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	0.95	N	0.95	121.10	467.75	429.95	408.86
	S.E.	N	0.95	N	0.95	42.96	67.20	67.14	47.25
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	145.27	N	145.27	133.14	978.21	638.86	672.31
	S.E.	N	73.23	N	73.23	32.95	204.02	50.39	60.04
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	47.24	N	47.24	18.04	483.44	391.40	377.25
	S.E.	N	24.74	N	24.74	2.24	85.61	43.46	35.42
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-84
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE PERCH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.14
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.14
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	0.00	N	0.00	0.00	1.04	0.00	0.00	0.39	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	1.04	0.00	0.00	0.39	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-84 (CONTINUED).

WHITE PERCH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
10MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	0.00	0.00	0.00	0.00	N	1.34	0.10	0.27	0.00	1.33	0.57	0.74
	S.E.	0.00	0.00	0.00	0.00	N	0.99	0.10	0.16	0.00	1.06	0.57	0.48
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	2.08	1.84	1.35	1.48	N	0.93	1.45	1.38	5.56	6.15	1.48	2.94
	S.E.	0.86	1.84	0.63	0.57	N	0.47	0.51	0.44	3.18	1.45	0.81	0.69
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-84 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	1.21	0.71	0.82	N	9.86	0.00	2.04	N	0.00	0.00	0.00
	S.E.	N	1.21	0.55	0.50	N	8.52	0.00	1.77	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	17.72	8.41	10.57	N	9.31	9.80	9.70	N	6.90	1.29	3.18
	S.E.	N	9.01	3.72	3.54	N	6.08	9.17	7.38	N	5.81	1.29	2.14
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-84 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	0.00	1.35	0.86	N	0.00	0.00	0.00
	S.E.	N	0.00	1.35	0.86	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-84 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	0.00	N	0.00	0.00	0.95	0.26	0.40
	S.E.	N	0.00	N	0.00	0.00	0.55	0.14	0.16
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	0.00	N	0.00	0.89	3.94	2.65	2.80
	S.E.	N	0.00	N	0.00	0.58	1.29	1.00	0.73
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-85
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		WHITE PERCH							YOUNG-OF-THE-YEAR				
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	0.00	N	0.00	0.00	1.81	0.00	0.00	0.69	0.86	0.00	0.00	0.31
	S.E.	0.00	N	0.00	0.00	0.81	0.00	0.00	0.31	0.55	0.00	0.00	0.20
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.06
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.06
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.11	0.36	0.00	0.11	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.11	0.36	0.00	0.08	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-85 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
09AUG82	DENSITY	3.64	0.91	0.00	0.37	N	0.49	2.79	2.47	8.64	11.62	0.00	3.56
	S.E.	1.04	0.56	0.00	0.11	N	0.49	1.43	1.24	4.51	1.98	0.00	0.58
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.40	0.00	0.06	N	2.35	0.00	0.32	0.00	4.08	0.00	1.07
	S.E.	0.00	0.40	0.00	0.06	N	1.49	0.00	0.21	0.00	1.23	0.00	0.32
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.58	0.00	0.09	N	0.00	0.00	0.00	4.38	0.00	0.00	0.25
	S.E.	0.00	0.58	0.00	0.09	N	0.00	0.00	0.00	1.79	0.00	0.00	0.10
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	2.81	0.42	0.00	0.27
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	2.30	0.42	0.00	0.17
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.47	3.70	0.00	1.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.47	1.63	0.00	0.43
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-85 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	5.40	0.00	1.25	N	2.70	0.00	0.56	N	3.25	1.67	2.20
	S.E.	N	3.59	0.00	0.83	N	1.22	0.00	0.25	N	1.03	0.75	0.61
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	1.83	0.00	0.43	N	2.74	0.00	0.57	N	2.15	0.45	1.02
	S.E.	N	1.39	0.00	0.32	N	1.48	0.00	0.31	N	0.60	0.45	0.36
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	3.33	0.00	0.77	N	12.42	5.35	6.82	N	23.28	0.37	8.11
	S.E.	N	1.20	0.00	0.28	N	5.08	3.64	3.07	N	9.91	0.37	3.36
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	7.69	0.00	1.78	N	6.83	0.00	1.41	N	4.97	0.00	1.68
	S.E.	N	2.75	0.00	0.64	N	1.10	0.00	0.23	N	2.46	0.00	0.83
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	1.09	0.00	0.25	N	9.04	2.28	3.68	N	1.22	0.00	0.41
	S.E.	N	0.67	0.00	0.16	N	2.52	1.32	1.17	N	1.01	0.00	0.34
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-85 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	3.54	0.75	1.75	N	1.87	0.00	0.90
	S.E.	N	1.21	0.48	0.53	N	0.81	0.00	0.39
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	4.18	0.00	1.50	N	0.66	0.00	0.32
	S.E.	N	2.66	0.00	0.95	N	0.29	0.00	0.14
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	12.28	0.00	4.40	N	4.53	0.00	2.16
	S.E.	N	5.85	0.00	2.09	N	3.23	0.00	1.54
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	6.99	0.00	2.50	N	1.21	0.37	0.77
	S.E.	N	2.87	0.00	1.03	N	0.51	0.37	0.31
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	3.54	0.00	1.27	N	0.67	0.00	0.32
	S.E.	N	1.21	0.00	0.43	N	0.30	0.00	0.14
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-85 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	2.24	N	2.24	1.72	2.92	0.50	1.21
	S.E.	N	1.39	N	1.39	0.49	0.54	0.18	0.19
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.94	N	0.94	0.04	1.68	0.03	0.44
	S.E.	N	0.46	N	0.46	0.04	0.39	0.03	0.10
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	2.20	N	2.20	0.16	5.52	0.49	1.69
	S.E.	N	1.87	N	1.87	0.06	1.24	0.32	0.37
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.29	N	0.29	0.10	2.83	0.02	0.72
	S.E.	N	0.29	N	0.29	0.08	0.53	0.02	0.13
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	7.67	N	7.67	0.07	2.56	0.20	0.77
	S.E.	N	2.19	N	2.19	0.06	0.39	0.12	0.12
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-86
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE PERCH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.80	41.25	3.79	12.40	10.60	0.67	4.40	33.40	4.40	7.89	17.30	6.43	16.51
	S.E.	0.37	23.89	1.75	5.64	6.54	0.33	3.44	19.02	3.91	3.53	16.86	4.76	6.71
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	24.25	14.86	15.60	22.40	2.50	9.80	25.40	16.20	10.67	4.70	6.14	13.72
	S.E.	0.00	12.61	5.14	10.18	12.57	2.13	6.08	10.54	9.95	4.45	2.75	5.98	3.64
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.20	15.04	19.79	8.80	66.00	2.67	3.40	19.60	1.20	3.78	3.20	0.00	9.93
	S.E.	0.20	7.19	6.86	6.41	47.45	2.47	2.04	14.36	0.58	1.52	1.82	0.00	2.37
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.40	12.21	15.43	29.80	22.60	0.67	5.40	12.60	3.60	2.22	7.10	0.00	9.27
	S.E.	0.40	2.93	5.87	15.33	8.74	0.67	2.64	7.92	2.29	1.34	3.47	0.00	1.55
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	1.40	10.29	21.21	7.80	12.20	1.67	6.60	5.60	3.60	0.00	8.60	0.43	8.41
	S.E.	1.17	4.29	10.75	4.64	10.51	0.80	1.96	2.98	2.91	0.00	7.51	0.43	2.25
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-87
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		WHITE PERCH				YEARLING							
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	0.00	N	0.00	0.00	1.66	0.00	0.00	0.63	0.75	0.00	0.00	0.27
	S.E.	0.00	N	0.00	0.00	0.63	0.00	0.00	0.24	0.29	0.00	0.00	0.11
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.09	0.00	0.00	0.03	0.17	1.59	0.00	0.41
	S.E.	0.00	N	0.00	0.00	0.09	0.00	0.00	0.03	0.17	1.06	0.00	0.24
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.29	0.00	0.00	0.11	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.16	0.00	0.00	0.06	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-87 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YEARLING							
		INDIAN POINT				WEST POINT				CORNWALL			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	1.22	0.00	0.00	0.07	N	0.00	0.00	0.00	0.51	2.01	0.00	0.56
	S.E.	1.22	0.00	0.00	0.07	N	0.00	0.00	0.00	0.51	0.98	0.00	0.26
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.40	0.00	0.06	N	0.00	0.00	0.00	0.48	5.80	0.00	1.55
	S.E.	0.00	0.40	0.00	0.06	N	0.00	0.00	0.00	0.48	3.32	0.00	0.87
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	1.59	0.00	0.00	0.10	N	0.00	0.00	0.00	9.83	0.82	0.00	0.79
	S.E.	1.03	0.00	0.00	0.06	N	0.00	0.00	0.00	6.45	0.82	0.00	0.43
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	4.16	0.45	0.00	0.36
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	2.55	0.45	0.00	0.19
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	1.47	0.98	0.00	0.34
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.95	0.98	0.00	0.26
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-87 (CONTINUED).

WHITE PERCH YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	POUGHKEEPSIE B	POUGHKEEPSIE C	POUGHKEEPSIE R	HYDE PARK S	HYDE PARK B	HYDE PARK C	HYDE PARK R	KINGSTON S	KINGSTON B	KINGSTON C	KINGSTON R
09AUG82	DENSITY	N	4.73	0.00	1.10	N	11.44	1.05	3.21	N	3.08	0.00	1.04
	S.E.	N	3.25	0.00	0.75	N	4.05	1.05	1.18	N	0.79	0.00	0.27
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	2.99	0.00	0.69	N	1.03	0.00	0.21	N	1.66	0.90	1.16
	S.E.	N	1.43	0.00	0.33	N	0.68	0.00	0.14	N	0.60	0.90	0.63
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	4.32	0.00	1.00	N	7.21	5.35	5.74	N	13.26	0.37	4.72
	S.E.	N	1.41	0.00	0.33	N	2.01	3.64	2.92	N	4.71	0.37	1.61
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	8.07	0.00	1.87	N	3.93	0.00	0.82	N	5.99	0.00	2.02
	S.E.	N	4.85	0.00	1.13	N	1.56	0.00	0.32	N	1.27	0.00	0.43
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	3.89	0.00	0.90	N	7.83	0.54	2.05	N	5.72	0.00	1.93
	S.E.	N	2.03	0.00	0.47	N	3.32	0.54	0.81	N	1.65	0.00	0.56
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-87 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YEARLING			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	4.51	0.00	1.61	N	0.19	0.00	0.09
	S.E.	N	1.10	0.00	0.40	N	0.19	0.00	0.09
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.78	0.00	0.28	N	0.55	0.00	0.26
	S.E.	N	0.44	0.00	0.16	N	0.38	0.00	0.18
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	3.22	0.00	1.15	N	2.74	0.00	1.31
	S.E.	N	1.62	0.00	0.58	N	1.79	0.00	0.85
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	7.24	0.00	2.59	N	2.52	0.00	1.20
	S.E.	N	4.07	0.00	1.46	N	1.24	0.00	0.59
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	5.81	0.00	2.08	N	1.99	0.00	0.95
	S.E.	N	3.13	0.00	1.12	N	0.76	0.00	0.36
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-87 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YEARLING			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	1.44	N	1.44	1.17	2.41	0.09	0.77
	S.E.	N	1.15	N	1.15	0.36	0.52	0.09	0.15
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.60	N	0.60	0.11	1.32	0.06	0.37
	S.E.	N	0.39	N	0.39	0.07	0.31	0.06	0.08
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	4.53	N	4.53	0.61	3.50	0.49	1.24
	S.E.	N	1.18	N	1.18	0.26	0.58	0.32	0.26
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	6.87	N	6.87	0.15	3.84	0.00	0.96
	S.E.	N	3.38	N	3.38	0.09	0.90	0.00	0.22
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	7.65	N	7.65	0.05	3.44	0.05	0.88
	S.E.	N	2.58	N	2.58	0.03	0.61	0.05	0.15
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-88
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE PERCH YEARLING

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.00	6.67	4.57	12.40	3.20	1.33	0.00	0.80	0.00	5.56	0.60	11.86	4.90
	S.E.	0.00	1.96	2.71	5.16	2.03	0.80	0.00	0.58	0.00	1.89	0.60	10.57	6.85
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	5.79	20.21	21.40	6.00	1.67	2.20	0.20	4.40	2.33	3.90	1.29	7.21
	S.E.	0.00	1.99	12.01	10.61	1.58	0.92	2.20	0.20	2.40	0.97	2.39	0.99	8.33
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.00	4.50	2.00	6.80	7.40	0.33	1.20	3.40	0.60	3.11	1.30	0.86	2.67
	S.E.	0.00	1.59	1.28	5.43	3.89	0.33	0.73	1.57	0.60	1.11	1.30	0.86	5.61
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.40	4.04	34.43	5.60	6.80	0.67	1.60	0.80	1.20	1.22	0.00	0.00	7.25
	S.E.	0.40	1.27	26.54	3.43	5.85	0.67	0.51	0.37	0.73	0.91	0.00	0.00	7.53
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.00	1.96	17.71	7.80	0.40	0.67	6.80	2.60	0.40	0.44	2.00	0.00	4.39
	S.E.	0.00	0.90	11.12	5.42	0.24	0.33	4.20	2.60	0.24	0.24	1.42	0.00	6.39
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-89
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE PERCH — OLDER

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
09AUG82	DENSITY	0.63	N	0.00	0.07	19.26	1.19	0.00	7.51	0.85	7.57	0.00	1.97
	S.E.	0.41	N	0.00	0.05	4.75	0.81	0.00	1.80	0.55	4.07	0.00	0.92
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	1.07	0.68	0.00	0.53	0.18	8.25	0.00	1.88
	S.E.	0.00	N	0.00	0.00	0.38	0.44	0.00	0.17	0.18	3.07	0.00	0.68
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.92	N	0.00	0.11	2.18	4.73	0.00	1.74	0.36	4.64	0.00	1.15
	S.E.	0.59	N	0.00	0.07	0.63	2.22	0.00	0.49	0.24	2.30	0.00	0.51
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	1.98	N	0.00	0.23	1.68	1.99	0.00	1.02	0.00	2.22	0.00	0.49
	S.E.	1.54	N	0.00	0.18	0.65	1.11	0.00	0.33	0.00	1.15	0.00	0.25
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	3.60	N	0.00	0.42	3.64	4.03	0.00	2.15	0.00	1.97	0.00	0.43
	S.E.	2.75	N	0.00	0.32	1.17	1.43	0.00	0.52	0.00	1.97	0.00	0.43
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-89 (CONTINUED).

WHITE PERCH OLDER

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
09AUG82	DENSITY	1.21	0.79	0.00	0.20	N	0.54	0.00	0.07	6.69	4.09	0.00	1.47
	S.E.	0.83	0.79	0.00	0.14	N	0.54	0.00	0.07	2.73	2.33	0.00	0.63
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	4.05	0.00	0.65	N	0.00	0.00	0.00	0.00	5.31	0.00	1.40
	S.E.	0.00	1.75	0.00	0.28	N	0.00	0.00	0.00	0.00	2.24	0.00	0.59
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.92	3.46	0.00	0.61	N	0.00	0.00	0.00	5.41	0.99	0.00	0.57
	S.E.	0.92	3.46	0.00	0.56	N	0.00	0.00	0.00	3.07	0.99	0.00	0.32
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	2.05	0.88	0.00	0.26	N	0.00	0.00	0.00	14.29	0.86	0.00	1.06
	S.E.	1.22	0.54	0.00	0.11	N	0.00	0.00	0.00	5.63	0.53	0.00	0.35
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.36	2.92	0.00	0.49	N	0.00	0.00	0.00	7.58	1.09	0.00	0.72
	S.E.	0.36	1.92	0.00	0.31	N	0.00	0.00	0.00	4.84	0.67	0.00	0.33
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-89 (CONTINUED).

WHITE PERCH OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	1.45	0.00	0.34	N	5.08	1.05	1.89	N	14.38	2.15	6.28
	S.E.	N	0.97	0.00	0.22	N	3.05	1.05	1.05	N	6.72	1.02	2.37
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	8.73	0.00	2.03	N	11.61	0.00	2.41	N	12.19	4.38	7.02
	S.E.	N	3.67	0.00	0.85	N	6.92	0.00	1.43	N	3.41	3.98	2.88
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	4.21	0.00	0.98	N	4.37	5.77	5.48	N	19.27	1.37	7.42
	S.E.	N	1.41	0.00	0.33	N	1.36	2.85	2.28	N	4.05	1.00	1.52
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	16.71	0.00	3.88	N	10.91	1.04	3.08	N	15.05	0.72	5.56
	S.E.	N	5.34	0.00	1.24	N	1.45	1.04	0.87	N	4.61	0.45	1.59
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	4.42	0.00	1.03	N	10.02	2.28	3.88	N	9.01	0.00	3.04
	S.E.	N	2.71	0.00	0.63	N	4.08	1.32	1.35	N	1.78	0.00	0.60
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-89 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				OLDER			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	10.40	0.78	4.22	N	10.27	0.38	5.11
	S.E.	N	2.47	0.78	1.02	N	2.63	0.38	1.27
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	16.59	0.75	6.42	N	11.24	0.40	5.58
	S.E.	N	4.21	0.75	1.58	N	2.61	0.40	1.26
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	11.66	0.73	4.65	N	10.73	0.43	5.35
	S.E.	N	3.74	0.47	1.37	N	1.44	0.43	0.73
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	17.52	0.96	6.89	N	10.00	2.27	5.96
	S.E.	N	7.89	0.63	2.85	N	1.57	1.17	0.97
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	16.56	0.00	5.93	N	8.96	0.36	4.47
	S.E.	N	5.27	0.00	1.89	N	1.76	0.36	0.86
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-89 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				OLDER			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	10.16	N	10.16	11.11	6.55	0.31	2.90
	S.E.	N	3.03	N	3.03	2.60	0.92	0.13	0.35
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	12.49	N	12.49	0.62	9.04	0.35	2.51
	S.E.	N	3.93	N	3.93	0.21	1.08	0.26	0.31
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	18.15	N	18.15	1.63	8.65	0.68	2.72
	S.E.	N	4.53	N	4.53	0.38	0.92	0.26	0.29
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	15.92	N	15.92	1.79	9.92	0.34	2.83
	S.E.	N	4.85	N	4.85	0.45	1.37	0.13	0.35
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	15.06	N	15.06	2.71	7.80	0.22	2.32
	S.E.	N	3.56	N	3.56	0.74	0.94	0.12	0.25
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-90
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE PERCH OLDER

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.00	4.54	12.93	5.60	4.60	3.00	1.60	3.00	1.40	5.78	0.50	11.43	5.55
	S.E.	0.00	1.51	11.21	3.89	1.36	1.59	1.36	1.90	0.68	2.04	0.27	10.93	7.37
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	1.54	1.36	0.60	2.20	3.00	4.20	6.60	2.80	5.44	7.30	5.14	3.06
	S.E.	0.00	0.73	0.54	0.60	1.07	1.13	1.98	1.96	0.97	1.95	3.86	2.76	6.34
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.00	5.88	1.14	1.00	1.00	1.00	4.00	1.60	2.00	1.11	0.80	1.00	2.45
	S.E.	0.00	2.22	0.99	0.77	0.63	0.63	2.43	0.75	1.05	0.54	0.70	0.72	4.53
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	3.80	41.08	3.43	1.60	4.80	0.67	6.80	3.60	1.40	0.56	0.00	0.00	12.32
	S.E.	1.50	29.24	1.53	0.93	4.80	0.42	3.43	1.44	0.51	0.34	0.00	0.00	8.23
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	5.40	2.88	11.43	4.60	0.20	2.33	6.80	7.40	3.20	0.78	1.80	0.00	4.00
	S.E.	3.74	1.03	8.86	3.61	0.20	0.71	2.80	7.15	2.48	0.43	0.61	0.00	6.84
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-91
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

AMERICAN SHAD EGGS

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-91 (CONTINUED).

AMERICAN SHAD EGGS

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
10MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-91 (CONTINUED).

AMERICAN SHAD EGGS

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	POUGHKEEPSIE B	POUGHKEEPSIE C	POUGHKEEPSIE R	HYDE PARK S	HYDE PARK B	HYDE PARK C	HYDE PARK R	KINGSTON S	KINGSTON B	KINGSTON C	KINGSTON R
10MAY82	DENSITY	N	0.64	0.00	0.15	N	16.67	1.55	4.68	N	5.69	15.08	11.90
	S.E.	N	0.64	0.00	0.15	N	11.41	1.13	2.53	N	1.49	9.47	6.29
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	0.00	0.00	0.00	N	6.16	0.00	1.28	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	4.24	0.00	0.88	N	0.00	0.00	0.00
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	2.16	0.00	0.50	N	51.35	1.30	11.67	N	0.00	3.29	2.18
	S.E.	N	2.16	0.00	0.50	N	36.12	1.30	7.56	N	0.00	3.29	2.18
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	2.48	0.13	0.68	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	1.91	0.13	0.45	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	0.17	0.00	0.04	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.17	0.00	0.04	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-91 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				EGGS			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	2813.74	24.50	1023.37	N	727.75	75.22	387.07
	S.E.	N	1895.40	13.83	678.83	N	668.97	43.92	320.53
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	1124.11	0.00	402.56	N	40.44	7.58	23.29
	S.E.	N	1116.91	0.00	399.98	N	38.89	6.28	18.87
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	144.31	135.73	138.80	N	90.94	71.31	80.69
	S.E.	N	63.79	135.73	90.07	N	62.82	32.11	34.39
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	7.50	0.00	2.69	N	0.00	0.00	0.00
	S.E.	N	3.36	0.00	1.20	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	1.48	0.00	0.53	N	0.00	0.00	0.00
	S.E.	N	1.48	0.00	0.53	N	0.00	0.00	0.00
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-91 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				EGGS			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	1466.09	N	1466.09	0.00	609.26	7.19	154.03
	S.E.	N	1341.63	N	1341.63	0.00	290.41	2.76	71.19
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	56.79	N	56.79	0.00	140.88	0.43	34.81
	S.E.	N	35.95	N	35.95	0.00	127.02	0.35	31.13
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	0.97	N	0.97	0.00	32.52	14.65	17.59
	S.E.	N	0.97	N	0.97	0.00	11.53	10.47	7.43
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	14.66	N	14.66	0.00	3.04	0.02	0.76
	S.E.	N	5.17	N	5.17	0.00	0.80	0.02	0.20
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	32.50	N	32.50	0.00	4.18	0.00	1.02
	S.E.	N	32.50	N	32.50	0.00	4.16	0.00	1.02
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	4.98	N	4.98	0.00	0.81	0.00	0.20
	S.E.	N	4.98	N	4.98	0.00	0.66	0.00	0.16
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	1.85	N	1.85	0.00	0.24	0.00	0.06
	S.E.	N	0.93	N	0.93	0.00	0.12	0.00	0.03
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-92
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

AMERICAN SHAD

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

YOLK-SAC LARVAE

N -- STRATUM NOT SAMPLED

TABLE B-92 (CONTINUED).

AMERICAN SHAD — YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
10MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-92 (CONTINUED).

AMERICAN SHAD YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	1.67	0.45	0.70	N	82.77	19.04	40.57
	S.E.	N	0.00	0.00	0.00	N	0.73	0.30	0.28	N	48.22	10.04	17.59
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	0.27	0.24	0.25	N	3.99	7.83	7.03	N	75.49	81.76	79.64
	S.E.	N	0.27	0.24	0.20	N	0.79	2.83	2.25	N	32.67	49.40	34.52
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	5.15	0.22	1.37	N	3.57	0.39	1.05	N	221.59	23.36	90.33
	S.E.	N	3.12	0.16	0.73	N	0.75	0.27	0.26	N	106.70	21.43	38.74
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	0.98	0.23	0.41	N	0.36	0.42	0.41	N	8.06	2.85	4.61
	S.E.	N	0.46	0.23	0.21	N	0.36	0.42	0.34	N	5.31	1.37	2.01
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	0.18	0.00	0.04	N	0.00	0.85	0.67	N	2.92	3.53	3.33
	S.E.	N	0.18	0.00	0.04	N	0.00	0.36	0.29	N	2.92	2.62	2.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	1.09	0.72
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	1.09	0.72
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-92 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YOLK-SAC LARVAE			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	59.55	21.82	35.34	N	23.01	4.85	13.53
	S.E.	N	29.58	11.57	12.94	N	14.40	2.83	7.04
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	162.73	142.68	149.86	N	28.45	110.35	71.21
	S.E.	N	77.45	82.94	60.03	N	11.94	29.18	16.27
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	171.02	102.41	126.98	N	122.81	149.03	136.50
	S.E.	N	58.03	30.32	28.47	N	72.01	50.67	43.41
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	13.45	11.02	11.89	N	50.89	0.96	24.82
	S.E.	N	4.76	6.38	4.43	N	12.22	0.96	5.86
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	37.33	0.86	13.92	N	19.64	14.87	17.15
	S.E.	N	13.80	0.86	4.97	N	4.16	8.15	4.70
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	0.74	0.00	0.27	N	6.25	0.90	3.46
	S.E.	N	0.74	0.00	0.27	N	1.83	0.90	0.99
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	0.72	1.29	1.08	N	0.91	8.48	4.86
	S.E.	N	0.72	1.29	0.87	N	0.91	2.96	1.61
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-92 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YOLK-SAC LARVAE			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	3.65	N	3.65	0.00	17.63	3.17	6.40
	S.E.	N	2.23	N	2.23	0.00	5.70	1.09	1.57
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	2905.76	N	2905.76	0.00	400.97	22.93	113.32
	S.E.	N	1089.08	N	1089.08	0.00	139.66	7.22	34.55
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	167.66	N	167.66	0.00	77.77	17.72	30.69
	S.E.	N	167.66	N	167.66	0.00	26.21	3.91	6.92
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	1070.56	N	1070.56	0.00	146.37	1.14	36.62
	S.E.	N	510.17	N	510.17	0.00	65.30	0.50	16.01
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	0.98	N	0.98	0.00	7.35	1.20	2.59
	S.E.	N	0.98	N	0.98	0.00	1.69	0.49	0.53
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	18.63	N	18.63	0.00	3.33	0.12	0.89
	S.E.	N	11.30	N	11.30	0.00	1.47	0.09	0.36
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	8.14	N	8.14	0.00	1.25	0.58	0.68
	S.E.	N	5.35	N	5.35	0.00	0.70	0.19	0.21
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	0.95	N	0.95	0.00	0.12	0.00	0.03
	S.E.	N	0.95	N	0.95	0.00	0.12	0.00	0.03
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	4.15	N	4.15	0.00	0.53	0.00	0.13
	S.E.	N	2.84	N	2.84	0.00	0.36	0.00	0.09
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-93
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

AMERICAN SHAD

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10
24MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11
31MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11
07JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.70	0.00	0.14
	S.E.	0.00	N	0.00	0.00	0.00	0.70	0.00	0.14
	NO. TOWS	1	N	8	9	3	5	6	14
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.44	0.19
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.44	0.19
	NO. TOWS	1	N	9	10	3	5	6	14
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14

POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	6	3	5	14
17MAY82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	6	3	4	13
24MAY82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	5	4	3	12
31MAY82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	5	4	3	12
07JUN82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	5	4	4	13
14JUN82	DENSITY	8.87	2.55	8.55	7.35
	S.E.	8.87	1.97	2.98	3.49
	NO. TOWS	4	6	6	16
21JUN82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	6	16
28JUN82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	6	16
05JUL82	DENSITY	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-93 (CONTINUED).

AMERICAN SHAD POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
10MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	0.00	0.19	0.15	N	0.00	1.14	0.98	2.34	0.00	22.74	15.57
	S.E.	0.00	0.00	0.19	0.15	N	0.00	0.71	0.62	1.11	0.00	15.16	10.29
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	0.00	0.00	0.83	0.65	N	0.00	1.88	1.62	3.56	0.00	20.90	14.39
	S.E.	0.00	0.00	0.50	0.39	N	0.00	0.84	0.72	1.50	0.00	15.41	10.46
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	2.84	0.42	4.35	3.63	N	0.41	15.85	13.72	337.52	1.42	23.03	35.56
	S.E.	2.84	0.42	3.03	2.37	N	0.41	11.28	9.72	211.35	0.76	21.94	19.28
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	49.49	3.60	12.17	13.05	N	1.73	11.43	10.09	137.62	0.59	32.66	30.30
	S.E.	43.03	1.71	2.66	3.34	N	0.78	2.98	2.57	106.44	0.39	11.68	10.04
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	118.22	5.57	12.89	18.09	N	12.31	14.75	14.41	276.12	20.91	39.80	48.52
	S.E.	58.79	5.57	7.49	6.90	N	5.15	4.98	4.36	154.55	6.19	16.17	14.26
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	1.22	0.00	1.11	0.94	N	2.97	4.88	4.62	13.76	5.26	2.27	3.73
	S.E.	0.75	0.00	0.78	0.61	N	1.03	2.70	2.33	9.59	1.13	0.96	0.91
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.12	0.10	3.67	0.00	0.95	0.86
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.12	0.10	3.67	0.00	0.76	0.56
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-93 (CONTINUED).

AMERICAN SHAD — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	POUGHKEEPSIE B	POUGHKEEPSIE C	POUGHKEEPSIE R	HYDE PARK S	HYDE PARK B	HYDE PARK C	HYDE PARK R	KINGSTON S	KINGSTON B	KINGSTON C	KINGSTON R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	0.91	0.48	0.58	N	13.11	16.38	15.70	N	31.28	163.87	119.08
	S.E.	N	0.91	0.48	0.42	N	2.28	5.89	4.69	N	11.84	60.89	40.52
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	3.51	10.10	8.57	N	10.58	114.21	92.73	N	204.96	226.59	219.28
	S.E.	N	0.93	3.26	2.51	N	1.60	37.01	29.34	N	59.94	96.05	66.75
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	1.75	26.04	20.40	N	1.14	62.37	49.68	N	5.76	1363.25	904.68
	S.E.	N	0.75	10.23	7.86	N	0.54	32.10	25.45	N	2.37	433.99	287.39
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	3.86	53.44	41.93	N	1.96	84.03	67.02	N	11.39	107.29	74.89
	S.E.	N	0.93	24.02	18.45	N	0.99	32.74	25.96	N	3.14	49.26	32.64
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	1.86	23.33	18.35	N	0.58	32.80	26.12	N	0.00	82.20	54.43
	S.E.	N	1.07	15.05	11.56	N	0.58	14.04	11.13	N	0.00	32.83	21.74
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	12.58	13.11	12.99	N	4.08	16.64	14.03	N	24.46	46.47	39.03
	S.E.	N	5.04	4.28	3.49	N	1.96	4.68	3.73	N	0.95	14.13	9.36
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	3.27	3.84	3.71	N	2.25	4.49	4.03	N	15.84	18.41	17.54
	S.E.	N	0.99	1.84	1.43	N	1.06	3.04	2.42	N	7.78	11.11	7.81
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	0.41	2.18	1.77	N	15.77	1.43	4.40	N	4.53	9.37	7.74
	S.E.	N	0.41	0.92	0.71	N	8.63	0.62	1.85	N	4.53	4.45	3.32
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-93 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				POST YOLK-SAC LARVAE			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	23.42	339.82	226.52	N	15.94	38.35	27.64
	S.E.	N	12.86	109.14	70.20	N	12.85	8.97	7.72
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	342.91	605.52	511.48	N	409.61	1287.27	867.82
	S.E.	N	158.22	285.03	191.53	N	222.96	484.28	274.37
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	52.05	636.48	427.18	N	57.51	390.76	231.50
	S.E.	N	20.51	304.71	195.73	N	38.66	250.44	132.05
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	89.14	411.89	296.31	N	22.88	10.61	16.48
	S.E.	N	35.35	372.95	239.72	N	15.26	4.17	7.61
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	25.92	8.02	14.43	N	13.50	20.30	17.05
	S.E.	N	16.53	0.00	5.92	N	6.28	12.02	6.96
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	81.24	197.38	155.79	N	29.84	161.31	98.48
	S.E.	N	11.94	48.03	31.12	N	20.50	52.82	29.27
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	27.68	144.25	102.51	N	39.03	9.91	23.82
	S.E.	N	23.03	1.47	8.30	N	13.45	3.73	6.72
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	15.75	18.72	17.66	N	56.60	21.20	38.12
	S.E.	N	6.17	14.03	9.27	N	35.50	8.25	17.50
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-93 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				POST YOLK-SAC LARVAE			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	66.09	N	66.09	0.00	16.93	39.80	30.29
	S.E.	N	21.96	N	21.96	0.00	3.77	9.16	6.09
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	181.23	N	181.23	0.08	137.45	146.02	129.57
	S.E.	N	181.23	N	181.23	0.04	42.85	35.52	25.58
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	75.43	N	75.43	0.13	24.29	167.31	115.83
	S.E.	N	19.59	N	19.59	0.05	6.35	38.63	25.41
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	0.00	N	0.00	12.43	15.01	58.11	43.05
	S.E.	N	0.00	N	0.00	7.68	4.55	28.95	19.06
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	3.96	N	3.96	9.94	6.16	18.54	14.66
	S.E.	N	2.64	N	2.64	5.05	2.11	3.52	2.42
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	9.14	N	9.14	16.72	20.79	36.24	30.54
	S.E.	N	5.45	N	5.45	6.53	3.33	5.07	3.48
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	55.88	N	55.88	0.57	18.10	14.51	14.02
	S.E.	N	48.94	N	48.94	0.35	7.07	0.90	1.83
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	59.42	N	59.42	0.13	18.63	3.74	7.04
	S.E.	N	40.32	N	40.32	0.13	7.18	1.21	1.93
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-94
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

AMERICAN SHAD

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.83	1.64	0.00	0.67
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.83	1.64	0.00	0.47
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.20
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.20
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

YOUNG-OF-THE-YEAR

N -- STRATUM NOT SAMPLED

TABLE B-94 (CONTINUED).

AMERICAN SHAD — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
10MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	14.18	0.62	1.92	2.45	N	1.61	1.91	1.87	7.70	1.35	3.61	3.25
	S.E.	7.77	0.62	0.93	0.87	N	1.26	0.71	0.63	5.19	0.92	1.31	0.97
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	13.43	0.00	1.25	1.78	N	6.12	8.13	7.85	4.83	74.22	8.31	25.46
	S.E.	9.41	0.00	0.45	0.67	N	1.83	2.85	2.47	3.63	23.95	3.59	6.76
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	3.22	3.68	1.56	2.00	N	0.00	1.45	1.25	36.71	46.67	10.56	21.58
	S.E.	1.86	3.68	0.74	0.83	N	0.00	0.55	0.48	35.31	27.79	4.91	8.30
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-94 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	0.37	0.68	0.60	N	0.00	0.00	0.00	N	0.71	3.53	2.58
	S.E.	N	0.37	0.39	0.31	N	0.00	0.00	0.00	N	0.71	3.13	2.09
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	0.80	2.31	1.96	N	1.12	1.10	1.11	N	50.29	16.38	27.83
	S.E.	N	0.52	1.30	1.00	N	0.68	0.44	0.37	N	20.63	10.67	9.92
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	5.55	18.90	15.81	N	99.34	13.90	31.60	N	10.65	9.50	9.89
	S.E.	N	3.19	6.66	5.17	N	74.86	8.74	16.99	N	2.93	5.24	3.61
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-94 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YOUNG-OF-THE-YEAR			
			SAUGERTIES				CATSKILL		
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	0.00	0.00	0.00	N	1.81	0.00	0.87
	S.E.	N	0.00	0.00	0.00	N	1.81	0.00	0.87
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	12.98	6.39	8.75	N	26.05	0.00	12.45
	S.E.	N	5.95	6.39	4.62	N	17.50	0.00	8.36
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	45.78	23.82	31.69	N	74.20	3.51	37.29
	S.E.	N	17.22	23.82	16.49	N	37.83	2.37	18.12
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-94 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	0.00	N	0.00	1.08	0.57	0.99	0.90
	S.E.	N	0.00	N	0.00	0.48	0.28	0.26	0.19
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	28.76	N	28.76	1.14	18.58	3.61	7.03
	S.E.	N	25.97	N	25.97	0.58	4.80	0.95	1.33
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	8.15	N	8.15	1.52	27.55	7.77	12.01
	S.E.	N	8.15	N	8.15	1.29	7.57	2.27	2.38
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-95
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		AMERICAN SHAD							YOUNG-OF-THE-YEAR				
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	0.63	N	2.81	2.55	4.26	0.00	0.00	1.61	2.01	0.97	0.00	0.95
	S.E.	0.41	N	2.06	1.82	0.88	0.00	0.00	0.33	0.69	0.66	0.00	0.29
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.42	N	0.00	0.05	0.51	0.60	0.00	0.31	0.00	0.33	0.00	0.07
	S.E.	0.42	N	0.00	0.05	0.22	0.60	0.00	0.14	0.00	0.33	0.00	0.07
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.92	N	0.00	0.11	0.66	1.42	0.00	0.52	0.18	1.28	0.00	0.35
	S.E.	0.92	N	0.00	0.11	0.30	0.93	0.00	0.21	0.18	0.49	0.00	0.13
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	1.25	N	0.00	0.14	0.00	1.34	0.31	0.39	0.15	0.32	0.00	0.12
	S.E.	0.88	N	0.00	0.10	0.00	0.74	0.31	0.20	0.15	0.32	0.00	0.09
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.26	0.00	0.00	0.10	0.47	0.37	0.00	0.25
	S.E.	0.00	N	0.00	0.00	0.14	0.00	0.00	0.05	0.25	0.37	0.00	0.12
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-95 (CONTINUED).

AMERICAN SHAD — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
09AUG82	DENSITY	9.51	0.46	1.50	1.82	N	0.00	0.00	0.00	8.73	1.56	0.00	0.92
	S.E.	3.06	0.46	1.50	1.19	N	0.00	0.00	0.00	2.03	0.64	0.00	0.21
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	3.84	0.00	0.00	0.23	N	1.88	0.00	0.26	0.94	3.24	0.00	0.91
	S.E.	1.18	0.00	0.00	0.07	N	0.88	0.00	0.12	0.57	2.21	0.00	0.58
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.94	2.28	1.90	1.90	N	0.48	0.00	0.07	4.42	0.00	0.00	0.26
	S.E.	0.94	0.57	0.98	0.77	N	0.48	0.00	0.07	0.85	0.00	0.00	0.05
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.39	0.00	0.06	N	0.00	0.00	0.00	4.92	1.78	0.00	0.75
	S.E.	0.00	0.39	0.00	0.06	N	0.00	0.00	0.00	3.34	1.78	0.00	0.51
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	1.95	0.00	0.00	0.11
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.89	0.00	0.00	0.05
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-95 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	3.75	0.00	0.87	N	1.60	1.05	1.17	N	3.40	1.53	2.16
	S.E.	N	2.60	0.00	0.60	N	1.03	1.05	0.86	N	1.87	1.01	0.92
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.42	0.00	0.10	N	5.27	0.00	1.09	N	3.80	5.18	4.72
	S.E.	N	0.42	0.00	0.10	N	1.85	0.00	0.38	N	1.47	3.34	2.26
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.50	0.81	0.74	N	1.61	1.00	1.13	N	1.21	1.04	1.10
	S.E.	N	0.50	0.81	0.63	N	0.79	1.00	0.81	N	0.68	0.70	0.52
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	2.92	0.00	0.68	N	2.59	0.00	0.54	N	5.40	1.78	3.01
	S.E.	N	1.93	0.00	0.45	N	1.76	0.00	0.36	N	1.10	1.16	0.85
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	1.90	0.00	0.44	N	1.79	2.67	2.49	N	6.24	1.59	3.16
	S.E.	N	0.89	0.00	0.21	N	0.89	2.02	1.61	N	2.21	0.76	0.90
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-95 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	6.06	0.00	2.17	N	9.36	0.42	4.69
	S.E.	N	1.40	0.00	0.50	N	1.88	0.42	0.92
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	4.48	1.11	2.32	N	12.90	2.92	7.69
	S.E.	N	2.22	0.76	0.93	N	2.53	2.92	1.95
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	1.68	0.75	1.08	N	2.82	0.85	1.79
	S.E.	N	0.88	0.47	0.44	N	0.76	0.85	0.57
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	6.58	0.60	2.74	N	15.40	2.68	8.76
	S.E.	N	1.48	0.60	0.65	N	4.06	1.08	2.02
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.45	0.73	0.63	N	1.80	0.00	0.86
	S.E.	N	0.31	0.46	0.31	N	0.43	0.00	0.20
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-95 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	8.70	N	8.70	3.74	4.14	0.76	1.88
	S.E.	N	2.47	N	2.47	0.54	0.58	0.34	0.27
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	4.73	N	4.73	0.58	4.00	0.58	1.42
	S.E.	N	2.98	N	2.98	0.15	0.63	0.27	0.24
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	2.56	N	2.56	0.73	1.57	0.59	0.84
	S.E.	N	1.08	N	1.08	0.21	0.25	0.20	0.15
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	12.91	N	12.91	0.36	5.83	0.34	1.69
	S.E.	N	5.73	N	5.73	0.16	0.99	0.11	0.25
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	3.17	N	3.17	0.32	1.61	0.39	0.68
	S.E.	N	1.84	N	1.84	0.10	0.33	0.19	0.15
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-96
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.20	2.17	2.00	7.60	9.00	21.33	43.20	27.00	6.40	30.00	5.90	14.71	10.07
	S.E.	0.20	0.80	1.00	2.62	4.43	11.60	24.19	6.38	2.79	7.85	1.99	6.73	1.63
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.60	0.63	3.14	6.60	7.80	15.67	13.40	20.00	11.80	17.33	27.40	65.71	13.66
	S.E.	0.40	0.32	1.43	4.92	1.39	3.84	7.03	9.49	3.40	4.44	11.67	20.17	2.22
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.20	1.13	0.50	1.40	22.40	51.83	18.80	26.20	6.60	15.67	17.20	16.86	10.32
	S.E.	0.20	0.75	0.36	0.93	7.95	25.78	13.67	7.88	3.20	6.29	9.31	8.68	2.25
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.20	0.50	2.43	0.20	41.60	24.33	36.60	15.00	17.60	8.89	3.90	21.86	8.34
	S.E.	0.20	0.24	2.13	0.20	34.29	13.48	12.79	7.11	9.28	3.53	2.52	10.54	1.59
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.40	1.17	5.64	2.00	20.40	40.33	16.80	11.40	34.00	10.11	14.30	2.86	9.60
	S.E.	0.40	0.46	2.49	0.71	10.81	14.73	6.00	4.82	33.01	3.32	4.44	1.18	2.07
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-97
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		AMERICAN SHAD							YEARLING				
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-97 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YEARLING							
		INDIAN POINT				WEST POINT				CORNWALL			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	1.03	0.00	0.00	0.06
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.63	0.00	0.00	0.04
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-97 (CONTINUED).

AMERICAN SHAD YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.42	0.00	0.10	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.42	0.00	0.10	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.41	0.00	0.09	N	0.26	0.00	0.09
	S.E.	N	0.00	0.00	0.00	N	0.41	0.00	0.09	N	0.26	0.00	0.09
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-97 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YEARLING			
			SAUGERTIES				CATSKILL		
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-97 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YEARLING			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	0.00	0.05	0.00	0.01
	S.E.	N	0.00	N	0.00	0.00	0.05	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	0.04	0.05	0.00	0.02
	S.E.	N	0.00	N	0.00	0.02	0.03	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-98
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

AMERICAN SHAD OLDER

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-98 (CONTINUED).

AMERICAN SHAD OLDER

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
09AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-98 (CONTINUED).

AMERICAN SHAD OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.34	0.00	0.07	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.34	0.00	0.07	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-98 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				OLDER			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-98 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				OLDER			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	0.00	0.02	0.00	0.01
	S.E.	N	0.00	N	0.00	0.00	0.02	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-99
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

AMERICAN SHAD OLDER

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	S.E.	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-100
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

ATLANTIC TOMCOD — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	1.34	0.76	0.58	0.68	2.62	0.00	0.82
	S.E.	0.00	N	0.00	0.00	0.00	1.34	0.76	0.42	0.68	2.62	0.00	0.63
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	26.70	N	0.00	3.10	0.00	9.29	0.00	1.79	0.00	0.00	0.00	0.00
	S.E.	26.70	N	0.00	3.10	0.00	8.12	0.00	1.57	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	10.24	9.06	0.00	0.00	0.00	0.00	0.00	1.96	0.00	0.43
	S.E.	0.00	N	10.24	9.06	0.00	0.00	0.00	0.00	0.00	1.96	0.00	0.43
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-100 (CONTINUED).

ATLANTIC TOMCOD POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
10MAY82	DENSITY	0.00	1.27	2.50	2.15	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.80	2.50	1.96	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.00	17.86	4.13	6.08	N	31.45	5.11	8.74	0.00	0.48	0.00	0.13
	S.E.	0.00	8.96	2.35	2.33	N	13.01	1.98	2.48	0.00	0.48	0.00	0.13
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	2.52	0.22	0.57	N	0.93	0.32	0.41	0.00	0.00	0.00	0.00
	S.E.	0.00	0.85	0.22	0.22	N	0.93	0.23	0.24	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	0.00	0.59	0.86	0.76	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.59	0.86	0.68	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	0.00	4.13	0.00	0.66	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	4.13	0.00	0.66	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-100 (CONTINUED).

ATLANTIC TOMCOD POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-100 (CONTINUED).

ATLANTIC TOMCOD — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-100 (CONTINUED).

WEEK BEGINNING MONDAY		ATLANTIC TOMCOD				POST YOLK-SAC LARVAE			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	N	0.00	0.16	0.38	0.34	0.33
	S.E.	N	0.00	N	0.00	0.16	0.22	0.28	0.19
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	0.00	N	0.00	3.19	3.76	1.06	1.93
	S.E.	N	0.00	N	0.00	3.19	1.25	0.35	0.49
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	0.00	N	0.00	0.00	0.31	1.46	1.03
	S.E.	N	0.00	N	0.00	0.00	0.13	1.40	0.92
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	0.00	N	0.00	0.00	0.04	0.09	0.07
	S.E.	N	0.00	N	0.00	0.00	0.04	0.09	0.06
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	0.00	N	0.00	0.00	0.25	0.00	0.06
	S.E.	N	0.00	N	0.00	0.00	0.25	0.00	0.06
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-101
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

ATLANTIC TOMCOD — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.64	1.52	0.78	5.43	115.17	0.00	27.32
	S.E.	0.00	N	0.00	0.00	0.00	0.64	1.52	0.66	5.43	115.17	0.00	25.42
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	160.43	N	0.00	18.61	0.00	80.64	0.00	15.56	0.00	0.00	0.00	0.00
	S.E.	101.04	N	0.00	11.72	0.00	80.64	0.00	15.56	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	286.07	252.89	0.00	74.83	0.00	14.44	1.53	131.20	0.00	29.43
	S.E.	0.00	N	278.07	245.81	0.00	62.11	0.00	11.99	1.53	108.82	0.00	23.95
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	30.59	N	0.00	3.55	0.00	236.00	0.00	45.54	0.00	6.02	0.00	1.32
	S.E.	30.59	N	0.00	3.55	0.00	156.23	0.00	30.15	0.00	6.02	0.00	1.32
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	1.06	N	0.00	0.12	0.00	20.39	0.70	4.23	0.00	4.10	0.00	0.90
	S.E.	1.06	N	0.00	0.12	0.00	14.80	0.70	2.87	0.00	4.10	0.00	0.90
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	50.19	N	4.41	9.72	20.68	24.15	0.48	12.69	0.00	5.69	0.00	1.25
	S.E.	0.00	N	3.08	2.72	20.68	10.31	0.48	8.07	0.00	2.12	0.00	0.47
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	35.24	N	7.46	10.68	0.00	47.46	2.10	10.06	1.67	11.20	0.54	3.30
	S.E.	0.00	N	3.76	3.32	0.00	25.82	2.10	5.06	1.67	6.86	0.54	1.64
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	15.34	N	0.96	2.63	2.09	31.21	2.30	7.80	0.67	7.75	0.49	2.15
	S.E.	0.00	N	0.67	0.59	2.09	16.24	1.36	3.28	0.67	2.92	0.49	0.72
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-101 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
10MAY82	DENSITY	0.00	3.41	10.43	8.68	N	10.57	0.74	2.09	0.00	6.40	0.00	1.68
	S.E.	0.00	3.41	10.43	8.15	N	4.69	0.37	0.72	0.00	4.11	0.00	1.08
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.00	145.15	15.04	34.99	N	286.79	59.75	91.06	0.57	70.68	0.00	18.64
	S.E.	0.00	123.20	7.56	20.61	N	121.84	19.82	23.97	0.57	42.13	0.00	11.09
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	390.71	5.16	66.67	N	171.62	33.35	52.42	0.00	72.35	0.00	19.05
	S.E.	0.00	332.33	3.60	53.36	N	72.18	11.93	14.31	0.00	35.82	0.00	9.43
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	0.00	217.27	97.56	110.85	N	114.42	24.44	36.85	0.00	1.47	0.00	0.39
	S.E.	0.00	117.10	79.22	64.52	N	91.10	23.55	23.87	0.00	1.16	0.00	0.31
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	0.00	2.28	1.34	1.41	N	9.96	2.83	3.82	0.00	2.15	0.41	0.85
	S.E.	0.00	2.28	1.15	0.96	N	4.74	1.29	1.29	0.00	1.20	0.41	0.42
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	0.00	10.08	0.00	1.62	N	72.03	3.18	12.68	0.00	9.48	0.00	2.49
	S.E.	0.00	10.08	0.00	1.62	N	25.25	1.99	3.88	0.00	3.46	0.00	0.91
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	0.00	6.15	1.76	2.36	N	50.69	7.10	13.11	0.98	10.41	1.43	3.77
	S.E.	0.00	3.20	0.81	0.82	N	35.00	1.45	4.99	0.98	3.11	1.21	1.16
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	0.00	48.41	4.38	11.17	N	8.87	2.14	3.07	0.00	5.71	0.00	1.50
	S.E.	0.00	44.78	1.57	7.28	N	4.72	0.85	0.98	0.00	1.77	0.00	0.47
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	0.00	7.27	0.16	1.29	N	17.64	1.74	3.93	2.83	14.83	0.00	4.07
	S.E.	0.00	3.84	0.16	0.63	N	10.55	0.71	1.58	2.83	6.26	0.00	1.66
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-101 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	4.08	0.00	0.95	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	3.78	0.00	0.88	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	26.20	0.00	6.08	N	22.62	0.00	4.69	N	0.00	0.00	0.00
	S.E.	N	8.73	0.00	2.03	N	15.94	0.00	3.30	N	0.00	0.00	0.00
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	4.11	0.00	0.95	N	3.12	0.00	0.65	N	0.72	0.00	0.24
	S.E.	N	2.06	0.00	0.48	N	2.23	0.00	0.46	N	0.72	0.00	0.24
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	0.17	0.53	0.45	N	0.00	0.00	0.00	N	0.73	0.00	0.25
	S.E.	N	0.17	0.53	0.41	N	0.00	0.00	0.00	N	0.73	0.00	0.25
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	44.58	0.20	10.50	N	2.29	0.00	0.47	N	0.00	0.00	0.00
	S.E.	N	16.72	0.20	3.88	N	1.65	0.00	0.34	N	0.00	0.00	0.00
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	3.41	0.00	0.79	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	2.99	0.00	0.69	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	13.10	0.00	3.04	N	2.49	0.00	0.52	N	0.00	0.00	0.00
	S.E.	N	5.63	0.00	1.31	N	2.49	0.00	0.52	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	0.40	0.88	0.77	N	0.54	0.00	0.11	N	0.86	0.00	0.29
	S.E.	N	0.40	0.62	0.48	N	0.54	0.00	0.11	N	0.86	0.00	0.29
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-101 (CONTINUED).

WEEK BEGINNING MONDAY		ATLANTIC TOMCOD				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-101 (CONTINUED).

WEEK BEGINNING MONDAY		ATLANTIC TOMCOD				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	N	0.00	1.31	7.98	1.37	2.98
	S.E.	N	0.00	N	0.00	1.31	6.75	1.15	1.82
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	0.00	N	0.00	19.17	37.68	8.81	16.91
	S.E.	N	0.00	N	0.00	12.06	13.54	2.52	3.89
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	0.00	N	0.00	0.37	57.80	43.51	42.77
	S.E.	N	0.00	N	0.00	0.37	22.57	37.89	25.48
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	0.00	N	0.00	3.65	46.54	13.57	20.67
	S.E.	N	0.00	N	0.00	3.65	19.40	9.09	7.64
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	0.00	N	0.00	0.13	3.40	0.66	1.28
	S.E.	N	0.00	N	0.00	0.13	1.70	0.23	0.44
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	0.00	N	0.00	0.00	10.63	0.41	2.88
	S.E.	N	0.00	N	0.00	0.00	2.54	0.24	0.64
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	0.00	N	0.00	17.32	7.12	1.78	4.62
	S.E.	N	0.00	N	0.00	11.29	2.19	0.47	1.27
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	0.00	N	0.00	4.61	11.49	1.97	4.56
	S.E.	N	0.00	N	0.00	0.40	4.04	0.58	1.06
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	0.00	N	0.00	3.23	6.43	0.73	2.37
	S.E.	N	0.00	N	0.00	1.15	1.96	0.20	0.51
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-102
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		ATLANTIC TOMCOD							YOUNG-OF-THE-YEAR				
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	17.86	N	0.69	2.68	0.47	20.62	0.00	4.16	0.00	12.44	0.00	2.74
	S.E.	7.25	N	0.69	1.04	0.31	6.17	0.00	1.20	0.00	4.37	0.00	0.96
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	6.38	N	1.30	1.89	0.29	11.41	0.00	2.31	0.00	3.00	0.00	0.66
	S.E.	2.96	N	1.30	1.20	0.22	2.18	0.00	0.43	0.00	1.30	0.00	0.29
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	3.71	N	1.25	1.53	0.20	6.47	0.00	1.32	0.00	4.78	0.00	1.05
	S.E.	1.31	N	1.25	1.11	0.20	1.83	0.00	0.36	0.00	1.96	0.00	0.43
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	5.23	N	0.00	0.61	0.20	2.72	0.00	0.60	0.00	1.78	0.00	0.39
	S.E.	3.21	N	0.00	0.37	0.20	1.05	0.00	0.22	0.00	0.90	0.00	0.20
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.43	N	0.00	0.05	0.50	0.40	0.00	0.27	0.00	3.08	0.00	0.68
	S.E.	0.43	N	0.00	0.05	0.25	0.40	0.00	0.12	0.00	1.31	0.00	0.29
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-102 (CONTINUED).

ATLANTIC TOMCOD — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
09AUG82	DENSITY	0.00	36.91	16.25	18.58	N	38.56	10.76	14.59	0.00	14.25	0.00	3.75
	S.E.	0.00	10.93	12.38	9.80	N	16.70	5.48	5.26	0.00	7.20	0.00	1.90
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	16.19	1.36	3.65	N	39.97	5.20	9.99	0.00	29.95	0.73	8.38
	S.E.	0.00	6.30	1.36	1.46	N	8.23	2.61	2.52	0.00	20.66	0.73	5.46
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.96	10.21	1.63	2.97	N	27.87	16.46	18.03	0.00	65.26	0.00	17.18
	S.E.	0.61	3.69	1.63	1.40	N	3.97	16.46	14.20	0.00	50.29	0.00	13.24
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	11.47	0.00	1.84	N	15.86	1.63	3.60	10.67	5.72	0.59	2.53
	S.E.	0.00	4.60	0.00	0.74	N	3.80	0.82	0.88	7.11	2.39	0.59	0.85
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	1.42	0.00	0.23	N	7.73	0.00	1.07	2.34	9.06	0.00	2.52
	S.E.	0.00	0.92	0.00	0.15	N	5.31	0.00	0.73	1.80	5.09	0.00	1.34
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-102 (CONTINUED).

ATLANTIC TOMCOD — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	POUGHKEEPSIE B	POUGHKEEPSIE C.	POUGHKEEPSIE R	HYDE PARK S	HYDE PARK B	HYDE PARK C	HYDE PARK R	KINGSTON S	KINGSTON B	KINGSTON C	KINGSTON R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.95	0.00	0.22	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.95	0.00	0.22	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	7.48	0.00	1.74	N	2.87	0.00	0.60	N	1.89	0.00	0.64
	S.E.	N	2.45	0.00	0.57	N	1.16	0.00	0.24	N	1.06	0.00	0.36
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	16.26	0.00	3.77	N	0.75	0.00	0.15	N	3.83	0.00	1.29
	S.E.	N	4.74	0.00	1.10	N	0.47	0.00	0.10	N	1.68	0.00	0.57
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	11.10	0.00	2.58	N	2.71	1.68	1.89	N	2.77	0.00	0.93
	S.E.	N	5.09	0.00	1.18	N	0.71	1.04	0.84	N	0.95	0.00	0.32
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-102 (CONTINUED).

WEEK BEGINNING MONDAY		ATLANTIC TOMCOD				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.61	0.00	0.22	N	0.18	0.00	0.09
	S.E.	N	0.32	0.00	0.11	N	0.18	0.00	0.09
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	1.18	0.00	0.42	N	0.34	0.00	0.16
	S.E.	N	0.49	0.00	0.17	N	0.34	0.00	0.16
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	2.37	0.00	0.85	N	0.87	0.00	0.42
	S.E.	N	1.24	0.00	0.44	N	0.55	0.00	0.26
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-102 (CONTINUED).

WEEK BEGINNING MONDAY		ATLANTIC TOMCOD				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	2.39	8.18	3.16	4.31
	S.E.	N	0.00	N	0.00	0.88	1.39	1.50	1.05
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	0.92	6.58	1.00	2.36
	S.E.	N	0.00	N	0.00	0.37	1.51	0.39	0.45
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	0.61	8.74	2.32	3.73
	S.E.	N	0.00	N	0.00	0.19	3.37	1.99	1.55
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	1.12	4.87	0.23	1.46
	S.E.	N	0.00	N	0.00	0.47	0.73	0.11	0.20
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	0.41	3.49	0.15	0.99
	S.E.	N	0.00	N	0.00	0.16	0.80	0.09	0.21
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-103
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.00	0.17	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
	S.E.	0.00	0.13	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	1.63	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65
	S.E.	0.00	0.84	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.20	1.08	0.43	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
	S.E.	0.20	0.74	0.29	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.20	1.29	1.07	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56
	S.E.	0.20	0.58	0.57	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	2.20	0.71	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42
	S.E.	2.20	0.54	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-104
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

ALEWIFE/BLUEBACK HERRING EGGS

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-104 (CONTINUED).

ALEWIFE/BLUEBACK HERRING EGGS

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
10MAY82	DENSITY	0.00	0.68	0.00	0.11	N	1.70	1.19	1.26	0.64	12.43	0.58	3.71
	S.E.	0.00	0.68	0.00	0.11	N	0.98	0.50	0.45	0.64	7.85	0.58	2.10
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.00	1.35	0.00	0.22	N	0.00	0.00	0.00	0.60	0.51	0.00	0.17
	S.E.	0.00	1.35	0.00	0.22	N	0.00	0.00	0.00	0.60	0.51	0.00	0.14
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	0.00	0.00	0.00	N	1.26	0.12	0.28	0.00	10.66	0.51	3.15
	S.E.	0.00	0.00	0.00	0.00	N	1.26	0.12	0.20	0.00	8.13	0.51	2.17
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	1.09	0.00	0.29
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	1.09	0.00	0.29
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-104 (CONTINUED).

ALEWIFE/BLUEBACK HERRING EGGS

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	DENSITY	N	24.34	2.86	7.85	N	1307.59	85.27	338.60	N	1050.65	156.23	458.38
	S.E.	N	13.19	2.13	3.47	N	362.90	33.57	79.78	N	476.82	101.06	174.42
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	77.63	202.43	173.47	N	2928.86	152.72	728.08	N	1680.51	7.44	572.62
	S.E.	N	46.05	160.38	123.63	N	1095.09	67.28	233.14	N	1044.37	3.60	352.80
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	8.47	1.06	2.78	N	77.94	2.27	17.95	N	17.34	18.29	17.97
	S.E.	N	3.69	0.83	1.07	N	40.55	1.43	8.48	N	16.32	17.78	13.00
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	22.81	2.37	7.11	N	2.31	0.00	0.48	N	3.62	0.00	1.22
	S.E.	N	11.83	1.47	2.97	N	2.31	0.00	0.48	N	3.62	0.00	1.22
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.48	0.32
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.48	0.32
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-104 (CONTINUED).

ALEWIFE/BLUEBACK HERRING EGGS

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
10MAY82	DENSITY	N	312151	3081.44	113764	N	99137.18	11631.38	53451.20
	S.E.	N	273783	2828.66	98062.71	N	51952.76	10807.57	25461.79
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	21279.54	108.71	7690.32	N	192634	3718.80	94002.99
	S.E.	N	19593.47	56.06	7016.82	N	175197	1568.36	83732.38
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	61.67	171.30	132.04	N	1010.26	6460.61	3855.84
	S.E.	N	27.54	160.88	103.74	N	624.05	4593.37	2416.63
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	27.40	6.34	13.88	N	10.04	0.00	4.80
	S.E.	N	15.98	6.34	7.02	N	6.36	0.00	3.04
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	33.19	7.45	16.67	N	1.87	0.00	0.89
	S.E.	N	21.91	5.09	8.50	N	1.87	0.00	0.89
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	22.94	0.00	8.22	N	59.26	10.11	33.60
	S.E.	N	22.06	0.00	7.90	N	18.20	7.72	9.58
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	0.00	0.00	0.00	N	3.65	0.84	2.19
	S.E.	N	0.00	0.00	0.00	N	1.83	0.84	0.98
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	5.68	0.00	2.03	N	0.91	0.00	0.43
	S.E.	N	5.68	0.00	2.03	N	0.91	0.00	0.43
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-104 (CONTINUED).

ALEWIFE/BLUEBACK HERRING EGGS

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
10MAY82	DENSITY	N	4545.61	N	4545.61	0.02	49902.76	907.47	12825.62
	S.E.	N	1891.05	N	1891.05	0.02	31907.49	645.84	7831.11
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	14348.47	N	14348.47	0.02	31210.03	262.87	7821.31
	S.E.	N	10434.45	N	10434.45	0.02	24351.86	92.05	5968.26
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	10.48	N	10.48	0.00	156.09	378.63	286.87
	S.E.	N	10.48	N	10.48	0.00	86.36	259.13	171.46
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	670.20	N	670.20	0.00	93.54	0.85	23.48
	S.E.	N	232.42	N	232.42	0.00	29.84	0.53	7.32
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	23076.62	N	23076.62	0.00	2956.60	0.60	724.97
	S.E.	N	10781.91	N	10781.91	0.00	1379.51	0.39	338.08
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	0.00	N	0.00	0.00	10.87	0.57	3.04
	S.E.	N	0.00	N	0.00	0.00	3.55	0.43	0.92
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	7.40	N	7.40	0.00	1.45	0.05	0.39
	S.E.	N	3.70	N	3.70	0.00	0.54	0.05	0.14
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	0.00	N	0.00	0.00	0.77	0.00	0.19
	S.E.	N	0.00	N	0.00	0.00	0.66	0.00	0.16
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-105
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

ALEWIFE/BLUEBACK HERRING — YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.31
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.31
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-105 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
10MAY82	DENSITY	2.77	4.56	2.75	3.04	N	6.07	4.41	4.64	25.11	11.51	3.30	6.73
	S.E.	1.86	3.31	0.64	0.74	N	3.54	1.06	1.03	10.13	2.61	2.16	1.72
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.00	1.44	0.00	0.23	N	4.10	3.13	3.26	27.91	9.85	2.93	6.20
	S.E.	0.00	0.97	0.00	0.16	N	2.37	1.51	1.34	16.10	3.33	1.40	1.59
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	0.00	0.19	0.15	N	2.16	1.44	1.54	15.25	4.96	9.35	8.53
	S.E.	0.00	0.00	0.19	0.15	N	1.74	0.39	0.41	5.03	3.59	2.53	1.98
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	0.91	0.00	0.61	0.53	N	0.43	3.28	2.89	6.16	2.16	8.90	6.96
	S.E.	0.91	0.00	0.45	0.36	N	0.43	0.83	0.71	2.90	1.46	3.27	2.26
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.14	0.12	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.14	0.12	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.11	0.09	0.00	0.00	0.20	0.14
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.11	0.09	0.00	0.00	0.20	0.14
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-105 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	POUGHKEEPSIE B	POUGHKEEPSIE C	POUGHKEEPSIE R	HYDE PARK S	HYDE PARK B	HYDE PARK C	HYDE PARK R	KINGSTON S	KINGSTON B	KINGSTON C	KINGSTON R
10MAY82	DENSITY	N	8.34	5.14	5.88	N	55.98	5.67	16.10	N	208.41	76.84	121.28
	S.E.	N	3.36	1.31	1.27	N	13.70	1.71	3.15	N	118.13	27.61	43.89
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	35.45	10.69	16.44	N	751.03	1015.66	960.81	N	1359.31	3281.02	2631.85
	S.E.	N	12.14	3.24	3.76	N	166.00	310.68	248.68	N	560.81	836.47	585.41
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	93.00	67.89	73.72	N	37.92	37.36	37.47	N	69.43	112.31	97.83
	S.E.	N	27.25	12.27	11.35	N	17.92	14.84	12.34	N	15.71	86.99	57.85
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	57.31	57.43	57.41	N	7.22	9.09	8.70	N	4.36	16.87	12.64
	S.E.	N	21.06	15.47	12.85	N	2.92	2.50	2.07	N	1.89	11.89	7.90
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	1.43	1.45	1.45	N	0.38	13.77	11.00	N	19.19	59.28	45.74
	S.E.	N	0.65	0.52	0.43	N	0.38	5.59	4.43	N	11.30	16.85	11.79
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	0.00	0.59	0.46	N	0.00	0.22	0.18	N	1.43	0.37	0.73
	S.E.	N	0.00	0.31	0.24	N	0.00	0.22	0.18	N	1.43	0.37	0.54
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.51	0.00	0.11	N	0.00	0.36	0.24
	S.E.	N	0.00	0.00	0.00	N	0.51	0.00	0.11	N	0.00	0.36	0.24
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-105 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
10MAY82	DENSITY	N	424.17	284.39	334.44	N	441.60	82.05	253.88
	S.E.	N	164.46	89.86	82.43	N	114.31	31.98	57.12
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	1769.04	1515.97	1606.60	N	250.66	768.27	520.90
	S.E.	N	1112.77	586.30	548.12	N	198.79	290.65	179.03
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	132.72	458.67	341.94	N	1340.95	1032.15	1179.73
	S.E.	N	50.96	99.91	66.67	N	1116.37	186.86	542.37
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	12.36	50.81	37.04	N	265.79	35.15	145.37
	S.E.	N	5.65	10.29	6.90	N	137.91	15.81	66.42
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	280.99	89.81	158.27	N	2464.96	2904.72	2694.56
	S.E.	N	86.66	38.46	39.65	N	1172.88	103.84	563.15
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	1.41	0.00	0.51	N	27.26	68.11	48.59
	S.E.	N	0.82	0.00	0.29	N	24.23	22.75	16.59
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	2.16	0.00	0.77	N	6.32	9.44	7.95
	S.E.	N	2.16	0.00	0.77	N	5.05	4.40	3.33
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	0.71	0.00	0.25	N	0.00	0.00	0.00
	S.E.	N	0.71	0.00	0.25	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-105 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
10MAY82	DENSITY	N	688.87	N	688.87	1.07	221.10	33.42	76.24
	S.E.	N	352.72	N	352.72	0.38	52.34	7.28	13.69
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	4769.54	N	4769.54	1.01	1014.41	456.64	548.54
	S.E.	N	1004.60	N	1004.60	0.59	188.88	75.98	68.06
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	0.00	N	0.00	0.55	220.73	114.60	129.40
	S.E.	N	0.00	N	0.00	0.18	154.44	14.27	38.99
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	2146.13	N	2146.13	0.28	320.85	17.56	90.19
	S.E.	N	354.59	N	354.59	0.12	49.28	2.78	12.22
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	312.14	N	312.14	0.00	414.36	175.69	216.91
	S.E.	N	180.47	N	180.47	0.00	164.03	6.64	40.44
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	195.00	N	195.00	0.00	29.00	4.00	9.73
	S.E.	N	108.75	N	108.75	0.00	14.31	1.28	3.61
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	221.30	N	221.30	0.00	29.46	0.55	7.59
	S.E.	N	104.98	N	104.98	0.00	13.45	0.25	3.30
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	5.60	N	5.60	0.00	0.80	0.00	0.20
	S.E.	N	4.37	N	4.37	0.00	0.56	0.00	0.14
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	9.61	N	9.61	0.00	1.23	0.00	0.30
	S.E.	N	9.61	N	9.61	0.00	1.23	0.00	0.30
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-106
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

ALEWIFE/BLUEBACK HERRING — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	1.93	N	0.79	0.93	0.97	3.03	3.36	2.40	4.85	0.00	2.07	2.63
	S.E.	0.97	N	0.79	0.71	0.97	3.03	2.32	1.21	3.33	0.00	1.34	1.34
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	3.51	1.95	1.51	2.98	7.50	2.43	3.75
	S.E.	0.00	N	0.00	0.00	0.00	2.24	1.95	0.94	2.27	1.08	2.43	1.33
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	0.00	0.00	0.91	0.00	0.00	0.34	5.49	0.00	2.16	2.90
	S.E.	0.00	N	0.00	0.00	0.91	0.00	0.00	0.34	2.37	0.00	1.08	0.97
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.91	0.73	0.49	1.74	0.00	7.33	3.68
	S.E.	0.00	N	0.00	0.00	0.00	0.91	0.73	0.36	1.16	0.00	5.79	2.44
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	1.94	N	0.85	0.98	14.41	0.00	33.28	19.72	77.21	11.57	52.40	52.47
	S.E.	0.98	N	0.85	0.76	10.01	0.00	15.05	7.48	49.35	3.94	13.75	18.91
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	5.61	N	0.00	0.65	148.12	19.93	30.96	73.14	416.49	73.50	395.97	332.50
	S.E.	0.00	N	0.00	0.00	143.34	11.14	14.52	54.61	230.70	34.13	84.34	91.49
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	0.00	N	0.04	0.03	0.00	0.61	0.00	0.12	3.79	1.01	4.62	3.52
	S.E.	0.00	N	0.04	0.03	0.00	0.61	0.00	0.12	2.00	0.64	2.11	1.15
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	1.37	0.00	0.00	0.50
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	1.37	0.00	0.00	0.50
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	1.26	0.00	0.24	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	1.26	0.00	0.24	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-106 (CONTINUED).

ALEWIFE/BLUEBACK HERRING POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
10MAY82	DENSITY	26.82	13.87	26.23	24.29	N	70.22	37.46	41.98	273.41	162.61	14.75	68.66
	S.E.	13.02	6.77	5.69	4.63	N	30.32	7.20	7.48	71.89	54.20	2.55	14.96
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	53.03	3.45	6.77	9.03	N	18.54	20.74	20.44	97.91	16.37	39.21	36.60
	S.E.	21.22	2.19	2.01	2.05	N	8.99	3.71	3.43	26.20	2.36	18.47	12.64
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	2.09	2.59	2.11	2.19	N	100.74	132.12	127.79	881.84	486.94	2409.94	1815.21
	S.E.	2.09	0.94	1.09	0.87	N	47.54	71.83	62.27	383.60	113.93	734.73	500.15
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	46.09	7.33	100.70	82.43	N	21.15	298.21	260.01	2745.83	80.48	2087.13	1597.08
	S.E.	21.50	4.05	55.49	43.26	N	9.07	88.80	76.56	1523.29	28.10	1068.18	730.50
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	401.03	75.34	578.40	487.01	N	78.63	896.11	783.38	3290.61	78.26	787.94	746.14
	S.E.	194.98	38.92	205.53	160.69	N	44.42	313.27	270.14	975.64	44.04	355.68	248.25
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	3027.69	95.27	468.86	563.74	N	133.26	89.19	95.27	8457.77	100.05	905.74	1131.22
	S.E.	1920.21	25.43	119.68	149.01	N	97.36	36.51	34.22	6358.64	33.80	226.90	399.42
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	204.23	36.02	76.20	77.50	N	371.09	130.15	163.38	471.23	148.61	381.80	325.60
	S.E.	27.46	21.55	23.68	18.85	N	157.07	20.65	28.04	125.83	57.09	78.52	55.86
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	106.65	22.45	34.80	37.17	N	155.54	150.44	151.14	1071.85	240.23	246.87	292.92
	S.E.	92.60	15.08	13.15	11.92	N	44.43	40.31	35.28	630.00	27.43	101.50	78.31
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	0.00	0.61	1.22	1.05	N	4.80	13.21	12.05	60.40	64.55	133.90	111.39
	S.E.	0.00	0.61	0.51	0.41	N	2.01	2.28	1.98	52.36	28.98	53.69	37.36
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-106 (CONTINUED).

ALEWIFE/BLUEBACK HERRING POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	DENSITY	N	26.47	51.29	45.53	N	52.64	72.72	68.56	N	76.08	135.03	115.12
	S.E.	N	3.87	28.68	22.04	N	6.44	18.94	15.07	N	35.89	42.86	30.86
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	43.46	276.40	222.35	N	1520.26	483.36	698.26	N	625.62	3266.76	2374.56
	S.E.	N	8.09	188.54	144.80	N	519.65	162.62	167.98	N	313.35	1413.83	942.19
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	591.09	2618.93	2148.35	N	1669.95	11057.98	9112.30	N	2872.91	8316.37	6477.52
	S.E.	N	134.80	649.00	499.38	N	682.15	3133.44	2488.05	N	921.58	2902.96	1947.36
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	473.88	4302.12	3413.74	N	71.37	4453.58	3545.36	N	740.90	12745.46	8690.21
	S.E.	N	118.61	1083.23	832.31	N	10.26	1647.41	1305.98	N	260.47	1757.27	1166.97
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	343.12	3611.22	2852.83	N	57.06	5156.04	4099.28	N	5569.58	6853.08	6419.50
	S.E.	N	84.27	904.40	694.80	N	26.07	1959.28	1553.23	N	2420.78	5547.48	3763.41
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	132.60	1112.63	885.20	N	453.24	1419.56	1219.29	N	188.29	3997.64	2710.81
	S.E.	N	60.81	496.80	381.77	N	316.89	875.70	697.31	N	108.57	1607.27	1064.95
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	314.10	297.66	301.48	N	155.25	334.88	297.65	N	706.70	415.34	513.76
	S.E.	N	75.24	68.59	55.49	N	66.64	49.37	41.50	N	279.13	96.45	113.89
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	373.85	288.91	308.62	N	208.81	333.42	307.59	N	484.89	919.18	772.47
	S.E.	N	76.44	64.69	52.75	N	80.54	95.38	77.44	N	297.31	318.88	233.83
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	185.21	207.30	202.17	N	569.65	243.16	310.82	N	417.50	1728.63	1285.72
	S.E.	N	85.84	67.08	55.23	N	229.12	72.17	74.35	N	180.10	611.33	409.36
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-106 (CONTINUED).

ALEWIFE/BLUEBACK HERRING POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
10MAY82	DENSITY	N	434.65	95.68	217.07	N	157.71	131.60	144.08
	S.E.	N	50.90	44.96	34.13	N	145.11	16.79	69.90
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	1801.69	3691.83	3014.94	N	596.74	1058.02	837.57
	S.E.	N	1177.36	2045.77	1379.18	N	87.31	375.37	200.37
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	6065.36	13526.62	10854.63	N	1523.28	12943.70	7485.78
	S.E.	N	1365.08	5262.82	3413.31	N	902.69	7991.75	4194.66
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	1797.54	25940.94	17294.81	N	462.60	5337.24	3007.60
	S.E.	N	365.77	12604.09	8091.43	N	92.78	2328.89	1216.70
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	11150.02	2861.76	5829.92	N	2315.55	485.21	1359.95
	S.E.	N	4491.71	726.19	1674.73	N	642.40	174.91	320.30
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	716.05	5480.19	3774.07	N	639.37	378.75	503.30
	S.E.	N	570.53	0.00	204.32	N	102.87	78.07	63.86
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	1715.45	759.28	1101.70	N	781.04	834.03	808.70
	S.E.	N	427.62	172.88	189.12	N	323.52	401.96	260.67
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	1111.84	267.40	569.81	N	1426.68	1365.65	1394.82
	S.E.	N	333.32	42.43	122.44	N	350.46	288.73	225.34
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	730.41	1859.11	1454.90	N	1463.31	654.85	1041.22
	S.E.	N	160.40	977.69	630.19	N	844.33	239.78	422.49
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-106 (CONTINUED).

ALEWIFE/BLUEBACK HERRING POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
10MAY82	DENSITY	N	0.00	N	0.00	13.39	99.80	46.28	56.16
	S.E.	N	0.00	N	0.00	2.88	21.47	6.58	6.81
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	394.49	N	394.49	7.28	493.67	636.76	539.81
	S.E.	N	91.21	N	91.21	1.63	141.11	183.20	125.16
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	1.15	N	1.15	33.99	1360.79	3827.27	2849.92
	S.E.	N	1.15	N	1.15	13.96	219.07	696.04	460.18
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	2594.83	N	2594.83	102.81	734.15	4307.71	3018.58
	S.E.	N	669.20	N	669.20	55.37	99.72	999.87	657.02
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	194.84	N	194.84	169.02	2150.81	1912.02	1799.20
	S.E.	N	191.92	N	191.92	39.38	558.67	420.25	308.07
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	108.57	N	108.57	660.75	269.98	1124.15	869.26
	S.E.	N	45.38	N	45.38	272.78	70.70	149.85	103.45
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	382.28	N	382.28	29.58	492.36	254.57	290.73
	S.E.	N	145.72	N	145.72	4.85	73.94	29.84	26.69
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	959.50	N	959.50	45.31	572.60	266.52	319.79
	S.E.	N	474.21	N	474.21	23.49	90.77	30.25	29.91
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	598.29	N	598.29	2.19	460.56	350.47	343.22
	S.E.	N	204.55	N	204.55	1.90	123.25	85.66	63.84
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-107
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

ALEWIFE/BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.51
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.00	0.51
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	2.21	0.00	0.00	0.81
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	2.21	0.00	0.00	0.81
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-107 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
10MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	0.00	0.00	0.20	0.16	N	0.00	0.12	0.10	4.89	0.49	0.22	0.56
	S.E.	0.00	0.00	0.20	0.16	N	0.00	0.12	0.10	4.89	0.33	0.22	0.33
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	13.18	0.00	0.00	0.80	N	4.24	4.16	4.17	163.37	20.03	4.27	17.64
	S.E.	13.18	0.00	0.00	0.80	N	2.06	3.22	2.79	85.64	5.29	1.56	5.26
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	1.23	1.23	0.85	0.93	N	0.00	0.45	0.39	67.90	15.29	21.37	22.46
	S.E.	1.23	1.23	0.54	0.47	N	0.00	0.26	0.22	66.49	6.38	16.18	11.76
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-107 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	POUGHKEEPSIE B	POUGHKEEPSIE C	POUGHKEEPSIE R	HYDE PARK S	HYDE PARK B	HYDE PARK C	HYDE PARK R	KINGSTON S	KINGSTON B	KINGSTON C	KINGSTON R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	3.26	2.11	2.38	N	0.00	2.77	2.20	N	8.25	5.09	6.16
	S.E.	N	1.31	0.65	0.58	N	0.00	1.48	1.17	N	5.59	3.70	3.09
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	19.15	39.92	35.10	N	236.72	11.29	58.01	N	119.30	22.25	55.03
	S.E.	N	6.03	13.20	10.24	N	189.48	7.54	39.72	N	65.73	15.19	24.38
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-107 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	16.23	0.00	5.81	N	11.86	0.00	5.67
	S.E.	N	9.13	0.00	3.27	N	11.86	0.00	5.67
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	222.34	78.28	129.87	N	48.18	34.71	41.15
	S.E.	N	73.25	73.59	54.03	N	33.48	33.39	23.66
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-107 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
10MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	0.00	N	0.00	0.52	0.03	0.05	0.09
	S.E.	N	0.00	N	0.00	0.38	0.02	0.03	0.04
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	0.00	N	0.00	6.68	6.14	1.66	3.25
	S.E.	N	0.00	N	0.00	3.20	2.04	0.49	0.67
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	104.98	N	104.98	3.07	73.68	17.94	30.14
	S.E.	N	104.98	N	104.98	2.48	20.99	6.43	6.66
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-108
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		BLUEBACK HERRING								YOUNG-OF-THE-YEAR			
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.48	2.42	0.40	0.82	2.81	3.87	0.00	1.88
	S.E.	0.00	N	0.00	0.00	0.24	1.35	0.40	0.32	0.99	1.06	0.00	0.43
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.61	0.26	0.45	6.51	0.00	1.60
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.61	0.26	0.25	2.00	0.00	0.45
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	1.25	1.10	0.81	3.66	0.00	1.01	0.00	5.08	0.00	1.12
	S.E.	0.00	N	1.25	1.10	0.54	0.93	0.00	0.27	0.00	3.18	0.00	0.70
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.99	0.00	0.19	0.00	3.92	0.00	0.86
	S.E.	0.00	N	0.00	0.00	0.00	0.72	0.00	0.14	0.00	1.12	0.00	0.25
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.77	2.43	0.00	0.82
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.84	0.00	0.24
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-108 (CONTINUED).

BLUEBACK HERRING — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
09AUG82	DENSITY	6.33	4.34	2.87	3.31	N	1.39	2.79	2.59	101.31	117.18	2.23	38.23
	S.E.	3.64	2.04	1.44	1.19	N	0.97	1.43	1.24	40.61	31.58	1.28	8.68
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	7.29	3.32	2.04	2.56	N	33.01	2.14	6.40	0.00	58.22	1.42	16.29
	S.E.	3.26	1.70	2.04	1.62	N	26.27	1.10	3.75	0.00	32.26	1.42	8.55
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.49	3.51	0.82	1.23	N	0.00	0.00	0.00	17.42	13.91	0.85	5.24
	S.E.	0.49	2.19	0.82	0.73	N	0.00	0.00	0.00	2.37	8.54	0.85	2.32
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	4.47	0.00	0.72	N	27.92	1.55	5.19	44.52	53.78	12.00	24.88
	S.E.	0.00	1.47	0.00	0.24	N	8.66	1.55	1.79	16.28	31.37	2.19	8.44
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	2.99	0.00	0.48	N	25.31	0.74	4.13	4.76	47.86	0.81	13.42
	S.E.	0.00	1.97	0.00	0.32	N	4.73	0.74	0.91	4.19	26.93	0.81	7.11
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-108 (CONTINUED).

BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	114.39	0.74	27.11	N	310.07	90.64	136.11	N	283.30	63.96	138.06
	S.E.	N	69.21	0.74	16.07	N	136.87	74.32	65.39	N	44.27	19.23	19.64
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	41.57	1.31	10.65	N	271.10	37.39	85.83	N	479.71	133.94	250.75
	S.E.	N	25.74	0.65	6.00	N	53.72	23.42	21.65	N	32.14	48.46	33.88
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	226.00	1.38	53.50	N	334.44	60.07	116.94	N	241.80	39.79	108.03
	S.E.	N	79.54	1.38	18.49	N	40.77	28.70	24.27	N	83.31	19.30	30.91
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	410.44	0.00	95.25	N	455.97	3.67	97.41	N	569.04	14.25	201.66
	S.E.	N	148.96	0.00	34.57	N	36.99	1.01	7.71	N	137.52	8.98	46.84
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	131.93	2.35	32.42	N	148.88	74.64	90.03	N	208.86	10.31	77.38
	S.E.	N	53.63	2.35	12.58	N	30.17	48.43	38.90	N	94.73	4.56	32.14
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-108 (CONTINUED).

WEEK BEGINNING MONDAY		BLUEBACK HERRING				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	416.50	4.00	151.72	N	356.98	28.40	185.43
	S.E.	N	83.07	2.11	29.78	N	38.06	16.54	20.13
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	257.21	41.73	118.90	N	214.04	33.31	119.69
	S.E.	N	69.97	30.49	31.79	N	22.00	9.89	11.71
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	176.06	9.15	68.92	N	20.55	5.55	12.72
	S.E.	N	64.23	3.18	23.09	N	8.94	2.59	4.48
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	166.58	18.14	71.30	N	142.14	24.93	80.95
	S.E.	N	32.47	15.91	15.48	N	14.30	12.87	9.58
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.42	9.02	5.94	N	19.41	0.79	9.69
	S.E.	N	0.28	3.46	2.23	N	7.14	0.79	3.44
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-108 (CONTINUED).

WEEK BEGINNING MONDAY		BLUEBACK HERRING				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	573.27	N	573.27	4.98	236.32	14.86	68.16
	S.E.	N	107.37	N	107.37	1.51	21.68	6.73	6.91
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	338.34	N	338.34	0.52	171.38	17.60	53.61
	S.E.	N	38.66	N	38.66	0.19	11.50	4.40	4.03
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	223.22	N	223.22	1.10	122.82	9.33	36.33
	S.E.	N	33.92	N	33.92	0.31	15.16	2.83	4.15
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	446.98	N	446.98	1.62	229.56	4.95	59.67
	S.E.	N	88.14	N	88.14	0.59	25.27	1.54	6.27
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	192.71	N	192.71	0.36	75.76	8.46	24.16
	S.E.	N	40.75	N	40.75	0.19	12.08	4.30	4.09
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-109
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.00	0.00	0.29	1.00	5.00	3.33	11.00	76.40	11.40	264.67	4.60	80.14	36.22
	S.E.	0.00	0.00	0.22	0.77	3.13	2.75	10.51	35.84	8.77	133.29	2.15	56.62	14.50
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	0.00	0.21	71.40	740.00	8.00	55.80	119.60	75.60	54.89	250.70	177.00	71.69
	S.E.	0.00	0.00	0.21	69.42	652.10	7.22	54.81	34.52	42.04	36.98	225.95	42.92	28.90
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.00	0.00	0.00	0.00	96.80	261.83	1270.8	746.40	40.80	185.44	6.90	59.00	103.02
	S.E.	0.00	0.00	0.00	0.00	38.58	118.78	678.23	309.09	28.40	149.35	4.97	29.76	33.25
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.00	0.00	0.00	0.60	1071.2	94.17	423.60	81.20	276.20	53.44	2.80	2.71	60.81
	S.E.	0.00	0.00	0.00	0.60	937.65	72.25	210.93	34.04	152.71	27.75	2.59	2.12	19.41
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.00	0.00	0.00	0.00	77.60	98.17	396.20	70.40	10.20	4.44	3.10	15.57	26.95
	S.E.	0.00	0.00	0.00	0.00	42.00	73.54	234.49	54.20	5.25	3.96	2.14	12.60	10.89
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-110
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

BLUEBACK HERRING — YEARLING

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-110 (CONTINUED).

BLUEBACK HERRING YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
09AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.44	0.00	0.12
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.44	0.00	0.12
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-110 (CONTINUED).

BLUEBACK HERRING YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.45	0.00	0.09	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.45	0.00	0.09	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-110 (CONTINUED).

WEEK BEGINNING MONDAY		BLUEBACK HERRING				YEARLING			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.19	0.00	0.07	N	0.00	0.00	0.00
	S.E.	N	0.19	0.00	0.07	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.15	0.00	0.07
	S.E.	N	0.00	0.00	0.00	N	0.15	0.00	0.07
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.19	0.00	0.07	N	0.00	0.00	0.00
	S.E.	N	0.19	0.00	0.07	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-110 (CONTINUED).

WEEK BEGINNING MONDAY		BLUEBACK HERRING				YEARLING			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	0.00	0.02	0.00	0.01
	S.E.	N	0.00	N	0.00	0.00	0.02	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	0.00	0.02	0.00	0.01
	S.E.	N	0.00	N	0.00	0.00	0.02	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	0.00	0.05	0.00	0.01
	S.E.	N	0.00	N	0.00	0.00	0.04	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	0.00	0.03	0.00	0.01
	S.E.	N	0.00	N	0.00	0.00	0.03	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-111
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

BLUEBACK HERRING YEARLING

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.01
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.45
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-112
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

BLUEBACK HERRING OLDER

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	S.E.	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-113
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		ALEWIFE							YOUNG-OF-THE-YEAR				
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.08	0.00	0.00	0.03	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.08	0.00	0.00	0.03	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.59	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.59	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-113 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE				YOUNG-OF-THE-YEAR							
		INDIAN POINT				WEST POINT				CORNWALL			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	1.61	0.00	0.00	0.10	N	0.00	0.00	0.00	5.22	1.01	0.00	0.57
	S.E.	1.18	0.00	0.00	0.07	N	0.00	0.00	0.00	2.20	0.62	0.00	0.21
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.76	0.00	0.00	0.05	N	0.00	0.00	0.00	0.94	0.00	0.00	0.05
	S.E.	0.48	0.00	0.00	0.03	N	0.00	0.00	0.00	0.58	0.00	0.00	0.03
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.92	0.00	0.00	0.06	N	0.00	0.00	0.00	0.99	0.00	0.00	0.06
	S.E.	0.92	0.00	0.00	0.06	N	0.00	0.00	0.00	0.61	0.00	0.00	0.04
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	3.87	0.00	0.59	0.63
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	1.21	0.00	0.59	0.41
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.45	0.00	0.00	0.03	N	0.48	0.00	0.07	1.44	1.00	0.00	0.35
	S.E.	0.45	0.00	0.00	0.03	N	0.48	0.00	0.07	1.44	0.61	0.00	0.18
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-113 (CONTINUED).

ALEWIFE — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	POUGHKEEPSIE B	POUGHKEEPSIE C	POUGHKEEPSIE R	HYDE PARK S	HYDE PARK B	HYDE PARK C	HYDE PARK R	KINGSTON S	KINGSTON B	KINGSTON C	KINGSTON R
09AUG82	DENSITY	N	2.66	0.00	0.62	N	7.55	0.61	2.05	N	4.82	1.14	2.38
	S.E.	N	1.51	0.00	0.35	N	2.93	0.61	0.78	N	2.04	0.73	0.84
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	5.59	0.00	1.16	N	15.85	5.84	9.22
	S.E.	N	0.00	0.00	0.00	N	2.81	0.00	0.58	N	2.50	4.26	2.95
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	1.94	3.74	3.37	N	9.03	0.34	3.27
	S.E.	N	0.00	0.00	0.00	N	1.94	1.32	1.12	N	4.20	0.34	1.44
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	2.99	0.00	0.69	N	12.99	0.52	3.10	N	5.80	0.73	2.44
	S.E.	N	1.92	0.00	0.44	N	10.39	0.52	2.19	N	1.50	0.73	0.70
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	1.91	0.00	0.64
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	1.39	0.00	0.47
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-113 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	4.56	0.00	1.63	N	1.06	0.00	0.51
	S.E.	N	1.83	0.00	0.66	N	0.50	0.00	0.24
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	4.20	0.75	1.98	N	4.70	0.73	2.63
	S.E.	N	1.90	0.75	0.83	N	1.87	0.73	0.97
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.69	0.00	0.25	N	0.00	0.00	0.00
	S.E.	N	0.51	0.00	0.18	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	3.43	1.29	2.06	N	1.89	0.73	1.28
	S.E.	N	1.30	0.91	0.75	N	0.75	0.73	0.52
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-113 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	3.38	N	3.38	0.32	2.37	0.13	0.70
	S.E.	N	1.99	N	1.99	0.11	0.46	0.07	0.12
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.88	N	0.88	0.08	2.95	0.55	1.09
	S.E.	N	0.43	N	0.43	0.03	0.44	0.29	0.22
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.32	N	0.32	0.09	1.01	0.35	0.49
	S.E.	N	0.32	N	0.32	0.06	0.39	0.12	0.12
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	4.22	N	4.22	0.14	2.86	0.27	0.89
	S.E.	N	2.22	N	2.22	0.04	0.77	0.11	0.20
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.57	N	0.57	0.08	0.33	0.00	0.09
	S.E.	N	0.37	N	0.37	0.06	0.14	0.00	0.03
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-114
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

ALEWIFE YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.00	0.08	0.07	2.80	3.40	1.33	0.00	1.40	0.40	0.67	0.00	0.00	0.42
	S.E.	0.00	0.06	0.07	1.16	3.40	0.80	0.00	0.75	0.40	0.33	0.00	0.00	0.11
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	0.29	1.07	4.80	6.40	10.33	1.40	1.00	2.00	1.67	0.10	0.00	1.60
	S.E.	0.00	0.19	0.71	2.63	3.54	9.17	0.75	0.63	1.05	1.67	0.10	0.00	0.63
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.00	0.50	0.36	0.40	11.60	1.67	0.00	0.60	0.00	0.22	0.20	0.00	0.55
	S.E.	0.00	0.39	0.36	0.40	5.82	1.67	0.00	0.60	0.00	0.22	0.20	0.00	0.19
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.00	0.00	0.36	0.20	4.40	1.00	0.40	0.40	0.40	0.00	0.00	0.00	0.24
	S.E.	0.00	0.00	0.36	0.20	2.69	1.00	0.24	0.24	0.24	0.00	0.00	0.00	0.10
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.20	0.13	0.07	0.00	2.20	3.83	0.60	0.00	0.00	0.00	2.30	0.00	0.62
	S.E.	0.20	0.09	0.07	0.00	2.20	3.27	0.40	0.00	0.00	0.00	1.54	0.00	0.28
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-115
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		ALEWIFE				YEARLING							
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.39	N	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.39	N	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.54	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.54	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-115 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE							YEARLING				
		INDIAN POINT				WEST POINT				CORNWALL			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.93	0.80	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.93	0.80	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.44	0.00	0.12
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.44	0.00	0.12
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.51	0.00	0.08	N	0.00	0.00	0.00	0.41	0.42	0.00	0.13
	S.E.	0.00	0.51	0.00	0.08	N	0.00	0.00	0.00	0.41	0.42	0.00	0.11
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	3.29	2.04	0.00	0.73
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	2.29	2.04	0.00	0.55
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-115 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE						YEARLING					
		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.48	0.57	0.54
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.32	0.57	0.39
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.26	0.00	0.09
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.26	0.00	0.09
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	0.38	0.00	0.09	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.38	0.00	0.09	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.94	0.00	0.22	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.94	0.00	0.22	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-115 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE				YEARLING			
			SAUGERTIES				CATSKILL		
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.59	0.00	0.21	N	0.00	0.00	0.00
	S.E.	N	0.42	0.00	0.15	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.19	0.00	0.07	N	0.00	0.00	0.00
	S.E.	N	0.19	0.00	0.07	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-115 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE				YEARLING			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	0.00	0.11	0.15	0.12
	S.E.	N	0.00	N	0.00	0.00	0.06	0.12	0.08
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	0.00	0.02	0.00	0.01
	S.E.	N	0.00	N	0.00	0.00	0.02	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	0.00	0.03	0.00	0.01
	S.E.	N	0.00	N	0.00	0.00	0.03	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	0.06	0.11	0.00	0.03
	S.E.	N	0.00	N	0.00	0.05	0.06	0.00	0.02
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	0.12	0.27	0.07	0.13
	S.E.	N	0.00	N	0.00	0.08	0.18	0.07	0.07
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-116
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

ALEWIFE YEARLING

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.20	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	S.E.	0.20	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	S.E.	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-117
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		BAY ANCHOVY							YOUNG-OF-THE-YEAR				
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	351.58	N	809.53	756.40	524.94	469.26	891.44	671.36	849.21	1100.99	497.69	758.72
	S.E.	86.12	N	175.75	155.69	52.11	137.21	405.33	176.93	84.26	161.88	141.01	75.10
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	1596.09	N	391.72	531.44	1209.49	595.65	578.58	820.48	1463.30	1804.93	1042.69	1363.91
	S.E.	238.51	N	106.96	98.52	109.88	128.10	112.82	68.40	267.45	180.94	269.42	153.67
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	1129.65	N	540.04	608.44	1182.50	4810.19	623.08	1642.66	1207.28	2616.35	1582.82	1673.19
	S.E.	289.95	N	106.09	99.63	145.92	1168.10	124.49	238.13	152.58	297.17	1339.89	562.69
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	980.90	N	534.14	585.97	994.95	2009.47	544.92	997.74	3042.78	2828.94	335.59	1872.16
	S.E.	291.46	N	161.14	146.40	75.26	625.38	99.53	131.14	418.74	890.23	76.36	250.45
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	139.79	N	245.66	233.38	395.80	896.77	184.16	401.72	304.49	1495.55	327.96	576.31
	S.E.	27.05	N	32.67	29.05	36.95	253.70	35.20	53.10	41.03	286.49	50.75	68.13
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-117 (CONTINUED).

BAY ANCHOVY — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
09AUG82	DENSITY	318.73	101.17	420.64	363.25	N	52.31	89.55	84.41	53.89	51.48	238.90	178.85
	S.E.	277.71	44.13	109.30	87.09	N	16.85	7.36	6.76	20.32	8.84	48.13	32.77
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	236.19	80.36	508.14	423.10	N	70.04	49.01	51.91	0.94	119.38	367.49	280.94
	S.E.	100.04	40.78	240.12	187.31	N	26.07	10.76	9.95	0.58	85.29	296.97	202.84
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	300.51	330.85	353.41	346.59	N	56.50	44.48	46.14	487.13	237.27	243.92	256.26
	S.E.	65.70	131.30	230.83	181.12	N	27.77	24.29	21.29	264.08	78.15	210.94	145.47
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	303.95	344.16	154.29	193.79	N	287.96	40.34	74.49	673.64	380.22	260.78	316.14
	S.E.	78.94	102.89	70.34	57.43	N	61.88	28.80	26.26	167.57	101.85	169.75	118.70
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	201.39	584.66	87.22	173.89	N	265.73	92.12	116.06	155.14	178.63	105.98	127.95
	S.E.	8.82	171.23	39.56	41.28	N	38.00	49.51	43.00	43.11	37.94	60.69	42.47
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-117 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	11.81	49.62	40.84	N	3.13	1.05	1.48	N	3.57	0.96	1.84
	S.E.	N	7.38	49.62	38.14	N	2.18	1.05	0.95	N	1.44	0.67	0.66
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	4.71	45.16	35.77	N	7.65	8.49	8.31	N	13.18	15.21	14.53
	S.E.	N	3.15	40.45	31.07	N	1.60	2.89	2.31	N	3.98	6.56	4.55
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	203.87	19.58	62.35	N	6.76	17.52	15.29	N	4.47	24.62	17.81
	S.E.	N	186.23	6.24	43.48	N	1.77	8.49	6.74	N	2.14	9.31	6.21
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	15.43	27.82	24.94	N	10.44	25.51	22.39	N	0.44	4.27	2.98
	S.E.	N	6.53	12.96	10.06	N	1.83	7.32	5.82	N	0.29	1.34	0.89
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	80.06	301.78	250.33	N	5.92	1.82	2.67	N	1.12	1.47	1.35
	S.E.	N	23.05	113.89	87.62	N	2.45	1.82	1.53	N	0.61	1.47	0.99
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-117 (CONTINUED).

WEEK BEGINNING MONDAY		BAY ANCHOVY				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	0.35	0.23	N	1.03	0.00	0.49
	S.E.	N	0.00	0.35	0.23	N	0.48	0.00	0.23
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	3.14	9.28	7.08	N	1.81	0.00	0.86
	S.E.	N	0.89	8.03	5.16	N	0.74	0.00	0.35
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.84	0.00	0.30	N	0.16	0.00	0.08
	S.E.	N	0.66	0.00	0.24	N	0.16	0.00	0.08
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.19	0.00	0.09
	S.E.	N	0.00	0.00	0.00	N	0.19	0.00	0.09
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.35	0.00	0.12	N	0.00	0.00	0.00
	S.E.	N	0.35	0.00	0.12	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-117 (CONTINUED).

WEEK BEGINNING MONDAY		BAY ANCHOVY				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	553.89	131.13	292.97	278.95
	S.E.	N	0.00	N	0.00	39.71	18.27	47.20	31.56
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.54	N	0.54	1218.07	191.33	243.94	326.81
	S.E.	N	0.36	N	0.36	92.87	18.89	39.10	27.64
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	1107.06	755.37	261.96	465.95
	S.E.	N	0.00	N	0.00	94.93	134.06	64.88	54.60
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.91	N	0.91	1437.72	453.44	182.12	372.04
	S.E.	N	0.44	N	0.44	114.93	87.69	27.72	30.34
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	323.44	258.80	138.01	185.84
	S.E.	N	0.00	N	0.00	22.77	34.77	20.26	15.96
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-118
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

BAY ANCHOVY YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	5.20	14.04	0.14	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.53
	S.E.	4.27	10.04	0.14	27.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.08
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	11.80	217.46	0.00	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.48
	S.E.	7.60	189.74	0.00	16.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.68
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	100.60	3.83	0.00	37.60	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.65
	S.E.	86.64	2.50	0.00	23.04	6.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.09
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	9.40	4.00	2.29	0.00	0.00	0.00	44.00	0.00	0.00	0.00	0.00	0.00	3.68
	S.E.	7.05	3.06	2.14	0.00	0.00	0.00	44.00	0.00	0.00	0.00	0.00	0.00	2.06
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	17.20	1.79	9.00	16.80	3.40	0.17	13.40	0.00	0.00	0.00	0.00	0.00	4.19
	S.E.	11.53	0.73	6.31	10.97	3.40	0.17	12.91	0.00	0.00	0.00	0.00	0.00	1.39
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-119
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		BAY ANCHOVY				YEARLING							
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	32.82	N	9.26	11.99	53.79	4.00	7.41	24.30	51.23	21.93	4.88	25.55
	S.E.	9.38	N	0.99	1.40	6.65	1.84	2.50	2.76	7.08	7.42	4.88	3.67
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	26.17	N	4.14	6.70	41.04	12.57	12.18	23.17	19.37	48.28	0.85	18.05
	S.E.	3.55	N	1.15	1.10	5.84	3.02	5.97	3.43	6.33	7.89	0.85	2.91
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	35.60	N	1.19	5.19	22.65	14.13	11.07	16.04	9.61	28.14	0.00	9.70
	S.E.	15.15	N	0.73	1.87	3.03	3.52	2.48	1.71	1.60	4.41	0.00	1.13
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	27.37	N	0.00	3.17	6.82	16.02	0.82	6.02	8.85	19.05	0.60	7.67
	S.E.	14.45	N	0.00	1.68	1.19	3.46	0.82	0.88	2.22	4.33	0.60	1.28
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	2.93	N	2.96	2.96	2.42	2.92	0.63	1.75	1.38	0.35	0.00	0.58
	S.E.	1.62	N	1.37	1.23	0.49	1.13	0.63	0.39	0.50	0.35	0.00	0.20
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-119 (CONTINUED).

BAY ANCHOVY YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
09AUG82	DENSITY	36.45	28.82	65.35	57.74	N	26.14	60.00	55.33	239.16	70.31	17.43	44.19
	S.E.	9.90	7.99	26.11	20.39	N	4.22	27.63	23.82	125.64	10.63	14.01	12.30
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	11.40	12.99	3.39	5.42	N	21.93	25.69	25.17	0.91	46.57	155.62	117.95
	S.E.	2.61	6.08	3.39	2.82	N	8.76	16.00	13.85	0.56	25.98	94.43	64.46
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	20.64	19.55	2.45	6.29	N	8.96	1.92	2.89	387.43	35.15	5.06	35.14
	S.E.	7.60	9.62	2.45	2.50	N	2.60	1.92	1.69	88.49	11.69	2.93	6.30
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	4.35	11.42	0.00	2.09	N	5.58	3.27	3.59	94.16	24.11	23.11	27.49
	S.E.	2.34	2.94	0.00	0.49	N	2.14	1.64	1.44	25.51	10.99	11.30	8.33
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.89	0.84	0.00	0.19	N	10.02	3.13	4.08	31.14	6.09	2.51	5.11
	S.E.	0.89	0.52	0.00	0.10	N	2.12	1.57	1.38	19.27	2.63	1.40	1.62
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-119 (CONTINUED).

BAY ANCHOVY YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	57.31	2.91	15.53	N	6.84	3.19	3.95	N	0.51	0.00	0.17
	S.E.	N	17.35	0.64	4.06	N	2.79	2.41	1.99	N	0.51	0.00	0.17
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	12.29	0.72	3.41	N	1.43	1.54	1.52	N	1.43	0.78	1.00
	S.E.	N	11.20	0.72	2.66	N	0.75	1.54	1.23	N	0.71	0.50	0.41
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	11.82	3.80	5.66	N	1.29	1.86	1.74	N	0.54	0.79	0.70
	S.E.	N	10.03	2.10	2.83	N	0.89	1.28	1.03	N	0.35	0.51	0.36
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	6.65	0.70	2.08	N	3.62	1.59	2.01	N	0.47	3.20	2.28
	S.E.	N	4.13	0.70	1.10	N	1.80	1.00	0.88	N	0.31	1.42	0.95
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	12.30	0.00	2.86	N	0.45	0.00	0.09	N	0.00	0.44	0.29
	S.E.	N	8.58	0.00	1.99	N	0.45	0.00	0.09	N	0.00	0.44	0.29
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-119 (CONTINUED).

WEEK BEGINNING MONDAY		BAY ANCHOVY				YEARLING			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.20	0.00	0.07	N	0.00	0.00	0.00
	S.E.	N	0.20	0.00	0.07	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-119 (CONTINUED).

WEEK BEGINNING MONDAY		BAY ANCHOVY				YEARLING			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	56.43	17.07	18.32	21.76
	S.E.	N	0.00	N	0.00	6.21	2.39	4.48	3.06
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	30.89	10.99	15.40	15.84
	S.E.	N	0.00	N	0.00	3.57	2.36	6.36	4.23
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	34.19	8.79	2.81	7.36
	S.E.	N	0.00	N	0.00	4.08	1.65	0.58	0.69
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	12.80	6.57	2.42	4.45
	S.E.	N	0.00	N	0.00	2.14	1.03	0.77	0.60
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	3.19	2.88	1.02	1.69
	S.E.	N	0.00	N	0.00	0.78	1.10	0.29	0.34
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-120
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

BAY ANCHOVY YEARLING

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.80	0.21	0.21	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76
	S.E.	0.58	0.13	0.21	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.61
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.40	0.29	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
	S.E.	0.24	0.19	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	1.60	0.67	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
	S.E.	1.36	0.59	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	1.40	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
	S.E.	0.98	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	8.20	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
	S.E.	5.84	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-121
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

BAY ANCHOVY — OLDER

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.96	0.00	0.00	0.36	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.96	0.00	0.00	0.36	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-121 (CONTINUED).

BAY ANCHOVY OLDER

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
09AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-121 (CONTINUED).

BAY ANCHOVY OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.75	0.00	0.16	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.75	0.00	0.16	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-121 (CONTINUED).

WEEK BEGINNING MONDAY		BAY ANCHOVY				OLDER			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-121 (CONTINUED).

WEEK BEGINNING MONDAY		BAY ANCHOVY				OLDER			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	0.52	0.00	0.00	0.05
	S.E.	N	0.00	N	0.00	0.52	0.00	0.00	0.05
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	0.00	0.05	0.00	0.01
	S.E.	N	0.00	N	0.00	0.00	0.05	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-122
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		WEAKFISH				YOUNG-OF-THE-YEAR							
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	65.46	N	22.43	27.42	15.54	8.64	14.48	13.75	9.39	22.08	8.37	11.76
	S.E.	18.76	N	5.94	5.68	2.85	5.33	6.15	3.03	2.25	8.54	4.36	2.73
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	15.24	N	3.62	4.97	3.54	5.97	1.99	3.34	0.46	8.09	3.46	3.39
	S.E.	3.60	N	1.76	1.61	0.75	1.68	0.84	0.56	0.25	1.80	2.31	1.04
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	26.36	N	0.57	3.56	6.63	8.81	2.65	5.34	0.55	8.75	0.00	2.13
	S.E.	13.63	N	0.57	1.66	1.67	2.46	1.12	0.92	0.40	3.00	0.00	0.68
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	19.64	N	0.00	2.28	0.27	2.97	0.32	0.81	0.00	5.35	0.00	1.18
	S.E.	9.71	N	0.00	1.13	0.20	0.99	0.32	0.25	0.00	1.45	0.00	0.32
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	1.12	N	0.00	0.13	0.36	0.40	0.32	0.35	0.00	0.00	0.00	0.00
	S.E.	0.53	N	0.00	0.06	0.17	0.40	0.32	0.17	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-122 (CONTINUED).

WEAKFISH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
09AUG82	DENSITY	27.21	57.72	43.19	44.55	N	28.11	33.48	32.74	0.00	0.00	0.00	0.00
	S.E.	5.82	13.88	21.24	16.71	N	11.53	15.62	13.56	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	1.85	8.90	2.71	3.65	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.70	5.80	2.71	2.31	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	6.28	20.71	7.07	9.21	N	4.68	3.92	4.02	0.00	0.49	0.00	0.13
	S.E.	2.93	8.76	4.83	4.02	N	1.48	3.92	3.38	0.00	0.49	0.00	0.13
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	1.86	0.00	0.30	N	1.43	0.00	0.20	3.76	0.44	0.00	0.33
	S.E.	0.00	0.48	0.00	0.08	N	0.98	0.00	0.14	3.23	0.44	0.00	0.22
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.36	2.01	0.00	0.34	N	2.68	0.00	0.37	1.86	1.65	0.00	0.54
	S.E.	0.36	1.51	0.00	0.24	N	2.10	0.00	0.29	1.86	0.69	0.00	0.21
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-122 (CONTINUED).

WEAKFISH . YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-122 (CONTINUED).

WEEK BEGINNING MONDAY		WEAKFISH				YOUNG-OF-THE-YEAR			
			SAUGERTIES.				CATSKILL		
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-122 (CONTINUED).

WEEK BEGINNING MONDAY		WEAKFISH				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	20.11	7.17	13.47	12.58
	S.E.	N	0.00	N	0.00	2.80	1.29	3.14	2.11
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	3.97	1.67	1.12	1.53
	S.E.	N	0.00	N	0.00	0.60	0.41	0.40	0.29
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	7.25	3.01	1.56	2.48
	S.E.	N	0.00	N	0.00	1.87	0.63	0.72	0.53
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	2.63	0.86	0.03	0.49
	S.E.	N	0.00	N	0.00	1.17	0.15	0.03	0.12
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	0.42	0.41	0.03	0.16
	S.E.	N	0.00	N	0.00	0.13	0.15	0.03	0.04
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-123
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

WEAKFISH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
	S.E.	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
	S.E.	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	S.E.	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	S.E.	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	S.E.	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-124
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE CATFISH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
10MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.12
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.12
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16

N -- STRATUM NOT SAMPLED

TABLE B-124 (CONTINUED).

WHITE CATFISH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
10MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28

N -- STRATUM NOT SAMPLED

TABLE B-124 (CONTINUED).

WHITE CATFISH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10

N -- STRATUM NOT SAMPLED

TABLE B-124 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	4	2	6	N	3	3	6

N -- STRATUM NOT SAMPLED

TABLE B-124 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	DENSITY	N	0.00	N	0.00	0.00	0.03	0.00	0.01
	S.E.	N	0.00	N	0.00	0.00	0.03	0.00	0.01
	NO. TOWS	N	3	N	3	16	62	109	187

N -- STRATUM NOT SAMPLED

TABLE B-125
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE CATFISH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-125 (CONTINUED).

WHITE CATFISH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
09AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-125 (CONTINUED).

WHITE CATFISH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	POUGHKEEPSIE B	POUGHKEEPSIE C	POUGHKEEPSIE R	HYDE PARK S	HYDE PARK B	HYDE PARK C	HYDE PARK R	KINGSTON S	KINGSTON B	KINGSTON C	KINGSTON R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.40	0.00	0.08	N	0.47	0.00	0.16
	S.E.	N	0.00	0.00	0.00	N	0.40	0.00	0.08	N	0.47	0.00	0.16
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.96	0.76	N	1.09	0.34	0.59
	S.E.	N	0.00	0.00	0.00	N	0.00	0.96	0.76	N	1.09	0.34	0.43
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	1.72	0.00	0.40	N	0.38	0.00	0.08	N	0.67	0.00	0.23
	S.E.	N	0.82	0.00	0.19	N	0.38	0.00	0.08	N	0.34	0.00	0.11
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.29	0.00	0.10
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.29	0.00	0.10
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-125 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.41	0.00	0.15	N	1.46	0.00	0.70
	S.E.	N	0.28	0.00	0.10	N	0.37	0.00	0.18
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.36	0.00	0.13	N	2.38	0.00	1.14
	S.E.	N	0.24	0.00	0.09	N	0.81	0.00	0.39
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	1.08	0.00	0.39	N	4.33	0.00	2.07
	S.E.	N	0.50	0.00	0.18	N	1.34	0.00	0.64
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.75	0.00	0.27	N	1.08	0.37	0.71
	S.E.	N	0.32	0.00	0.12	N	0.35	0.37	0.26
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	3.09	0.00	1.11	N	3.32	0.00	1.59
	S.E.	N	1.12	0.00	0.40	N	0.83	0.00	0.40
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-125 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	2.87	N	2.87	0.00	0.62	0.00	0.15
	S.E.	N	1.06	N	1.06	0.00	0.15	0.00	0.04
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	1.16	N	1.16	0.00	0.58	0.00	0.14
	S.E.	N	0.61	N	0.61	0.00	0.15	0.00	0.04
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	5.38	N	5.38	0.00	1.50	0.11	0.44
	S.E.	N	1.77	N	1.77	0.00	0.31	0.09	0.10
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	3.52	N	3.52	0.00	0.98	0.02	0.25
	S.E.	N	1.29	N	1.29	0.00	0.21	0.02	0.05
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.92	N	0.92	0.00	0.95	0.00	0.23
	S.E.	N	0.92	N	0.92	0.00	0.21	0.00	0.05
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-126
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE CATFISH — YEARLING

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-126 (CONTINUED).

WHITE CATFISH YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
09AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-126 (CONTINUED).

WHITE CATFISH YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-126 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH				YEARLING			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-126 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH				YEARLING			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.40	N	0.40	0.00	0.05	0.00	0.01
	S.E.	N	0.40	N	0.40	0.00	0.05	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-127
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE CATFISH OLDER

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.35	0.00	0.07	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.35	0.00	0.07	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-127 (CONTINUED).

WHITE CATFISH OLDER

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
09AUG82	DENSITY	1.18	0.00	0.00	0.07	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	1.18	0.00	0.00	0.07	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.52	0.00	0.08	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.52	0.00	0.08	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-127 (CONTINUED).

WHITE CATFISH OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	POUGHKEEPSIE B	POUGHKEEPSIE C	POUGHKEEPSIE R	HYDE PARK S	HYDE PARK B	HYDE PARK C	HYDE PARK R	KINGSTON S	KINGSTON B	KINGSTON C	KINGSTON R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.40	0.00	0.08	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.40	0.00	0.08	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	0.44	0.00	0.10	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.44	0.00	0.10	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-127 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH				OLDER			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.82	0.00	0.29	N	0.59	0.00	0.28
	S.E.	N	0.63	0.00	0.23	N	0.44	0.00	0.21
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.37	0.00	0.13	N	0.31	0.00	0.15
	S.E.	N	0.25	0.00	0.09	N	0.21	0.00	0.10
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.36	0.00	0.17
	S.E.	N	0.00	0.00	0.00	N	0.25	0.00	0.12
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.40	0.00	0.14	N	0.00	0.00	0.00
	S.E.	N	0.40	0.00	0.14	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.48	0.00	0.17	N	0.00	0.00	0.00
	S.E.	N	0.32	0.00	0.12	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-127 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH				OLDER			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	0.07	0.21	0.00	0.06
	S.E.	N	0.00	N	0.00	0.07	0.10	0.00	0.03
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	0.00	0.11	0.00	0.03
	S.E.	N	0.00	N	0.00	0.00	0.05	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	1.86	N	1.86	0.00	0.29	0.00	0.07
	S.E.	N	1.86	N	1.86	0.00	0.24	0.00	0.06
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.60	N	0.60	0.00	0.18	0.00	0.04
	S.E.	N	0.39	N	0.39	0.00	0.09	0.00	0.02
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	1.68	N	1.68	0.00	0.30	0.00	0.07
	S.E.	N	0.79	N	0.79	0.00	0.11	0.00	0.03
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-128
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE CATFISH OLDER

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.00	0.63	0.07	0.80	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.24
	S.E.	0.00	0.41	0.07	0.80	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	1.31
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	0.08	0.14	0.00	0.00	0.00	0.00	0.20	0.20	0.00	0.00	0.00	0.06
	S.E.	0.00	0.08	0.14	0.00	0.00	0.00	0.00	0.20	0.20	0.00	0.00	0.00	0.79
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.03
	S.E.	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.53
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.00	0.04	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.02
	S.E.	0.00	0.04	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.49
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-129
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		SPOTTAIL SHINER							YOUNG-OF-THE-YEAR				
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-129 (CONTINUED).

SPOTTAIL SHINER YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
09AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-129 (CONTINUED).

SPOTTAIL SHINER — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	POUGHKEEPSIE B	POUGHKEEPSIE C	POUGHKEEPSIE R	HYDE PARK S	HYDE PARK B	HYDE PARK C	HYDE PARK R	KINGSTON S	KINGSTON B	KINGSTON C	KINGSTON R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.23	0.00	0.08
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.23	0.00	0.08
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-129 (CONTINUED).

WEEK BEGINNING MONDAY		SPOTTAIL SHINER				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-129 (CONTINUED).

WEEK BEGINNING MONDAY		SPOTTAIL SHINER				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	0.00	0.02	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.02	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-130
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

SPOTTAIL SHINER YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.00	0.38	3.07	5.80	12.80	0.50	3.40	23.20	2.60	0.89	3.30	1.14	2.14
	S.E.	0.00	0.33	2.34	5.80	4.83	0.34	2.11	16.06	2.14	0.45	2.62	0.63	0.62
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	0.00	0.21	5.60	6.20	6.33	5.80	18.80	28.00	3.22	0.50	15.71	4.27
	S.E.	0.00	0.00	0.15	3.56	3.44	3.54	2.37	6.03	12.47	1.86	0.40	14.74	1.39
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.00	0.04	0.36	1.60	16.40	5.17	10.00	24.00	7.00	4.11	1.30	1.71	2.39
	S.E.	0.00	0.04	0.36	1.60	9.86	2.12	9.75	10.28	4.10	1.98	1.01	1.13	0.57
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.00	0.13	0.50	6.80	18.00	3.83	10.40	13.40	11.80	7.56	2.00	0.14	3.15
	S.E.	0.00	0.13	0.37	6.08	7.45	2.51	8.93	4.57	6.26	3.39	1.04	0.14	0.73
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.00	0.00	0.21	1.00	8.00	2.17	13.20	8.00	8.20	2.33	3.60	0.57	2.07
	S.E.	0.00	0.00	0.21	1.00	3.49	0.87	5.67	3.91	5.97	1.38	1.86	0.30	0.47
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-131
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

SPOTTAIL SHINER — YEARLING

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-131 (CONTINUED).

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
09AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.51	0.00	0.00	0.03
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.51	0.00	0.00	0.03
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-131 (CONTINUED).

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	1.03	0.00	0.24	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.63	0.00	0.15	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	1.30	0.00	0.44
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	1.07	0.00	0.36
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.48	0.00	0.11	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.48	0.00	0.11	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	1.68	0.00	0.39	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	1.21	0.00	0.28	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.45	0.53	0.52	N	0.58	0.00	0.20
	S.E.	N	0.00	0.00	0.00	N	0.45	0.53	0.43	N	0.39	0.00	0.13
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-131 (CONTINUED).

WEEK BEGINNING MONDAY		SPOTTAIL SHINER				YEARLING			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-131 (CONTINUED).

WEEK BEGINNING MONDAY		SPOTTAIL SHINER				YEARLING			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	1.39	N	1.39	0.02	0.31	0.00	0.08
	S.E.	N	0.83	N	0.83	0.02	0.13	0.00	0.03
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.24	N	0.24	0.00	0.14	0.00	0.04
	S.E.	N	0.24	N	0.24	0.00	0.10	0.00	0.02
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	0.00	0.06	0.00	0.01
	S.E.	N	0.00	N	0.00	0.00	0.06	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.26	N	0.26	0.00	0.24	0.00	0.06
	S.E.	N	0.26	N	0.26	0.00	0.15	0.00	0.04
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	1.73	N	1.73	0.00	0.30	0.05	0.10
	S.E.	N	0.73	N	0.73	0.00	0.10	0.05	0.04
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-132
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.00	0.00	0.00	0.00	5.20	0.17	0.00	4.20	3.80	1.89	0.00	0.00	0.51
	S.E.	0.00	0.00	0.00	0.00	4.95	0.17	0.00	1.66	2.46	0.73	0.00	0.00	3.91
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	0.00	0.07	0.00	2.80	5.17	0.00	1.80	0.80	2.00	0.00	1.00	0.72
	S.E.	0.00	0.00	0.07	0.00	2.13	3.03	0.00	0.97	0.58	1.04	0.00	1.00	3.69
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.00	0.04	0.00	0.00	1.60	2.00	2.40	2.60	0.00	1.56	0.10	0.57	0.50
	S.E.	0.00	0.04	0.00	0.00	0.68	2.00	2.40	1.66	0.00	0.88	0.10	0.43	3.30
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.00	0.00	0.00	0.40	8.40	1.50	9.00	4.40	1.40	4.56	0.10	0.14	1.22
	S.E.	0.00	0.00	0.00	0.40	4.79	1.50	3.56	1.17	1.17	3.05	0.10	0.14	5.47
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.00	0.00	0.00	0.20	7.80	4.67	9.20	3.60	6.40	3.00	5.60	0.14	2.13
	S.E.	0.00	0.00	0.00	0.20	6.15	2.42	5.07	1.57	5.42	1.47	3.25	0.14	6.37
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-133
CATCH PER UNIT EFFORT (NUMBER PER HAUL) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

SPOTTAIL SHINER OLDER

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.02
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.63
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	DENSITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100

TABLE B-134
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.36	0.00	0.07	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.36	0.00	0.07	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-134 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
09AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.48	0.00	0.07	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.48	0.00	0.07	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.51	0.00	0.07	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.51	0.00	0.07	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-134 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	POUGHKEEPSIE B	POUGHKEEPSIE C	POUGHKEEPSIE R	HYDE PARK S	HYDE PARK B	HYDE PARK C	HYDE PARK R	KINGSTON S	KINGSTON B	KINGSTON C	KINGSTON R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.40	0.00	0.08	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.40	0.00	0.08	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-134 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-134 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
09AUG82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	0.00	0.09	0.00	0.02
	S.E.	N	0.00	N	0.00	0.00	0.05	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	0.00	0.03	0.00	0.01
	S.E.	N	0.00	N	0.00	0.00	0.03	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

TABLE B-135
DENSITY (NUMBER PER 1000 M3) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

SHORTNOSE STURGEON OLDER

WEEK BEGINNING MONDAY		YONKERS S	YONKERS B	YONKERS C	YONKERS R	TAPPAN ZEE S	TAPPAN ZEE B	TAPPAN ZEE C	TAPPAN ZEE R	CROTON-HAVERSTRAW S	CROTON-HAVERSTRAW B	CROTON-HAVERSTRAW C	CROTON-HAVERSTRAW R
09AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	DENSITY	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27

N -- STRATUM NOT SAMPLED

TABLE B-135 (CONTINUED).

SHORTNOSE STURGEON OLDER

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	WEST POINT S	WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
09AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	DENSITY	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	S.E.	0.00	0.00	0.00	0.00	N	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13

N -- STRATUM NOT SAMPLED

TABLE B-135 (CONTINUED).

SHORTNOSE STURGEON OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.48	0.00	0.10	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.48	0.00	0.10	N	0.00	0.00	0.00
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15

N -- STRATUM NOT SAMPLED

TABLE B-135 (CONTINUED).

WEEK BEGINNING MONDAY		SHORTNOSE STURGEON				OLDER			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	DENSITY	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	S.E.	N	0.00	0.00	0.00	N	0.00	0.00	0.00
	NO. TOWS	N	12	6	18	N	15	6	21

N -- STRATUM NOT SAMPLED

TABLE B-135 (CONTINUED).

WEEK BEGINNING MONDAY		SHORTNOSE STURGEON				OLDER			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	DENSITY	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	S.E.	N	0.00	N	0.00	0.00	0.00	0.00	0.00
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	DENSITY	N	0.00	N	0.00	0.00	0.03	0.00	0.01
	S.E.	N	0.00	N	0.00	0.00	0.03	0.00	0.01
	NO. TOWS	N	8	N	8	64	86	50	200

N -- STRATUM NOT SAMPLED

APPENDIX C

WATER QUALITY DATA

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ICHTHYOPLANKTON AND FALL SHOALS MEAN WATER TEMPERATURE.	C-1
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TABLE C-1
WEIGHTED MEAN WATER TEMPERATURE (°C) BY REGION AND WEEK, HUDSON RIVER ESTUARY, 1982
(ASSOCIATED WITH THE LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEYS).

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
10MAY82	13.79	14.06	15.36	14.43	13.29	13.35	13.15	13.08	12.97	12.97	12.97	13.07
17MAY82	15.03	15.51	16.99	15.12	18.56	16.41	15.56	15.62	16.21	16.46	16.70	16.49
24MAY82	15.90	16.51	15.68	15.91	17.01	17.13	17.02	17.42	17.51	17.22	17.22	17.79
31MAY82	17.91	18.84	18.56	17.91	18.47	18.56	18.64	19.15	19.56	20.09	19.68	19.60
07JUN82	18.41	19.05	18.32	18.60	18.94	19.29	18.44	17.53	16.66	16.85	17.25	16.61
14JUN82	18.53	19.54	19.27	19.07	18.58	18.33	18.07	17.80	17.63	17.33	17.42	17.26
21JUN82	20.44	21.06	20.77	20.25	20.07	20.12	19.64	20.20	20.13	20.13	19.95	20.20
28JUN82	21.56	22.42	22.68	21.73	21.46	21.37	21.33	21.43	21.77	21.85	22.09	21.90
05JUL82	20.58	22.81	22.76	22.07	22.43	23.01	22.98	22.33	21.97	21.92	21.92	21.64
09AUG82	24.43	25.34	25.85	25.93	25.67	25.70	25.92	25.22	24.76	25.17	25.29	25.90
23AUG82	22.99	23.37	24.71	33.00	29.79	27.26	26.92	25.58	24.98	24.62	25.17	25.32
06SEP82	21.31	22.02	22.27	23.03	23.13	23.04	23.15	21.92	21.68	21.72	21.80	21.62
20SEP82	20.06	20.10	21.34	22.07	22.05	21.91	22.07	20.92	20.41	19.69	19.47	20.33
04OCT82	19.62	19.66	20.24	20.06	20.40	20.67	20.24	19.12	18.68	18.47	18.79	18.98

TABLE C-2
MEAN WATER TEMPERATURE (°C) BY REGION AND WEEK, HUDSON RIVER ESTUARY, 1982
(ASSOCIATED WITH THE BEACH SEINE SURVEY).

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
16AUG82	24.70	25.74	26.03	26.20	25.46	25.42	26.38	25.16	25.32	24.90	25.30	25.41
30AUG82	21.90	21.89	22.93	24.22	24.00	23.23	23.52	20.90	20.70	22.22	21.10	21.86
13SEP82	21.62	23.29	23.78	24.06	23.36	22.78	23.80	22.26	22.30	21.93	23.48	22.30
27SEP82	20.02	20.61	20.61	21.70	20.40	19.82	20.72	19.36	18.92	19.71	19.09	18.84
11OCT82	18.04	17.91	18.29	18.88	19.18	18.68	19.08	18.36	17.10	17.14	18.31	17.59

TABLE C-3
WEIGHTED MEAN DISSOLVED OXYGEN (MG/L) BY REGION AND WEEK, HUDSON RIVER ESTUARY, 1982
(ASSOCIATED WITH THE LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEYS).

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
10MAY82	7.76	7.87	10.17	9.40	8.85	8.72	8.84	8.42	8.91	8.71	9.02	8.72
17MAY82	8.35	7.83	7.91	8.84	11.77	8.56	8.06	8.22	8.88	8.04	7.40	7.02
24MAY82	6.65	8.14	8.25	7.83	7.74	8.05	7.77	7.83	7.55	6.97	6.57	6.46
31MAY82	NS	NS	NS	13.00	11.28	9.64	7.22	7.59	7.42	6.37	6.89	6.31
07JUN82	7.12	7.99	8.82	7.94	7.79	7.86	7.61	7.34	7.41	7.32	NS	NS
14JUN82	8.99	8.52	9.34	8.49	8.01	7.37	6.85	7.57	10.42	8.39	8.25	8.12
21JUN82	8.54	8.38	7.88	8.19	8.54	8.73	8.69	8.67	NS	NS	NS	NS
28JUN82	5.88	7.68	7.82	7.96	7.51	7.82	8.45	8.41	8.51	10.02	10.86	9.27
05JUL82	5.60	5.61	6.42	6.31	7.62	8.80	7.73	8.28	7.98	8.55	9.22	7.85
09AUG82	3.47	6.11	6.15	6.04	6.14	7.26	7.17	7.67	7.87	8.21	8.29	7.25
23AUG82	5.47	6.69	6.86	6.11	7.09	7.63	7.06	7.34	7.89	8.55	8.33	7.62
06SEP82	4.94	6.11	6.63	6.61	6.38	6.65	6.50	7.59	8.47	8.70	8.06	7.01
20SEP82	5.48	7.05	7.18	6.59	6.73	7.10	6.69	6.92	7.63	7.47	7.78	6.65
04OCT82	5.66	6.91	7.13	7.54	7.39	7.74	7.49	8.14	8.06	9.06	8.62	7.71

NS=NOT SAMPLED

TABLE C-4
MEAN DISSOLVED OXYGEN (MG/L) BY REGION AND WEEK, HUDSON RIVER ESTUARY, 1982
(ASSOCIATED WITH THE BEACH SEINE SURVEY).

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
16AUG82	5.56	8.34	8.58	7.34	7.12	8.45	8.68	8.14	10.20	9.52	9.08	8.74
30AUG82	6.10	8.04	7.79	7.02	7.06	7.92	6.84	7.60	7.92	10.61	8.79	7.51
13SEP82	4.08	7.41	7.79	7.08	6.70	6.68	8.24	7.42	9.32	9.14	9.41	7.50
27SEP82	7.06	8.35	7.22	7.78	7.52	7.47	7.78	8.36	8.64	9.07	8.91	7.76
11OCT82	5.70	8.07	8.46	7.42	7.82	7.73	7.54	7.78	9.50	9.19	10.07	8.49

TABLE C-5
WEIGHTED MEAN CONDUCTIVITY (MILLI SIEMENS/CM) BY REGION AND WEEK, HUDSON RIVER ESTUARY, 1982
(ASSOCIATED WITH THE LONG RIVER ICHTHYOPLANKTON AND FALL SHOALS SURVEYS).

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
10MAY82	1.301	0.849	0.422	0.115	0.155	0.149	0.139	0.131	NS	NS	0.139	0.142
17MAY82	5.836	5.246	5.210	3.284	1.994	0.473	0.131	0.130	0.133	0.141	0.148	0.148
24MAY82	15.890	10.856	7.124	4.629	0.729	0.166	0.144	0.146	0.155	0.159	0.167	0.176
31MAY82	1.952	0.861	0.477	0.416	0.202	0.172	0.159	0.170	0.177	0.186	0.205	0.201
07JUN82	3.871	0.372	0.281	0.185	0.200	0.208	0.218	0.206	0.210	0.131	0.034	0.041
14JUN82	1.194	0.342	0.205	0.197	0.199	0.189	0.186	0.173	0.140	0.025	0.028	0.032
21JUN82	1.172	0.413	0.322	0.228	0.203	0.207	0.203	0.135	0.060	0.101	0.206	0.027
28JUN82	12.487	2.263	0.351	0.129	0.029	0.027	0.027	0.027	0.030	0.026	0.024	0.028
05JUL82	14.210	6.915	1.005	0.447	0.306	0.027	0.028	0.029	0.029	0.030	0.029	0.026
09AUG82	22.823	12.886	9.331	5.571	3.083	0.489	0.231	0.221	0.278	0.246	0.264	0.283
23AUG82	20.564	12.327	7.627	4.222	1.571	0.963	0.413	0.299	0.284	0.307	0.309	0.310
06SEP82	23.868	14.041	9.737	6.128	3.970	1.885	0.357	0.234	0.229	0.228	0.230	0.224
20SEP82	20.613	12.317	10.001	6.780	3.790	2.402	0.540	0.338	0.342	0.332	0.331	0.324
04OCT82	18.464	14.755	11.108	9.772	5.377	3.590	1.597	0.240	0.235	0.224	0.217	0.213

NS=NOT SAMPLED

TABLE C-6
MEAN CONDUCTIVITY (MILLI SIEMENS/CM) BY REGION AND WEEK, HUDSON RIVER ESTUARY, 1982
(ASSOCIATED WITH THE BEACH SEINE SURVEY).

WEEK BEGINNING MONDAY	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL
16AUG82	17.474	11.551	7.413	5.842	1.672	0.526	0.294	0.221	0.122	0.124	0.130	0.118
30AUG82	20.068	10.834	8.099	7.152	4.071	0.872	0.282	0.249	0.251	0.239	0.247	0.229
13SEP82	21.388	12.292	8.659	8.056	3.806	1.112	0.345	0.222	0.224	0.223	0.212	0.204
27SEP82	15.670	10.711	9.221	7.804	5.498	2.036	0.418	0.234	0.238	0.229	0.217	0.219
11OCT82	22.158	14.574	10.965	9.288	5.862	2.647	0.581	0.274	0.238	0.229	0.220	0.209

APPENDIX D

LENGTH DATA

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ABBREVIATIONS

S.E. = standard error of the mean

N = sample size (number of tows for ichthyoplankton data, number of fish measured for Fall Shoals/Beach Seine data)

FS = Fall Shoals Survey

BS = Beach Seine Survey

TABLE D-1
WEEKLY STANDING CROP (IN THOUSANDS) FOR 1-MM LENGTH INTERVALS
OF STRIPED BASS LARVAE AND EARLY JUVENILES
DETERMINED BY ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		2-2.9	3-3.9	4-4.9	5-5.9	6-6.9	7-7.9	8-8.9	9-9.9	10-10.9
10MAY82	MEAN	414	2847	7533	6791	708	0	0	0	0
	S.E.	128	625	1029	993	291	0	0	0	0
	N	194	194	194	194	194	194	194	194	194
17MAY82	MEAN	329	3374	13473	23044	27445	5169	0	0	0
	S.E.	217	755	2532	4793	4466	1272	0	0	0
	N	195	195	195	195	195	195	195	195	195
24MAY82	MEAN	378	10245	116421	315868	269057	57428	1700	0	0
	S.E.	291	2804	23148	53471	91681	36230	960	0	0
	N	186	186	186	186	186	186	186	186	186
31MAY82	MEAN	219	8537	60290	361538	652016	132449	17255	1403	1062
	S.E.	185	2756	10841	64560	102171	19033	5879	453	894
	N	186	186	186	186	186	186	186	186	186
07JUN82	MEAN	5	1161	15391	154745	328697	69100	19675	3429	961
	S.E.	5	328	4323	21739	40027	10949	7880	1107	480
	N	186	186	186	186	186	186	186	186	186
14JUN82	MEAN	30	2663	18029	36775	12311	8339	6032	2237	1944
	S.E.	30	1047	4503	11703	1718	1652	1402	668	517
	N	187	187	187	187	187	187	187	187	187
21JUN82	MEAN	0	1406	14719	50821	33283	1867	865	1856	2138
	S.E.	0	269	3051	8405	4034	311	410	433	438
	N	187	187	187	187	187	187	187	187	187
28JUN82	MEAN	0	237	2766	31901	44650	39099	14218	3182	455
	S.E.	0	126	661	2994	3319	3301	1773	482	172
	N	187	187	187	187	187	187	187	187	187
05JUL82	MEAN	0	239	231	1926	2333	3856	3550	3556	4511
	S.E.	0	182	76	302	288	548	494	597	1178
	N	187	187	187	187	187	187	187	187	187
TOTAL	MEAN	1374	30708	248851	983409	1370500	317308	63295	15664	11071
	S.E.	428	4212	26637	87979	143168	42549	10154	1629	1705
	N	1695	1695	1695	1695	1695	1695	1695	1695	1695

TABLE D-1 (CONTINUED).

WEEK BEGINNING MONDAY		11-11.9	12-12.9	13-13.9	14-14.9	15-15.9	16-16.9	17-17.9	18-18.9	19-19.9
10MAY82	MEAN	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0
	N	194	194	194	194	194	194	194	194	194
17MAY82	MEAN	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0
	N	195	195	195	195	195	195	195	195	195
24MAY82	MEAN	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0
	N	186	186	186	186	186	186	186	186	186
31MAY82	MEAN	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0
	N	186	186	186	186	186	186	186	186	186
07JUN82	MEAN	97	33	37	0	0	0	0	0	0
	S.E.	48	24	37	0	0	0	0	0	0
	N	186	186	186	186	186	186	186	186	186
14JUN82	MEAN	893	471	237	107	39	0	0	0	0
	S.E.	213	246	109	61	30	0	0	0	0
	N	187	187	187	187	187	187	187	187	187
21JUN82	MEAN	2388	2572	1387	466	474	220	158	99	0
	S.E.	552	476	419	160	150	145	75	74	0
	N	187	187	187	187	187	187	187	187	187
28JUN82	MEAN	239	123	116	232	290	343	145	152	436
	S.E.	137	78	56	108	155	163	59	93	189
	N	187	187	187	187	187	187	187	187	187
05JUL82	MEAN	3772	2717	1656	661	266	0	0	29	79
	S.E.	1125	980	479	301	151	0	0	29	79
	N	187	187	187	187	187	187	187	187	187
TOTAL	MEAN	7389	5915	3433	1467	1067	563	302	279	515
	S.E.	1279	1120	649	363	265	218	96	122	205
	N	1695	1695	1695	1695	1695	1695	1695	1695	1695

TABLE D-2
WEEKLY MEAN LENGTHS (TL,MM) BY REGION OF YOUNG-OF-THE-YEAR FOR
SELECTED SPECIES COLLECTED IN THE HUDSON RIVER ESTUARY BY
FALL SHOALS AND BEACH SEINE SURVEYS, 1982.
STRIPED BASS

WEEK BEGINNING MONDAY	GEAR		YK	TZ	CH	IP	WP	CW	PK	HP-AL	TOTAL
09AUG82	FS	MEAN	72.00	65.20	53.80	61.67		29.00		57.00	59.39
		S.E.	3.67	2.63	4.10	8.57		6.00		3.73	2.27
		N	4	20	20	9		2		6	61
16AUG82	BS	MEAN	63.57	75.85	76.55	70.83	66.16	55.07	76.00	72.89	69.86
		S.E.	3.98	2.59	2.01	3.01	3.24	2.51	2.71	3.31	1.21
		N	14	20	20	18	19	14	6	19	130
23AUG82	FS	MEAN	79.33	60.89	64.85	51.00			67.00	68.50	65.13
		S.E.	1.67	4.07	3.73					5.52	2.37
		N	3	9	20	1			1	4	38
30AUG82	BS	MEAN	76.70	79.60	82.00	67.45	54.00	82.67	65.25	83.75	76.38
		S.E.	2.18	2.82	2.75	4.70	0.00	8.65	4.36	1.38	1.43
		N	20	20	20	11	2	3	8	4	88
06SEP82	FS	MEAN	98.50	82.06	87.92	73.40		66.67		73.00	79.88
		S.E.	0.50	3.21	3.71	5.76		9.94		1.26	1.82
		N	2	16	12	5		3		14	52
13SEP82	BS	MEAN	85.10	86.70	82.85	79.10	72.56	86.00	75.50	79.00	82.09
		S.E.	3.49	2.36	3.28	3.14	6.26		6.50	3.42	1.46
		N	20	20	20	20	9	1	2	4	96
20SEP82	FS	MEAN		102.00	91.00			64.00		67.00	73.71
		S.E.						5.94			6.81
		N		1	1			4		1	7
27SEP82	BS	MEAN	91.20	85.75	87.60	81.70	75.54	77.50	90.60	85.82	85.22
		S.E.	2.78	2.15	2.43	2.23	3.49	1.50	11.27	4.95	1.23
		N	20	20	20	20	13	2	5	11	111
04OCT82	FS	MEAN		107.22	115.00		76.00	90.00			103.83
		S.E.		5.40							4.99
		N		9	1		1	1			12
11OCT82	BS	MEAN	96.25	92.10	87.45	87.57	75.00	74.50	81.50	90.33	89.18
		S.E.	2.64	2.55	2.83	3.06	5.58	3.59	5.68	13.96	1.39
		N	20	20	20	14	4	4	4	3	89

TABLE D-3
WEEKLY STANDING CROP (IN THOUSANDS) FOR 1-MM LENGTH INTERVALS
OF WHITE PERCH LARVAE AND EARLY JUVENILES
DETERMINED BY ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		2-2.9	3-3.9	4-4.9	5-5.9	6-6.9	7-7.9	8-8.9	9-9.9	10-10.9
10MAY82	MEAN	24109	103497	10359	154	0	0	0	0	0
	S.E.	3281	10491	1533	95	0	0	0	0	0
	N	194	194	194	194	194	194	194	194	194
17MAY82	MEAN	28610	556105	591740	9405	51	17	0	0	0
	S.E.	10093	74575	60970	6103	51	17	0	0	0
	N	195	195	195	195	195	195	195	195	195
24MAY82	MEAN	37884	519351	1630556	1186119	153023	1132	0	0	0
	S.E.	24086	59559	208796	200527	29903	854	0	0	0
	N	186	186	186	186	186	186	186	186	186
31MAY82	MEAN	1848	141785	522984	1020163	893841	388036	91606	9844	1398
	S.E.	904	22364	51559	84308	77224	48419	21583	4341	1307
	N	186	186	186	186	186	186	186	186	186
07JUN82	MEAN	37990	527957	320286	472441	484081	345379	151597	42309	8130
	S.E.	20424	80642	37714	49973	50133	43970	23374	12335	4776
	N	186	186	186	186	186	186	186	186	186
14JUN82	MEAN	17713	260609	279192	163026	212722	182961	161458	139911	67689
	S.E.	7117	28679	38457	21127	29768	30356	39421	48442	26420
	N	187	187	187	187	187	187	187	187	187
21JUN82	MEAN	3755	205153	239550	143077	105363	61255	45590	55588	56240
	S.E.	673	63786	44230	13972	12452	8932	6999	7359	9226
	N	187	187	187	187	187	187	187	187	187
28JUN82	MEAN	556	19186	111218	282599	379869	417979	160441	46180	31479
	S.E.	300	5701	15800	48995	41355	47178	22789	6183	5141
	N	187	187	187	187	187	187	187	187	187
05JUL82	MEAN	213	14635	29503	80192	128924	140162	166550	126896	97967
	S.E.	123	5235	4873	9563	20175	22854	30973	15162	16966
	N	187	187	187	187	187	187	187	187	187
TOTAL	MEAN	152679	2348278	3735388	3357175	2357873	1536922	777242	420727	262903
	S.E.	34087	145510	234744	230189	111935	89598	63984	53291	33495
	N	1695	1695	1695	1695	1695	1695	1695	1695	1695

TABLE D-3 (CONTINUED).

WEEK BEGINNING MONDAY		11-11.9	12-12.9	13-13.9	14-14.9	15-15.9	16-16.9	17-17.9	18-18.9	19-19.9
10MAY82	MEAN	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0
	N	194	194	194	194	194	194	194	194	194
17MAY82	MEAN	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0
	N	195	195	195	195	195	195	195	195	195
24MAY82	MEAN	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0
	N	186	186	186	186	186	186	186	186	186
31MAY82	MEAN	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0
	N	186	186	186	186	186	186	186	186	186
07JUN82	MEAN	1533	0	0	0	0	0	0	0	0
	S.E.	1427	0	0	0	0	0	0	0	0
	N	186	186	186	186	186	186	186	186	186
14JUN82	MEAN	23750	5345	23	0	0	0	0	0	0
	S.E.	12850	4337	23	0	0	0	0	0	0
	N	187	187	187	187	187	187	187	187	187
21JUN82	MEAN	31856	23144	5668	956	177	0	0	0	0
	S.E.	6299	4425	1425	410	177	0	0	0	0
	N	187	187	187	187	187	187	187	187	187
28JUN82	MEAN	21300	9949	12260	15611	7839	8264	1306	208	3919
	S.E.	4952	2943	3208	4567	1899	3396	649	108	3611
	N	187	187	187	187	187	187	187	187	187
05JUL82	MEAN	50479	11385	3173	4038	2619	3279	1213	2620	2333
	S.E.	9899	2584	1631	1364	1570	1993	463	1004	755
	N	187	187	187	187	187	187	187	187	187
TOTAL	MEAN	128918	49824	21125	20605	10635	11543	2519	2828	6252
	S.E.	18148	7330	3871	4784	2471	3938	797	1010	3689
	N	1695	1695	1695	1695	1695	1695	1695	1695	1695

TABLE D-4
WEEKLY MEAN LENGTHS (TL,MM) BY REGION OF YOUNG-OF-THE-YEAR FOR
SELECTED SPECIES COLLECTED IN THE HUDSON RIVER ESTUARY BY
FALL SHOALS AND BEACH SEINE SURVEYS, 1982.
WHITE PERCH

WEEK BEGINNING MONDAY	GEAR		YK	TZ	CH	IP	WP	CW	PK	HP-AL	TOTAL
09AUG82	FS	MEAN		52.58	42.00	42.55	45.00	45.40	46.80	46.10	46.72
		S.E.		1.33	2.79	2.21	3.00	2.82	4.51	1.57	1.04
		N		19	5	11	2	20	10	20	87
16AUG82	BS	MEAN	49.00	51.30	50.94	53.50	48.60	57.00	38.55	48.00	49.46
		S.E.		1.22	2.17	1.95	1.70	6.24	1.99	1.61	0.80
		N	1	20	18	20	20	3	11	20	113
23AUG82	FS	MEAN			65.00	48.00	54.20	48.22	54.25	56.50	54.13
		S.E.					3.50	3.21	2.43	1.16	1.18
		N			1	1	5	9	4	20	40
30AUG82	BS	MEAN		55.45	53.60	56.15	54.15	64.50	54.55	53.85	54.79
		S.E.		1.38	1.71	2.19	1.68	5.50	2.74	1.30	0.76
		N		20	20	20	20	2	20	20	122
06SEP82	FS	MEAN				62.00		57.11	59.43	62.45	60.57
		S.E.						1.82	3.50	2.47	1.57
		N				1		9	7	20	37
13SEP82	BS	MEAN	50.00	60.50	62.40	65.42	55.90	60.90	73.50	58.80	60.41
		S.E.		1.79	1.82	2.84	1.78	1.79	1.50	2.22	0.87
		N	1	20	20	12	20	10	2	20	105
20SEP82	FS	MEAN						63.00	64.00	68.15	65.69
		S.E.						3.48	1.85	1.59	1.18
		N						7	18	20	45
27SEP82	BS	MEAN	65.00	62.35	69.70	73.55	66.20	76.25	63.00	60.85	66.42
		S.E.	2.00	1.80	1.57	1.57	1.45	6.07	1.81	1.92	0.80
		N	2	20	20	20	20	4	14	20	120
04OCT82	FS	MEAN		74.00				66.00	67.00	72.15	70.41
		S.E.		5.00				3.15	1.00	1.00	1.12
		N		2				8	2	20	32
11OCT82	BS	MEAN	63.14	62.60	72.25	73.93	63.20	75.33	68.10	63.15	67.20
		S.E.	1.64	1.91	1.50	2.12	1.64	2.16	1.91	1.91	0.79
		N	7	20	20	14	15	6	20	20	122

TABLE D-5
WEEKLY STANDING CROP(IN THOUSANDS) FOR 1-MM LENGTH INTERVALS
OF AMERICAN SHAD LARVAE AND EARLY JUVENILES
DETERMINED BY ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		6-6.9	7-7.9	8-8.9	9-9.9	10-10.9	11-11.9	12-12.9
10MAY82	MEAN	166	2173	6103	5487	214	40	0
	S.E.	166	635	1759	1572	106	40	0
	N	194	194	194	194	194	194	194
17MAY82	MEAN	0	909	699	9785	122806	132729	55769
	S.E.	0	909	470	5034	48331	30219	15306
	N	195	195	195	195	195	195	195
24MAY82	MEAN	14	1011	4342	20438	39600	44520	46285
	S.E.	14	820	2639	6522	11028	10079	8714
	N	186	186	186	186	186	186	186
31MAY82	MEAN	312	3975	20899	30568	25144	4815	3074
	S.E.	219	2720	11047	14923	15602	1913	1141
	N	186	186	186	186	186	186	186
07JUN82	MEAN	41	256	492	3592	4183	2932	2293
	S.E.	41	217	156	839	1257	889	495
	N	186	186	186	186	186	186	186
14JUN82	MEAN	0	163	170	740	1547	1295	1686
	S.E.	0	163	86	508	355	517	478
	N	187	187	187	187	187	187	187
21JUN82	MEAN	0	0	64	618	3030	2837	3433
	S.E.	0	0	64	296	1172	1835	821
	N	187	187	187	187	187	187	187
28JUN82	MEAN	0	0	0	0	0	67	0
	S.E.	0	0	0	0	0	67	0
	N	187	187	187	187	187	187	187
05JUL82	MEAN	0	0	68	76	76	76	70
	S.E.	0	0	68	76	76	76	70
	N	187	187	187	187	187	187	187
TOTAL	MEAN	533	8487	32837	71305	196600	189311	112610
	S.E.	278	3062	11505	17150	52000	31982	17682
	N	1695	1695	1695	1695	1695	1695	1695

TABLE D-5 (CONTINUED).

WEEK BEGINNING MONDAY		13-13.9	14-14.9	15-15.9	16-16.9	17-17.9	18-18.9
10MAY82	MEAN	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0
	N	194	194	194	194	194	194
17MAY82	MEAN	2473	373	0	0	0	0
	S.E.	1228	373	0	0	0	0
	N	195	195	195	195	195	195
24MAY82	MEAN	61303	77022	54894	13974	0	0
	S.E.	13706	19119	15986	3743	0	0
	N	186	186	186	186	186	186
31MAY82	MEAN	6719	23628	30701	52480	37809	59239
	S.E.	1698	7688	7578	15404	9775	15640
	N	186	186	186	186	186	186
07JUN82	MEAN	8105	2014	2488	8721	13494	21592
	S.E.	5045	597	711	5055	7846	10314
	N	186	186	186	186	186	186
14JUN82	MEAN	1808	2376	1671	3105	2783	5417
	S.E.	673	1059	486	540	622	1613
	N	187	187	187	187	187	187
21JUN82	MEAN	4066	5032	6103	5567	6907	7560
	S.E.	2050	2508	1357	1291	1951	1951
	N	187	187	187	187	187	187
28JUN82	MEAN	0	0	357	146	325	7240
	S.E.	0	0	282	135	149	5814
	N	187	187	187	187	187	187
05JUL82	MEAN	89	186	70	460	363	1735
	S.E.	89	186	70	382	257	1176
	N	187	187	187	187	187	187
TOTAL	MEAN	84562	110631	96284	84454	61681	102782
	S.E.	14911	20798	17766	16702	12703	19814
	N	1695	1695	1695	1695	1695	1695

TABLE D-6
WEEKLY MEAN LENGTHS (TL,MM) BY REGION OF YOUNG-OF-THE-YEAR FOR
SELECTED SPECIES COLLECTED IN THE HUDSON RIVER ESTUARY BY
FALL SHOALS AND BEACH SEINE SURVEYS, 1982.
AMERICAN SHAD

WEEK BEGINNING MONDAY	GEAR		YK	TZ	CH	IP	WP	CW	PK	HP-AL	TOTAL
09AUG82	FS	MEAN	83.57	76.65	73.81	70.40		69.72	82.00	82.80	75.85
		S.E.	2.08	1.00	1.07	1.00		2.10	1.63	1.88	0.78
		N	7	20	16	20		18	7	20	108
16AUG82	BS	MEAN	81.00	71.15	72.84	70.65	70.90	71.40	67.35	67.35	70.29
		S.E.		0.88	1.11	0.74	0.90	1.15	0.65	1.14	0.39
		N	1	20	19	20	20	20	20	20	140
23AUG82	FS	MEAN	82.00	77.88	79.00	73.70	73.00	73.56	73.00	83.95	78.28
		S.E.		1.03		1.24	1.08	1.28		1.98	1.03
		N	1	8	1	10	4	9	1	20	54
30AUG82	BS	MEAN	84.33	76.85	75.00	72.41	75.95	75.25	74.90	75.50	75.30
		S.E.	0.33	1.58	0.79	1.12	0.92	0.78	0.68	0.69	0.36
		N	3	13	20	17	20	20	20	20	133
06SEP82	FS	MEAN	94.00	85.45	85.20	81.63	77.00	75.89	75.50	84.50	82.90
		S.E.	19.00	1.45	2.92	1.92		0.89	1.50	2.77	1.27
		N	2	11	5	8	1	9	2	20	58
13SEP82	BS	MEAN	84.00	83.79	83.14	78.71	81.59	79.30	78.22	78.65	80.23
		S.E.		1.51	1.55	0.61	1.25	0.80	0.86	0.97	0.46
		N	1	14	7	7	17	20	18	20	104
20SEP82	FS	MEAN	86.67	83.00	88.50	84.00		84.17	88.71	86.35	85.88
		S.E.	1.86	2.17	0.50			1.63	1.80	2.32	1.07
		N	3	5	2	1		12	7	20	50
27SEP82	BS	MEAN	74.00	85.08	82.33	87.00	82.30	83.60	85.40	79.05	82.78
		S.E.		1.43	1.36		0.58	1.31	0.65	0.91	0.45
		N	1	12	9	1	20	15	20	20	98
04OCT82	FS	MEAN		89.33	93.75			89.50	92.75	89.25	90.20
		S.E.		1.45	4.19			3.80	1.70	2.02	1.32
		N		3	4			4	4	20	35
11OCT82	BS	MEAN	87.50	87.00	87.95	86.78	88.65	87.15	88.15	83.35	87.03
		S.E.	2.50	1.04	1.16	1.28	1.75	0.70	1.15	1.21	0.48
		N	2	20	20	9	20	20	20	20	131

TABLE D-7
WEEKLY MEAN LENGTHS (TL,MM) BY REGION OF YOUNG-OF-THE-YEAR FOR
SELECTED SPECIES COLLECTED IN THE HUDSON RIVER ESTUARY BY
FALL SHOALS AND BEACH SEINE SURVEYS, 1982.
ATLANTIC TOMCOD

WEEK BEGINNING MONDAY	GEAR		YK	TZ	CH	IP	WP	CW	PK	HP-AL	TOTAL
09AUG82	FS	MEAN	86.45	92.80	86.80	83.80	83.40	91.19			87.28
		S.E.	1.80	3.07	3.01	2.60	2.55	2.83			1.12
		N	20	20	20	20	20	16			116
16AUG82	BS	MEAN		72.00	75.00						73.50
		S.E.									1.50
		N		1	1						2
23AUG82	FS	MEAN	98.67	91.35	91.89	87.59	80.55	87.32	62.00		88.40
		S.E.	3.88	2.14	3.91	2.50	2.21	2.59	21.00		1.29
		N	15	20	9	17	20	19	2		102
30AUG82	BS	MEAN		98.50	96.18						97.43
		S.E.		2.68	3.21						2.05
		N		20	17						37
06SEP82	FS	MEAN	104.10	95.40	97.14	94.58	85.65	79.18	83.06	83.83	89.57
		S.E.	4.15	3.51	3.69	3.02	3.04	1.89	2.14	2.16	1.22
		N	10	20	14	19	20	17	16	18	134
13SEP82	BS	MEAN	91.00	97.62	96.83	103.00					97.33
		S.E.		2.88	3.34						2.01
		N	1	13	6	1					21
20SEP82	FS	MEAN	102.00	100.40	100.43	101.83	84.10	87.20	97.15	97.25	94.99
		S.E.	3.54	3.92	2.78	4.13	3.01	2.24	2.16	2.46	1.22
		N	10	10	7	18	20	20	20	20	125
27SEP82	BS	MEAN	132.00	111.20	98.15	109.33					107.03
		S.E.		2.20	1.89	8.88					1.91
		N	1	20	13	3					37
04OCT82	FS	MEAN	118.00	114.57	105.00	86.67	81.79	96.06	99.85	104.15	98.74
		S.E.		6.74	3.75	9.17	2.68	2.66	3.08	2.45	1.58
		N	1	7	9	3	14	16	20	20	90
11OCT82	BS	MEAN	120.90	109.22	107.44						112.82
		S.E.	3.55	3.87	2.00						2.16
		N	10	9	9						28

TABLE D-8
WEEKLY MEAN LENGTHS (TL,MM) BY REGION OF YOUNG-OF-THE-YEAR FOR SELECTED SPECIES COLLECTED IN THE HUDSON RIVER ESTUARY BY FALL SHOALS AND BEACH SEINE SURVEYS, 1982.
BAY ANCHOVY

WEEK BEGINNING MONDAY	GEAR		YK	TZ	CH	IP	WP	CW	PK	HP-AL	TOTAL
09AUG82	FS	MEAN	39.60	36.95	34.85	35.30	34.75	36.05	38.55	26.80	35.63
		S.E.	0.72	1.30	1.20	1.23	0.98	1.16	1.02	0.71	0.46
		N	20	20	20	20	20	20	20	15	155
16AUG82	BS	MEAN	42.00	38.55	36.00	37.00					39.11
		S.E.	0.88	1.06	1.00	1.70					0.71
		N	14	20	2	11					47
23AUG82	FS	MEAN	37.30	36.25	30.30	34.20	31.95	33.60	35.20	25.15	32.99
		S.E.	1.14	1.09	1.03	1.35	1.23	1.12	0.88	0.97	0.48
		N	20	20	20	20	20	20	20	20	160
30AUG82	BS	MEAN	42.59	35.65		44.60					40.06
		S.E.	0.79	1.16		2.12					0.91
		N	17	20		10					47
06SEP82	FS	MEAN	41.45	31.10	37.50	40.50	38.65	37.55	38.25	28.15	36.64
		S.E.	1.25	1.82	1.47	1.10	1.61	1.71	2.33	1.11	0.65
		N	20	20	20	20	20	20	20	20	160
13SEP82	BS	MEAN	45.25	27.35		45.85	44.00				40.13
		S.E.	0.66	1.68		0.73	1.53				1.14
		N	20	20		20	10				70
20SEP82	FS	MEAN	46.50	40.70	42.85	42.30	38.55	46.95	44.65	42.55	43.13
		S.E.	2.96	1.40	1.78	1.47	2.51	2.51	2.12	2.12	0.78
		N	20	20	20	20	20	20	20	20	160
27SEP82	BS	MEAN	47.75	31.80	35.86				49.80		41.05
		S.E.	1.93	1.66	3.71				1.17		1.45
		N	20	20	7				10		57
04OCT82	FS	MEAN	50.25	45.55	43.15	41.85	43.90	50.85	52.15	51.45	47.39
		S.E.	1.67	0.92	1.72	1.17	2.09	2.70	1.18	2.65	0.72
		N	20	20	20	20	20	20	20	20	160
11OCT82	BS	MEAN	51.70	41.29	44.80	47.47	51.90		53.25		48.26
		S.E.	1.24	1.84	0.61	0.88	0.80		1.19		0.72
		N	20	17	10	15	10		12		84