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NORMANDEAU ASSOCIATES, INC.

Environmental Consultants

1982 YEAR CLASS REPORT FOR THE HUDSON RIVER ESTUARY MONITORING PROGRAM

VOLUME 2. APPENDICES A AND B (PART 1)

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R-175

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APPENDIX A

APPENDIX A

EQUATIONS

Equation 1. Mean of a water quality parameter in region r:

$$W_r = \frac{1}{n_r} \sum_{k=1}^{n_r} P_{kr} \left[\frac{1}{n_{kr}} \sum_{d=1}^{n_{kr}} \left(\frac{1}{n_{dkr}} \sum_{i=1}^{n_{dkr}} W_{idkr} \right) \right]$$

where W_{ikdr} = water quality measurement for site i at depth d in stratum k in region r

n_{dkr} = number of sites at which measurements were made at depth d in stratum k in region r

n_{kr} = number of depths at which measurements were made in stratum k in region r

P_{kr} = proportion of the river volume of region r which is contained by stratum k (bottom and channel strata were combined for water quality analysis)

n_r = number of strata sampled in region r (strata are shoals and channel)

Equation 2. Mean of a water quality parameter for an estuary segment:

$$W = \frac{1}{n} \sum_{r=1}^{n} P_r W_r$$

where W_r = as in Equation 1

P_r = proportion of the river volume of the estuary segment contained by region r

n = number of regions sampled in the estuary segment

Equation 3. Density estimate (number per 1000 m^3) for tow i of stratum k within region r during week (or biweek) w:

$$d_{ikrw} = \frac{1000\ (c_{ikrw})}{V_{ikrw}}$$

where c_{ikrw} = number of eggs, larvae, or fish captured in tow i of stratum k within region r during week (or biweek) w

V_{ikrw} = volume of water (m^3) strained in tow i of stratum k within region r during week (or biweek) w

Equation 4. Density estimate (number per 1000 m^3) and its standard error for stratum k within region r during week (or biweek) w:

$$d_{krw} = \frac{1}{n_{krw}} \sum_{i=1}^{n_{krw}} d_{ikrw}$$

and

$$SE_{d_{krw}} = \sqrt{\frac{\sum_{i=1}^{n_{krw}} (d_{ikrw} - d_{krw})^2}{n_{krw}\,(n_{krw}-1)}}$$

where d_{ikrw} = as in Equation 3

n_{krw} = number of tows in stratum k within region r during week (or biweek) w

Equation 5. Standing crop estimate and its standard error for stratum k within region r during week (or biweek) w:

$$N_{krw} = V_{kr}\, d_{krw}$$

and $$SE_{N_{krw}} = (V_{kr})\,(SE_{d_{krw}})$$

where V_{kr} = river volume (1000 m^3) of stratum k within region r

d_{krw} and $SE_{d_{krw}}$ = as in Equation 4

Equation 6. Standing crop estimate and its standard error for stratum k in the entire river during week (or biweek) w:

$$N_{kw} = \sum_{r=1}^{12} N_{krw}$$

and

$$SE_{N_{kw}} = \sqrt{\sum_{r=1}^{12} \left(SE_{N_{krw}}\right)^2}$$

where N_{krw} and $SE_{N_{krw}}$ = as in Equation 5

Equation 7. Standing crop estimate and its standard error for all strata of region r during week (or biweek) w:

$$N_{rw} = \sum_{k=1}^{3} N_{krw}$$

and

$$SE_{N_{rw}} = \sqrt{\sum_{k=1}^{3} \left(SE_{N_{krw}}\right)^2}$$

where N_{krw} and $SE_{N_{krw}}$ = as in Equation 5

Equation 8. Standing crop estimate and its standard error for the entire river during week (or biweek) w:

$$N_{w} = \sum_{r=1}^{12} N_{rw}$$

and

$$SE_{N_{w}} = \sqrt{\sum_{r=1}^{12} \left(SE_{N_{rw}}\right)^2}$$

where N_{rw} and $SE_{N_{rw}}$ = as in Equation 7

Equation 9. Catch per unit effort in the shore zone and its standard error for region r during biweek w:

$$C_{rw} = \frac{1}{n_{rw}} \sum_{i=1}^{n_{rw}} C_{irw}$$

and

$$SE_{C_{rw}} = \sqrt{\frac{\sum_{i=1}^{n_{rw}} \left(C_{irw} - C_{rw}\right)^2}{n_{rw}\,(n_{rw}-1)}}$$

where C_{irw} = number of fish caught in haul i in region r during biweek w

n_{rw} = number of hauls made in region r during biweek w

Equation 10. Shore zone standing crop estimate and its standard error for region r during biweek w:

$$N_{rw} = C_{rw} \left(\frac{A_r}{A_i}\right)$$

and

$$SE_{N_{rw}} = SE_{C_{rw}} \left(\frac{A_r}{A_i}\right)$$

where A_r = shore zone surface area (m^2) from 0 to 3 m river depth in region r

A_i = estimated surface area sampled by 30.5-m beach seine in an individual haul = 450 m^2

C_{rw} and $SE_{C_{rw}}$ = as in Equation 9

Equation 11. Shore zone standing crop estimate and its standard error for the entire river during biweek w:

Same as Equation 8

where N_{rw} and $SE_{N_{rw}}$ = as in Equation 10

Equation 12. Geographic distribution index for region r:

$$I_r = \frac{\sum_{w=1}^{n} N_{rw}}{\sum_{w=1}^{n} N_w} \quad (100)$$

where n = number of weeks (or biweeks) sampled

N_{rw} = as in Equation 7 or Equation 10

N_w = as in Equation 8 or Equation 11

Equation 13. Temporal distribution index for week (or biweek) w:

$$I_w = \frac{N_w}{\sum_{w=1}^{n} N_w} (100)$$

where n = number of weeks (or biweeks) sampled

N_w = as in Equation 8 or Equation 11

Equation 14. Mean length (mm TL) of larvae during week w:

$$L_w = \frac{\sum_{s=2}^{4} (N_{sw} L_{sw})}{\sum_{s=2}^{4} N_{sw}}$$

where N_{sw} = standing crop estimate for stage s during week w

L_{sw} = mean length (mm TL) for stage s during week w

Equation 15. Estimated length (mm TL) at time t:

$$L_t = g \log t + L_o$$

where t = number of days after 1 August

g = slope of regression line

L_o = estimated length on 2 August

Equation 16. Estimated time (days after 1 August) when mean length reached 60 mm TL:

$$t_{60} = 10^{\left(\frac{60-L_o}{g}\right)}$$

where

L_o and g = as in Equation 15

Equation 17. Estimated length (mm TL) at time t:

$$L_t = L_o e^{\beta t}$$

or $$\ln (L_t) = \ln (L_o) + \beta t$$

where t = number of days after 1 May

L_o = estimated length on 1 May

β = slope of regression line = instantaneous growth rate

Equation 18. Estimated times (days after 1 May) when mean lengths reached the recruitment length and 60 mm TL:

$$t_{L_R} = \frac{\ln (L_R) - \ln (L_o)}{\beta}$$

and

$$t_{60} = \frac{\ln (60) - \ln (L_o)}{\beta}$$

where L_R = length at recruitment to the fall juvenile sampling gear (=30 mm for striped bass, 25 mm for white perch)

L_o and β = as in Equation 17

Equation 19. Estimated average growth rate (mm per day) from hatching to recruitment length and from recruitment length to 60 mm:

$$G_{H-R} = \frac{L_R - L_H}{t_{L_R} - t_H}$$

and

$$G_{R-60} = \frac{60 - L_R}{t_{60} - t_{L_R}}$$

where L_H = length (mm TL) at hatching

t_H = estimated time (days after 1 May) of hatching

L_R, t_{L_R}, t_{60} = as in Equation 18

Equation 20. Estimated abundance on day t:

$$N_t = N_o \, e^{-Zt}$$

or $$\ln (N_t) = \ln (N_o) - Zt$$

where t = days after 1 May (for larval/early juvenile mortality estimates) or days after 1 August (for juvenile mortality estimates and combined standing crop index calculations)

N_o = estimated number of larvae or juveniles at t=0

Z = instantaneous mortality rate

Equation 21. Estimated daily mortality rate (% per day):

$$M_d = (1-e^{-Z}) \; (100\%)$$

where Z = as in Equation 20

Equation 22. Combined standing crop for region r during week w:

$$N'_{rw} = \frac{1}{T}\left(\sum_{k=1}^{3} N_{krw}\right) + \frac{R}{E}\left(N_{rw}\right)$$

and

$$SE_{N'_{rw}} = \sqrt{\sum_{k=1}^{4} \left(SE_{N_{krw}}\right)^2}$$

where T = catch efficiency of epibenthic sled and Tucker Trawl (=0.3)

N_{krw} = as in Equation 5 (except reduced 25% for shoal stratum)

R = night/day catch ratio for beach seines

E = catch efficiency of beach seines

N_{rw} = as in Equation 10

$SE_{N_{krw}}$ = $SE_{N_{rw}}$ as in Equation 10 for k=4 (except for striped bass: see Equation 23), and as in Equation 5 for values of k from 1 to 3

Equation 23. Standard error of shore zone estimate of striped bass standing crop, adjusted for variance of night/day ratio and gear efficiency estimates, for region r during week w:

$$SE'_{N_{rw}} = \sqrt{\frac{S^2_R}{R^2} + \frac{S^2_E}{E^2} + SE_{N_{rw}}}$$

where S^2_R = variance of night/day ratio estimate for striped bass in beach seines

S^2_E = variance of beach seine catch efficiency estimate for striped bass

$SE_{N_{rw}}$ = as in Equation 10

Equation 24. Combined standing crop for week w:

$$N'_w = \sum_{r=1}^{12} N'_{rw}$$

and

$$SE_{N'_w} = \sqrt{\sum_{r=1}^{12} \left(SE_{N'_{rw}}\right)^2}$$

where N'_w and $SE_{N'_{rw}}$ = as in Equation 22.

Equation 25. Peak combined standing crop 1 August equivalent:

$$N_o = \frac{N_t}{e^{-Zt}}$$

where N_t = geometric mean of combined standing crop (N'_w in Equation 23) for peak weeks

Z = assumed instantaneous mortality rate = 0.00379 (equivalent to 75% per year)

t = number of days from 1 August to the midpoint of the peak period

Equation 26. Standard error of the combined standing crop regression estimate:

$$SE_{\ln(N_I)} = \sqrt{MSE\left[\frac{1}{n} + \frac{(t_I - \bar{t})^2}{\sum_{w=1}^{n}(t_w - \bar{t})^2}\right]}$$

where MSE = mean square error from regression analysis of variance

n = number of weekly CSC values used in the regression

t_w = midpoint of sampling interval (days after 1 August) for week w

$\bar{t}$ = mean of the n values of t_w

t_I = date (days after 1 August) for which the combined standing crop index is estimated (= 0 for 1 August index, 45 for 15 September index)

Equation 27. Confidence limits (95%) for combined standing crop index based on regression:

$$\ln\left(CL_{N_I}\right) = \ln(N_I) \pm t_{.05\ (n-2)}\left[SE_{\ln(N_I)}\right]$$

where N_I = N_o for 1 August CSC index, and N_{45} for 15 September CSC index, from Equation 20 (with t = days after 1 August)

$t_{.05(n-2)}$ = Student's t-value for n-2 degrees of freedom (n as in Equation 26) and $\alpha = .05$ (two-tailed test)

$SE_{\ln(N_I)}$ = as in Equation 26

APPENDIX B
ABUNDANCE DATA

INDEX OF TABLE NUMBERS

PART 1. STANDING CROP DATA

SPECIES	ICHTHYOPLANKTON EGGS	YSL	PYSL	YOY	FALL SHOALS YOY	YRLG	OLDER	BEACH SEINE YOY	YRLG	OLDER	COMBINED GEARS YOY
Striped bass	1	2	3	4	5	8	10	6	9	11	7
White perch	12	13	14	15	16	19	21	17	20	22	18
American shad	23	24	25	26	27	30	31	28	NC	32	29
Atlantic tomcod	-	-	33	34	35	-	-	36	-	-	37
Blueback herring	a 38	a 39	a 40	a 41	42	44	NC	43	45	46	-
Alewife					47	49	NC	48	50	NC	-
Bay anchovy	-	-	-	NC	51	54	56	52	55	NC	53
Weakfish	-	-	-	NC	57	-	-	58	-	-	-
White catfish	-	-	-	59	60	61	62	NC	NC	63	-
Spottail shiner	-	-	-	NC	64	66	NC	65	67	68	-
Atlantic sturgeon	-	-	-	NC	NC	NC	69	NC	NC	NC	-
Shortnose sturgeon	-	-	-	NC	NC	NC	70	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-1
STANDING CROP (IN THOUSANDS) BY WEEK, REGION, AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		STRIPED BASS				EGGS							
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	0	N	0	0	0	0	0	0	257	200	47	504
	S.E.	0	N	0	0	0	0	0	0	153	103	47	190
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	0	0	491	491	0	0	0	0
	S.E.	0	N	0	0	0	0	491	491	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	491	491	257	200	47	504
	S.E.	0	N	0	0	0	0	491	491	153	103	47	190
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

STRIPED BASS EGGS

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	S	WEST POINT B	C	R	S	CORNWALL B	C	R
10MAY82	ST. CROP	715	597	5017	6329	N	4976	19277	24253	4	38	0	42
	S.E.	538	229	2032	2115	N	3713	5054	6272	4	26	0	26
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	12	75	1145	1233	N	1602	8142	9744	154	1048	1071	2272
	S.E.	12	75	650	655	N	1499	4127	4391	131	240	703	754
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	47	253	300	N	3442	18684	22125	185	1415	3796	5395
	S.E.	0	33	164	168	N	1315	6366	6501	58	428	1803	1854
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	0	71	152	223	N	119	667	786	22	201	182	405
	S.E.	0	45	105	114	N	119	406	423	22	137	182	229
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	0	91	142	233	N	225	304	529	5	0	0	5
	S.E.	0	75	86	114	N	159	99	187	5	0	0	5
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	0	0	0	0	N	74	78	152	31	0	0	31
	S.E.	0	0	0	0	N	74	62	96	31	0	0	31
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	0	0	0	0	N	10	62	72	0	52	62	114
	S.E.	0	0	0	0	N	10	45	46	0	43	45	63
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	0	0	0	0	N	0	37	37	0	0	0	0
	S.E.	0	0	0	0	N	0	25	25	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	727	882	6709	8318	N	10448	47251	57699	401	2753	5109	8263
	S.E.	539	258	2144	2226	N	4220	9126	10055	149	512	1944	2015
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

STRIPED BASS EGGS

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	ST. CROP	N	179	226	405	N	460	386	846	N	82	0	82
	S.E.	N	40	151	156	N	249	274	371	N	59	0	59
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	4171	11973	16143	N	5018	7018	12036	N	1894	427	2321
	S.E.	N	2034	9420	9637	N	2214	3691	4304	N	1274	387	1331
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	8477	7154	15631	N	6202	4928	11130	N	365	667	1032
	S.E.	N	2233	2651	3466	N	2284	2122	3117	N	226	577	619
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	1207	906	2112	N	1097	3875	4972	N	208	0	208
	S.E.	N	471	373	601	N	470	1748	1810	N	120	0	120
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	24	76	100	N	0	0	0	N	0	0	0
	S.E.	N	24	76	79	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	56	308	365	N	0	30	30	N	0	0	0
	S.E.	N	56	166	176	N	0	30	30	N	0	0	0
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	484	567	1051	N	913	41	954	N	99	67	165
	S.E.	N	484	567	745	N	508	41	509	N	62	67	91
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	0	39	39	N	253	0	253	N	0	0	0
	S.E.	N	0	39	39	N	253	0	253	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	0	0	0	N	0	0	0	N	0	45	45
	S.E.	N	0	0	0	N	0	0	0	N	0	45	45
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	14598	21248	35847 34875	N	13943	16278	30221 29940	N	2647	1206	3853 3169
	S.E.	N	3096	9812	10289	N	3274	4611	5655	N	1302	699	1478
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

STRIPED BASS EGGS

WEEK BEGINNING MONDAY		SAUGERTIES S	B	C	R	CATSKILL S	B	C	R
10MAY82	ST. CROP	N	624	0	624	N	0	0	0
	S.E.	N	624	0	624	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	1030	0	1030	N	0	0	0
	S.E.	N	1030	0	1030	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	800	8488	9288	N	0	6006	6006
	S.E.	N	509	1924	1990	N	0	6006	6006
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	94	0	94	N	0	439	439
	S.E.	N	94	0	94	N	0	220	220
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	0	0	0	N	209	563	772
	S.E.	N	0	0	0	N	209	563	600
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6 (6224)	N	3	3	6 7(24
TOTAL	ST. CROP	N	2548	8488	11036	N	209	7008	7216
	S.E.	N	1311	1924	2328	N	209	6036	6040
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS ALBANY S	B	C	R	EGGS COMBINED S	B	C	R
10MAY82	ST. CROP	N	0	N	0	976	7157	24953	33086
	S.E.	N	0	N	0	560	3783	5457	6663
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	0	N	0	166	14838	29775	44780
	S.E.	N	0	N	0	132	3746	10975	11598
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	0	N	0	185	20747	49976	70908
	S.E.	N	0	N	0	58	3525	9769	10386
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	72	N	72	22	2975	6272	9269
	S.E.	N	72	N	72	22	705	1909	2035
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	0	N	0	5	340	521	866
	S.E.	N	0	N	0	5	177	151	233
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	0	N	0	31	224	856	1110
	S.E.	N	0	N	0	31	132	284	315
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	128	N	128	0	1894	1361	3255
	S.E.	N	128	N	128	0	747	805	1098
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	0	N	0	0	253	76	329
	S.E.	N	0	N	0	0	253	47	257
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	0	N	0	0	0	45	45
	S.E.	N	0	N	0	0	0	45	45
	NO. TOWS	N	3	N	3	16	62	109	187
					38				159/3
TOTAL	ST. CROP	N	200	N	200	1384	48428	113836	163648
	S.E.	N	147	N	147	579	6476	15814	17098
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-2
STANDING CROP (IN THOUSANDS) BY WEEK, REGION, AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

STRIPED BASS YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	0	N	0	0	0	39	0	39	1319	745	788	2851
	S.E.	0	N	0	0	0	39	0	39	555	362	372	760
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	25	64	89
	S.E.	0	N	0	0	0	0	0	0	0	25	64	69
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	0	0	98	98	0	33	0	33
	S.E.	0	N	0	0	0	0	98	98	0	33	0	33
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	0	N	0	0	0	1087	104	1191	4425	13614	2505	20544
	S.E.	0	N	0	0	0	650	104	658	1301	7672	391	7791
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	0	493	0	493	875	651	775	2301
	S.E.	0	N	0	0	0	451	0	451	496	556	370	831
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	52	52
	S.E.	0	N	0	0	0	0	0	0	0	0	52	52
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	1620	202	1822	6618	15068	4184	25870
	S.E.	0	N	0	0	0	792	143	805	1499	7700	659	7873
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-2 (CONTINUED).

STRIPED BASS YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R		WEST POINT B	WEST POINT C	WEST POINT R	CORNWALL S	CORNWALL B	CORNWALL C	CORNWALL R
10MAY82	ST. CROP	639	839	5451	6928	N	507	3349	3856	18	73	1232	1324
	S.E.	379	192	1063	1145	N	241	760	797	9	36	1011	1011
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	70	2488	2531	5089	N	1171	18761	19932	538	5705	11865	18108
	S.E.	15	1039	920	1388	N	431	5354	5372	331	1911	8302	8526
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	13	2541	8847	11401	N	12261	83271	95532	7706	57331	2510	67547
	S.E.	13	2436	4192	4848	N	2466	17016	17194	4833	26984	750	27423
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	318	7222	25150	32690	N	13262	75500	88762	987	20491	5158	26635
	S.E.	122	3581	8509	9233	N	7126	13996	15706	446	8615	4910	9926
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	517	9314	10813	20645	N	1269	4100	5369	81	999	705	1784
	S.E.	346	5307	4133	6736	N	540	1144	1265	75	374	705	801
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	102	112	1263	1478	N	41	634	675	0	888	74	962
	S.E.	76	55	894	899	N	28	233	235	0	414	42	416
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	101	186	3040	3327	N	887	5029	5916	0	756	983	1739
	S.E.	50	186	1093	1110	N	289	1478	1506	0	623	382	731
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	7	395	544	946	N	198	500	698	0	119	391	510
	S.E.	7	232	203	308	N	62	180	191	0	43	93	102
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	0	0	86	86	N	65	127	192	0	0	0	0
	S.E.	0	0	61	61	N	43	46	63	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	1767	23097	57727	82590	N	29661	191270	220932	9330	86362	22919	118611
	S.E.	536	6938	10539	12629	N	7582	22766	23995	4866	28402	9761	30424
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-2 (CONTINUED).

STRIPED BASS YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	1014	2183	3197	N	46	145	191	N	0	35	35
	S.E.	N	526	805	962	N	25	65	70	N	0	35	35
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	4257	16257	20514	N	1369	4882	6250	N	74	72	146
	S.E.	N	1012	5042	5143	N	423	2407	2444	N	50	72	87
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	93970	248116	342086	N	67276	64722	131998	N	12203	1080	13283
	S.E.	N	20674	148055	149491	N	29814	43722	52919	N	4406	581	4444
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	94479	59571	154050	N	22245	41919	64165	N	10888	73	10961
	S.E.	N	20944	35355	41093	N	5692	33807	34283	N	6970	46	6970
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	416	196	613	N	68	267	335	N	254	248	502
	S.E.	N	124	148	193	N	53	157	166	N	94	128	159
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	8073	17647	25720	N	59	689	749	N	593	649	1242
	S.E.	N	4057	11936	12607	N	24	458	458	N	455	466	652
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	5997	12348	18345	N	2099	5353	7452	N	835	684	1519
	S.E.	N	1846	7831	8046	N	888	2522	2674	N	331	225	400
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	3676	2883	6560	N	570	830	1400	N	65	0	65
	S.E.	N	1333	1311	1870	N	286	487	565	N	65	0	65
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	0	38	38	N	0	0	0	N	0	40	40
	S.E.	N	0	38	38	N	0	0	0	N	0	40	40
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	211882	359240	571123	N	93733	118807	212539	N	24913	2881	27794
	S.E.	N	29817	152976	155855	N	30370	55382	63162	N	8266	795	8304
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-2 (CONTINUED).

STRIPED BASS YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	7611	14493	22104	N	646	1224	1870
	S.E.	N	3281	9873	10404	N	646	1122	1295
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	2286	466	2752	N	1592	401	1993
	S.E.	N	683	241	724	N	436	401	592
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	195	108	303	N	0	0	0
	S.E.	N	86	108	138	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	10608	6044	16652	N	321	424	745
	S.E.	N	5458	0	5458	N	214	424	475
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	588	2482	3070	N	4172	1015	5188
	S.E.	N	473	1608	1676	N	2719	193	2725
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	673	1903	2576	N	810	428	1238
	S.E.	N	613	989	1163	N	461	428	629
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	0	168	168	N	0	70	70
	S.E.	N	0	168	168	N	0	70	70
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	21962	25664	47625	N	7542	3562	11104
	S.E.	N	6452	10057	11948	N	2873	1351	3175
	NO. TOWS	N	37	22.	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-2 (CONTINUED).

STRIPED BASS YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
10MAY82	ST. CROP	N	0	N	0	1976	3263	13184	18423
	S.E.	N	0	N	0	673	711	1877	2117
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	0	N	0	608	15064	54368	70040
	S.E.	N	0	N	0	332	2474	11387	11658
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	0	N	0	7720	253864	424328	685911
	S.E.	N	0	N	0	4834	45684	155687	162323
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	0	N	0	1306	172497	208336	382139
	S.E.	N	0	N	0	462	25654	51822	57826
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	75	N	75	5022	27292	19046	51360
	S.E.	N	75	N	75	1348	9376	4373	10434
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	0	N	0	977	21840	28200	51018
	S.E.	N	0	N	0	502	6870	12003	13839
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	195	N	195	101	15717	30986	46803
	S.E.	N	111	N	111	50	3527	8596	9292
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	135	N	135	7	6641	7480	14128
	S.E.	N	135	N	135	7	1591	1789	2394
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	0	N	0	0	65	530	595
	S.E.	N	0	N	0	0	43	206	210
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	405	N	405	17716	516243	786456	1320415
	S.E.	N	190	N	190	5120	53869	165220	173855
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-3
STANDING CROP (IN THOUSANDS) BY WEEK, REGION, AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

STRIPED BASS — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	0	74	0	74	0	69	0	69
	S.E.	0	N	0	0	0	43	0	43	0	46	0	46
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	57	N	0	57	2237	57	2357	4651	2289	10489	319	13098
	S.E.	57	N	0	57	1553	57	2357	2823	1247	2203	319	2552
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	4598	N	53130	57728	7761	37481	5893	51135	57399	88490	126536	272425
	S.E.	1033	N	34819	34834	4683	7130	1951	8751	34899	9049	21213	41831
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	1194	N	3737	4930	1543	10490	403	12436	5962	1121	6356	13440
	S.E.	0	N	1881	1881	1543	2913	331	3313	811	674	1846	2126
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	83	N	2010	2094	2206	1808	836	4850	2371	789	1939	5099
	S.E.	0	N	1641	1641	1450	630	568	1680	312	138	356	493
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	85	N	0	85	7773	3969	5807	17549	1873	1466	9733	13072
	S.E.	0	N	0	0	2470	2648	1812	4049	400	239	3768	3796
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	127	72	325	524	963	985	2266	4214
	S.E.	0	N	0	0	127	44	218	256	300	233	450	589
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	6018	N	58877	64895	21647	53950	15621	91218	70858	103410	147150	321417
	S.E.	1035	N	34908	34923	5912	8169	3623	10715	34936	9345	21634	42141
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-3 (CONTINUED).

STRIPED BASS POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	S	WEST POINT B	C	R	S	CORNWALL B	C	R
10MAY82	ST. CROP	0	0	23	23	N	0	0	0	0	0	0	0
	S.E.	0	0	23	23	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	0	0	0	0	N	239	1483	1721	0	614	212	825
	S.E.	0	0	0	0	N	117	654	665	0	247	212	325
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	564	9801	10365	N	2381	20959	23340	1328	6040	798	8166
	S.E.	0	448	4514	4536	N	586	3563	3611	1046	2172	505	2463
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	2738	22499	123361	148598	N	21219	309998	331217	3342	40065	75998	119405
	S.E.	1396	10113	21912	24174	N	5226	72535	72723	2396	11413	73765	74682
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	6628	30685	101458	138771	N	2036	12325	14361	138	2905	1156	4199
	S.E.	3150	9992	18975	21675	N	584	3128	3182	77	1393	425	1459
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	16	377	3347	3739	N	103	2036	2139	0	283	577	860
	S.E.	16	236	1248	1271	N	47	487	489	0	114	162	198
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	280	1118	12337	13735	N	1946	14638	16585	76	3278	7797	11152
	S.E.	89	625	2653	2727	N	533	2177	2241	28	1087	1748	2058
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	1462	2559	13822	17843	N	2420	15882	18302	841	6771	8531	16142
	S.E.	793	828	2392	2652	N	371	2044	2078	290	1590	1117	1965
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	164	1217	3544	4925	N	595	3103	3698	98	604	1707	2409
	S.E.	88	998	904	1350	N	248	1078	1106	44	220	316	387
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	11289	59019	267692	337999	N	30939	380424	411363	5822	60560	96775	163157
	S.E.	3538	14298	29592	33055	N	5338	72763	72959	2632	11864	73799	74792
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-3 (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	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	235	0	235	N	14	0	14	N	0	0	0
	S.E.	N	214	0	214	N	14	0	14	N	0	0	0
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	22971	19120	42091	N	284	903	1187	N	0	44	44
	S.E.	N	10666	12461	16402	N	153	453	478	N	0	44	44
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	124382	66741	191122	N	11404	31032	42436	N	1181	41	1222
	S.E.	N	52789	23322	57711	N	3516	19691	20003	N	448	41	450
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	770	1704	2474	N	42	640	682	N	112	40	151
	S.E.	N	212	1016	1038	N	20	427	427	N	112	40	118
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	937	311	1249	N	61	30	91	N	0	0	0
	S.E.	N	378	105	392	N	41	30	51	N	0	0	0
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	1712	8381	10093	N	600	985	1585	N	509	728	1237
	S.E.	N	935	3233	3365	N	181	302	352	N	232	381	446
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	5624	11988	17613	N	1461	5840	7301	N	1508	6454	7962
	S.E.	N	1572	2108	2629	N	349	914	979	N	452	1536	1601
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	5925	3974	9900	N	429	742	1171	N	295	654	949
	S.E.	N	3841	1221	4030	N	293	181	344	N	194	505	541
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	162556	112219	274775	N	14296	40172	54468	N	3605	7960	11564
	S.E.	N	54025	26770	60294	N	3554	19725	20043	N	714	1663	1809
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-3 (CONTINUED).

STRIPED BASS POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES S	B	C	R	CATSKILL S	B	C	R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	906	0	906	N	0	0	0
	S.E.	N	293	0	293	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	43	0	43	N	0	0	0
	S.E.	N	43	0	43	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	0	302	302	N	79	0	79
	S.E.	N	0	0	0	N	79	0	79
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	263	1899	2162	N	0	0	0
	S.E.	N	114	1899	1902	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	2818	4235	7053	N	899	345	1243
	S.E.	N	1913	3078	3624	N	700	180	723
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	997	0	997	N	0	0	0
	S.E.	N	671	0	671	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	5027	6436	11463	N	978	345	1323
	S.E.	N	2052	3617	4158	N	705	180	727
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-3 (CONTINUED).

STRIPED BASS POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
10MAY82	ST. CROP	N	0	N	0	0	0	23	23
	S.E.	N	0	N	0	0	0	23	23
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	0	N	0	0	1101	1694	2795
	S.E.	N	0	N	0	0	347	688	770
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	0	N	0	1328	32383	51624	85335
	S.E.	N	0	N	0	1046	10911	13741	17577
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	0	N	0	10664	232201	609847	852712
	S.E.	N	0	N	0	3415	55353	110091	123271
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	0	N	0	76525	162564	302883	541971
	S.E.	N	0	N	0	35368	15327	45137	59356
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	0	N	0	8715	13450	17099	39264
	S.E.	N	0	N	0	1743	3027	2981	4592
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	0	N	0	5016	12024	51550	68590
	S.E.	N	0	N	0	1486	1802	5680	6142
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	135	N	135	12034	29631	82635	124301
	S.E.	N	135	N	135	2641	4169	6766	8374
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	0	N	0	1351	11120	16315	28786
	S.E.	N	0	N	0	340	4060	2026	4551
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	135	N	135	115634	494473	1133670	1743777
	S.E.	N	135	N	135	35721	58859	120157	138485
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-4
STANDING CROP (IN THOUSANDS) BY WEEK, REGION, AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS S	B	C	R	TAPPAN ZEE S	B	C	R	CROTON-HAVERSTRAW S	B	C	R
10MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	0	0	0	1457	17	0	1474
	S.E.	0	N	0	0	0	0	0	0	1159	17	0	1159
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	1457	17	0	1474
	S.E.	0	N	0	0	0	0	0	0	1159	17	0	1159
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-4 (CONTINUED).

STRIPED BASS 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	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	0	0	0	0	N	11	0	11	8	0	0	8
	S.E.	0	0	0	0	N	11	0	11	8	0	0	8
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	412	0	0	412	N	0	0	0	45	10	0	55
	S.E.	236	0	0	236	N	0	0	0	26	10	0	28
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	412	0	0	412	N	11	0	11	53	10	0	63
	S.E.	236	0	0	236	N	11	0	11	27	10	0	29
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-4 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	28	80	108	N	64	0	64	N	0	0	0
	S.E.	N	28	80	84	N	64	0	64	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	28	0	28	N	0	37	37	N	180	0	180
	S.E.	N	28	0	28	N	0	37	37	N	180	0	180
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	56	80	136	N	64	37	101	N	180	0	180
	S.E.	N	40	80	89	N	64	37	74	N	180	0	180
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-4 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS YOUNG-OF-THE-YEAR							
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	0	0	0	N	74	0	74
	S.E.	N	0	0	0	N	74	0	74
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	74	0	74
	S.E.	N	0	0	0	N	74	0	74
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-4 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
10MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	0	N	0	8	103	80	190
	S.E.	N	0	N	0	8	71	80	107
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	0	N	0	1914	310	37	2260
	S.E.	N	0	N	0	1183	198	37	1200
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	1922	413	116	2451
	S.E.	N	0	N	0	1183	210	88	1205
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-5
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS 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
09AUG82	ST. CROP	40	N	0	40	1610	0	55	1665	109	228	0	337
	S.E.	20	N	0	20	418	0	55	422	52	183	0	190
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	34	N	0	34	90	67	0	157	10	573	0	583
	S.E.	25	N	0	25	49	46	0	67	10	161	0	161
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	26	N	0	26	61	812	0	873	19	204	0	223
	S.E.	17	N	0	17	39	533	0	534	13	136	0	137
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	18	0	18	0	8	0	8
	S.E.	0	N	0	0	0	18	0	18	0	8	0	8
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	0	N	0	0	30	143	0	173	0	22	0	22
	S.E.	0	N	0	0	17	99	0	100	0	22	0	22
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	100	N	0	100	1792	1040	55	2887	137	1035	0	1172
	S.E.	36	N	0	36	423	544	55	691	54	280	0	285
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-5 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	98	0	0	98	N	0	0	0	13	0	0	13
	S.E.	74	0	0	74	N	0	0	0	9	0	0	9
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	5	0	0	5	N	0	0	0	0	0	0	0
	S.E.	5	0	0	5	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	30	0	0	30	N	0	0	0	12	0	0	12
	S.E.	20	0	0	20	N	0	0	0	5	0	0	5
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	15	0	0	15
	S.E.	0	0	0	0	N	0	0	0	11	0	0	11
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	ST. CROP	0	0	0	0	N	15	0	15	4	0	0	4
	S.E.	0	0	0	0	N	15	0	15	4	0	0	4
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	134	0	0	134	N	15	0	15	43	0	0	43
	S.E.	76	0	0	76	N	15	0	15	15	0	0	15
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-5 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	13	0	13
	S.E.	N	0	0	0	N	0	0	0	N	13	0	13
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	28	0	28	N	14	0	14	N	0	0	0
	S.E.	N	28	0	28	N	14	0	14	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	233	0	233
	S.E.	N	0	0	0	N	0	0	0	N	161	0	161
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	14	0	14
	S.E.	N	0	0	0	N	0	0	0	N	14	0	14
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	28	0	28	N	14	0	14	N	260	0	260
	S.E.	N	28	0	28	N	14	0	14	N	162	0	162
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-5 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS YOUNG-OF-THE-YEAR							
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	55	0	55	N	14	0	14
	S.E.	N	30	0	30	N	14	0	14
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	13	0	13	N	21	0	21
	S.E.	N	13	0	13	N	15	0	15
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	57	0	57	N	0	0	0
	S.E.	N	43	0	43	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	125	0	125	N	35	0	35
	S.E.	N	54	0	54	N	20	0	20
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-5 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
09AUG82	ST. CROP	N	0	N	0	1870	310	55	2235
	S.E.	N	0	N	0	428	186	55	470
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	138	716	0	854
	S.E.	N	0	N	0	55	171	0	180
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	148	1305	0	1454
	S.E.	N	0	N	0	49	574	0	577
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	15	41	0	55
	S.E.	N	0	N	0	11	25	0	27
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	0	N	0	34	180	0	214
	S.E.	N	0	N	0	17	102	0	104
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	2205	2552	55	4812
	S.E.	N	0	N	0	435	636	55	773
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-6
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

STRIPED BASS YOUNG-OF-YEAR

WEEK BEGINNING MONDAY		REGIONS											
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	ST. CROP	21	399	167	65	10	25	9	3	5	6	6	6	721
	S.E.	13	113	46	23	4	16	9	1	5	4	4	4	127
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	63	303	367	20	1	9	11	0	7	2	24	8	815
	S.E.	29	90	119	13	1	3	6	0	3	2	17	3	154
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	35	358	582	138	6	7	4	0	0	8	4	2	1144
	S.E.	7	94	145	59	2	2	2	0	0	4	3	2	183
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	44	577	688	151	10	12	7	0	3	16	8	0	1517
	S.E.	22	151	353	94	5	3	4	0	3	10	6	0	396
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	44	212	133	59	5	7	6	0	5	0	6	0	476
	S.E.	10	84	33	31	2	7	4	0	3	0	3	0	96
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	206	1850	1936	433	32	60	37	3	21	31	47	16	4673
	S.E.	41	244	403	118	7	18	12	1	8	12	19	5	489
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-7
COMBINED STANDING CROP (IN THOUSANDS) OF JUVENILES
IN HUDSON RIVER ESTUARY,
DETERMINED BY THE BEACH SEINE AND FALL SHOALS SURVEYS.
STRIPED BASS YOUNG-OF-THE-YEAR
AUG 16 - AUG 22

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	177	56 *	165 *	0 *	397
	SE	115	34 *	100 *	0 *	156
TAPPAN ZEE	ST. CROP	3346	1275 *	67 *	55 *	4744
	SE	1202	350 *	46 *	55 *	1254
CROTON-HAVERSTRAW	ST. CROP	1400	89 *	801 *	0 *	2289
	SE	492	46 *	343 *	0 *	602
INDIAN POINT	ST. CROP	540	77 *	0 *	0 *	618
	SE	225	59 *	0 *	0 *	232
WEST POINT	ST. CROP	84	0 *	0 *	0 *	84
	SE	38	0 *	0 *	0 *	38
CORNWALL	ST. CROP	208	10 *	0 *	0 *	218
	SE	139	6 *	0 *	0 *	140
POUGHKEEPSIE	ST. CROP	71	2 *	25 *	0 *	99
	SE	73	2 *	25 *	0 *	77
HYDE PARK	ST. CROP	23	1 *	13 *	0 *	36
	SE	9	1 *	13 *	0 *	16
KINGSTON	ST. CROP	43	2 *	10 *	0 *	55
	SE	44	2 *	10 *	0 *	45
SAUGERTIES	ST. CROP	49	16 *	46 *	0 *	111
	SE	36	10 *	29 *	0 *	48
CATSKILL	ST. CROP	49	12 *	19 *	0 *	81
	SE	37	10 *	16 *	0 *	41
ALBANY	ST. CROP	49	0 *	0 *	0 *	49
	SE	36	0 *	0 *	0 *	36
STRATUM TOTAL	ST. CROP	6040	1540 *	1147 *	55 *	8781
	SE	1335	360 *	363 *	55 *	1431

STR BASS NIGHT/DAY CATCH RATIO = SBR= 2.136 VAR(SBR) =0.081
STR BASS BEACH SEINE EFFICIENCY = SBE= 0.255 VAR(SBE)= 0.002
STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

STRIPED BASS

TABLE B-7 (CONTINUED).
YOUNG-OF-THE-YEAR
AUG 23 - AUG 29

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	177	51	151 *	0	378
	SE	115	37	109 *	0	163
TAPPAN ZEE	ST. CROP	3346	135	135	0	3616
	SE	1202	73	92	0	1208
CROTON-HAVERSTRAW	ST. CROP	1400	14	1146	0	2560
	SE	492	14	322	0	588
INDIAN POINT	ST. CROP	540	7	0	0	548
	SE	225	7	0	0	225
WEST POINT	ST. CROP	84	0 *	0	0	84
	SE	38	0 *	0	0	38
CORNWALL	ST. CROP	208	0	0	0	208
	SE	139	0	0	0	139
POUGHKEEPSIE	ST. CROP	71	4 *	51	0	126
	SE	73	4 *	51	0	89
HYDE PARK	ST. CROP	23	1 *	26	0	50
	SE	9	1 *	26	0	27
KINGSTON	ST. CROP	43	0 *	0	0	43
	SE	44	0 *	0	0	44
SAUGERTIES	ST. CROP	49	6 *	18	0	73
	SE	36	6 *	18	0	41
CATSKILL	ST. CROP	49	14 *	23	0	87
	SE	37	10 *	16	0	41
ALBANY	ST. CROP	49	0 *	0	0 *	49
	SE	36	0 *	0	0 *	36
STRATUM TOTAL	ST. CROP	6040	233 *	1549	0 *	7821
	SE	1335	84 *	357	0 *	1385

STR BASS NIGHT/DAY CATCH RATIO = SBR= 2.136 VAR(SBR) =0.081
STR BASS BEACH SEINE EFFICIENCY = SBE= 0.255 VAR(SBE)= 0.002
STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-7 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

AUG 30 - SEP 5

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	530	45 *	133 *	0 *	707
	SE	270	31 *	92 *	0 *	287
TAPPAN ZEE	ST. CROP	2537	113 *	879 *	0 *	3530
	SE	938	66 *	579 *	0 *	1104
CROTON-HAVERSTRAW	ST. CROP	3073	21 *	777 *	0 *	3871
	SE	1204	17 *	297 *	0 *	1240
INDIAN POINT	ST. CROP	170	26 *	0 *	0 *	196
	SE	119	19 *	0 *	0 *	120
WEST POINT	ST. CROP	9	0 *	0 *	0 *	9
	SE	9	0 *	0 *	0 *	9
CORNWALL	ST. CROP	74	9 *	0 *	0 *	83
	SE	32	4 *	0 *	0 *	32
POUGHKEEPSIE	ST. CROP	95	2 *	25 *	0 *	122
	SE	56	2 *	25 *	0 *	61
HYDE PARK	ST. CROP	0	1 *	13 *	0 *	13
	SE	0	1 *	13 *	0 *	13
KINGSTON	ST. CROP	58	45 *	173 *	0 *	276
	SE	30	31 *	120 *	0 *	127
SAUGERTIES	ST. CROP	16	17 *	48 *	0 *	81
	SE	17	13 *	38 *	0 *	44
CATSKILL	ST. CROP	198	7 *	12 *	0 *	217
	SE	151	5 *	8 *	0 *	152
ALBANY	ST. CROP	65	0 *	0 *	0 *	65
	SE	27	0 *	0 *	0 *	27
STRATUM TOTAL	ST. CROP	6825	286 *	2059 *	0 *	9170
	SE	1564	84 *	670 *	0 *	1703

STR BASS NIGHT/DAY CATCH RATIO = SBR= 2.136 VAR(SBR) =0.081

STR BASS BEACH SEINE EFFICIENCY = SBE= 0.255 VAR(SBE)= 0.002

STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-7 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

SEP 6 - SEP 12

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	530	39	115 *	0	684
	SE	270	25	74 *	0	281
TAPPAN ZEE	ST. CROP	2537	92	1623	0	4252
	SE	938	59	1065	0	1420
CROTON-HAVERSTRAW	ST. CROP	3073	28	407	0	3509
	SE	1204	19	272	0	1234
INDIAN POINT	ST. CROP	170	46	0	0	215
	SE	119	30	0	0	123
WEST POINT	ST. CROP	9	0 *	0	0	9
	SE	9	0 *	0	0	9
CORNWALL	ST. CROP	74	18	0	0	92
	SE	32	7	0	0	33
POUGHKEEPSIE	ST. CROP	95	0 *	0	0	95
	SE	56	0 *	0	0	56
HYDE PARK	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
KINGSTON	ST. CROP	58	90 *	346	0	494
	SE	30	62 *	239	0	249
SAUGERTIES	ST. CROP	16	28 *	78	0	121
	SE	17	21 *	58	0	64
CATSKILL	ST. CROP	198	0 *	0	0	198
	SE	151	0 *	0	0	151
ALBANY	ST. CROP	65	0 *	0	0 *	65
	SE	27	0 *	0	0 *	27
STRATUM TOTAL	ST. CROP	6825	340 *	2569	0 *	9734
	SE	1564	99 *	1129	0 *	1931

STR BASS NIGHT/DAY CATCH RATIO = SBR= 2.136 VAR(SBR) =0.081
STR BASS BEACH SEINE EFFICIENCY = SBE= 0.255 VAR(SBE)= 0.002
STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

STRIPED BASS

TABLE B-7 (CONTINUED).
YOUNG-OF-THE-YEAR
SEP 13 - SEP 19

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	290	19 *	58 *	0 *	367
	SE	87	12 *	37 *	0 *	95
TAPPAN ZEE	ST. CROP	2997	46 *	830 *	0 *	3873
	SE	1027	30 *	551 *	0 *	1166
CROTON-HAVERSTRAW	ST. CROP	4875	14 *	212 *	0 *	5101
	SE	1621	10 *	144 *	0 *	1627
INDIAN POINT	ST. CROP	1158	23 *	0 *	0 *	1181
	SE	556	15 *	0 *	0 *	556
WEST POINT	ST. CROP	53	0 *	0 *	0 *	53
	SE	19	0 *	0 *	0 *	19
CORNWALL	ST. CROP	59	20 *	0 *	0 *	79
	SE	23	12 *	0 *	0 *	26
POUGHKEEPSIE	ST. CROP	36	0 *	0 *	0 *	36
	SE	17	0 *	0 *	0 *	17
HYDE PARK	ST. CROP	2	0 *	0 *	0 *	2
	SE	2	0 *	0 *	0 *	2
KINGSTON	ST. CROP	0	48 *	183 *	0 *	231
	SE	0	34 *	130 *	0 *	134
SAUGERTIES	ST. CROP	65	14 *	39 *	0 *	118
	SE	38	10 *	29 *	0 *	49
CATSKILL	ST. CROP	33	0 *	0 *	0 *	33
	SE	23	0 *	0 *	0 *	23
ALBANY	ST. CROP	16	0 *	0 *	0 *	16
	SE	17	0 *	0 *	0 *	17
STRATUM TOTAL	ST. CROP	9585	184 *	1322 *	0 *	11090
	SE	2001	52 *	586 *	0 *	2085

STR BASS NIGHT/DAY CATCH RATIO = SBR= 2.136 VAR(SBR) =0.081
STR BASS BEACH SEINE EFFICIENCY = SBE= 0.255 VAR(SBE)= 0.002
STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-7 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

SEP 20 - SEP 26

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	290	0	0 *	0	290
	SE	87	0	0 *	0	87
TAPPAN ZEE	ST. CROP	2997	0	37	0	3034
	SE	1027	0	37	0	1028
CROTON-HAVERSTRAW	ST. CROP	4875	0	16	0	4892
	SE	1621	0	16	0	1621
INDIAN POINT	ST. CROP	1158	0	0	0	1158
	SE	556	0	0	0	556
WEST POINT	ST. CROP	53	0 *	0	0	53
	SE	19	0 *	0	0	19
CORNWALL	ST. CROP	59	22	0	0	81
	SE	23	16	0	0	28
POUGHKEEPSIE	ST. CROP	36	0 *	0	0	36
	SE	17	0 *	0	0	17
HYDE PARK	ST. CROP	2	0 *	0	0	2
	SE	2	0 *	0	0	2
KINGSTON	ST. CROP	0	5 *	21	0	26
	SE	0	5 *	21	0	21
SAUGERTIES	ST. CROP	65	0 *	0	0	65
	SE	38	0 *	0	0	38
CATSKILL	ST. CROP	33	0 *	0	0	33
	SE	23	0 *	0	0	23
ALBANY	ST. CROP	16	0 *	0	0 *	16
	SE	17	0 *	0	0 *	17
STRATUM TOTAL	ST. CROP	9585	27 *	74	0 *	9686
	SE	2001	17 *	45	0 *	2001

STR BASS NIGHT/DAY CATCH RATIO = SBR= 2.136 VAR(SBR) =0.081

STR BASS BEACH SEINE EFFICIENCY = SBE= 0.255 VAR(SBE)= 0.002

STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

STRIPED BASS TABLE B-7 (CONTINUED).
YOUNG-OF-THE-YEAR
SEP 27 - OCT 3

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	366	0 *	0 *	0 *	366
	SE	204	0 *	0 *	0 *	204
TAPPAN ZEE	ST. CROP	4837	23 *	161 *	0 *	5020
	SE	1654	13 *	117 *	0 *	1659
CROTON-HAVERSTRAW	ST. CROP	5760	0 *	30 *	0 *	5790
	SE	3214	0 *	30 *	0 *	3214
INDIAN POINT	ST. CROP	1266	0 *	0 *	0 *	1266
	SE	835	0 *	0 *	0 *	835
WEST POINT	ST. CROP	84	1 *	14 *	0 *	99
	SE	47	1 *	14 *	0 *	49
CORNWALL	ST. CROP	104	14 *	0 *	0 *	118
	SE	36	11 *	0 *	0 *	37
POUGHKEEPSIE	ST. CROP	59	0 *	0 *	0 *	59
	SE	35	0 *	0 *	0 *	35
HYDE PARK	ST. CROP	4	0 *	0 *	0 *	4
	SE	3	0 *	0 *	0 *	3
KINGSTON	ST. CROP	29	3 *	10 *	0 *	42
	SE	30	3 *	10 *	0 *	31
SAUGERTIES	ST. CROP	131	0 *	0 *	0 *	131
	SE	91	0 *	0 *	0 *	91
CATSKILL	ST. CROP	66	0 *	0 *	0 *	66
	SE	52	0 *	0 *	0 *	52
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	12706	40 *	216 *	0 *	12962
	SE	3718	17 *	122 *	0 *	3720

STR BASS NIGHT/DAY CATCH RATIO = SBR= 2.136 VAR(SBR) =0.081
STR BASS BEACH SEINE EFFICIENCY = SBE= 0.255 VAR(SBE)= 0.002
STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

STRIPED BASS

TABLE B-7 (CONTINUED).
YOUNG-OF-THE-YEAR
OCT 4 - OCT 10

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	366	0	0 *	0	366
	SE	204	0	0 *	0	204
TAPPAN ZEE	ST. CROP	4837	45	285	0	5167
	SE	1654	25	197	0	1666
CROTON-HAVERSTRAW	ST. CROP	5760	0	44	0	5805
	SE	3214	0	44	0	3215
INDIAN POINT	ST. CROP	1266	0	0	0	1266
	SE	835	0	0	0	835
WEST POINT	ST. CROP	84	2 *	28	0	114
	SE	47	2 *	28	0	54
CORNWALL	ST. CROP	104	6	0	0	110
	SE	36	6	0	0	36
POUGHKEEPSIE	ST. CROP	59	0 *	0	0	59
	SE	35	0 *	0	0	35
HYDE PARK	ST. CROP	4	0 *	0	0	4
	SE	3	0 *	0	0	3
KINGSTON	ST. CROP	29	0 *	0	0	29
	SE	30	0 *	0	0	30
SAUGERTIES	ST. CROP	131	0 *	0	0	131
	SE	91	0 *	0	0	91
CATSKILL	ST. CROP	66	0 *	0	0	66
	SE	52	0 *	0	0	52
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	12706	53 *	358	0 *	13117
	SE	3718	26 *	204	0 *	3724

STR BASS NIGHT/DAY CATCH RATIO = SBR= 2.136 VAR(SBR) =0.081
STR BASS BEACH SEINE EFFICIENCY = SBE= 0.255 VAR(SBE)= 0.002
STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

STRIPED BASS

TABLE B-7 (CONTINUED).
YOUNG-OF-THE-YEAR
OCT 11 - OCT 17

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	366	0 *	0 *	0 *	366
	SE	118	0 *	0 *	0 *	118
TAPPAN ZEE	ST. CROP	1776	45 *	285 *	0 *	2107
	SE	802	25 *	197 *	0 *	826
CROTON-HAVERSTRAW	ST. CROP	1110	0 *	44 *	0 *	1155
	SE	367	0 *	44 *	0 *	370
INDIAN POINT	ST. CROP	494	0 *	0 *	0 *	494
	SE	283	0 *	0 *	0 *	283
WEST POINT	ST. CROP	40	2 *	28 *	0 *	70
	SE	22	2 *	28 *	0 *	36
CORNWALL	ST. CROP	59	6 *	0 *	0 *	65
	SE	61	6 *	0 *	0 *	61
POUGHKEEPSIE	ST. CROP	48	0 *	0 *	0 *	48
	SE	36	0 *	0 *	0 *	36
HYDE PARK	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
KINGSTON	ST. CROP	43	0 *	0 *	0 *	43
	SE	30	0 *	0 *	0 *	30
SAUGERTIES	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
CATSKILL	ST. CROP	49	0 *	0 *	0 *	49
	SE	27	0 *	0 *	0 *	27
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	3986	53 *	358 *	0 *	4397
	SE	937	26 *	204 *	0 *	960

STR BASS NIGHT/DAY CATCH RATIO = SBR= 2.136 VAR(SBR) =0.081
STR BASS BEACH SEINE EFFICIENCY = SBE= 0.255 VAR(SBE)= 0.002
STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-8
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		STRIPED BASS YONKERS S	B	C	R	TAPPAN ZEE S	B	C	R	YEARLING CROTON-HAVERSTRAW S	B	C	R
09AUG82	ST. CROP	0	N	0	0	20	0	0	20	9	0	0	9
	S.E.	0	N	0	0	14	0	0	14	9	0	0	9
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	12	0	0	12	0	0	0	0
	S.E.	0	N	0	0	12	0	0	12	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	46	0	46	0	12	0	12
	S.E.	0	N	0	0	0	30	0	30	0	12	0	12
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	0	N	0	0	33	23	0	56	0	0	0	0
	S.E.	0	N	0	0	19	23	0	30	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	0	0	65	69	0	134	9	12	0	21
	S.E.	0	N	0	0	26	38	0	46	9	12	0	15
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-8 (CONTINUED).

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	5	0	0	5	N	0	0	0	0	0	0	0
	S.E.	5	0	0	5	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	7	0	0	7
	S.E.	0	0	0	0	N	0	0	0	4	0	0	4
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	5	0	0	5	N	0	0	0	7	0	0	7
	S.E.	5	0	0	5	N	0	0	0	4	0	0	4
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-8 (CONTINUED).

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	15	0	15	N	0	0	0
	S.E.	N	0	0	0	N	15	0	15	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	185	185	N	0	0	0	N	0	0	0
	S.E.	N	0	185	185	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	185	185	N	15	0	15	N	0	0	0
	S.E.	N	0	185	185	N	15	0	15	N	0	0	0
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-8 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS YEARLING							
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
040CT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-8 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS YEARLING							
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	N	0	35	15	0	50
	S.E.	N	0	N	0	18	15	0	23
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	12	0	0	12
	S.E.	N	0	N	0	12	0	0	12
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	0	58	185	242
	S.E.	N	0	N	0	0	32	185	188
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	7	0	0	7
	S.E.	N	0	N	0	4	0	0	4
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	ST. CROP	N	0	N	0	33	23	0	56
	S.E.	N	0	N	0	19	23	0	30
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	87	96	185	368
	S.E.	N	0	N	0	29	43	185	192
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-9
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	4	4	4	0	0	1	0	0	2	0	0	15
	S.E.	0	3	3	2	0	0	1	0	0	2	0	0	5
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	8	6	0	1	4	3	0	3	8	0	0	31
	S.E.	0	4	4	0	1	4	3	0	2	8	0	0	11
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	0	8	2	0	0	2	4	0	0	6	12	27	60
	S.E.	0	6	2	0	0	2	4	0	0	3	12	25	29
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	2	8	36	0	0	2	0	0	5	0	0	0	53
	S.E.	2	6	25	0	0	2	0	0	3	0	0	0	26
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	2	0	2	2	0	0	0	0	0	2	0	2	9
	S.E.	2	0	2	2	0	0	0	0	0	2	0	2	4
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	3	27	50	6	1	7	9	0	9	18	12	29	168
	S.E.	2	10	26	3	1	4	5	0	4	9	12	25	41
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-10
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		STRIPED BASS YONKERS S	B	C	R	TAPPAN ZEE S	B	C	R	OLDER CROTON-HAVERSTRAW S	B	C	R
09AUG82	ST. CROP	9	N	0	9	11	43	0	54	0	0	0	0
	S.E.	9	N	0	9	11	28	0	30	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	11	N	0	11	0	0	0	0	0	0	0	0
	S.E.	11	N	0	11	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	21	N	0	21	11	43	0	54	0	0	0	0
	S.E.	15	N	0	15	11	28	0	30	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-10 (CONTINUED).

STRIPED BASS 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	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	3	0	0	3
	S.E.	0	0	0	0	N	0	0	0	3	0	0	3
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	13	0	13	N	0	0	0	0	0	0	0
	S.E.	0	13	0	13	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	13	0	13	N	0	0	0	3	0	0	3
	S.E.	0	13	0	13	N	0	0	0	3	0	0	3
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-10 (CONTINUED).

STRIPED BASS OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	22	0	22
	S.E.	N	0	0	0	N	0	0	0	N	15	0	15
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	0	0	0	N	13	0	13	N	0	0	0
	S.E.	N	0	0	0	N	13	0	13	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	13	0	13	N	22	0	22
	S.E.	N	0	0	0	N	13	0	13	N	15	0	15
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-10 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS SAUGERTIES S	B	C	R	OLDER CATSKILL S	B	C	R
09AUG82	ST. CROP	N	25	0	25	N	0	0	0
	S.E.	N	17	0	17	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	13	0	13
	S.E.	N	0	0	0	N	13	0	13
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	25	0	25	N	13	0	13
	S.E.	N	17	0	17	N	13	0	13
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-10 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS ALBANY S	B	C	R	OLDER COMBINED S	B	C	R
09AUG82	ST. CROP	N	0	N	0	21	89	0	110
	S.E.	N	0	N	0	15	36	0	39
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	3	26	0	30
	S.E.	N	0	N	0	3	19	0	19
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	0	N	0	11	13	0	24
	S.E.	N	0	N	0	11	13	0	17
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	35	129	0	164
	S.E.	N	0	N	0	19	42	0	46
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-11
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	2	0	0	0	0	0	0	0	2	0	0	4
	S.E.	0	2	0	0	0	0	0	0	0	2	0	0	3
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	0	0	15	0	0	0	0	0	0	0	0	0	15
	S.E.	0	0	15	0	0	0	0	0	0	0	0	0	15
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	0	0	2	0	0	2	0	0	0	0	0	0	4
	S.E.	0	0	2	0	0	2	0	0	0	0	0	0	3
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	0	2	17	0	0	2	0	0	0	2	0	0	23
	S.E.	0	2	15	0	0	2	0	0	0	2	0	0	16
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-12
STANDING CROP (IN THOUSANDS) BY WEEK, REGION, AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE PERCH EGGS

WEEK BEGINNING MONDAY		YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW		
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	0	N	0	0	0	0	0	0	495	0	0	495
	S.E.	0	N	0	0	0	0	0	0	339	0	0	339
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	448	0	0	448
	S.E.	0	N	0	0	0	0	0	0	448	0	0	448
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	0	0	0	0	216	21	0	237
	S.E.	0	N	0	0	0	0	0	0	216	21	0	217
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	264	507	491	1262	3933	0	0	3933
	S.E.	0	N	0	0	264	507	491	754	3154	0	0	3154
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	0	N	0	0	0	0	0	0	33	0	0	33
	S.E.	0	N	0	0	0	0	0	0	33	0	0	33
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	0	0	0	0	2818	33	0	2852
	S.E.	0	N	0	0	0	0	0	0	2127	21	0	2127
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	0	0	0	39	0	0	39
	S.E.	0	N	0	0	0	0	0	0	39	0	0	39
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	264	507	491	1262	7982	55	0	8037
	S.E.	0	N	0	0	264	507	491	754	3852	30	0	3852
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-12 (CONTINUED).

WHITE PERCH 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	ST. CROP	268	679	317	1264	N	3286	4420	7706	98	13095	2332	15526
	S.E.	183	656	171	702	N	1560	1305	2034	61	5691	1718	5945
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	0	134	1437	1571	N	5549	4702	10252	866	2198	84	3148
	S.E.	0	111	667	676	N	4611	2273	5140	849	1195	53	1467
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	15	32	573	619	N	948	1519	2467	64	6352	342	6758
	S.E.	15	21	466	466	N	624	1225	1374	41	2860	284	2874
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	11	191	977	1179	N	439	507	946	9	664	241	915
	S.E.	11	143	415	439	N	312	357	474	9	456	241	516
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	0	0	2008	2008	N	1331	648	1978	22	157	40	219
	S.E.	0	0	1334	1334	N	911	271	950	14	142	40	148
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	0	0	0	0	N	228	1488	1716	7	5379	0	5386
	S.E.	0	0	0	0	N	181	652	677	7	4243	0	4243
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	0	16	63	79	N	410	1148	1558	0	8207	112	8319
	S.E.	0	16	43	46	N	376	478	609	0	2556	92	2558
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	0	0	0	0	N	745	61	807	0	933	0	933
	S.E.	0	0	0	0	N	684	46	685	0	483	0	483
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	0	0	0	0	N	8	279	287	0	2019	0	2019
	S.E.	0	0	0	0	N	8	213	213	0	1531	0	1531
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	294	1052	5374	6720	N	12946	14772	27717	1068	39004	3151	43223
	S.E.	184	681	1626	1772	N	5065	3045	5909	852	8327	1762	8554
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-12 (CONTINUED).

WHITE PERCH EGGS

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	ST. CROP	N	14543	1154	15697	N	85359	12990	98349	N	20676	4232	24908
	S.E.	N	4481	570	4517	N	15622	7442	17305	N	11648	2719	11961
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	30417	10915	41332	N	102066	13805	115871	N	48561	305	48866
	S.E.	N	15829	5993	16925	N	21922	5883	22697	N	26702	305	26704
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	5794	1027	6821	N	18793	1487	20280	N	2195	40076	42271
	S.E.	N	2428	518	2482	N	11044	1106	11099	N	2195	39555	39616
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	89760	3718	93478	N	1342	372	1714	N	9985	3448	13433
	S.E.	N	71867	1887	71892	N	518	232	568	N	5240	2737	5912
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	2825	220	3045	N	406	310	716	N	1255	286	1542
	S.E.	N	1662	139	1668	N	272	310	412	N	624	240	669
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	46426	3629	50055	N	36911	30	36941	N	338	136	474
	S.E.	N	42079	2318	42143	N	34919	30	34919	N	338	70	345
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	2069	243	2312	N	224	42	266	N	0	0	0
	S.E.	N	2003	204	2014	N	153	42	159	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	1425	199	1624	N	38	0	38	N	133	0	133
	S.E.	N	853	162	868	N	24	0	24	N	77	0	77
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	28	1204	1232	N	0	0	0	N	111	0	111
	S.E.	N	28	1006	1006	N	0	0	0	N	111	0	111
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	193288	22309	215597	N	245140	29037	274177	N	83255	48483	131738
	S.E.	N	84968	6822	85241	N	45456	9559	46450	N	29690	39745	49610
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-12 (CONTINUED).

WHITE PERCH EGGS

WEEK BEGINNING MONDAY		SAUGERTIES S	B	C	R	CATSKILL S	B	C	R
10MAY82	ST. CROP	N	578385	54602	632986	N	197609	35587	233195
	S.E.	N	227176	44537	231501	N	113178	21099	115127
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	68778	6557	75335	N	131985	13571	145556
	S.E.	N	49399	4893	49640	N	124635	9325	124983
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	50340	238507	288846	N	58355	83130	141486
	S.E.	N	17575	233443	234103	N	33672	24727	41776
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	22996	9950	32946	N	4314	554	4869
	S.E.	N	6422	6169	8906	N	2228	449	2273
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	15363	7270	22633	N	2944	287	3231
	S.E.	N	5073	6274	8069	N	1883	287	1905
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	8047	0	8047	N	35053	7906	42959
	S.E.	N	4060	0	4060	N	7598	2188	7907
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	3859	582	4442	N	5325	2574	7899
	S.E.	N	3627	582	3674	N	3319	1295	3563
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	4457	457	4914	N	2405	0	2405
	S.E.	N	3563	457	3592	N	1387	0	1387
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	175	1347	1522	N	68	75	142
	S.E.	N	120	1347	1352	N	68	75	101
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	752399	319273	1071672	N	438058	143684	581742
	S.E.	N	233383	237871	333242	N	171918	33916	175232
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-12 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH ALBANY S	B	C	R	EGGS COMBINED S	B	C	R
10MAY82	ST. CROP	N	3481	N	3481	862	917113	115634	1033608
	S.E.	N	2020	N	2020	390	254671	49965	259526
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	14419	N	14419	1315	404108	51376	456798
	S.E.	N	11375	N	11375	960	139894	13679	140564
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	27673	N	27673	294	170503	366661	537459
	S.E.	N	27301	N	27301	220	48263	238065	242908
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	92676	N	92676	4218	222875	20258	247351
	S.E.	N	32198	N	32198	3165	79222	7069	79600
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	2295157	N	2295157	55	2319439	11070	2330564
	S.E.	N	1070183	N	1070183	35	1070199	6440	1070218
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	10346	N	10346	2826	142760	13189	158775
	S.E.	N	5357	N	5357	2127	55776	3255	55912
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	5553	N	5553	39	25664	4765	30468
	S.E.	N	3281	N	3281	39	6757	1516	6925
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	135	N	135	0	10271	717	10988
	S.E.	N	135	N	135	0	4009	487	4038
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	559	N	559	0	2969	2904	5873
	S.E.	N	300	N	300	0	1571	1696	2312
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	2450000	N	2450000	9608	4215702	586574	4811884
	S.E.	N	1071096	N	1071096	3958	1114241	243856	1140620
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-13
STANDING CROP (IN THOUSANDS) BY WEEK, REGION, AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE PERCH — YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	28	N	0	28	336	83	219	638	205	281	40	526
	S.E.	28	N	0	28	206	83	110	248	92	106	40	146
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	25	0	0	25
	S.E.	0	N	0	0	0	0	0	0	25	0	0	25
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	24	N	181	206	0	0	0	0	0	50	68	118
	S.E.	24	N	181	183	0	0	0	0	0	50	68	84
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	364	63	0	428	483	0	0	483
	S.E.	0	N	0	0	215	63	0	224	234	0	0	234
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	300	N	0	300	340	43	208	591	1549	337	853	2739
	S.E.	221	N	0	221	185	43	208	281	374	161	502	647
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	129	117	0	246	1741	16	89	1846
	S.E.	0	N	0	0	129	48	0	137	686	16	40	687
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	40	0	40	78	74	0	153
	S.E.	0	N	0	0	0	40	0	40	78	56	0	97
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	85	N	0	85	241	39	0	280	0	0	0	0
	S.E.	0	N	0	0	241	39	0	245	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	438	N	181	619	1409	386	427	2222	4081	758	1051	5890
	S.E.	224	N	181	288	445	135	235	521	825	207	510	992
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-13 (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	ST. CROP	37	57	386	480	N	550	1796	2345	235	1356	2435	4026
	S.E.	24	40	85	97	N	434	285	520	73	357	967	1034
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	23	793	472	1289	N	728	5675	6402	1537	12182	5401	19120
	S.E.	23	445	178	480	N	438	1939	1988	889	4905	3785	6259
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	26	133	1261	1420	N	1469	13094	14563	2130	15654	18313	36096
	S.E.	26	93	510	519	N	732	4172	4235	706	6503	11334	13086
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	91	445	2650	3187	N	1172	5017	6189	471	2050	3215	5737
	S.E.	50	218	891	918	N	538	956	1097	164	558	3051	3106
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	762	433	385	1580	N	91	473	564	371	186	211	768
	S.E.	693	305	106	764	N	67	161	175	366	93	80	386
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	0	56	83	139	N	34	306	340	16	43	72	130
	S.E.	0	56	45	71	N	26	121	123	16	24	40	49
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	7	0	60	67	N	55	290	345	0	80	437	517
	S.E.	7	0	41	41	N	31	119	123	0	30	209	211
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	0	0	31	31	N	0	74	74	0	43	52	96
	S.E.	0	0	31	31	N	0	51	51	0	34	28	44
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	0	0	0	0	N	8	0	8	0	0	18	18
	S.E.	0	0	0	0	N	8	0	8	0	0	18	18
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	947	1918	5328	8193	N	4106	26724	30831	4761	31593	30155	66509
	S.E.	696	593	1053	1394	N	1101	4713	4840	1206	8173	12373	14877
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-13 (CONTINUED).

WHITE PERCH

YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		S	POUGHKEEPSIE B	C	R	S	HYDE PARK B	C	R	S	KINGSTON B	C	R
10MAY82	ST. CROP	N	7388	4712	12100	N	21595	12974	34569	N	20637	11054	31691
	S.E.	N	3922	3167	5042	N	4508	4840	6614	N	7850	3077	8431
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	66149	60116	126265	N	132398	239611	372010	N	129140	67441	196581
	S.E.	N	19407	21006	28598	N	26292	57609	63325	N	49585	26137	56052
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	62950	98023	160973	N	47661	45991	93652	N	35754	14844	50598
	S.E.	N	17554	27722	32813	N	19132	19528	27339	N	3593	8746	9455
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	7339	7288	14627	N	2853	2539	5391	N	763	2087	2850
	S.E.	N	1980	1672	2592	N	1083	1157	1585	N	282	950	991
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	907	1403	2310	N	204	1964	2168	N	3376	17660	21035
	S.E.	N	240	573	621	N	96	996	1001	N	1559	6814	6990
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	53	2448	2502	N	210	416	626	N	348	2240	2588
	S.E.	N	34	747	747	N	145	171	225	N	212	689	720
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	529	791	1320	N	498	1853	2350	N	913	739	1652
	S.E.	N	228	400	460	N	218	577	617	N	302	152	338
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	0	365	365	N	58	0	58	N	0	0	0
	S.E.	N	0	221	221	N	58	0	58	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	28	0	28	N	19	0	19	N	0	0	0
	S.E.	N	28	0	28	N	19	0	19	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	145342	175147	320489	N	205496	305348	510844	N	190931	116065	306997
	S.E.	N	26537	34981	43908	N	32846	61043	69319	N	50357	28582	57903
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-13 (CONTINUED).

WHITE PERCH — YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
10MAY82	ST. CROP	N	6770	31672	38442	N	4201	4019	8220
	S.E.	N	1247	3093	3335	N	948	1709	1954
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	68643	60312	128955	N	2671	10622	13292
	S.E.	N	57250	22397	61475	N	1389	8229	8346
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	78516	113505	192020	N	17766	28095	45861
	S.E.	N	27233	9786	28938	N	9891	7324	12307
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	3481	4339	7821	N	7092	1620	8712
	S.E.	N	1204	2855	3099	N	2841	946	2994
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	77249	17879	95128	N	55769	24952	80720
	S.E.	N	30842	11805	33025	N	14471	11052	18209
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	8172	14808	22980	N	24330	53819	78149
	S.E.	N	3275	0	3275	N	13935	2093	14092
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	1121	1750	2871	N	8226	8394	16620
	S.E.	N	665	3	665	N	5461	4881	7324
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	852	0	852	N	80	411	491
	S.E.	N	792	0	792	N	80	234	247
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	0	0	0	N	270	730	1000
	S.E.	N	0	0	0	N	270	453	527
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	244805	244265	489070	N	120406	132660	253066
	S.E.	N	70607	27468	75761	N	23286	16607	28601
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-13 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YOLK-SAC LARVAE			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	1173	N	1173	840	64089	69307	134236
	S.E.	N	594	N	594	240	10023	7514	12529
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	747	N	747	1586	413451	449650	864687
	S.E.	N	396	N	396	889	82648	70927	108913
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	758	N	758	2181	260710	333376	596266
	S.E.	N	758	N	758	707	39623	39012	55610
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	32587	N	32587	1410	57845	28755	88011
	S.E.	N	4063	N	4063	361	5644	5010	7556
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	522	N	522	3322	139116	65986	208425
	S.E.	N	522	N	522	915	34111	17595	38393
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	32765	N	32765	1885	66145	74280	142310
	S.E.	N	13492	N	13492	698	19673	2337	19824
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	30940	N	30940	86	42476	14315	56876
	S.E.	N	10815	N	10815	79	12142	4940	13109
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	2473	N	2473	327	3547	933	4806
	S.E.	N	1350	N	1350	241	1569	328	1621
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	5277	N	5277	0	5603	748	6351
	S.E.	N	3614	N	3614	0	3624	453	3652
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	107242	N	107242	11636	1052983	1037351	2101969
	S.E.	N	18214	N	18214	1693	101226	83510	131238
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-14
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	N	0	0	118	42	0	160	0	38	0	38
	S.E.	0	N	0	0	118	42	0	126	0	38	0	38
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	111	0	110	221	36	0	257	293
	S.E.	0	N	0	0	111	0	110	157	36	0	257	260
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	116	120	688	924	1808	584	2307	4699
	S.E.	0	N	0	0	116	70	688	701	1687	176	1925	2566
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	3133	N	3914	7047	9180	23578	36055	68813	116850	44167	109553	270570
	S.E.	584	N	2240	2315	6364	6360	5538	10565	35646	7172	26988	45282
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	522	N	1435	1957	2655	32279	6887	41820	111704	18934	76788	207426
	S.E.	0	N	1028	1028	1783	17124	4252	17734	17199	9546	19923	27997
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	9373	9373	8639	6020	2863	17522	14173	5447	11146	30765
	S.E.	0	N	9373	9373	8223	3007	1980	8976	4629	944	1925	5101
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	14935	4001	14929	33865	5660	2105	10516	18281
	S.E.	0	N	0	0	6547	2196	5103	8586	1706	475	2699.	3228
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	107	62	169	944	3241	4681	8866
	S.E.	0	N	0	0	0	71	62	94	358	926	905	1343
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	3655	N	14722	18377	35754	66146	61595	163495	251176	74516	215247	540939
	S.E.	584	N	9691	9709	12418	18643	8899	24103	39922	12024	33777	53658
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-14 (CONTINUED).

WHITE PERCH — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT S	INDIAN POINT B	INDIAN POINT C	INDIAN POINT R	S	WEST POINT B	WEST POINT C	WEST POINT R	S	CORNWALL B	CORNWALL C	CORNWALL R
10MAY82	ST. CROP	25	23	142	189	N	203	548	751	50	311	324	686
	S.E.	25	23	69	77	N	203	103	227	40	140	151	209
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	45	295	321	662	N	1905	7608	9512	1173	7764	9173	18110
	S.E.	31	165	115	204	N	1572	1820	2405	348	1826	2722	3297
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	946	14660	15606	N	26594	210660	237254	20683	68184	577757	666623
	S.E.	0	652	6779	6810	N	8058	51272	51901	9144	10819	257561	257950
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	27629	22730	220441	270800	N	19056	506036	525092	32154	103990	143860	280005
	S.E.	16099	6733	47939	51016	N	4855	94638	94762	12806	27875	72276	78516
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	12168	44759	169141	226068	N	24737	320698	345435	9341	47474	208563	265379
	S.E.	3678	10057	29303	31198	N	9243	62241	62923	4031	32649	70232	77555
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	9116	22426	121057	152599	N	5426	67053	72479	15077	34848	67604	117529
	S.E.	7403	8439	35979	37690	N	3045	20335	20562	5818	13218	7377	16217
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	2022	8053	45943	56019	N	15085	52742	67827	2158	24562	84322	111043
	S.E.	172	2007	6378	6689	N	6063	5832	8412	1616	10464	24250	26460
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	3043	8562	66344	77949	N	19523	88596	108119	6038	36343	56016	98397
	S.E.	1106	4747	15948	16676	N	6786	11809	13620	2635	5868	9648	11596
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	267	4167	22887	27320	N	11940	45104	57044	2810	17304	70703	90817
	S.E.	158	1913	6220	6510	N	4186	5400	6832	311	3235	18733	19013
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	54314	111960	660937	827211	N	124468	1299045	1423513	89485	340780	1218321	1648587
	S.E.	18133	15759	69505	73540	N	16913	126801	127924	17535	47880	278546	283175
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-14 (CONTINUED).

WHITE PERCH

POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		S	POUGHKEEPSIE B	C	R	S	HYDE PARK B	C	R	S	KINGSTON B	C	R
10MAY82	ST. CROP	N	1515	383	1898	N	103	114	217	N	0	0	0
	S.E.	N	991	323	1042	N	49	63	80	N	0	0	0
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	16143	62788	78931	N	27016	44506	71523	N	16142	93461	109603
	S.E.	N	3727	18848	19213	N	13018	11917	17649	N	6640	33044	33705
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	227578	699805	927383	N	172767	534543	707310	N	57226	69029	126256
	S.E.	N	46543	137705	145358	N	57534	185849	194551	N	35328	46861	58686
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	388988	686876	1075864	N	69630	299400	369030	N	100242	109556	209798
	S.E.	N	68222	86699	110322	N	20974	76064	78903	N	15510	39039	42007
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	87402	274427	361829	N	1231	240382	241613	N	79334	131660	210995
	S.E.	N	18461	62244	64924	N	269	64238	64238	N	33960	48642	59323
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	261216	203890	465106	N	20716	145190	165906	N	8384	47119	55503
	S.E.	N	140421	46486	147916	N	9861	52519	53437	N	4468	16566	17158
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	23754	94365	118119	N	12987	79691	92678	N	42540	47773	90312
	S.E.	N	2946	25291	25462	N	2797	15931	16175	N	9407	8991	13013
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	63913	173920	237833	N	29856	114609	144465	N	34308	215980	250288
	S.E.	N	16392	28254	32665	N	5795	16657	17636	N	20135	40796	45494
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	69083	116777	185861	N	26480	84295	110775	N	41532	198186	239718
	S.E.	N	23970	27042	36137	N	11697	18244	21671	N	10099	50700	51696
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	1139590	2313232	3452823	N	360786	1542731	1903517	N	379707	912765	1292472
	S.E.	N	166572	187188	250570	N	64770	219582	228936	N	57462	108480	122759
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-14 (CONTINUED).

WHITE PERCH — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES S	B	C	R	CATSKILL S	B	C	R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	14456	15025	29481	N	1472	1717	3189
	S.E.	N	5642	1663	5882	N	1252	947	1570
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	92970	136150	229119	N	17258	33985	51244
	S.E.	N	28573	42060	50848	N	13458	4972	14347
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	83125	73051	156176	N	48312	40692	89004
	S.E.	N	23645	38272	44987	N	40862	9422	41935
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	96708	87876	184584	N	293	599	892
	S.E.	N	24414	28720	37694	N	195	284	345
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	12478	61648	74126	N	14885	2707	17593
	S.E.	N	4992	0	4992	N	4142	1329	4350
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	71898	146005	217903	N	49516	65937	115453
	S.E.	N	24790	85527	89047	N	22684	30758	38218
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	121226	87134	208360	N	213430	123146	336576
	S.E.	N	46961	13114	48757	N	99020	46876	109556
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	85572	23185	108757	N	5862	16876	22738
	S.E.	N	37586	4094	37808	N	1262	10774	10847
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	578433	630075	1208508	N	351029	285659	636687
	S.E.	N	79126	107540	133513	N	110412	58101	124766
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-14 (CONTINUED).

WHITE PERCH — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
10MAY82	ST. CROP	N	0	N	0	194	2234	1512	3940
	S.E.	N	0	N	0	127	1024	383	1101
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	232	N	232	1218	85425	234599	321241
	S.E.	N	232	N	232	349	16332	40045	43249
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	0	N	0	20830	663523	2276956	2961308
	S.E.	N	0	N	0	9145	88908	355675	366733
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	4216	N	4216	61708	840993	2082907	2985608
	S.E.	N	3545	N	3545	20641	91772	181280	204232
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	78	N	78	150672	449762	1582869	2183303
	S.E.	N	78	N	78	36624	58606	147040	162471
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	71	N	71	139074	431662	801378	1372114
	S.E.	N	71	N	71	19689	143237	85872	168162
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	68	N	68	26992	259928	640160	927080
	S.E.	N	68	N	68	9575	37341	99967	107142
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	10328	N	10328	29676	543594	951191	1524461
	S.E.	N	5206	N	5206	7344	113372	75031	136150
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	3358	N	3358	4021	268645	582757	855423
	S.E.	N	1759	N	1759	500	47574	64707	80315
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	18351	N	18351	434385	3545766	9154329	13134480
	S.E.	N	6545	N	6545	48832	238866	458013	518861
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-15
STANDING CROP (IN THOUSANDS) BY WEEK, REGION, AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE PERCH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS S	B	C	R	TAPPAN ZEE S	B	C	R	CROTON-HAVERSTRAW S	B	C	R
10MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	21	0	21
	S.E.	0	N	0	0	0	0	0	0	0	21	0	21
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	127	0	0	127	0	0	0	0
	S.E.	0	N	0	0	127	0	0	127	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	127	0	0	127	0	21	0	21
	S.E.	0	N	0	0	127	0	0	127	0	21	0	21
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-15 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	S	WEST POINT B	C	R	S	CORNWALL B	C	R
10MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	0	0	0	0	N	38	18	57	0	49	54	103
	S.E.	0	0	0	0	N	28	18	34	0	39	54	67
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	26	61	220	307	N	27	259	286	45	226	140	411
	S.E.	11	61	102	119	N	13	91	92	26	54	77	97
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	26	61	220	307	N	65	277	342	45	275	195	515
	S.E.	11	61	102	119	N	31	93	98	26	66	94	118
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-15 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	83	162	245	N	338	0	338	N	0	0	0
	S.E.	N	83	125	151	N	292	0	292	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	1226	1926	3152	N	319	1285	1605	N	330	121	451
	S.E.	N	624	852	1056	N	209	1204	1222	N	278	121	303
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	1310	2088	3397	N	658	1285	1943	N	330	121	451
	S.E.	N	629	861	1067	N	359	1204	1256	N	278	121	303
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-15 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH YOUNG-OF-THE-YEAR						
		SAUGERTIES			CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	0	152	152	N	0	0	0
	S.E.	N	0	152	152	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	152	152	N	0	0	0
	S.E.	N	0	152	152	N	0	0	0
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-15 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	0	N	0	0	530	386	917
	S.E.	N	0	N	0	0	308	205	371
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	0	N	0	198	2190	3951	6339
	S.E.	N	0	N	0	130	719	1488	1657
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	198	2720	4338	7256
	S.E.	N	0	N	0	130	782	1502	1698
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-16
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS 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
09AUG82	ST. CROP	0	N	0	0	221	0	0	221	46	0	0	46
	S.E.	0	N	0	0	98	0	0	98	30	0	0	30
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	0	0	0	0	9	0	0	9
	S.E.	0	N	0	0	0	0	0	0	9	0	0	9
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	0	N	0	0	13	22	0	35	0	0	0	0
	S.E.	0	N	0	0	13	22	0	26	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	0	0	233	22	0	256	56	0	0	56
	S.E.	0	N	0	0	99	22	0	102	31	0	0	31
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-16 (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	ST. CROP	46	30	0	76	N	14	498	513	70	428	0	498
	S.E.	13	19	0	23	N	14	257	257	36	73	0	82
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	13	0	13	N	67	0	67	0	150	0	150
	S.E.	0	13	0	13	N	43	0	43	0	45	0	45
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	19	0	19	N	0	0	0	35	0	0	35
	S.E.	0	19	0	19	N	0	0	0	14	0	0	14
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	23	16	0	38
	S.E.	0	0	0	0	N	0	0	0	19	16	0	24
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	0	0	0	N	0	0	0	4	136	0	140
	S.E.	0	0	0	0	N	0	0	0	4	60	0	60
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	46	63	0	109	N	81	498	580	132	729	0	861
	S.E.	13	30	0	33	N	45	257	260	44	106	0	114
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-16 (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	ST. CROP	N	374	0	374	N	93	0	93	N	155	156	311
	S.E.	N	248	0	248	N	42	0	42	N	49	71	86
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	127	0	127	N	94	0	94	N	103	42	145
	S.E.	N	96	0	96	N	51	0	51	N	29	42	51
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	231	0	231	N	426	702	1128	N	1113	34	1147
	S.E.	N	83	0	83	N	174	478	508	N	474	34	475
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	532	0	532	N	234	0	234	N	238	0	238
	S.E.	N	190	0	190	N	38	0	38	N	118	0	118
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	75	0	75	N	310	299	609	N	59	0	59
	S.E.	N	46	0	46	N	87	173	194	N	48	0	48
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	1339	0	1339	N	1157	1001	2158	N	1667	232	1899
	S.E.	N	341	0	341	N	209	508	549	N	494	89	502
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-16 (CONTINUED).

WHITE PERCH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
09AUG82	ST. CROP	N	224	85	309	N	144	0	144
	S.E.	N	76	54	93	N	62	0	62
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	264	0	264	N	51	0	51
	S.E.	N	168	0	168	N	23	0	23
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	775	0	775	N	348	0	348
	S.E.	N	369	0	369	N	248	0	248
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	441	0	441	N	93	31	124
	S.E.	N	181	0	181	N	39	31	50
	NO. TOWS	N	12	6	18	N	15	6	21
040CT82	ST. CROP	N	223	0	223	N	51	0	51
	S.E.	N	76	0	76	N	23	0	23
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	1927	85	2012	N	687	31	718
	S.E.	N	457	54	460	N	261	31	263
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-16 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	159	N	159	383	1621	740	2743
	S.E.	N	99	N	99	110	302	271	421
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	67	N	67	9	935	42	986
	S.E.	N	33	N	33	9	215	42	219
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	156	N	156	35	3068	736	3840
	S.E.	N	133	N	133	14	691	479	841
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	21	N	21	23	1574	31	1628
	S.E.	N	21	N	21	19	294	31	296
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	ST. CROP	N	545	N	545	17	1423	299	1738
	S.E.	N	156	N	156	13	216	173	277
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	949	N	949	467	8621	1848	10936
	S.E.	N	231	N	231	113	865	579	1047
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-17
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE PERCH YOUNG-OF-YEAR

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	ST. CROP	6	1874	102	114	28	7	31	41	38	138	340	87	2808
	S.E.	3	1086	47	52	17	4	24	24	34	62	332	65	1142
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	1102	400	144	59	27	69	31	139	187	92	83	2334
	S.E.	0	573	138	94	33	23	43	13	86	78	54	81	619
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	2	683	532	81	174	28	24	24	10	66	63	0	1688
	S.E.	2	327	184	59	125	26	14	18	5	27	36	0	404
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	3	555	415	275	60	7	38	16	31	39	140	0	1578
	S.E.	3	133	158	141	23	7	19	10	20	24	68	0	263
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	11	468	570	72	32	18	47	7	31	0	169	6	1430
	S.E.	9	195	289	43	28	9	14	4	25	0	148	6	383
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	21	4682	2019	686	353	87	210	120	250	431	805	177	9839
	S.E.	10	1292	405	192	135	37	57	34	98	106	375	104	1437
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-18
COMBINED STANDING CROP (IN THOUSANDS) OF JUVENILES
IN HUDSON RIVER ESTUARY,
DETERMINED BY THE BEACH SEINE AND FALL SHOALS SURVEYS.
WHITE PERCH YOUNG-OF-THE-YEAR
AUG 16 - AUG 22

REGION		STRATUM				REGIONAL TOTALS
		SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	
YONKERS	ST. CROP	56	0 *	0 *	0 *	56
	SE	26	0 *	0 *	0 *	26
TAPPAN ZEE	ST. CROP	17352	165 *	0 *	0 *	17517
	SE	10051	74 *	0 *	0 *	10051
CROTON-HAVERSTRAW	ST. CROP	943	42 *	0 *	0 *	984
	SE	436	29 *	0 *	0 *	437
INDIAN POINT	ST. CROP	1058	34 *	44 *	0 *	1136
	SE	481	10 *	32 *	0 *	482
WEST POINT	ST. CROP	259	6 *	74 *	498 *	836
	SE	160	4 *	52 *	257 *	306
CORNWALL	ST. CROP	66	52 *	578 *	0 *	696
	SE	33	27 *	118 *	0 *	126
POUGHKEEPSIE	ST. CROP	289	33 *	457 *	0 *	779
	SE	226	22 *	315 *	0 *	388
HYDE PARK	ST. CROP	383	9 *	174 *	0 *	567
	SE	218	5 *	87 *	0 *	235
KINGSTON	ST. CROP	351	50 *	192 *	198 *	790
	SE	311	15 *	58 *	113 *	336
SAUGERTIES	ST. CROP	1282	118 *	331 *	85 *	1816
	SE	574	59 *	165 *	54 *	603
CATSKILL	ST. CROP	3151	66 *	107 *	0 *	3324
	SE	3071	29 *	47 *	0 *	3072
ALBANY	ST. CROP	809	61 *	43 *	102 *	1014
	SE	599	35 *	25 *	59 *	603
STRATUM TOTAL	ST. CROP	25998	635 *	1999 *	883 *	29516
	SE	10573	116 *	397 *	291 *	10585

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685 VAR(STDR) 0
ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182 VAR(STDE) 0
ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

WHITE PERCH

TABLE B-18 (CONTINUED).

YOUNG-OF-THE-YEAR

AUG 23 - AUG 29

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	56	0	0 *	0	56
	SE	26	0	0 *	0	26
TAPPAN ZEE	ST. CROP	17352	0	0	0	17352
	SE	10051	0	0	0	10051
CROTON-HAVERSTRAW	ST. CROP	943	14	0	0	956
	SE	436	14	0	0	436
INDIAN POINT	ST. CROP	1058	0	27	0	1085
	SE	481	0	27	0	482
WEST POINT	ST. CROP	259	9 *	122	0	390
	SE	160	6 *	77	0	177
CORNWALL	ST. CROP	66	0	300	0	366
	SE	33	0	90	0	96
POUGHKEEPSIE	ST. CROP	289	17 *	232	0	537
	SE	226	12 *	175	0	286
HYDE PARK	ST. CROP	383	9 *	175	0	568
	SE	218	5 *	95	0	238
KINGSTON	ST. CROP	351	40 *	152	84	627
	SE	311	11 *	42	84	325
SAUGERTIES	ST. CROP	1282	127 *	358	0	1768
	SE	574	81 *	227	0	623
CATSKILL	ST. CROP	3151	34 *	56	0	3242
	SE	3071	15 *	25	0	3071
ALBANY	ST. CROP	809	36 *	25	60 *	930
	SE	599	18 *	12	29 *	600
STRATUM TOTAL	ST. CROP	25998	286 *	1447	144 *	27875
	SE	10573	87 *	330	89 *	10579

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685 VAR(STDR) 0
ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182 VAR(STDE) 0
ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-18 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

AUG 30 - SEP 5

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
TAPPAN ZEE	ST. CROP	10201	0 *	0 *	0 *	10201
	SE	5305	0 *	0 *	0 *	5305
CROTON-HAVERSTRAW	ST. CROP	3699	7 *	0 *	0 *	3706
	SE	1281	7 *	0 *	0 *	1281
INDIAN POINT	ST. CROP	1331	0 *	33 *	0 *	1364
	SE	869	0 *	33 *	0 *	869
WEST POINT	ST. CROP	547	5 *	61 *	0 *	612
	SE	307	3 *	39 *	0 *	309
CORNWALL	ST. CROP	247	27 *	150 *	0 *	423
	SE	210	11 *	45 *	0 *	215
POUGHKEEPSIE	ST. CROP	644	23 *	327 *	0 *	994
	SE	399	12 *	163 *	0 *	432
HYDE PARK	ST. CROP	292	26 *	485 *	702 *	1505
	SE	121	11 *	210 *	478 *	536
KINGSTON	ST. CROP	1291	235 *	903 *	76 *	2505
	SE	793	97 *	373 *	76 *	885
SAUGERTIES	ST. CROP	1734	251 *	705 *	0 *	2689
	SE	723	129 *	364 *	0 *	820
CATSKILL	ST. CROP	856	134 *	220 *	0 *	1210
	SE	501	91 *	149 *	0 *	530
ALBANY	ST. CROP	773	60 *	42 *	100 *	976
	SE	752	45 *	31 *	75 *	758
STRATUM TOTAL	ST. CROP	21613	767 *	2925 *	879 *	26184
	SE	5729	192 *	608 *	489 *	5785

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685 VAR(STDR) 0

ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182 VAR(STDE) 0

ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

WHITE PERCH TABLE B-18 (CONTINUED).

YOUNG-OF-THE-YEAR

SEP 6 - SEP 12

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	0	0 *	0	0
	SE	0	0	0 *	0	0
TAPPAN ZEE	ST. CROP	10201	0	0	0	10201
	SE	5305	0	0	0	5305
CROTON-HAVERSTRAW	ST. CROP	3699	0	0	0	3699
	SE	1281	0	0	0	1281
INDIAN POINT	ST. CROP	1331	0	39	0	1370
	SE	869	0	39	0	870
WEST POINT	ST. CROP	547	0 *	0	0	547
	SE	307	0 *	0	0	307
CORNWALL	ST. CROP	247	53	0	0	300
	SE	210	22	0	0	211
POUGHKEEPSIE	ST. CROP	644	30 *	421	0	1095
	SE	399	11 *	152	0	427
HYDE PARK	ST. CROP	292	43 *	795	1404	2534
	SE	121	18 *	325	955	1016
KINGSTON	ST. CROP	1291	430 *	1653	68	3442
	SE	793	183 *	703	68	1078
SAUGERTIES	ST. CROP	1734	374 *	1051	0	3159
	SE	723	178 *	500	0	897
CATSKILL	ST. CROP	856	234 *	383	0	1474
	SE	501	167 *	273	0	594
ALBANY	ST. CROP	773	84 *	59	141 *	1057
	SE	752	72 *	51	120 *	766
STRATUM TOTAL	ST. CROP	21613	1248 *	4402	1613 *	28877
	SE	5729	315 *	976	965 *	5900

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685 VAR(STDR) 0
ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182 VAR(STDE) 0
ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

WHITE PERCH TABLE B-18 (CONTINUED).

YOUNG-OF-THE-YEAR

SEP 13 - SEP 19

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	14	0 *	0 *	0 *	14
	SE	14	0 *	0 *	0 *	14
TAPPAN ZEE	ST. CROP	6327	0 *	0 *	0 *	6327
	SE	3025	0 *	0 *	0 *	3025
CROTON-HAVERSTRAW	ST. CROP	4926	0 *	0 *	0 *	4926
	SE	1707	0 *	0 *	0 *	1707
INDIAN POINT	ST. CROP	751	0 *	19 *	0 *	770
	SE	547	0 *	19 *	0 *	548
WEST POINT	ST. CROP	1610	0 *	0 *	0 *	1610
	SE	1158	0 *	0 *	0 *	1158
CORNWALL	ST. CROP	263	44 *	16 *	0 *	322
	SE	244	25 *	16 *	0 *	246
POUGHKEEPSIE	ST. CROP	223	50 *	696 *	0 *	969
	SE	134	18 *	249 *	0 *	284
HYDE PARK	ST. CROP	225	33 *	616 *	702 *	1576
	SE	165	11 *	198 *	478 *	543
KINGSTON	ST. CROP	96	261 *	1003 *	34 *	1393
	SE	46	114 *	439 *	34 *	457
SAUGERTIES	ST. CROP	614	294 *	825 *	0 *	1733
	SE	246	133 *	373 *	0 *	466
CATSKILL	ST. CROP	583	148 *	243 *	31 *	1005
	SE	332	97 *	158 *	31 *	382
ALBANY	ST. CROP	0	48 *	34 *	80 *	161
	SE	0	42 *	29 *	69 *	86
STRATUM TOTAL	ST. CROP	15632	877 *	3452 *	847 *	20808
	SE	3739	207 *	678 *	485 *	3836

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685 VAR(STDR) 0
ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182 VAR(STDE) 0
ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

WHITE PERCH TABLE B-18 (CONTINUED).
YOUNG-OF-THE-YEAR
SEP 20 - SEP 26

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	14	0	0 *	0	14
	SE	14	0	0 *	0	14
TAPPAN ZEE	ST. CROP	6327	0	0	0	6327
	SE	3025	0	0	0	3025
CROTON-HAVERSTRAW	ST. CROP	4926	0	0	0	4926
	SE	1707	0	0	0	1707
INDIAN POINT	ST. CROP	751	0	0	0	751
	SE	547	0	0	0	547
WEST POINT	ST. CROP	1610	0 *	0	0	1610
	SE	1158	0 *	0	0	1158
CORNWALL	ST. CROP	263	34	31	0	328
	SE	244	28	31	0	247
POUGHKEEPSIE	ST. CROP	223	69 *	972	0	1264
	SE	134	25 *	347	0	373
HYDE PARK	ST. CROP	225	24 *	437	0	685
	SE	165	4 *	71	0	179
KINGSTON	ST. CROP	96	92 *	353	0	540
	SE	46	45 *	175	0	186
SAUGERTIES	ST. CROP	614	213 *	599	0	1426
	SE	246	87 *	245	0	359
CATSKILL	ST. CROP	583	63 *	102	63	810
	SE	332	26 *	43	63	342
ALBANY	ST. CROP	0	11 *	8	19 *	38
	SE	0	11 *	8	19 *	23
STRATUM TOTAL	ST. CROP	15632	505 *	2501	81 *	18720
	SE	3739	109 *	468	65 *	3770

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685 VAR(STDR) 0
ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182 VAR(STDE) 0
ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-18 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

SEP 27 - OCT 3

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	28	0 *	0 *	0 *	28
	SE	28	0 *	0 *	0 *	28
TAPPAN ZEE	ST. CROP	5135	10 *	22 *	0 *	5167
	SE	1231	10 *	22 *	0 *	1231
CROTON-HAVERSTRAW	ST. CROP	3841	0 *	0 *	0 *	3841
	SE	1460	0 *	0 *	0 *	1460
INDIAN POINT	ST. CROP	2543	0 *	0 *	0 *	2543
	SE	1308	0 *	0 *	0 *	1308
WEST POINT	ST. CROP	551	0 *	0 *	0 *	551
	SE	213	0 *	0 *	0 *	213
CORNWALL	ST. CROP	66	20 *	152 *	0 *	237
	SE	66	17 *	75 *	0 *	101
POUGHKEEPSIE	ST. CROP	355	39 *	555 *	0 *	949
	SE	173	15 *	216 *	0 *	277
HYDE PARK	ST. CROP	145	27 *	508 *	299 *	979
	SE	91	6 *	116 *	173 *	228
KINGSTON	ST. CROP	287	57 *	220 *	0 *	564
	SE	183	32 *	123 *	0 *	223
SAUGERTIES	ST. CROP	361	160 *	451 *	0 *	972
	SE	218	62 *	174 *	0 *	286
CATSKILL	ST. CROP	1293	49 *	79 *	31 *	1453
	SE	632	21 *	34 *	31 *	634
ALBANY	ST. CROP	0	153 *	108 *	255 *	515
	SE	0	48 *	34 *	79 *	99
STRATUM TOTAL	ST. CROP	14605	515 *	2094 *	585 *	17800
	SE	2434	91 *	338 *	193 *	2467

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685 VAR(STDR) 0

ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182 VAR(STDE) 0

ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

WHITE PERCH

TABLE B-18 (CONTINUED).
YOUNG-OF-THE-YEAR
OCT 4 - OCT 10

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	28	0	0 *	0	28
	SE	28	0	0 *	0	28
TAPPAN ZEE	ST. CROP	5135	19	45	0	5199
	SE	1231	19	45	0	1232
CROTON-HAVERSTRAW	ST. CROP	3841	0	0	0	3841
	SE	1460	0	0	0	1460
INDIAN POINT	ST. CROP	2543	0	0	0	2543
	SE	1308	0	0	0	1308
WEST POINT	ST. CROP	551	0 *	0	0	551
	SE	213	0 *	0	0	213
CORNWALL	ST. CROP	66	6	272	0	343
	SE	66	6	120	0	137
POUGHKEEPSIE	ST. CROP	355	10 *	138	0	502
	SE	173	6 *	85	0	193
HYDE PARK	ST. CROP	145	31 *	579	598	1352
	SE	91	9 *	162	347	393
KINGSTON	ST. CROP	287	23 *	87	0	396
	SE	183	19 *	72	0	197
SAUGERTIES	ST. CROP	361	108 *	303	0	772
	SE	218	37 *	103	0	244
CATSKILL	ST. CROP	1293	35 *	57	0	1385
	SE	632	15 *	25	0	633
ALBANY	ST. CROP	0	295 *	207	491 *	993
	SE	0	84 *	59	140 *	174
STRATUM TOTAL	ST. CROP	14605	526 *	1687	1089 *	17906
	SE	2434	98 *	264	374 *	2479

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685 VAR(STDR) 0
ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182 VAR(STDE) 0
ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

WHITE PERCH

TABLE B-18 (CONTINUED).
YOUNG-OF-THE-YEAR
OCT 11 - OCT 17

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	98	0 *	0 *	0 *	98
	SE	81	0 *	0 *	0 *	81
TAPPAN ZEE	ST. CROP	4329	19 *	45 *	0 *	4393
	SE	1803	19 *	45 *	0 *	1803
CROTON-HAVERSTRAW	ST. CROP	5282	0 *	0 *	0 *	5282
	SE	2677	0 *	0 *	0 *	2677
INDIAN POINT	ST. CROP	665	0 *	0 *	0 *	665
	SE	396	0 *	0 *	0 *	396
WEST POINT	ST. CROP	298	0 *	0 *	0 *	298
	SE	256	0 *	0 *	0 *	256
CORNWALL	ST. CROP	164	6 *	272 *	0 *	442
	SE	79	6 *	120 *	0 *	144
POUGHKEEPSIE	ST. CROP	434	10 *	138 *	0 *	581
	SE	129	6 *	85 *	0 *	155
HYDE PARK	ST. CROP	64	31 *	579 *	598 *	1272
	SE	34	9 *	162 *	347 *	384
KINGSTON	ST. CROP	287	23 *	87 *	0 *	396
	SE	232	19 *	72 *	0 *	243
SAUGERTIES	ST. CROP	0	108 *	303 *	0 *	411
	SE	0	37 *	103 *	0 *	110
CATSKILL	ST. CROP	1567	35 *	57 *	0 *	1658
	SE	1368	15 *	25 *	0 *	1369
ALBANY	ST. CROP	54	295 *	207 *	491 *	1047
	SE	54	84 *	59 *	140 *	182
STRATUM TOTAL	ST. CROP	13241	526 *	1687 *	1089 *	16542
	SE	3549	98 *	264 *	374 *	3580

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685 VAR(STDR) 0
ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182 VAR(STDE) 0
ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-19
STANDING CROP (IN THOUSANDS) 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	S	B	C	R
09AUG82	ST. CROP	0	N	0	0	202	0	0	202	40	0	0	40	0	0	0	0
	S.E.	0	N	0	0	77	0	0	77	16	0	0	16	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27	0	0	0	0
23AUG82	ST. CROP	0	N	0	0	11	0	0	11	9	52	0	61	0	0	0	0
	S.E.	0	N	0	0	11	0	0	11	9	34	0	36	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27	0	0	0	0
06SEP82	ST. CROP	0	N	0	0	35	0	0	35	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	20	0	0	20	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27	0	0	0	0
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27	0	0	0	0
040CT82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27	0	0	0	0
TOTAL	ST. CROP	0	N	0	0	248	0	0	248	50	52	0	101	0	0	0	0
	S.E.	0	N	0	0	80	0	0	80	18	34	0	39	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135	0	0	0	0

N -- STRATUM NOT SAMPLED

TABLE B-19 (CONTINUED).

WHITE PERCH YEARLING

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	ST. CROP	15	0	0	15	N	0	0	0	4	74	0	78
	S.E.	15	0	0	15	N	0	0	0	4	36	0	36
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	13	0	13	N	0	0	0	4	213	0	217
	S.E.	0	13	0	13	N	0	0	0	4	122	0	122
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	20	0	0	20	N	0	0	0	80	30	0	110
	S.E.	13	0	0	13	N	0	0	0	52	30	0	60
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	34	16	0	50
	S.E.	0	0	0	0	N	0	0	0	21	16	0	26
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	0	0	0	N	0	0	0	12	36	0	48
	S.E.	0	0	0	0	N	0	0	0	8	36	0	37
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	35	13	0	49	N	0	0	0	133	370	0	503
	S.E.	20	13	0	24	N	0	0	0	57	137	0	148
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-19 (CONTINUED).

WHITE PERCH YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	ST. CROP	N	328	0	328	N	392	138	531	N	147	0	147
	S.E.	N	225	0	225	N	139	138	196	N	38	0	38
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	207	0	207	N	35	0	35	N	79	84	163
	S.E.	N	99	0	99	N	23	0	23	N	29	84	89
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	299	0	299	N	247	702	949	N	634	34	668
	S.E.	N	98	0	98	N	69	478	483	N	225	34	227
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	558	0	558	N	135	0	135	N	286	0	286
	S.E.	N	336	0	336	N	54	0	54	N	61	0	61
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	269	0	269	N	269	71	339	N	273	0	273
	S.E.	N	140	0	140	N	114	71	134	N	79	0	79
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	1661	0	1661	N	1079	911	1989	N	1420	118	1539
	S.E.	N	450	0	450	N	201	502	541	N	250	91	266
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-19 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YEARLING			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	284	0	284	N	14	0	14
	S.E.	N	70	0	70	N	14	0	14
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	49	0	49	N	43	0	43
	S.E.	N	27	0	27	N	29	0	29
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	203	0	203	N	210	0	210
	S.E.	N	102	0	102	N	137	0	137
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	457	0	457	N	193	0	193
	S.E.	N	257	0	257	N	96	0	96
	NO. TOWS	N	12	6	18	N	15	6	21
040CT82	ST. CROP	N	366	0	366	N	153	0	153
	S.E.	N	197	0	197	N	58	0	58
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	1360	0	1360	N	613	0	613
	S.E.	N	348	0	348	N	180	0	180
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-19 (CONTINUED).

WHITE PERCH YEARLING

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
09AUG82	ST. CROP	N	102	N	102	262	1342	138	1742
	S.E.	N	82	N	82	80	290	138	332
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	43	N	43	24	735	84	843
	S.E.	N	28	N	28	15	173	84	193
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	322	N	322	135	1946	736	2817
	S.E.	N	84	N	84	57	320	479	578
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	489	N	489	34	2134	0	2168
	S.E.	N	241	N	241	21	503	0	503
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	544	N	544	12	1910	71	1992
	S.E.	N	184	N	184	8	341	71	348
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	1499	N	1499	467	8067	1029	9563
	S.E.	N	326	N	326	102	765	510	925
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-20
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	303	123	114	8	14	0	1	0	98	12	161	834
	S.E.	0	89	73	48	5	9	0	1	0	33	12	144	193
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	263	544	197	16	18	16	0	38	41	77	17	1226
	S.E.	0	90	323	98	4	10	16	0	21	17	47	13	354
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	0	204	54	63	20	4	9	4	5	55	26	12	454
	S.E.	0	72	34	50	10	4	5	2	5	20	26	12	101
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	3	184	926	52	18	7	11	1	10	21	0	0	1233
	S.E.	3	58	714	32	15	7	4	0	6	16	0	0	717
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	0	89	476	72	1	7	48	3	3	8	39	0	747
	S.E.	0	41	299	50	1	4	30	3	2	4	28	0	309
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	3	1043	2122	498	63	50	84	10	57	222	153	190	4495
	S.E.	3	162	842	134	20	16	34	4	22	45	62	145	885
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-21
STANDING CROP (IN THOUSANDS) 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	ST. CROP	17	N	0	17	2344	74	0	2418	46	246	0	292
	S.E.	11	N	0	11	578	51	0	581	30	132	0	135
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	130	42	0	172	10	268	0	278
	S.E.	0	N	0	0	46	27	0	54	10	100	0	100
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	25	N	0	25	265	294	0	559	19	151	0	170
	S.E.	16	N	0	16	77	138	0	158	13	75	0	76
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	53	N	0	53	205	124	0	328	0	72	0	72
	S.E.	41	N	0	41	79	69	0	105	0	37	0	37
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	ST. CROP	96	N	0	96	443	250	0	693	0	64	0	64
	S.E.	73	N	0	73	143	89	0	168	0	64	0	64
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	190	N	0	190	3386	784	0	4170	74	801	0	876
	S.E.	86	N	0	86	608	187	0	636	34	196	0	199
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-21 (CONTINUED).

WHITE PERCH OLDER

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	S	WEST POINT B	C	R	S	CORNWALL B	C	R
09AUG82	ST. CROP	15	26	0	42	N	15	0	15	54	151	0	205
	S.E.	10	26	0	28	N	15	0	15	22	86	0	88
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	135	0	135	N	0	0	0	0	196	0	196
	S.E.	0	58	0	58	N	0	0	0	0	83	0	83
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	12	116	0	127	N	0	0	0	44	36	0	80
	S.E.	12	116	0	116	N	0	0	0	25	36	0	44
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	26	29	0	55	N	0	0	0	116	32	0	148
	S.E.	15	18	0	24	N	0	0	0	46	19	0	50
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	5	97	0	102	N	0	0	0	61	40	0	101
	S.E.	5	64	0	64	N	0	0	0	39	25	0	46
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	57	404	0	461	N	15	0	15	275	454	0	729
	S.E.	22	148	0	150	N	15	0	15	69	128	0	145
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-21 (CONTINUED).

WHITE PERCH OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	100	0	100	N	174	138	313	N	687	201	888
	S.E.	N	67	0	67	N	105	138	173	N	321	95	335
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	604	0	604	N	398	0	398	N	583	410	993
	S.E.	N	254	0	254	N	237	0	237	N	163	373	407
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	291	0	291	N	150	758	907	N	921	129	1050
	S.E.	N	98	0	98	N	47	374	377	N	194	94	215
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	1156	0	1156	N	374	136	510	N	719	67	786
	S.E.	N	370	0	370	N	50	136	145	N	221	42	225
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	306	0	306	N	344	299	643	N	431	0	431
	S.E.	N	188	0	188	N	140	173	223	N	85	0	85
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	2458	0	2458	N	1440	1331	2771	N	3341	807	4148
	S.E.	N	500	0	500	N	303	456	547	N	473	398	618
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-21 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				OLDER			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	656	88	744	N	789	32	821
	S.E.	N	156	88	179	N	202	32	205
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	1047	84	1131	N	863	33	896
	S.E.	N	265	84	279	N	200	33	203
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	736	83	819	N	824	36	860
	S.E.	N	236	53	242	N	111	36	117
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	1106	108	1214	N	768	190	958
	S.E.	N	498	72	503	N	121	98	156
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	ST. CROP	N	1045	0	1045	N	688	31	719
	S.E.	N	333	0	333	N	135	31	138
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	4590	364	4953	N	3932	323	4255
	S.E.	N	713	151	729	N	355	119	374
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-21 (CONTINUED).

WHITE PERCH — OLDER

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
09AUG82	ST. CROP	N	722	N	722	2476	3641	460	6577
	S.E.	N	215	N	215	580	509	192	795
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	888	N	888	139	5025	528	5692
	S.E.	N	279	N	279	47	598	384	712
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	1291	N	1291	364	4809	1006	6179
	S.E.	N	322	N	322	84	510	391	648
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	1132	N	1132	399	5513	501	6413
	S.E.	N	345	N	345	101	759	187	788
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	1071	N	1071	605	4336	330	5271
	S.E.	N	253	N	253	165	521	176	575
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	5104	N	5104	3983	23324	2824	30131
	S.E.	N	641	N	641	619	1313	635	1584
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-22
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	206	348	52	12	32	11	4	12	101	10	155	943
	S.E.	0	69	301	36	4	17	10	2	6	36	5	149	347
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	70	36	6	6	32	30	8	24	96	144	70	521
	S.E.	0	33	15	6	3	12	14	2	8	34	76	38	101
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	0	267	31	9	3	11	28	2	17	20	16	14	417
	S.E.	0	101	27	7	2	7	17	1	9	9	14	10	108
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	29	1867	92	15	13	7	48	4	12	10	0	0	2096
	S.E.	11	1329	41	9	13	4	24	2	4	6	0	0	1330
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	41	131	307	42	1	25	48	9	28	14	35	0	680
	S.E.	28	47	238	33	1	8	20	9	21	8	12	0	249
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	69	2541	814	123	34	107	166	28	93	240	205	239	4658
	S.E.	30	1335	388	51	14	24	40	10	26	51	78	154	1404
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-23
STANDING CROP (IN THOUSANDS) BY WEEK, REGION, AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

AMERICAN SHAD EGGS

WEEK BEGINNING MONDAY		YONKERS S	B	C	R	TAPPAN ZEE S	B	C	R	CROTON-HAVERSTRAW S	B	C	R
10MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-23 (CONTINUED).

AMERICAN SHAD EGGS

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-23 (CONTINUED).

AMERICAN SHAD EGGS

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
10MAY82	ST. CROP	N	45	0	45	N	572	203	775	N	272	1413	1685
	S.E.	N	45	0	45	N	391	148	418	N	71	887	890
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	0	0	0	N	211	0	211	N	0	0	0
	S.E.	N	0	0	0	N	145	0	145	N	0	0	0
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	150	0	150	N	1761	170	1932	N	0	308	308
	S.E.	N	150	0	150	N	1239	170	1250	N	0	308	308
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	172	30	202	N	0	0	0	N	0	0	0
	S.E.	N	132	30	135	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	12	0	12	N	0	0	0	N	0	0	0
	S.E.	N	12	0	12	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	378	30	408	N	2544	374	2918	N	272	1721	1993
	S.E.	N	205	30	207	N	1307	226	1326	N	71	939	942
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-23 (CONTINUED).

AMERICAN SHAD EGGS

WEEK BEGINNING MONDAY		SAUGERTIES S	B	C	R	CATSKILL S	B	C	R
10MAY82	ST. CROP	N	177547	2771	180318	N	55891	6311	62202
	S.E.	N	119600	1564	119610	N	51377	3685	51509
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	70931	0	70931	N	3106	636	3742
	S.E.	N	70477	0	70477	N	2986	527	3033
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	9106	15351	24457	N	6984	5983	12967
	S.E.	N	4025	15351	15870	N	4825	2694	5526
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	473	0	473	N	0	0	0
	S.E.	N	212	0	212	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	94	0	94	N	0	0	0
	S.E.	N	94	0	94	N	0	0	0
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	258151	18123	276273	N	65981	12929	78911
	S.E.	N	138879	15431	139734	N	51689	4595	51893
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-23 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD EGGS							
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	104239	N	104239	0	338565	10698	349263
	S.E.	N	95390	N	95390	0	161379	4103	161431
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	4038	N	4038	0	78286	636	78922
	S.E.	N	2556	N	2556	0	70587	527	70589
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	69	N	69	0	18070	21813	39882
	S.E.	N	69	N	69	0	6406	15590	16855
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	1042	N	1042	0	1687	30	1717
	S.E.	N	368	N	368	0	444	30	445
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	2311	N	2311	0	2323	0	2323
	S.E.	N	2311	N	2311	0	2311	0	2311
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	354	N	354	0	448	0	448
	S.E.	N	354	N	354	0	366	0	366
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	132	N	132	0	132	0	132
	S.E.	N	66	N	66	0	66	0	66
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	112184	N	112184	0	439510	33176	472686
	S.E.	N	95453	N	95453	0	176273	16129	177010
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-24
STANDING CROP (IN THOUSANDS) BY WEEK, REGION, AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

AMERICAN SHAD — YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS S	B	C	R	TAPPAN ZEE S	B	C	R	CROTON-HAVERSTRAW S	B	C	R
10MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-24 (CONTINUED).

AMERICAN SHAD YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-24 (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	ST. CROP	N	0	0	0	N	57	59	116	N	3957	1784	5741
	S.E.	N	0	0	0	N	25	40	47	N	2305	941	2489
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	19	56	75	N	137	1027	1164	N	3608	7661	11269
	S.E.	N	19	56	59	N	27	371	372	N	1562	4629	4885
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	356	51	408	N	123	52	174	N	10592	2189	12781
	S.E.	N	216	36	219	N	26	35	43	N	5100	2008	5481
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	68	53	121	N	12	55	67	N	385	267	653
	S.E.	N	32	53	62	N	12	55	56	N	254	128	284
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	12	0	12	N	0	111	111	N	140	331	471
	S.E.	N	12	0	12	N	0	48	48	N	140	245	282
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	102	102
	S.E.	N	0	0	0	N	0	0	0	N	0	102	102
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	455	161	616	N	329	1304	1633	N	18682	12335	31017
	S.E.	N	219	85	235	N	47	382	385	N	5818	5141	7764
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-24 (CONTINUED).

AMERICAN SHAD YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES S	B	C	R	CATSKILL S	B	C	R
10MAY82	ST. CROP	N	3758	2468	6226	N	1767	407	2174
	S.E.	N	1867	1309	2280	N	1106	238	1131
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	10268	16137	26405	N	2185	9258	11443
	S.E.	N	4887	9380	10577	N	917	2448	2614
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	10791	11583	22374	N	9432	12504	21935
	S.E.	N	3661	3429	5016	N	5530	4251	6975
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	849	1246	2095	N	3908	80	3989
	S.E.	N	300	721	781	N	938	80	942
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	2356	98	2453	N	1509	1247	2756
	S.E.	N	871	98	876	N	320	684	755
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	47	0	47	N	480	76	556
	S.E.	N	47	0	47	N	141	76	160
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	45	146	191	N	70	711	781
	S.E.	N	45	146	153	N	70	249	258
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	28114	31677	59791	N	19350	24283	43633
	S.E.	N	6452	10100	11985	N	5801	4966	7637
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-24 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD ALBANY S	B	C	R	YOLK-SAC LARVAE COMBINED S	B	C	R
10MAY82	ST. CROP	N	259	N	259	0	9798	4719	14517
	S.E.	N	159	N	159	0	3169	1630	3564
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	206600	N	206600	0	222817	34139	256956
	S.E.	N	77434	N	77434	0	77609	10749	78350
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	11921	N	11921	0	43214	26379	69593
	S.E.	N	11921	N	11921	0	14566	5819	15685
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	76117	N	76117	0	81339	1702	83041
	S.E.	N	36273	N	36273	0	36287	741	36295
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	69	N	69	0	4086	1787	5873
	S.E.	N	69	N	69	0	940	735	1193
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	1325	N	1325	0	1852	177	2029
	S.E.	N	804	N	804	0	817	127	827
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	579	N	579	0	694	857	1551
	S.E.	N	380	N	380	0	389	288	484
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	67	N	67	0	67	0	67
	S.E.	N	67	N	67	0	67	0	67
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	295	N	295	0	295	0	295
	S.E.	N	202	N	202	0	202	0	202
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	297232	N	297232	0	364162	69760	433922
	S.E.	N	86340	N	86340	0	86970	12380	87847
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-25
STANDING CROP (IN THOUSANDS) BY WEEK, REGION, AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

AMERICAN SHAD — 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	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	0	44	0	44	478	83	524	1085
	S.E.	0	N	0	0	0	44	0	44	478	64	183	516
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	0	60	60	0	0	0	0
	S.E.	0	N	0	0	0	0	60	60	0	0	0	0
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	44	60	104	478	83	524	1085
	S.E.	0	N	0	0	0	44	60	74	478	64	183	516
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-25 (CONTINUED).

AMERICAN SHAD 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	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	0	31	31	N	0	204	204	19	0	2158	2177
	S.E.	0	0	31	31	N	0	128	128	9	0	1439	1439
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	0	0	135	135	N	0	337	337	29	0	1983	2012
	S.E.	0	0	82	82	N	0	149	149	12	0	1462	1463
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	36	14	706	755	N	12	2834	2846	2734	52	2186	4972
	S.E.	36	14	492	493	N	12	2017	2017	1712	28	2082	2695
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	624	120	1975	2719	N	49	2043	2093	1115	22	3100	4236
	S.E.	542	57	432	696	N	22	533	534	862	14	1108	1404
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	1490	186	2092	3768	N	352	2637	2989	2237	770	3777	6783
	S.E.	741	186	1216	1436	N	147	891	903	1252	228	1535	1994
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	15	0	181	196	N	85	873	958	111	194	216	521
	S.E.	9	0	126	126	N	29	483	484	78	42	91	127
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	0	0	0	0	N	0	22	22	30	0	90	120
	S.E.	0	0	0	0	N	0	22	22	30	0	72	78
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	2164	320	5120	7605	N	498	8950	9448	6274	1037	13509	20820
	S.E.	919	195	1390	1677	N	152	2328	2333	2291	234	3484	4176
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-25 (CONTINUED).

AMERICAN SHAD

POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE			HYDE PARK			KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	63	110	173	N	450	2149	2598	N	1495	15355	16850
	S.E.	N	63	110	126	N	78	773	777	N	566	5705	5733
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	243	2313	2555	N	363	14984	15347	N	9797	21232	31029
	S.E.	N	65	747	750	N	55	4856	4856	N	2865	9000	9445
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	121	5963	6084	N	39	8182	8222	N	275	127736	128012
	S.E.	N	52	2342	2343	N	19	4212	4212	N	113	40665	40665
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	267	12238	12505	N	67	11025	11092	N	545	10053	10598
	S.E.	N	64	5501	5501	N	34	4295	4296	N	150	4616	4618
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	129	5343	5471	N	20	4303	4323	N	0	7702	7702
	S.E.	N	74	3447	3447	N	20	1842	1842	N	0	3076	3076
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	871	3003	3874	N	140	2183	2323	N	1169	4354	5523
	S.E.	N	349	981	1041	N	67	614	617	N	46	1324	1325
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	226	880	1106	N	77	589	666	N	757	1725	2482
	S.E.	N	68	421	426	N	36	399	401	N	372	1041	1105
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	28	499	527	N	541	188	729	N	217	878	1095
	S.E.	N	28	210	212	N	296	81	307	N	217	417	470
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	1948	30348	32295	N	1697	43603	45300	N	14254	189036	203290
	S.E.	N	384	7027	7037	N	323	8019	8026	N	2958	42438	42541
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-25 (CONTINUED).

AMERICAN SHAD

POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	1478	38434	39912	N	1224	3217	4441
	S.E.	N	812	12343	12370	N	987	753	1241
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	21638	68484	90122	N	31458	108002	139459
	S.E.	N	9983	32237	33748	N	17123	40631	44092
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	3284	71986	75270	N	4417	32785	37202
	S.E.	N	1294	34463	34487	N	2969	21012	21221
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	5625	46584	52209	N	1758	890	2648
	S.E.	N	2231	42181	42239	N	1172	350	1223
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	1635	907	2542	N	1037	1703	2740
	S.E.	N	1043	0	1043	N	482	1008	1118
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	5126	22324	27450	N	2292	13534	15826
	S.E.	N	753	5432	5484	N	1574	4432	4703
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	1747	16315	18062	N	2997	832	3829
	S.E.	N	1453	166	1462	N	1033	313	1080
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	994	2117	3111	N	4347	1779	6126
	S.E.	N	389	1587	1634	N	2726	692	2813
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	41527	267151	308678	N	49530	162741	212271
	S.E.	N	10531	64735	65586	N	17765	45982	49294
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-25 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				POST YOLK-SAC LARVAE			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	4699	N	4699	0	9409	59265	68674
	S.E.	N	1561	N	1561	0	2098	13641	13802
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	12885	N	12885	19	76383	217407	293809
	S.E.	N	12885	N	12885	9	23814	52890	58004
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	5363	N	5363	29	13500	249107	262636
	S.E.	N	1393	N	1393	12	3528	57517	57625
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	0	N	0	2770	8339	86516	97625
	S.E.	N	0	N	0	1712	2526	43104	43212
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	281	N	281	2216	3421	27600	33237
	S.E.	N	188	N	188	1125	1171	5243	5489
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	650	N	650	3726	11555	53965	69246
	S.E.	N	387	N	387	1455	1853	7541	7901
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	3973	N	3973	127	10056	21611	31793
	S.E.	N	3480	N	3480	78	3929	1343	4153
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	4225	N	4225	30	10352	5573	15954
	S.E.	N	2867	N	2867	30	3992	1797	4378
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	32077	N	32077	8916	143014	721043	872974
	S.E.	N	13818	N	13818	2514	25031	90769	94191
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-26
STANDING CROP (IN THOUSANDS) BY WEEK, REGION, AND STRATUM,
ICHTHYOPLANKTON 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
10MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	45	53	0	98
	S.E.	0	N	0	0	0	0	0	0	45	53	0	70
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	0	0	0	0	0	29	29
	S.E.	0	N	0	0	0	0	0	0	0	0	29	29
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	45	53	29	128
	S.E.	0	N	0	0	0	0	0	0	45	53	29	76
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-26 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	S	WEST POINT B	C	R	S	CORNWALL B	C	R
10MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	179	21	311	511	N	46	342	388	62	50	342	454
	S.E.	98	21	150	181	N	36	127	132	42	34	124	136
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	169	0	202	372	N	175	1454	1629	39	2731	789	3559
	S.E.	119	0	74	140	N	52	510	513	29	882	341	946
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	41	123	254	417	N	0	259	259	297	1717	1003	3017
	S.E.	23	123	120	173	N	0	99	99	286	1023	466	1160
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	388	143	767	1299	N	221	2055	2276	399	4498	2133	7031
	S.E.	156	125	206	287	N	64	535	539	291	1351	591	1503
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-26 (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	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	26	155	180	N	0	0	0	N	34	331	365
	S.E.	N	26	89	93	N	0	0	0	N	34	293	295
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	55	529	585	N	38	145	183	N	2404	1535	3938
	S.E.	N	36	297	299	N	23	57	62	N	986	1000	1404
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	384	4329	4713	N	3407	1823	5231	N	509	890	1399
	S.E.	N	221	1525	1541	N	2568	1146	2812	N	140	491	511
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	465	5013	5478	N	3446	1968	5413	N	2947	2755	5702
	S.E.	N	225	1556	1572	N	2568	1148	2812	N	996	1152	1523
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-26 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	0	0	0	N	139	0	139
	S.E.	N	0	0	0	N	139	0	139
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	819	723	1542	N	2001	0	2001
	S.E.	N	376	723	815	N	1344	0	1344
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	2889	2694	5583	N	5698	294	5993
	S.E.	N	1086	2694	2905	N	2905	199	2912
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	3708	3417	7125	N	7838	294	8132
	S.E.	N	1149	2790	3017	N	3204	199	3210
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-26 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	0	N	0	241	315	1481	2037
	S.E.	N	0	N	0	107	155	385	428
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	2045	N	2045	253	10322	5376	15952
	S.E.	N	1847	N	1847	130	2667	1413	3021
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	580	N	580	338	15308	11575	27221
	S.E.	N	580	N	580	287	4205	3380	5402
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	2625	N	2625	832	25946	18432	45210
	S.E.	N	1936	N	1936	333	4982	3683	6204
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-27
STANDING CROP (IN THOUSANDS) 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	ST. CROP	17	N	569	585	519	0	0	519	108	31	0	140
	S.E.	11	N	417	417	107	0	0	107	37	22	0	43
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	11	N	0	11	62	37	0	100	0	11	0	11
	S.E.	11	N	0	11	27	37	0	46	0	11	0	11
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	24	N	0	24	81	88	0	169	10	42	0	52
	S.E.	24	N	0	24	36	58	0	68	10	16	0	19
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	33	N	0	33	0	83	43	126	8	10	0	18
	S.E.	23	N	0	23	0	46	43	63	8	10	0	13
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	0	N	0	0	31	0	0	31	25	12	0	37
	S.E.	0	N	0	0	18	0	0	18	14	12	0	18
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	86	N	569	654	693	209	43	945	151	106	0	257
	S.E.	37	N	417	419	117	83	43	150	42	33	0	53
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-27 (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	ST. CROP	120	15	244	379	N	0	0	0	71	57	0	128
	S.E.	39	15	244	247	N	0	0	0	16	24	0	29
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	48	0	0	48	N	54	0	54	8	119	0	127
	S.E.	15	0	0	15	N	25	0	25	5	81	0	81
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	12	76	309	397	N	14	0	14	36	0	0	36
	S.E.	12	19	159	161	N	14	0	14	7	0	0	7
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	13	0	13	N	0	0	0	40	66	0	105
	S.E.	0	13	0	13	N	0	0	0	27	66	0	71
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	0	0	0	N	0	0	0	16	0	0	16
	S.E.	0	0	0	0	N	0	0	0	7	0	0	7
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	180	104	553	837	N	67	0	67	170	242	0	412
	S.E.	43	28	291	296	N	29	0	29	33	107	0	112
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-27 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	259	0	259	N	55	138	193	N	163	143	306
	S.E.	N	180	0	180	N	35	138	143	N	89	95	130
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	29	0	29	N	181	0	181	N	182	486	667
	S.E.	N	29	0	29	N	63	0	63	N	70	313	320
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	35	185	219	N	55	131	186	N	58	97	155
	S.E.	N	35	185	188	N	27	131	134	N	32	65	73
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	202	0	202	N	89	0	89	N	258	167	425
	S.E.	N	133	0	133	N	60	0	60	N	53	108	120
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	131	0	131	N	61	350	412	N	298	149	447
	S.E.	N	61	0	61	N	31	265	267	N	106	71	128
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	656	185	841	N	441	620	1061	N	959	1042	2000
	S.E.	N	236	185	300	N	103	326	342	N	167	357	395
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-27 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	382	0	382	N	719	35	754
	S.E.	N	88	0	88	N	144	35	148
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	283	126	409	N	991	245	1236
	S.E.	N	140	86	165	N	194	245	313
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	106	84	190	N	216	72	288
	S.E.	N	56	54	77	N	58	72	92
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	415	68	483	N	1183	225	1408
	S.E.	N	93	68	115	N	312	90	325
	NO. TOWS	N	12	6	18	N	15	6	21
040CT82	ST. CROP	N	29	82	111	N	138	0	138
	S.E.	N	19	52	55	N	33	0	33
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	1215	360	1576	N	3247	577	3824
	S.E.	N	199	133	239	N	400	273	485
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-27 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	618	N	618	834	2301	1129	4264
	S.E.	N	176	N	176	121	320	512	616
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	337	N	337	129	2222	857	3209
	S.E.	N	212	N	212	33	348	407	536
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	182	N	182	163	872	878	1912
	S.E.	N	76	N	76	47	140	298	332
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	918	N	918	81	3237	503	3821
	S.E.	N	407	N	407	37	550	162	575
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	225	N	225	72	895	581	1548
	S.E.	N	131	N	131	23	186	279	336
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	2280	N	2280	1280	9527	3948	14754
	S.E.	N	514	N	514	141	761	788	1105
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-28
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

AMERICAN SHAD YOUNG-OF-YEAR

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	ST. CROP	2	98	54	70	24	227	306	33	55	527	116	200	1712
	S.E.	2	36	27	24	12	124	172	8	24	138	39	91	277
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	5	28	85	61	21	167	95	25	102	304	539	893	2323
	S.E.	3	14	38	45	4	41	50	12	29	78	230	274	378
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	2	51	13	13	59	552	133	32	57	275	338	229	1755
	S.E.	2	34	10	9	21	275	97	10	28	110	183	118	384
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	2	23	65	2	110	259	260	19	152	156	77	297	1420
	S.E.	2	11	57	2	90	144	91	9	80	62	50	143	271
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	3	53	152	18	54	430	119	14	293	178	281	39	1633
	S.E.	3	21	67	7	29	157	43	6	284	58	87	16	353
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	12	254	369	164	267	1635	913	124	658	1440	1352	1658	8844
	S.E.	5	57	100	52	98	371	227	20	299	211	313	344	752
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-29
COMBINED STANDING CROP (IN THOUSANDS) OF JUVENILES
IN HUDSON RIVER ESTUARY,
DETERMINED BY THE BEACH SEINE AND FALL SHOALS SURVEYS.
AMERICAN SHAD YOUNG-OF-THE-YEAR
AUG 16 - AUG 22

REGION		STRATUM				
		SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	2	10 *	31 *	201 *	244
	SE	2	8 *	25 *	147 *	150
TAPPAN ZEE	ST. CROP	98	218 *	19 *	0 *	335
	SE	36	50 *	19 *	0 *	65
CROTON-HAVERSTRAW	ST. CROP	54	41 *	21 *	0 *	115
	SE	27	14 *	16 *	0 *	34
INDIAN POINT	ST. CROP	70	63 *	8 *	122 *	263
	SE	24	20 *	8 *	122 *	126
WEST POINT	ST. CROP	24	2 *	24 *	0 *	50
	SE	12	1 *	11 *	0 *	16
CORNWALL	ST. CROP	227	29 *	88 *	0 *	345
	SE	124	8 *	52 *	0 *	134
POUGHKEEPSIE	ST. CROP	307	9 *	132 *	0 *	448
	SE	172	7 *	95 *	0 *	197
HYDE PARK	ST. CROP	33	6 *	110 *	69 *	219
	SE	8	2 *	46 *	69 *	83
KINGSTON	ST. CROP	55	33 *	128 *	314 *	531
	SE	24	15 *	59 *	204 *	214
SAUGERTIES	ST. CROP	527	80 *	226 *	63 *	896
	SE	138	28 *	77 *	43 *	166
CATSKILL	ST. CROP	116	288 *	471 *	140 *	1015
	SE	39	57 *	93 *	140 *	182
ALBANY	ST. CROP	200	129 *	91 *	215 *	634
	SE	91	52 *	37 *	87 *	142
STRATUM TOTAL	ST. CROP	1712	909 *	1348 *	1125 *	5094
	SE	277	101 *	187 *	335 *	484

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #
ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #
ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-29 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

AUG 23 - AUG 29

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	2	8	25 *	0	35
	SE	2	8	25 *	0	26
TAPPAN ZEE	ST. CROP	98	47	37	0	183
	SE	36	20	37	0	56
CROTON-HAVERSTRAW	ST. CROP	54	0	11	0	64
	SE	27	0	11	0	29
INDIAN POINT	ST. CROP	70	36	0	0	106
	SE	24	11	0	0	27
WEST POINT	ST. CROP	24	4 *	49	0	76
	SE	12	2 *	23	0	26
CORNWALL	ST. CROP	227	6	119	0	352
	SE	124	3	81	0	148
POUGHKEEPSIE	ST. CROP	307	2 *	27	0	335
	SE	172	2 *	27	0	174
HYDE PARK	ST. CROP	33	9 *	169	0	211
	SE	8	3 *	59	0	60
KINGSTON	ST. CROP	55	35 *	135	486	711
	SE	24	14 *	52	313	318
SAUGERTIES	ST. CROP	527	68 *	192	126	913
	SE	138	34 *	95	86	191
CATSKILL	ST. CROP	116	334 *	546	245	1241
	SE	39	65 *	107	245	278
ALBANY	ST. CROP	200	91 *	64	151 *	506
	SE	91	57 *	40	95 *	149
STRATUM TOTAL	ST. CROP	1712	640 *	1372	1008 *	4733
	SE	277	98 *	196	418 *	547

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

AMERICAN SHAD

TABLE B-29 (CONTINUED).
YOUNG-OF-THE-YEAR
AUG 30 - SEP 5

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	5	13 *	40 *	0 *	57
	SE	3	13 *	40 *	0 *	42
TAPPAN ZEE	ST. CROP	28	54 *	63 *	0 *	145
	SE	14	24 *	48 *	0 *	55
CROTON-HAVERSTRAW	ST. CROP	85	4 *	26 *	0 *	114
	SE	38	4 *	13 *	0 *	41
INDIAN POINT	ST. CROP	61	23 *	38 *	154 *	276
	SE	45	10 *	10 *	80 *	93
WEST POINT	ST. CROP	21	2 *	31 *	0 *	53
	SE	4	1 *	18 *	0 *	18
CORNWALL	ST. CROP	167	16 *	60 *	0 *	243
	SE	41	4 *	41 *	0 *	58
POUGHKEEPSIE	ST. CROP	95	2 *	29 *	92 *	219
	SE	50	2 *	29 *	92 *	109
HYDE PARK	ST. CROP	25	6 *	110 *	65 *	206
	SE	12	2 *	42 *	65 *	79
KINGSTON	ST. CROP	102	23 *	89 *	291 *	505
	SE	29	10 *	38 *	189 *	195
SAUGERTIES	ST. CROP	304	47 *	132 *	105 *	588
	SE	78	24 *	66 *	70 *	126
CATSKILL	ST. CROP	539	203 *	332 *	158 *	1233
	SE	230	43 *	70 *	158 *	291
ALBANY	ST. CROP	893	70 *	49 *	117 *	1129
	SE	274	39 *	27 *	65 *	286
STRATUM TOTAL	ST. CROP	2323	463 *	998 *	984 *	4769
	SE	378	70 *	142 *	298 *	507

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #
ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #
ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-29 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

SEP 6 - SEP 12

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	5	18	55 *	0	77
	SE	3	18	55 *	0	58
TAPPAN ZEE	ST. CROP	28	60	88	0	177
	SE	14	27	58	0	65
CROTON-HAVERSTRAW	ST. CROP	85	7	42	0	134
	SE	38	7	16	0	42
INDIAN POINT	ST. CROP	61	9	76	309	455
	SE	45	9	19	159	167
WEST POINT	ST. CROP	21	1 *	12	0	34
	SE	4	1 *	12	0	13
CORNWALL	ST. CROP	167	27	0	0	194
	SE	41	5	0	0	41
POUGHKEEPSIE	ST. CROP	95	2 *	32	185	314
	SE	50	2 *	32	185	194
HYDE PARK	ST. CROP	25	3 *	52	131	210
	SE	12	1 *	25	131	134
KINGSTON	ST. CROP	102	11 *	43	97	253
	SE	29	6 *	24	65	76
SAUGERTIES	ST. CROP	304	26 *	72	84	486
	SE	78	13 *	38	54	103
CATSKILL	ST. CROP	539	73 *	119	72	803
	SE	230	20 *	32	72	243
ALBANY	ST. CROP	893	49 *	35	82 *	1058
	SE	274	21 *	15	34 *	277
STRATUM TOTAL	ST. CROP	2323	287 *	625	960 *	4194
	SE	378	48 *	109	300 *	497

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

AMERICAN SHAD TABLE B-29 (CONTINUED).

SEP 13 - SEP 19 YOUNG-OF-THE-YEAR

REGION		STRATUM				
		SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	2	22 *	64 *	0 *	87
	SE	2	18 *	53 *	0 *	56
TAPPAN ZEE	ST. CROP	51	30 *	86 *	22 *	189
	SE	34	14 *	52 *	22 *	67
CROTON-HAVERSTRAW	ST. CROP	13	7 *	26 *	0 *	46
	SE	10	7 *	13 *	0 *	18
INDIAN POINT	ST. CROP	13	4 *	44 *	154 *	216
	SE	9.	4 *	16 *	80 *	82
WEST POINT	ST. CROP	59	0 *	6 *	0 *	66
	SE	21	0 *	6 *	0 *	22
CORNWALL	ST. CROP	552	28 *	33 *	0 *	613
	SE	275	13 *	33 *	0 *	277
POUGHKEEPSIE	ST. CROP	133	8 *	108 *	92 *	342
	SE	97	5 *	77 *	92 *	154
HYDE PARK	ST. CROP	32	4 *	67 *	65 *	169
	SE	10	2 *	41 *	65 *	78
KINGSTON	ST. CROP	57	31 *	117 *	132 *	337
	SE	28	8 *	32 *	87 *	97
SAUGERTIES	ST. CROP	275	63 *	177 *	76 *	591
	SE	110	18 *	50 *	61 *	137
CATSKILL	ST. CROP	338	236 *	385 *	148 *	1108
	SE	183	62 *	102 *	81 *	233
ALBANY	ST. CROP	229	148 *	104 *	247 *	729
	SE	118	65 *	46 *	109 *	179
STRATUM TOTAL	ST. CROP	1755	581 *	1219 *	938 *	4493
	SE	384	96 *	175 *	222 *	486

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #
ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #
ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

AMERICAN SHAD TABLE B-29 (CONTINUED).
YOUNG-OF-THE-YEAR
SEP 20 - SEP 26

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	2	25	74 *	0	100
	SE	2	17	52 *	0	55
TAPPAN ZEE	ST. CROP	51	0	83	43	177
	SE	34	0	46	43	71
CROTON-HAVERSTRAW	ST. CROP	13	6	10	0	30
	SE	10	6	10	0	15
INDIAN POINT	ST. CROP	13	0	13	0	26
	SE	9	0	13	0	15
WEST POINT	ST. CROP	59	0 *	0	0	59
	SE	21	0 *	0	0	21
CORNWALL	ST. CROP	552	30	66	0	648
	SE	275	20	66	0	283
POUGHKEEPSIE	ST. CROP	133	13 *	185	0	331
	SE	97	9 *	122	0	156
HYDE PARK	ST. CROP	32	4 *	83	0	120
	SE	10	3 *	56	0	57
KINGSTON	ST. CROP	57	50 *	192	167	465
	SE	28	10 *	39	108	119
SAUGERTIES	ST. CROP	275	100 *	282	68	725
	SE	110	22 *	63	68	146
CATSKILL	ST. CROP	338	398 *	651	225	1613
	SE	183	105 *	172	90	287
ALBANY	ST. CROP	229	248 *	174	413 *	1064
	SE	118	110 *	77	183 *	256
STRATUM TOTAL	ST. CROP	1755	875 *	1813	916 *	5359
	SE	384	157 *	261	245 *	548

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #
ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #
ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

AMERICAN SHAD TABLE B-29 (CONTINUED).
YOUNG-OF-THE-YEAR
SEP 27 - OCT 3

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	2	12 *	37 *	0 *	51
	SE	2	9 *	26 *	0 *	27
TAPPAN ZEE	ST. CROP	23	12 *	42 *	22 *	98
	SE	11	7 *	23 *	22 *	34
CROTON-HAVERSTRAW	ST. CROP	65	12 *	11 *	0 *	89
	SE	57	8 *	11 *	0 *	59
INDIAN POINT	ST. CROP	2	0 *	6 *	0 *	8
	SE	2	0 *	6 *	0 *	7
WEST POINT	ST. CROP	110	0 *	0 *	0 *	110
	SE	90	0 *	0 *	0 *	90
CORNWALL	ST. CROP	259	21 *	33 *	0 *	313
	SE	144	13 *	33 *	0 *	148
POUGHKEEPSIE	ST. CROP	260	11 *	152 *	0 *	423
	SE	91	6 *	89 *	0 *	127
HYDE PARK	ST. CROP	19	4 *	70 *	175 *	268
	SE	9	2 *	42 *	132 *	139
KINGSTON	ST. CROP	152	54 *	207 *	158 *	570
	SE	80	15 *	59 *	90 *	135
SAUGERTIES	ST. CROP	156	54 *	151 *	75 *	435
	SE	62	14 *	38 *	60 *	95
CATSKILL	ST. CROP	77	223 *	364 *	113 *	776
	SE	50	58 *	95 *	45 *	130
ALBANY	ST. CROP	297	154 *	109 *	257 *	817
	SE	143	73 *	51 *	121 *	207
STRATUM TOTAL	ST. CROP	1420	556 *	1181 *	799 *	3956
	SE	271	97 *	169 *	215 *	398

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #
ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #
ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-29 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

OCT 4 - OCT 10

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	2	0	0 *	0	2
	SE	2	0	0 *	0	2
TAPPAN ZEE	ST. CROP	23	24	0	0	46
	SE	11	13	0	0	17
CROTON-HAVERSTRAW	ST. CROP	65	19	12	0	96
	SE	57	10	12	0	59
INDIAN POINT	ST. CROP	2	0	0	0	2
	SE	2	0	0	0	2
WEST POINT	ST. CROP	110	0 *	0	0	110
	SE	90	0 *	0	0	90
CORNWALL	ST. CROP	259	12	0	0	271
	SE	144	5	0	0	144
POUGHKEEPSIE	ST. CROP	260	9 *	120	0	388
	SE	91	4 *	56	0	107
HYDE PARK	ST. CROP	19	3 *	57	350	429
	SE	9	2 *	29	265	266
KINGSTON	ST. CROP	152	58 *	221	149	579
	SE	80	20 *	79	71	134
SAUGERTIES	ST. CROP	156	7 *	19	82	264
	SE	62	5 *	13	52	82
CATSKILL	ST. CROP	77	47 *	76	0	200
	SE	50	11 *	18	0	54
ALBANY	ST. CROP	297	61 *	43	101 *	502
	SE	143	35 *	25	59 *	161
STRATUM TOTAL	ST. CROP	1420	238 *	549	682 *	2889
	SE	271	46 *	107	285 *	411

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

AMERICAN SHAD TABLE B-29 (CONTINUED).
YOUNG-OF-THE-YEAR
OCT 11 - OCT 17

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	3	0 *	0 *	0 *	3
	SE	3	0 *	0 *	0 *	3
TAPPAN ZEE	ST. CROP	53	24 *	0 *	0 *	77
	SE	21	13 *	0 *	0 *	25
CROTON-HAVERSTRAW	ST. CROP	152	19 *	12 *	0 *	183
	SE	67	10 *	12 *	0 *	69
INDIAN POINT	ST. CROP	18	0 *	0 *	0 *	18
	SE	7	0 *	0 *	0 *	7
WEST POINT	ST. CROP	54	0 *	0 *	0 *	54
	SE	29	0 *	0 *	0 *	29
CORNWALL	ST. CROP	430	12 *	0 *	0 *	441
	SE	157	5 *	0 *	0 *	157
POUGHKEEPSIE	ST. CROP	119	9 *	120 *	0 *	248
	SE	43	4 *	56 *	0 *	70
HYDE PARK	ST. CROP	14	3 *	57 *	350 *	425
	SE	6	2 *	29 *	265 *	266
KINGSTON	ST. CROP	293	58 *	221 *	149 *	721
	SE	284	20 *	79 *	71 *	304
SAUGERTIES	ST. CROP	178	7 *	19 *	82 *	286
	SE	58	5 *	13 *	52 *	79
CATSKILL	ST. CROP	281	47 *	76 *	0 *	404
	SE	87	11 *	18 *	0 *	90
ALBANY	ST. CROP	39	61 *	43 *	101 *	244
	SE	16	35 *	25 *	59 *	75
STRATUM TOTAL	ST. CROP	1633	238 *	549 *	682 *	3102
	SE	353	46 *	107 *	285 *	468

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #
ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #
ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-30
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-30 (CONTINUED).

AMERICAN SHAD YEARLING

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	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	0	0	0	N	0	0	0	8	0	0	8
	S.E.	0	0	0	0	N	0	0	0	5	0	0	5
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	8	0	0	8
	S.E.	0	0	0	0	N	0	0	0	5	0	0	5
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-30 (CONTINUED).

AMERICAN SHAD YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	29	0	29	N	0	0	0	N	0	0	0
	S.E.	N	29	0	29	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	14	0	14	N	12	0	12
	S.E.	N	0	0	0	N	14	0	14	N	12	0	12
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	29	0	29	N	14	0	14	N	12	0	12
	S.E.	N	29	0	29	N	14	0	14	N	12	0	12
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-30 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YEARLING			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-30 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD YEARLING							
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	0	29	0	29
	S.E.	N	0	N	0	0	29	0	29
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	8	27	0	35
	S.E.	N	0	N	0	5	19	0	20
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	8	56	0	64
	S.E.	N	0	N	0	5	35	0	35
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-31
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

AMERICAN SHAD OLDER

WEEK BEGINNING MONDAY		YONKERS S	B	C	R	TAPPAN ZEE S	B	C	R	CROTON-HAVERSTRAW S	B	C	R
09AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

AMERICAN SHAD 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	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

AMERICAN SHAD OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	12	0	12	N	0	0	0
	S.E.	N	0	0	0	N	12	0	12	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	12	0	12	N	0	0	0
	S.E.	N	0	0	0	N	12	0	12	N	0	0	0
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

AMERICAN SHAD OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
040CT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				OLDER			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	N	0	0	12	0	12
	S.E.	N	0	N	0	0	12	0	12
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	0	12	0	12
	S.E.	N	0	N	0	0	12	0	12
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-32
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	0	2	0	0	0	0	0	0	0	0	0	2
	S.E.	0	0	2	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	0	0	2	0	0	0	0	0	0	0	0	0	2
	S.E.	0	0	2	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35.	500

TABLE B-33
STANDING CROP (IN THOUSANDS) BY WEEK, REGION, AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

ATLANTIC TOMCOD — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	0	N	0	0	0	83	105	188	37	85	0	122
	S.E.	0	N	0	0	0	83	105	134	37	85	0	93
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	710	N	0	710	0	577	0	577	0	0	0	0
	S.E.	710	N	0	710	0	504	0	504	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	2077	2077	0	0	0	0	0	64	0	64
	S.E.	0	N	2077	2077	0	0	0	0	0	64	0	64
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
14JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	710	N	2077	2787	0	660	105	765	37	149	0	185
	S.E.	710	N	2077	2195	0	511	105	522	37	106	0	112
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-33 (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	ST. CROP	0	42	406	449	N	0	0	0	0	0	0	0
	S.E.	0	27	406	407	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	0	596	670	1267	N	899	914	1813	0	18	0	18
	S.E.	0	299	381	484	N	372	354	514	0	18	0	18
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	84	35	119	N	27	58	84	0	0	0	0
	S.E.	0	28	35	45	N	27	42	49	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	0	20	140	159	N	0	0	0	0	0	0	0
	S.E.	0	20	140	141	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	0	138	0	138	N	0	0	0	0	0	0	0
	S.E.	0	138	0	138	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	0	880	1252	2132	N	926	971	1897	0	18	0	18
	S.E.	0	332	575	664	N	373	356	516	0	18	0	18
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-33 (CONTINUED).

ATLANTIC TOMCOD

POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-33 (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	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-33 (CONTINUED).

ATLANTIC TOMCOD POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	N	0	37	210	511	759
	S.E.	N	0	N	0	37	122	420	439
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	0	N	0	710	2090	1584	4385
	S.E.	N	0	N	0	710	695	520	1121
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	0	N	0	0	174	2169	2344
	S.E.	N	0	N	0	0	74	2077	2079
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	0	N	0	0	20	140	159
	S.E.	N	0	N	0	0	20	140	141
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	0	N	0	0	138	0	138
	S.E.	N	0	N	0	0	138	0	138
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	747	2632	4405	7784
	S.E.	N	0	N	0	711	723	2187	2410
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-34
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	N	0	0	0	39	210	250	293	3743	0	4036
	S.E.	0	N	0	0	0	39	210	214	293	3743	0	3754
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	4267	N	0	4267	0	5008	0	5008	0	0	0	0
	S.E.	2688	N	0	2688	0	5008	0	5008	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	57987	57987	0	4647	0	4647	82	4264	0	4346
	S.E.	0	N	56365	56365	0	3857	0	3857	82	3537	0	3538
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	814	N	0	814	0	14656	0	14656	0	196	0	196
	S.E.	814	N	0	814	0	9702	0	9702	0	196	0	196
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	28	N	0	28	0	1266	96	1363	0	133	0	133
	S.E.	28	N	0	28	0	919	96	924	0	133	0	133
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	1335	N	894	2229	2517	1500	66	4083	0	185	0	185
	S.E.	0	N	623	623	2517	641	66	2598	0	69	0	69
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	937	N	1512	2450	0	2947	290	3237	90	364	33	487
	S.E.	0	N	761	761	0	1604	290	1630	90	223	33	243
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	408	N	195	603	254	1938	317	2510	36	252	30	318
	S.E.	0	N	136	136	254	1008	187	1056	36	95	30	106
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	7789	N	60588	68378	2771	32001	979	35752	501	9136	63	9701
	S.E.	2808	N	56374	56444	2530	11786	421	12062	319	5161	45	5171
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-34 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	S	WEST POINT B	C	R	S	CORNWALL B	C	R
10MAY82	ST. CROP	0	114	1693	1807	N	302	131	434	0	236	0	236
	S.E.	0	114	1693	1697	N	134	67	150	0	151	0	151
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	0	4848	2441	7289	N	8202	10683	18885	5	2601	0	2606
	S.E.	0	4115	1227	4294	N	3485	3544	4970	5	1550	0	1550
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	13050	837	13887	N	4908	5964	10872	0	2663	0	2663
	S.E.	0	11100	584	11115	N	2064	2132	2968	0	1318	0	1318
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	0	7257	15834	23091	N	3272	4369	7642	0	54	0	54
	S.E.	0	3911	12858	13439	N	2606	4210	4951	0	43	0	43
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	0	76	217	293	N	285	507	791	0	79	39	118
	S.E.	0	76	186	201	N	136	231	268	0	44	39	59
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	0	337	0	337	N	2060	569	2629	0	349	0	349
	S.E.	0	337	0	337	N	722	355	805	0	127	0	127
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	0	206	285	491	N	1450	1269	2718	8	383	136	527
	S.E.	0	107	132	170	N	1001	259	1034	8	114	115	162
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	0	1617	710	2327	N	254	383	637	0	210	0	210
	S.E.	0	1496	255	1517	N	135	152	203	0	65	0	65
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	0	243	26	269	N	504	310	815	23	546	0	569
	S.E.	0	128	26	131	N	302	127	327	23	230	0	232
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	0	27746	22044	49791	N	21238	24185	45423	35	7120	175	7331
	S.E.	0	12563	13044	18110	N	4986	5927	7745	25	2063	121	2066
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-34 (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	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	282	0	282	N	0	0	0	N	0	0	0
	S.E.	N	261	0	261	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	1813	0	1813	N	776	0	776	N	0	0	0
	S.E.	N	604	0	604	N	547	0	547	N	0	0	0
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	284	0	284	N	107	0	107	N	34	0	34
	S.E.	N	142	0	142	N	76	0	76	N	34	0	34
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	12	121	133	N	0	0	0	N	35	0	35
	S.E.	N	12	121	122	N	0	0	0	N	35	0	35
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	3085	46	3131	N	79	0	79	N	0	0	0
	S.E.	N	1157	46	1158	N	57	0	57	N	0	0	0
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	236	0	236	N	0	0	0	N	0	0	0
	S.E.	N	207	0	207	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	906	0	906	N	86	0	86	N	0	0	0
	S.E.	N	390	0	390	N	86	0	86	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	28	202	230	N	19	0	19	N	41	0	41
	S.E.	N	28	142	144	N	19	0	19	N	41	0	41
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	6647	369	7016	N	1066	0	1066	N	111	0	111
	S.E.	N	1410	192	1423	N	562	0	562	N	64	0	64
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-34 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-34 (CONTINUED).

ATLANTIC TOMCOD — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		ALBANY S.	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
10MAY82	ST. CROP	N	0	N	0	293	4434	2035	6762
	S.E.	N	0	N	0	293	3750	1708	4131
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	0	N	0	4272	20941	13124	38337
	S.E.	N	0	N	0	2688	7525	3751	8827
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	0	N	0	82	32120	64787	96990
	S.E.	N	0	N	0	82	12540	56408	57786
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	0	N	0	814	25860	20204	46878
	S.E.	N	0	N	0	814	10783	13529	17320
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	0	N	0	28	1887	981	2896
	S.E.	N	0	N	0	28	943	337	1002
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	0	N	0	0	5909	615	6524
	S.E.	N	0	N	0	0	1412	358	1457
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	0	N	0	3860	3959	2649	10469
	S.E.	N	0	N	0	2517	1218	700	2883
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	0	N	0	1027	6384	2929	10340
	S.E.	N	0	N	0	90	2245	868	2408
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	0	N	0	721	3571	1081	5373
	S.E.	N	0	N	0	257	1090	302	1160
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	11097	105066	108405	224568
	S.E.	N	0	N	0	3793	18836	58168	61259
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-35
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	475	N	139	614	57	1280	0	1338	0	404	0	404
	S.E.	193	N	139	238	37	383	0	385	0	142	0	142
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	170	N	263	433	35	708	0	744	0	98	0	98
	S.E.	79	N	263	274	26	135	0	138	0	42	0	42
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	99	N	253	351	25	402	0	426	0	155	0	155
	S.E.	35	N	253	255	25	114	0	116	0	64	0	64
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	139	N	0	139	24	169	0	193	0	58	0	58
	S.E.	85	N	0	85	24	65	0	70	0	29	0	29
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	ST. CROP	11	N	0	11	60	25	0	85	0	100	0	100
	S.E.	11	N	0	11	30	25	0	39	0	42	0	42
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	894	N	655	1549	202	2585	0	2786	0	815	0	815
	S.E.	228	N	390	452	65	428	0	433	0	169	0	169
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	0	1233	2638	3871	N	1103	1924	3026	0	524	0	524
	S.E.	0	365	2009	2042	N	478	980	1090	0	265	0	265
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	541	220	761	N	1143	929	2073	0	1102	69	1171
	S.E.	0	210	220	304	N	235	467	523	0	760	69	763
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	12	341	265	618	N	797	2943	3740	0	2401	0	2401
	S.E.	8	123	265	292	N	114	2943	2945	0	1851	0	1851
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	383	0	383	N	454	292	746	86	211	56	353
	S.E.	0	154	0	154	N	109	147	183	58	88	56	119
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	48	0	48	N	221	0	221	19	334	0	352
	S.E.	0	31	0	31	N	152	0	152	15	187	0	188
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	12	2545	3123	5680	N	3718	6088	9806	105	4572	125	4803
	S.E.	8	466	2038	2091	N	576	3140	3192	59	2029	89	2032
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	66	0	66	N	0	0	0	N	0	0	0
	S.E.	N	66	0	66	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	518	0	518	N	99	0	99	N	90	0	90
	S.E.	N	169	0	169	N	40	0	40	N	51	0	51
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	1125	0	1125	N	26	0	26	N	183	0	183
	S.E.	N	328	0	328	N	16	0	16	N	80	0	80
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	ST. CROP	N	768	0	768	N	93	221	314	N	132	0	132
	S.E.	N	352	0	352	N	24	137	139	N	45	0	45
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	2477	0	2477	N	217	221	438	N	405	0	405
	S.E.	N	515	0	515	N	49	137	145	N	105	0	105
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED).

ATLANTIC TOMCOD — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	38	0	38	N	14	0	14
	S.E.	N	20	0	20	N	14	0	14
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	75	0	75	N	26	0	26
	S.E.	N	31	0	31	N	26	0	26
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	ST. CROP	N	150	0	150	N	67	0	67
	S.E.	N	78	0	78	N	42	0	42
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	263	0	263	N	107	0	107
	S.E.	N	86	0	86	N	51	0	51
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-35 . (CONTINUED).

ATLANTIC TOMCOD — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	N	0	532	4545	4701	9778
	S.E.	N	0	N	0	196	774	2240	2378
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	205	3658	1482	5345
	S.E.	N	0	N	0	83	838	584	1024
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	135	4856	3460	8451
	S.E.	N	0	N	0	43	1872	2965	3507
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	250	2709	348	3307
	S.E.	N	0	N	0	106	405	157	447
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	0	N	0	91	1937	221	2248
	S.E.	N	0	N	0	35	443	137	465
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	1213	17704	10212	29129
	S.E.	N	0	N	0	244	2273	3768	4407
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-36
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

ATLANTIC TOMCOD YOUNG-OF-YEAR

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	ST. CROP	0	8	2	0	0	0	0	0	0	0	0	0	9
	S.E.	0	6	2	0	0	0	0	0	0	0	0	0	6
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	74	36	0	0	0	0	0	0	0	0	0	110
	S.E.	0	38	15	0	0	0	0	0	0	0	0	0	41
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	2	49	12	2	0	0	0	0	0	0	0	0	64
	S.E.	2	33	8	2	0	0	0	0	0	0	0	0	34
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	2	59	29	6	0	0	0	0	0	0	0	0	95
	S.E.	2	26	15	6	0	0	0	0	0	0	0	0	31
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
110CT82	ST. CROP	17	32	23	0	0	0	0	0	0	0	0	0	72
	S.E.	17	25	16	0	0	0	0	0	0	0	0	0	34
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	20	221	102	7	0	0	0	0	0	0	0	0	350
	S.E.	17	62	28	6	0	0	0	0	0	0	0	0	71
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-37
COMBINED STANDING CROP (IN THOUSANDS) OF JUVENILES
IN HUDSON RIVER ESTUARY,
DETERMINED BY THE BEACH SEINE AND FALL SHOALS SURVEYS.
ATLANTIC TOMCOD YOUNG-OF-THE-YEAR
AUG 16 - AUG 22

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	242 *	719 *	142 *	1103
	SE	0	102 *	303 *	142 *	349
TAPPAN ZEE	ST. CROP	8	35 *	994 *	0 *	1037
	SE	6	24 *	259 *	0 *	260
CROTON-HAVERSTRAW	ST. CROP	2	0 *	251 *	0 *	253
	SE	2	0 *	92 *	0 *	92
INDIAN POINT	ST. CROP	0	0 *	887 *	1429 *	2316
	SE	0	0 *	288 *	1115 *	1151
WEST POINT	ST. CROP	0	77 *	1021 *	1427 *	2524
	SE	0	24 *	324 *	724 *	793
CORNWALL	ST. CROP	0	0 *	813 *	35 *	848
	SE	0	0 *	513 *	35 *	514
POUGHKEEPSIE	ST. CROP	0	2 *	30 *	0 *	32
	SE	0	2 *	30 *	0 *	30
HYDE PARK	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
KINGSTON	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
SAUGERTIES	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
CATSKILL	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	9	355 *	4715 *	3032 *	8112
	SE	6	107 *	787 *	1337 *	1555

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #
ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #
ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

ATLANTIC TOMCOD TABLE B-37 (CONTINUED).

YOUNG-OF-THE-YEAR

AUG 23 - AUG 29

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	127	378 *	186	692
	SE	0	59	175 *	186	262
TAPPAN ZEE	ST. CROP	8	27	708	0	743
	SE	6	20	135	0	137
CROTON-HAVERSTRAW	ST. CROP	2	0	98	0	100
	SE	2	0	42	0	42
INDIAN POINT	ST. CROP	0	0	541	220	761
	SE	0	0	210	220	304
WEST POINT	ST. CROP	0	78 *	1039	929	2047
	SE	0	16 *	214	467	514
CORNWALL	ST. CROP	0	0	1102	69	1171
	SE	0	0	760	69	763
POUGHKEEPSIE	ST. CROP	0	4 *	60	0	65
	SE	0	4 *	60	0	60
HYDE PARK	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
KINGSTON	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
SAUGERTIES	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
CATSKILL	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	9	236 *	3927	1405 *	5577
	SE	6	64 *	850	553 *	1016

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-37 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

AUG 30 - SEP 5

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	101 *	299 *	182 *	582
	SE	0	43 *	127 *	182 *	226
TAPPAN ZEE	ST. CROP	74	23 *	555 *	0 *	651
	SE	38	19 *	124 *	0 *	132
CROTON-HAVERSTRAW	ST. CROP	36	0 *	127 *	0 *	163
	SE	15	0 *	53 *	0 *	55
INDIAN POINT	ST. CROP	0	5 *	441 *	242 *	688
	SE	0	3 *	167 *	242 *	294
WEST POINT	ST. CROP	0	66 *	882 *	1936 *	2884
	SE	0	12 *	159 *	1705 *	1712
CORNWALL	ST. CROP	0	0 *	1752 *	35 *	1786
	SE	0	0 *	1305 *	35 *	1306
POUGHKEEPSIE	ST. CROP	0	19 *	267 *	0 *	286
	SE	0	8 *	108 *	0 *	108
HYDE PARK	ST. CROP	0	2 *	46 *	0 *	48
	SE	0	1 *	19 *	0 *	19
KINGSTON	ST. CROP	0	9 *	33 *	0 *	42
	SE	0	5 *	19 *	0 *	20
SAUGERTIES	ST. CROP	0	5 *	13 *	0 *	18
	SE	0	2 *	7 *	0 *	7
CATSKILL	ST. CROP	0	2 *	4 *	0 *	6
	SE	0	2 *	4 *	0 *	4
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	110	231 *	4418 *	2396 *	7155
	SE	41	49 *	1343 *	1732 *	2193

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

ATLANTIC TOMCOD TABLE B-37 (CONTINUED).
YOUNG-OF-THE-YEAR
SEP 6 - SEP 12

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	74	220 *	179	472
	SE	0	26	78 *	179	197
TAPPAN ZEE	ST. CROP	74	18	402	0	494
	SE	38	18	114	0	121
CROTON-HAVERSTRAW	ST. CROP	36	0	155	0	192
	SE	15	0	64	0	65
INDIAN POINT	ST. CROP	0	9	341	265	615
	SE	0	6	123	265	292
WEST POINT	ST. CROP	0	54 *	725	2943	3722
	SE	0	8 *	103	2943	2945
CORNWALL	ST. CROP	0	0	2401	0	2401
	SE	0	0	1851	0	1851
POUGHKEEPSIE	ST. CROP	0	34 *	473	0	507
	SE	0	11 *	155	0	155
HYDE PARK	ST. CROP	0	5 *	92	0	97
	SE	0	2 *	37	0	37
KINGSTON	ST. CROP	0	17 *	67	0	84
	SE	0	10 *	38	0	39
SAUGERTIES	ST. CROP	0	9 *	26	0	35
	SE	0	5 *	14	0	15
CATSKILL	ST. CROP	0	5 *	8	0	12
	SE	0	5 *	8	0	9
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	110	226 *	4909	3386 *	8632
	SE	41	37 *	1871	2960 *	3502

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #
ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #
ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-37 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

SEP 13 - SEP 19

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	2	89 *	265 *	89 *	445
	SE	2	45 *	134 *	89 *	167
TAPPAN ZEE	ST. CROP	49	18 *	285 *	0 *	353
	SE	33	18 *	89 *	0 *	97
CROTON-HAVERSTRAW	ST. CROP	12	0 *	107 *	0 *	118
	SE	8	0 *	47 *	0 *	47
INDIAN POINT	ST. CROP	2	5 *	362 *	132 *	501
	SE	2	3 *	138 *	132 *	191
WEST POINT	ST. CROP	0	43 *	569 *	1617 *	2229
	SE	0	8 *	101 *	1545 *	1548
CORNWALL	ST. CROP	0	32 *	1306 *	28 *	1367
	SE	0	22 *	969 *	28 *	970
POUGHKEEPSIE	ST. CROP	0	53 *	750 *	0 *	804
	SE	0	16 *	227 *	0 *	228
HYDE PARK	ST. CROP	0	3 *	58 *	0 *	61
	SE	0	1 *	26 *	0 *	26
KINGSTON	ST. CROP	0	26 *	101 *	0 *	128
	SE	0	13 *	49 *	0 *	50
SAUGERTIES	ST. CROP	0	14 *	38 *	0 *	52
	SE	0	6 *	17 *	0 *	18
CATSKILL	ST. CROP	0	7 *	11 *	0 *	18
	SE	0	7 *	11 *	0 *	13
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	64	290 *	3853 *	1867 *	6074
	SE	34	58 *	1026 *	1553 *	1863

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-37 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

SEP 20 - SEP 26

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	2	104	310 *	0	416
	SE	2	64	190 *	0	201
TAPPAN ZEE	ST. CROP	49	18	169	0	236
	SE	33	18	65	0	75
CROTON-HAVERSTRAW	ST. CROP	12	0	58	0	70
	SE	8	0	29	0	30
INDIAN POINT	ST. CROP	2	0	383	0	385
	SE	2	0	154	0	154
WEST POINT	ST. CROP	0	31 *	412	292	736
	SE	0	7 *	99	147	177
CORNWALL	ST. CROP	0	65	211	56	332
	SE	0	43	88	56	113
POUGHKEEPSIE	ST. CROP	0	73 *	1028	0	1101
	SE	0	21 *	300	0	300
HYDE PARK	ST. CROP	0	1 *	24	0	25
	SE	0	1 *	15	0	15
KINGSTON	ST. CROP	0	35 *	136	0	171
	SE	0	16 *	60	0	62
SAUGERTIES	ST. CROP	0	18 *	51	0	69
	SE	0	7 *	21	0	22
CATSKILL	ST. CROP	0	9 *	14	0	23
	SE	0	9 *	14	0	17
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	64	355 *	2796	348 *	3563
	SE	34	85 *	420	157 *	458

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-37 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

SEP 27 - OCT 3

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	2	56 *	168 *	0 *	226
	SE	2	36 *	108 *	0 *	114
TAPPAN ZEE	ST. CROP	59	32 *	97 *	0 *	187
	SE	26	20 *	45 *	0 *	56
CROTON-HAVERSTRAW	ST. CROP	29	0 *	79 *	0 *	108
	SE	15	0 *	36 *	0 *	39
INDIAN POINT	ST. CROP	6	0 *	215 *	0 *	221
	SE	6	0 *	92 *	0 *	92
WEST POINT	ST. CROP	0	23 *	307 *	146 *	476
	SE	0	9 *	119 *	73 *	140
CORNWALL	ST. CROP	0	40 *	272 *	28 *	340
	SE	0	27 *	138 *	28 *	143
POUGHKEEPSIE	ST. CROP	0	62 *	865 *	0 *	926
	SE	0	22 *	311 *	0 *	312
HYDE PARK	ST. CROP	0	3 *	55 *	110 *	169
	SE	0	1 *	19 *	68 *	71
KINGSTON	ST. CROP	0	30 *	117 *	0 *	147
	SE	0	12 *	47 *	0 *	48
SAUGERTIES	ST. CROP	0	27 *	76 *	0 *	103
	SE	0	13 *	37 *	0 *	39
CATSKILL	ST. CROP	0	16 *	26 *	0 *	41
	SE	0	11 *	19 *	0 *	22
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	95	288 *	2277 *	284 *	2944
	SE	31	59 *	397 *	104 *	415

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-37 (CONTINUED).

ATLANTIC TOMCOD — YOUNG-OF-THE-YEAR

OCT 4 - OCT 10

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	2	9	25 *	0	35
	SE	2	9	25 *	0	27
TAPPAN ZEE	ST. CROP	59	45	25	0	129
	SE	26	23	25	0	43
CROTON-HAVERSTRAW	ST. CROP	29	0	100	0	129
	SE	15	0	42	0	45
INDIAN POINT	ST. CROP	6	0	48	0	53
	SE	6	0	31	0	31
WEST POINT	ST. CROP	0	15 *	201	0	216
	SE	0	10 *	138	0	139
CORNWALL	ST. CROP	0	14	334	0	348
	SE	0	11	187	0	188
POUGHKEEPSIE	ST. CROP	0	50 *	702	0	752
	SE	0	23 *	322	0	323
HYDE PARK	ST. CROP	0	5 *	87	221	312
	SE	0	1 *	23	137	139
KINGSTON	ST. CROP	0	26 *	98	0	124
	SE	0	9 *	34	0	35
SAUGERTIES	ST. CROP	0	36 *	102	0	138
	SE	0	19 *	53	0	56
CATSKILL	ST. CROP	0	23 *	37	0	59
	SE	0	14 *	23	0	27
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	95	222 *	1757	221 *	2294
	SE	31	44 *	408	137 *	434

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-37 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

OCT 11 - OCT 17

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	17	9 *	25 *	0 *	50
	SE	17	9 *	25 *	0 *	31
TAPPAN ZEE	ST. CROP	32	45 *	25 *	0 *	102
	SE	25	23 *	25 *	0 *	42
CROTON-HAVERSTRAW	ST. CROP	23	0 *	100 *	0 *	123
	SE	16	0 *	42 *	0 *	45
INDIAN POINT	ST. CROP	0	0 *	48 *	0 *	48
	SE	0	0 *	31 *	0 *	31
WEST POINT	ST. CROP	0	15 *	201 *	0 *	216
	SE	0	10 *	138 *	0 *	139
CORNWALL	ST. CROP	0	14 *	334 *	0 *	348
	SE	0	11 *	187 *	0 *	188
POUGHKEEPSIE	ST. CROP	0	50 *	702 *	0 *	752
	SE	0	23 *	322 *	0 *	323
HYDE PARK	ST. CROP	0	5 *	87 *	221 *	312
	SE	0	1 *	23 *	137 *	139
KINGSTON	ST. CROP	0	26 *	98 *	0 *	124
	SE	0	9 *	34 *	0 *	35
SAUGERTIES	ST. CROP	0	36 *	102 *	0 *	138
	SE	0	19 *	53 *	0 *	56
CATSKILL	ST. CROP	0	23 *	37 *	0 *	59
	SE	0	14 *	23 *	0 *	27
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	72	222 *	1757 *	221 *	2272
	SE	34	44 *	408 *	137 *	434

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-38
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

ALEWIFE/BLUEBACK HERRING EGGS

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-38 (CONTINUED).

ALEWIFE/BLUEBACK HERRING EGGS

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	WEST POINT S	B	C	R	CORNWALL S	B	C	R
10MAY82	ST. CROP	0	23	0	23	N	49	213	261	5	457	55	518
	S.E.	0	23	0	23	N	28	89	93	5	289	55	294
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	0	45	0	45	N	0	0	0	5	19	0	24
	S.E.	0	45	0	45	N	0	0	0	5	19	0	19
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	0	0	0	N	36	22	58	0	392	49	441
	S.E.	0	0	0	0	N	36	22	42	0	299	49	303
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	40	0	40
	S.E.	0	0	0	0	N	0	0	0	0	40	0	40
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	0	68	0	68	N	85	234	319	10	909	104	1023
	S.E.	0	50	0	50	N	46	92	102	7	418	74	425
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-38 (CONTINUED).

ALEWIFE/BLUEBACK HERRING EGGS

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	1684	656	2340	N	44850	11187	56038	N	50221	14639	64860
	S.E.	N	913	487	1034	N	12448	4405	13204	N	22792	9469	24681
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	5372	46357	51729	N	100460	20037	120497	N	80329	697	81026
	S.E.	N	3187	36728	36866	N	37561	8827	38585	N	49921	337	49922
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	586	243	829	N	2673	298	2971	N	829	1714	2542
	S.E.	N	255	190	318	N	1391	188	1403	N	780	1666	1840
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	1578	542	2120	N	79	0	79	N	173	0	173
	S.E.	N	819	337	886	N	79	0	79	N	173	0	173
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	45	45
	S.E.	N	0	0	0	N	0	0	0	N	0	45	45
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	9220	47798	57019	N	148063	31522	179584	N	131552	17095	148646
	S.E.	N	3424	36733	36892	N	39595	9867	40806	N	54883	9621	55720
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-38 (CONTINUED).

ALEWIFE/BLUEBACK HERRING EGGS

WEEK BEGINNING MONDAY		SAUGERTIES S	B	C	R	CATSKILL S	B	C	R
10MAY82	ST. CROP	N	19696750	348511	20045261	N	7613735	975873	8589608
	S.E.	N	17275688	319921	17278650	N	3989972	906755	4091709
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	1342739	12296	1355035	N	14794273	312007	15106280
	S.E.	N	1236348	6341	1236364	N	13455150	131585	13455794
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	3892	19374	23265	N	77588	542045	619633
	S.E.	N	1738	18196	18278	N	47927	385384	388353
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	1729	717	2446	N	771	0	771
	S.E.	N	1009	717	1238	N	488	0	488
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	2094	843	2937	N	144	0	144
	S.E.	N	1382	576	1497	N	144	0	144
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	1448	0	1448	N	4552	849	5400
	S.E.	N	1392	0	1392	N	1397	647	1540
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	0	0	0	N	281	71	351
	S.E.	N	0	0	0	N	141	71	157
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	358	0	358	N	70	0	70
	S.E.	N	358	0	358	N	70	0	70
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	21049010	381741	21430751	N	22491413	1830844	24322257
	S.E.	N	17319872	320502	17322837	N	14034360	994002	14069516
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-38 (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	ST. CROP	N	323193	N	323193	5	27730963	1351135	29082103
	S.E.	N	134454	N	134454	5	17730991	961594	17757047
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	1020176	N	1020176	5	17343412	391394	17734811
	S.E.	N	741889	N	741889	5	13532330	137047	13533023
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	745	N	745	0	86742	563743	650485
	S.E.	N	745	N	745	0	47993	385817	388790
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	47651	N	47651	0	51981	1259	53240
	S.E.	N	16525	N	16525	0	16584	793	16603
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	1640747	N	1640747	0	1642985	888	1643873
	S.E.	N	766594	N	766594	0	766595	578	766596
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	0	N	0	0	6039	849	6888
	S.E.	N	0	N	0	0	1973	647	2076
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	526	N	526	0	807	71	877
	S.E.	N	263	N	263	0	299	71	307
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	0	N	0	0	428	0	428
	S.E.	N	0	N	0	0	365	0	365
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	3033039	N	3033039	10	46863357	2309338	49172705
	S.E.	N	1075369	N	1075369	7	22318204	1045132	22342662
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-39
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

ALEWIFE/BLUEBACK HERRING YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	46	46
	S.E.	0	N	0	0	0	0	0	0	0	0	46	46
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	46	46
	S.E.	0	N	0	0	0	0	0	0	0	0	46	46
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-39 (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	ST. CROP	35	152	447	634	N	173	788	961	203	423	313	940
	S.E.	23	111	104	153	N	101	189	214	82	96	205	241
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	0	48	0	48	N	117	559	676	226	362	278	866
	S.E.	0	32	0	32	N	68	270	278	130	123	133	223
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	0	31	31	N	62	257	319	123	183	887	1193
	S.E.	0	0	31	31	N	50	69	85	41	132	240	277
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	11	0	100	111	N	12	587	599	50	79	844	974
	S.E.	11	0	73	74	N	12	148	148	24	54	310	316
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	0	0	0	0	N	0	25	25	0	0	0	0
	S.E.	0	0	0	0	N	0	25	25	0	0	0	0
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	0	0	0	0	N	0	19	19	0	0	19	19
	S.E.	0	0	0	0	N	0	19	19	0	0	19	19
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	46	200	577	824	N	365	2235	2600	603	1048	2342	3992
	S.E.	26	115	131	176	N	132	369	392	161	211	463	534
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-39 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	577	1177	1755	N	1920	744	2664	N	9962	7200	17162
	S.E.	N	233	299	379	N	470	224	521	N	5646	2587	6211
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	2453	2449	4902	N	25760	133254	159015	N	64975	307431	372406
	S.E.	N	840	743	1122	N	5694	40761	41157	N	26807	78377	82835
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	6436	15547	21983	N	1301	4901	6202	N	3319	10524	13842
	S.E.	N	1886	2811	3385	N	615	1947	2042	N	751	8151	8185
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	3966	13152	17118	N	248	1192	1440	N	208	1580	1789
	S.E.	N	1458	3543	3831	N	100	328	343	N	90	1114	1118
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	99	333	432	N	13	1807	1820	N	917	5554	6472
	S.E.	N	45	119	127	N	13	734	734	N	540	1579	1669
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	0	136	136	N	0	30	30	N	69	35	103
	S.E.	N	0	72	72	N	0	30	30	N	69	35	77
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	0	0	0	N	17	0	17	N	0	34	34
	S.E.	N	0	0	0	N	17	0	17	N	0	34	34
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	13531	32795	46326	N	29259	141928	171187	N	79450	332358	411808
	S.E.	N	2538	4595	5250	N	5747	40816	41219	N	27411	78866	83494
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-39 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES S	B	C	R	CATSKILL S	B	C	R
10MAY82	ST. CROP	N	26765	32164	58929	N	33915	6884	40799
	S.E.	N	10377	10163	14525	N	8779	2683	9180
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	111627	171456	283083	N	19251	64458	83709
	S.E.	N	70216	66311	96578	N	15267	24385	28770
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	8375	51876	60251	N	102985	86598	189583
	S.E.	N	3215	11299	11748	N	85738	15677	87159
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	780	5746	6526	N	20413	2949	23361
	S.E.	N	356	1163	1217	N	10591	1327	10674
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	17731	10157	27888	N	189309	243706	433015
	S.E.	N	5468	4350	6987	N	90077	8712	90498
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	89	0	89	N	2094	5715	7808
	S.E.	N	52	0	52	N	1861	1908	2665
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	136	0	136	N	485	792	1277
	S.E.	N	136	0	136	N	388	369	535
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	45	0	45	N	0	0	0
	S.E.	N	45	0	45	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	165547	271399	436946	N	368451	411101	779552
	S.E.	N	71263	68179	98624	N	126059	30480	129691
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-39 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	48979	N	48979	238	122867	49764	172870
	S.E.	N	25078	N	25078	85	29084	10835	31037
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	339114	N	339114	226	563708	679885	1243820
	S.E.	N	71427	N	71427	130	104961	113123	154317
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	0	N	0	123	122659	170621	293404
	S.E.	N	0	N	0	41	85824	21252	88416
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	152590	N	152590	61	178296	26151	204508
	S.E.	N	25211	N	25211	26	27387	4140	27698
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	22193	N	22193	0	230262	261583	491845
	S.E.	N	12832	N	12832	0	91153	9893	91688
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	13864	N	13864	0	16116	5953	22068
	S.E.	N	7732	N	7732	0	7953	1911	8180
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	15734	N	15734	0	16373	826	17199
	S.E.	N	7464	N	7464	0	7475	371	7485
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	398	N	398	0	443	0	443
	S.E.	N	311	N	311	0	314	0	314
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	683	N	683	0	683	0	683
	S.E.	N	683	N	683	0	683	0	683
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	593557	N	593557	649	1251409	1194782	2446841
	S.E.	N	81529	N	81529	163	168544	116124	204675
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-40
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

ALEWIFE/BLUEBACK HERRING — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS S	B	C	R	TAPPAN ZEE S	B	C	R	CROTON-HAVERSTRAW S	B	C	R
10MAY82	ST. CROP	51	N	161	212	118	188	464	771	261	0	127	388
	S.E.	26	N	161	163	118	188	320	390	180	0	82	198
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	218	269	487	161	244	149	554
	S.E.	0	N	0	0	0	139	269	303	123	35	149	196
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	110	0	0	110	296	0	132	429
	S.E.	0	N	0	0	110	0	0	110	128	0	66	144
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	0	57	100	157	94	0	449	543
	S.E.	0	N	0	0	0	57	100	115	62	0	355	360
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	52	N	172	224	1754	0	4593	6347	4162	376	3212	7750
	S.E.	26	N	172	174	1218	0	2077	2407	2660	128	843	2793
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	149	N	0	149	18026	1238	4272	23536	22449	2389	24273	49110
	S.E.	0	N	0	0	17445	692	2004	17573	12435	1109	5170	13512
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	8	8	0	38	0	38	204	33	283	520
	S.E.	0	N	8	8	0	38	0	38	108	21	130	170
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	74	0	0	74
	S.E.	0	N	0	0	0	0	0	0	74	0	0	74
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	78	0	78	0	0	0	0
	S.E.	0	N	0	0	0	78	0	78	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	252	N	341	593	20009	1817	9698	31524	27700	3042	28624	59366
	S.E.	37	N	236	239	17488	738	2918	17745	12720	1117	5255	13808
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-40 (CONTINUED).

ALEWIFE/BLUEBACK HERRING POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT					WEST POINT				CORNWALL		
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	338	463	4258	5059	N	2008	6698	8706	2215	5984	1400	9599
	S.E.	164	226	923	965	N	867	1287	1552	582	1995	242	2092
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	668	115	1098	1882	N	530	3709	4239	793	602	3721	5116
	S.E.	267	73	326	428	N	257	663	711	212	87	1753	1768
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	26	87	342	455	N	2881	23623	26504	7143	17920	228703	253766
	S.E.	26	31	177	182	N	1360	12843	12914	3107	4193	69726	69921
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	581	245	16344	17169	N	605	53321	53925	22241	2962	198069	223271
	S.E.	271	135	9006	9011	N	259	15877	15879	12339	1034	101371	102124
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	5053	2516	93874	101443	N	2249	160224	162473	26654	2880	74776	104310
	S.E.	2457	1300	33357	33472	N	1270	56012	56027	7903	1621	33754	34705
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	38149	3182	76095	117426	N	3811	15947	19758	68508	3682	85955	158144
	S.E.	24195	850	19424	31038	N	2785	6528	7097	51505	1244	21533	55839
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	2573	1203	12368	16144	N	10613	23272	33885	3817	5469	36232	45518
	S.E.	346	720	3844	3926	N	4492	3693	5815	1019	2101	7452	7809
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	1344	750	5648	7742	N	4449	26898	31347	8682	8840	23428	40951
	S.E.	1167	504	2134	2484	N	1271	7207	7318	5103	1009	9632	10947
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	0	20	197	218	N	137	2362	2499	489	2375	12707	15572
	S.E.	0	20	82	85	N	57	407	411	424	1066	5095	5223
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	48732	8582	210225	267539	N	27283	316054	343337	140542	50714	664991	856247
	S.E.	24353	1805	39892	46773	N	5822	60538	60817	53896	5777	130069	140912
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-40 (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	ST. CROP	N	1832	11745	13577	N	1806	9541	11347	N	3637	12653	16289
	S.E.	N	268	6568	6573	N	221	2484	2494	N	1715	4016	4367
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	3007	63296	66303	N	52145	63417	115562	N	29905	306095	336000
	S.E.	N	560	43175	43178	N	17824	21335	27801	N	14978	132476	133320
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	40903	599735	640638	N	57279	1450806	1508086	N	137325	779244	916569
	S.E.	N	9328	148622	148914	N	23398	411107	411772	N	44051	272007	275551
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	32792	985186	1017979	N	2448	584310	586758	N	35415	1194249	1229664
	S.E.	N	8208	248059	248195	N	352	216140	216140	N	12450	164656	165126
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	23744	826969	850713	N	1957	676473	678430	N	266226	642134	908360
	S.E.	N	5832	207109	207191	N	894	257058	257059	N	115713	519799	532523
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	9176	254792	263968	N	15546	186247	201793	N	9000	374579	383579
	S.E.	N	4208	113767	113845	N	10869	114892	115405	N	5190	150601	150690
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	21736	68165	89901	N	5325	43936	49261	N	33780	38917	72697
	S.E.	N	5207	15706	16547	N	2286	6477	6868	N	13343	9038	16115
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	25870	66161	92031	N	7162	43744	50907	N	23178	86127	109305
	S.E.	N	5290	14814	15730	N	2763	12514	12816	N	14211	29879	33087
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	12817	47471	60288	N	19539	31902	51441	N	19957	161973	181930
	S.E.	N	5940	15361	16470	N	7859	9469	12305	N	8609	57282	57925
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	171877	2923521	3095398	N	163208	3090375	3253583	N	558422	3595971	4154394
	S.E.	N	17230	376919	377313	N	32540	543833	544805	N	127253	644820	657256
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-40 (CONTINUED).

ALEWIFE/BLUEBACK HERRING POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES S	B	C	R	CATSKILL S	B	C	R
10MAY82	ST. CROP	N	27426	10822	38248	N	12112	11041	23153
	S.E.	N	3212	5085	6014	N	11144	1408	11233
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	113687	417546	531232	N	45830	88768	134597
	S.E.	N	74291	231377	243011	N	6706	31493	32199
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	382724	1529861	1912585	N	116988	1085977	1202965
	S.E.	N	86137	595225	601425	N	69327	670508	674082
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	113425	2933921	3047346	N	35527	447794	483322
	S.E.	N	23080	1425523	1425710	N	7126	195393	195523
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	703566	323665	1027231	N	177834	40709	218544
	S.E.	N	283427	82132	295088	N	49336	14675	51473
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	45183	619809	664992	N	49103	31777	80880
	S.E.	N	36000	0	36000	N	7900	6550	10262
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	108245	85874	194119	N	59984	69975	129958
	S.E.	N	26983	19553	33322	N	24847	33725	41889
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	70157	30243	100400	N	109569	114578	224147
	S.E.	N	21033	4798	21573	N	26916	24224	36211
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	46089	210265	256354	N	112382	54942	167324
	S.E.	N	10121	110577	111039	N	64845	20118	67894
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	1610502	6162005	7772507	N	719330	1945561	2664891
	S.E.	N	310454	1568231	1598665	N	114321	700814	710077
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-40 (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	ST. CROP	N	0	N	0	2984	55457	68908	127349
	S.E.	N	0	N	0	643	11933	9797	15453
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	28048	N	28048	1622	274331	948067	1224020
	S.E.	N	6485	N	6485	363	78413	272763	283811
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	82	N	82	7576	756189	5698424	6462189
	S.E.	N	82	N	82	3112	121738	1036333	1043463
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	184492	N	184492	22916	407968	6413743	6844627
	S.E.	N	47580	N	47580	12342	55417	1488712	1489795
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	13853	N	13853	37674	1195203	2846801	4079678
	S.E.	N	13646	N	13646	8778	310454	625715	698554
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	7719	N	7719	147281	150029	1673745	1971056
	S.E.	N	3226	N	3226	60804	39286	223117	234567
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	27180	N	27180	6594	273605	379030	659229
	S.E.	N	10361	N	10361	1082	41088	44429	60526
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	68220	N	68220	10099	318196	396828	725124
	S.E.	N	33716	N	33716	5235	50439	45033	67819
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	42538	N	42538	489	255933	521820	778242
	S.E.	N	14543	N	14543	424	68491	127534	144763
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	372134	N	372134	237235	3686910	18947368	22871513
	S.E.	N	62914	N	62914	62972	361981	1956096	1990304
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-41
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1982.

ALEWIFE/BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	0	0	0	75	0	0	75
	S.E.	0	N	0	0	0	0	0	0	75	0	0	75
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	0	0	0	119	0	0	119
	S.E.	0	N	0	0	0	0	0	0	119	0	0	119
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	194	0	0	194
	S.E.	0	N	0	0	0	0	0	0	141	0	0	141
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-41 (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	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	0	0	33	33	N	0	22	22	40	18	21	78
	S.E.	0	0	33	33	N	0	22	22	40	12	21	46
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	166	0	0	166	N	121	743	864	1323	737	405	2466
	S.E.	166	0	0	166	N	59	575	578	694	195	148	736
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	16	41	137	194	N	0	80	80	550	563	2028	3140
	S.E.	16	41	87	97	N	0	47	47	539	235	1535	1644
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	182	41	170	393	N	121	845	966	1913	1318	2454	5685
	S.E.	167	41	93	195	N	59	578	581	879	305	1542	1801
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-41 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE			HYDE PARK			KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	225	484	709	N	0	363	363	N	394	477	871
	S.E.	N	91	148	173	N	0	194	194	N	267	347	438
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	1325	9141	10466	N	8120	1481	9600	N	5703	2084	7787
	S.E.	N	418	3024	3052	N	6499	989	6574	N	3142	1423	3449
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	1550	9624	11175	N	8120	1844	9964	N	6097	2562	8658
	S.E.	N	427	3027	3057	N	6499	1008	6577	N	3153	1465	3477
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-41 (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	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	1024	0	1024	N	911	0	911
	S.E.	N	576	0	576	N	911	0	911
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	14030	8853	22883	N	3701	2912	6613
	S.E.	N	4622	8323	9520	N	2571	2802	3803
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	15054	8853	23907	N	4612	2912	7524
	S.E.	N	4658	8323	9538	N	2728	2802	3910
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-41 (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	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
21JUN82	ST. CROP	N	0	N	0	115	18	75	208
	S.E.	N	0	N	0	85	12	44	97
	NO. TOWS	N	3	N	3	16	62	108	186
28JUN82	ST. CROP	N	0	N	0	1489	3414	2473	7376
	S.E.	N	0	N	0	713	1133	730	1525
	NO. TOWS	N	3	N	3	16	61	110	187
05JUL82	ST. CROP	N	7464	N	7464	684	40945	26717	68346
	S.E.	N	7464	N	7464	552	11663	9572	15098
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	7464	N	7464	2289	44376	29265	75930
	S.E.	N	7464	N	7464	906	11718	9600	15175
	NO. TOWS	N	31	N	31	163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-42
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

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
09AUG82	ST. CROP	0	N	0	0	58	150	55	263	151	126	0	277
	S.E.	0	N	0	0	29	84	55	105	53	34	0	63
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	0	0	84	84	24	212	0	236
	S.E.	0	N	0	0	0	0	84	84	13	65	0	66
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	253	253	99	228	0	326	0	165	0	165
	S.E.	0	N	253	253	66	58	0	88	0	103	0	103
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	62	0	62	0	127	0	127
	S.E.	0	N	0	0	0	45	0	45	0	37	0	37
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	ST. CROP	0	N	0	0	0	0	0	0	42	79	0	121
	S.E.	0	N	0	0	0	0	0	0	24	27	0	36
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	253	253	157	439	140	736	217	709	0	926
	S.E.	0	N	253	253	72	111	101	167	60	135	0	148
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-42 (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	ST. CROP	80	145	466	690	N	40	498	538	821	4312	212	5345
	S.E.	46	68	234	248	N	28	257	258	329	1162	121	1214
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	92	111	330	533	N	944	383	1327	0	2142	135	2278
	S.E.	41	57	330	338	N	751	197	777	0	1187	135	1195
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	6	117	132	256	N	0	0	0	141	512	80	733
	S.E.	6	73	132	151	N	0	0	0	19	314	80	325
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	149	0	149	N	798	278	1076	361	1979	1139	3479
	S.E.	0	49	0	49	N	248	278	372	132	1154	208	1180
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	100	0	100	N	724	132	856	39	1761	76	1876
	S.E.	0	66	0	66	N	135	132	189	34	991	76	995
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	178	622	928	1728	N	2506	1290	3797	1361	10707	1643	13710
	S.E.	62	141	426	453	N	803	446	919	357	2275	297	2322
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-42 (CONTINUED).

BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	7916	169	8085	N	10635	11892	22527	N	13542	5993	19535
	S.E.	N	4789	169	4792	N	4695	9750	10822	N	2116	1802	2779
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	2877	299	3176	N	9299	4906	14205	N	22930	12551	35481
	S.E.	N	1782	150	1788	N	1842	3073	3583	N	1536	4541	4793
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	15639	316	15955	N	11471	7882	19353	N	11558	3729	15287
	S.E.	N	5504	316	5513	N	1399	3765	4016	N	3982	1809	4374
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	28403	0	28403	N	15640	482	16122	N	27200	1335	28535
	S.E.	N	10308	0	10308	N	1269	133	1276	N	6574	842	6627
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	9130	539	9669	N	5106	9793	14900	N	9983	966	10949
	S.E.	N	3711	539	3750	N	1035	6354	6437	N	4528	427	4548
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	63964	1324	65288	N	52152	34955	87106	N	85214	24573	109787
	S.E.	N	13283	664	13300	N	5484	12613	13753	N	9296	5294	10697
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-42 (CONTINUED).

WEEK BEGINNING MONDAY		BLUEBACK HERRING				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	26281	453	26734	N	27416	2383	29799
	S.E.	N	5242	238	5247	N	2923	1388	3235
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	16230	4719	20949	N	16438	2795	19233
	S.E.	N	4415	3448	5602	N	1690	830	1882
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	11109	1034	12144	N	1578	466	2045
	S.E.	N	4053	359	4069	N	687	218	721
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	10511	2052	12563	N	10917	2092	13008
	S.E.	N	2049	1799	2727	N	1098	1080	1540
	NO. TOWS	N	12	6	18	N	15	6	21
040CT82	ST. CROP	N	26	1020	1047	N	1491	66	1557
	S.E.	N	18	392	392	N	549	66	553
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	64158	9278	73437	N	57840	7802	65642
	S.E.	N	8222	3933	9114	N	3657	1958	4148
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-42 (CONTINUED).

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
09AUG82	ST. CROP	N	40759	N 40759		1110	131322	22121	154553
	S.E.	N	7634	N 7634		338	12046	10023	15675
	NO. TOWS	N	8	N 8		64	86	50	200
23AUG82	ST. CROP	N	24056	N 24056		116	95239	26203	121558
	S.E.	N	2749	N 2749		43	6389	6545	9146
	NO. TOWS	N	8	N 8		64	86	50	200
06SEP82	ST. CROP	N	15871	N 15871		246	68249	13892	82387
	S.E.	N	2412	N 2412		69	8423	4220	9421
	NO. TOWS	N	8	N 8		64	86	50	200
20SEP82	ST. CROP	N	31780	N 31780		361	127567	7377	135304
	S.E.	N	6266	N 6266		132	14041	2291	14227
	NO. TOWS	N	8	N 8		64	86	50	200
040CT82	ST. CROP	N	13702	N 13702		80	42102	12593	54775
	S.E.	N	2897	N 2897		41	6712	6405	9277
	NO. TOWS	N	8	N 8		64	86	50	200
TOTAL	ST. CROP	N	126167	N 126167		1913	464478	82185	548576
	S.E.	N	10923	N 10923		374	22340	14401	26582
	NO. TOWS	N	40	N 40		320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-43
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

BLUEBACK HERRING YOUNG-OF-YEAR

WEEK BEGINNING MONDAY		REGIONS											
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	ST. CROP	0	0	8	9	13	36	78	95	98	4646	91	1089	6162
	S.E.	0	0	6	7	8	29	75	44	76	2340	42	769	2466
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	0	6	658	1950	85	396	148	651	964	4933	2405	12195
	S.E.	0	0	6	640	1719	77	389	43	362	649	4446	583	4917
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	0	0	0	0	255	2789	9011	926	351	3256	136	802	17525
	S.E.	0	0	0	0	102	1265	4809	383	245	2622	98	404	5657
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	0	0	0	6	2823	1003	3004	101	2378	938	55	37	10344
	S.E.	0	0	0	6	2471	770	1496	42	1315	487	51	29	3303
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	0	0	0	0	205	1046	2809	87	88	78	61	212	4585
	S.E.	0	0	0	0	111	783	1663	67	45	69	42	171	1853
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	0	0	13	673	5246	4958	15298	1357	3566	9882	5275	4544	50812
	S.E.	0	0	8	640	3014	1677	5319	396	1388	3607	4447	1061	8752
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-44
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY		BLUEBACK HERRING				YEARLING							
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-44 (CONTINUED).

BLUEBACK HERRING YEARLING

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	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	16	0	16
	S.E.	0	0	0	0	N	0	0	0	0	16	0	16
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	16	0	16
	S.E.	0	0	0	0	N	0	0	0	0	16	0	16
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-44 (CONTINUED).

BLUEBACK HERRING YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	0	0	0	N	15	0	15	N	0	0	0
	S.E.	N	0	0	0	N	15	0	15	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	15	0	15	N	0	0	0
	S.E.	N	0	0	0	N	15	0	15	N	0	0	0
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-44 (CONTINUED).

WEEK BEGINNING MONDAY		BLUEBACK HERRING				YEARLING			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	12	0	12	N	0	0	0
	S.E.	N	12	0	12	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	0	0	0	N	12	0	12
	S.E.	N	0	0	0	N	12	0	12
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	12	0	12	N	0	0	0
	S.E.	N	12	0	12	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	24	0	24	N	12	0	12
	S.E.	N	17	0	17	N	12	0	12
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-44 (CONTINUED).

BLUEBACK HERRING

YEARLING

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	N	0	0	12	0	12
	S.E.	N	0	N	0	0	12	0	12
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	0	12	0	12
	S.E.	N	0	N	0	0	12	0	12
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	0	28	0	28
	S.E.	N	0	N	0	0	20	0	20
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	0	N	0	0	15	0	15
	S.E.	N	0	N	0	0	15	0	15
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	0	68	0	68
	S.E.	N	0	N	0	0	31	0	31
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-45
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
110CT82	ST. CROP	0	0	0	0	0	0	1	0	0	0	0	0	1
	S.E.	0	0	0	0	0	0	1	0	0	0	0	0	1
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	0	0	0	0	0	0	1	0	0	0	0	0	1
	S.E.	0	0	0	0	0	0	1	0	0	0	0	0	1
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-46
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
	S.E.	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
	S.E.	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-47
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

ALEWIFE

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	ST. CROP	0	N	0	0	9	0	0	9	0	0	0	0
	S.E.	0	N	0	0	9	0	0	9	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	119	119	0	0	0	0	0	0	0	0
	S.E.	0	N	119	119	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	119	119	9	0	0	9	0	0	0	0
	S.E.	0	N	119	119	9	0	0	9	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).

ALEWIFE 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	ST. CROP	20	0	0	20	N	0	0	0	42	37	0	79
	S.E.	15	0	0	15	N	0	0	0	18	23	0	29
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	10	0	0	10	N	0	0	0	8	0	0	8
	S.E.	6	0	0	6	N	0	0	0	5	0	0	5
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	12	0	0	12	N	0	0	0	8	0	0	8
	S.E.	12	0	0	12	N	0	0	0	5	0	0	5
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	31	0	56	87
	S.E.	0	0	0	0	N	0	0	0	10	0	56	57
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	6	0	0	6	N	14	0	14	12	37	0	48
	S.E.	6	0	0	6	N	14	0	14	12	23	0	25
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	47	0	0	47	N	14	0	14	101	74	56	231
	S.E.	21	0	0	21	N	14	0	14	24	32	56	69
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).

ALEWIFE YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	184	0	184	N	259	80	339	N	230	107	337
	S.E.	N	104	0	104	N	100	80	128	N	98	69	119
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	192	0	192	N	757	547	1305
	S.E.	N	0	0	0	N	96	0	96	N	119	399	417
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	67	491	558	N	432	31	463
	S.E.	N	0	0	0	N	67	174	186	N	201	31	203
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	207	0	207	N	445	68	513	N	277	68	346
	S.E.	N	133	0	133	N	356	68	363	N	72	68	99
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	ST. CROP	N	0	0	0	N	0	0	0	N	91	0	91
	S.E.	N	0	0	0	N	0	0	0	N	66	0	66
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	390	0	390	N	963	639	1602	N	1788	754	2542
	S.E.	N	169	0	169	N	388	203	438	N	271	412	494
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE YOUNG-OF-THE-YEAR							
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	288	0	288	N	81	0	81
	S.E.	N	116	0	116	N	38	0	38
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	265	84	349	N	361	61	422
	S.E.	N	120	84	147	N	143	61	156
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	43	0	43	N	0	0	0
	S.E.	N	32	0	32	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	217	146	363	N	145	61	206
	S.E.	N	82	103	132	N	58	61	84
	NO. TOWS	N	12	6	18	N	15	6	21
040CT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	813	231	1043	N	587	122	709
	S.E.	N	188	133	231	N	159	86	181
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	240	N	240	72	1319	187	1578
	S.E.	N	141	N	141	25	257	106	279
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	63	N	63	17	1638	812	2467
	S.E.	N	31	N	31	8	244	430	494
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	22	N	22	20	564	523	1106
	S.E.	N	22	N	22	13	215	176	278
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	300	N	300	31	1591	399	2021
	S.E.	N	158	N	158	10	430	163	460
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	ST. CROP	N	40	N	40	17	182	0	199
	S.E.	N	26	N	26	13	76	0	77
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	665	N	665	158	5294	1921	7373
	S.E.	N	217	N	217	33	602	504	785
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-48
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

ALEWIFE YOUNG-OF-YEAR

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	ST. CROP	0	4	2	26	9	14	0	2	3	12	0	0	72
	S.E.	0	3	2	11	9	9	0	1	3	6	0	0	18
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	13	29	44	17	110	10	1	17	29	2	0	273
	S.E.	0	8	19	24	9	98	5	1	9	29	2	0	108
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	0	23	10	4	31	18	0	1	0	4	4	0	93
	S.E.	0	18	10	4	15	18	0	1	0	4	4	0	32
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	0	0	10	2	12	11	3	0	3	0	0	0	40
	S.E.	0	0	10	2	7	11	2	0	2	0	0	0	16
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	2	6	2	0	6	41	4	0	0	0	45	0	105
	S.E.	2	4	2	0	6	35	3	0	0	0	30	0	47
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	2	45	52	76	74	193	17	4	24	45	51	0	583
	S.E.	2	20	24	27	22	106	6	1	10	30	31	0	124
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-49
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	10	N	0	10	0	0	0	0	0	0	0	0
	S.E.	10	N	0	10	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	0	N	109	109	0	0	0	0	0	0	0	0
	S.E.	0	N	109	109	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	10	N	109	119	0	0	0	0	0	0	0	0
	S.E.	10	N	109	109	0	0	0	0	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-49 (CONTINUED).

ALEWIFE

YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT					WEST POINT					CORNWALL		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	0	0	0	0	N	0	166	166	0	0	0	0
	S.E.	0	0	0	0	N	0	166	166	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	16	0	16
	S.E.	0	0	0	0	N	0	0	0	0	16	0	16
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	17	0	17	N	0	0	0	3	16	0	19
	S.E.	0	17	0	17	N	0	0	0	3	16	0	16
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	0	0	0	N	0	0	0	27	75	0	102
	S.E.	0	0	0	0	N	0	0	0	19	75	0	77
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	17	0	17	N	0	166	166	30	107	0	137
	S.E.	0	17	0	17	N	0	166	166	19	79	0	81
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TAB'E B-49 (CONTINUED).

ALEWIFE YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE S	B	C	R	HYDE PARK S	B	C	R	KINGSTON S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	23	53	76
	S.E.	N	0	0	0	N	0	0	0	N	15	53	55
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	13	0	13
	S.E.	N	0	0	0	N	0	0	0	N	13	0	13
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	27	0	27	N	0	0	0	N	0	0	0
	S.E.	N	27	0	27	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	ST. CROP	N	65	0	65	N	0	0	0	N	0	0	0
	S.E.	N	65	0	65	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	92	0	92	N	0	0	0	N	36	53	89
	S.E.	N	70	0	70	N	0	0	0	N	20	53	57
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-49 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE				YEARLING			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	37	0	37	N	0	0	0
	S.E.	N	27	0	27	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	ST. CROP	N	12	0	12	N	0	0	0
	S.E.	N	12	0	12	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	49	0	49	N	0	0	0
	S.E.	N	29	0	29	N	0	0	0
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-49 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE ALBANY S	B	C	R	YEARLING COMBINED S	B	C	R
09AUG82	ST. CROP	N	0	N	0	0	60	219	279
	S.E.	N	0	N	0	0	31	174	177
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	0	13	0	13
	S.E.	N	0	N	0	0	13	0	13
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	0	16	0	16
	S.E.	N	0	N	0	0	16	0	16
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	14	59	0	73
	S.E.	N	0	N	0	11	35	0	37
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	ST. CROP	N	0	N	0	27	153	109	288
	S.E.	N	0	N	0	19	100	109	149
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	40	301	327	669
	S.E.	N	0	N	0	22	113	205	235
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-50
STANDING CROP (IN THOUSANDS) 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	ST. CROP	2	2	0	0	0	0	0	0	0	0	0	0	3
	S.E.	2	2	0	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
	S.E.	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	2	4	0	0	0	0	0	0	0	0	0	0	5
	S.E.	2	3	0	0	0	0	0	0	0	0	0	0	3
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-51
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

BAY ANCHOVY — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	9352	N	164091	173443	63885	29141	123019	216044	45773	35782	30509	112063
	S.E.	2291	N	35625	35699	6342	8520	55936	56936	4542	5261	8644	11092
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	42456	N	79402	121858	147195	36990	79844	264029	78872	58660	63917	201449
	S.E.	6344	N	21680	22590	13373	7955	15569	22012	14416	5881	16516	22697
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	30049	N	109467	139516	143911	298713	85985	528608	65072	85031	97027	247130
	S.E.	7713	N	21505	22846	17758	72539	17180	76632	8224	9658	82135	83109
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	26092	N	108271	134363	121085	124788	75199	321071	164006	91940	20572	276518
	S.E.	7753	N	32663	33570	9160	38836	13735	42200	22570	28933	4681	36992
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	3718	N	49795	53514	48169	55689	25413	129272	16412	48605	20104	85121
	S.E.	720	N	6621	6660	4496	15755	4857	17089	2212	9311	3111	10063
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	111667	N	511026	622693	524245	545321	389459	1459025	370134	320019	232128	922282
	S.E.	12869	N	57553	58974	25269	84583	62279	108035	28467	32853	84411	94947
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-51 (CONTINUED).

BAY ANCHOVY

YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	4016	3379	68270	75665	N	1496	16011	17507	437	1894	22672	25003
	S.E.	3499	1474	17739	18141	N	482	1316	1401	165	325	4567	4582
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	2976	2684	82471	88131	N	2003	8763	10766	8	4393	34874	39275
	S.E.	1261	1362	38971	39016	N	746	1923	2063	5	3139	28183	28357
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	3786	11050	57358	72195	N	1616	7953	9569	3946	8732	23148	35826
	S.E.	828	4385	37463	37728	N	794	4343	4415	2139	2876	20018	20336
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	3830	11495	25042	40366	N	8236	7213	15449	5457	13992	24748	44197
	S.E.	995	3437	11416	11963	N	1770	5150	5446	1357	3748	16109	16595
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	2538	19528	14155	36221	N	7600	16471	24071	1257	6574	10057	17888
	S.E.	111	5719	6421	8599	N	1087	8852	8918	349	1396	5760	5937
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	17146	48136	247295	312577	N	20951	56410	77361	11103	35585	115500	162188
	S.E.	3940	8233	58382	59091	N	2394	11365	11615	2563	5850	38840	39361
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-51 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE			HYDE PARK			KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	817	11363	12180	N	107	138	246	N	171	90	261
	S.E.	N	511	11363	11374	N	75	138	157	N	69	62	93
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	326	10342	10668	N	262	1114	1376	N	630	1425	2056
	S.E.	N	218	9264	9266	N	55	379	383	N	190	615	644
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	14108	4484	18592	N	232	2299	2530	N	213	2307	2520
	S.E.	N	12887	1428	12966	N	61	1114	1116	N	102	873	879
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	1068	6370	7438	N	358	3347	3705	N	21	400	421
	S.E.	N	452	2967	3001	N	63	961	963	N	14	126	126
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	5540	69108	74648	N	203	239	442	N	54	137	191
	S.E.	N	1595	26081	26129	N	84	239	253	N	29	137	140
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	21858	101667	123525	N	1163	7136	8298	N	1089	4360	5449
	S.E.	N	13005	30099	32789	N	153	1544	1551	N	229	1085	1109
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-51 (CONTINUED).

BAY ANCHOVY — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
09AUG82	ST. CROP	N	0	40	40	N	79	0	79
	S.E.	N	0	40	40	N	37	0	37
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	198	1049	1247	N	139	0	139
	S.E.	N	56	908	910	N	57	0	57
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	53	0	53	N	12	0	12
	S.E.	N	42	0	42	N	12	0	12
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	15	0	15
	S.E.	N	0	0	0	N	15	0	15
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	ST. CROP	N	22	0	22	N	0	0	0
	S.E.	N	22	0	22	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	273	1089	1362	N	245	0	245
	S.E.	N	73	909	912	N	71	0	71
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-51 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
09AUG82	ST. CROP	N	0	N	0	123462	72867	436201	632530
	S.E.	N	0	N	0	8852	10152	70279	71558
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	39	N	39	271507	106324	363201	741032
	S.E.	N	25	N	25	20700	10499	58216	62672
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	246763	419760	390027	1056551
	S.E.	N	0	N	0	21160	74495	96597	123807
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	65	N	65	320469	251978	271161	843608
	S.E.	N	32	N	32	25617	48729	41274	68806
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	0	N	0	72094	143815	205480	421388
	S.E.	N	0	N	0	5075	19321	30169	36183
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	103	N	103	1034295	994744	1666071	3695110
	S.E.	N	41	N	41	40455	92253	142382	174413
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-52
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

BAY ANCHOVY YOUNG-OF-YEAR

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	ST. CROP	39	638	4	260	0	0	0	0	0	0	0	0	941
	S.E.	32	456	4	255	0	0	0	0	0	0	0	0	524
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	89	9880	0	149	0	0	0	0	0	0	0	0	10118
	S.E.	57	8621	0	149	0	0	0	0	0	0	0	0	8622
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	758	174	0	347	24	0	0	0	0	0	0	0	1302
	S.E.	652	114	0	212	17	0	0	0	0	0	0	0	696
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	71	182	61	0	0	0	312	0	0	0	0	0	626
	S.E.	53	139	57	0	0	0	312	0	0	0	0	0	350
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	130	81	242	155	9	2	95	0	0	0	0	0	714
	S.E.	87	33	170	101	9	2	92	0	0	0	0	0	237
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	1086	10956	307	910	33	2	407	0	0	0	0	0	13701
	S.E.	664	8635	179	378	19	2	325	0	0	0	0	0	8677
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-53
COMBINED STANDING CROP (IN THOUSANDS) OF JUVENILES
IN HUDSON RIVER ESTUARY,
DETERMINED BY THE BEACH SEINE AND FALL SHOALS SURVEYS.
BAY ANCHOVY YOUNG-OF-THE-YEAR
AUG 16 - AUG 22

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	39	19428 *	57749 *	86130 *	163345
	SE	32	3238 *	9625 *	20270 *	22672
TAPPAN ZEE	ST. CROP	638	79155 *	33065 *	101431 *	214290
	SE	456	7393 *	8238 *	35753 *	37430
CROTON-HAVERSTRAW	ST. CROP	4	46742 *	47221 *	47213 *	141179
	SE	4	7109 *	5571 *	12580 *	15486
INDIAN POINT	ST. CROP	260	2622 *	3032 *	75370 *	81284
	SE	255	1785 *	1418 *	28355 *	28448
WEST POINT	ST. CROP	0	119 *	1591 *	12387 *	14097
	SE	0	42 *	558 *	1620 *	1714
CORNWALL	ST. CROP	0	167 *	3144 *	28773 *	32083
	SE	0	63 *	1732 *	16375 *	16467
POUGHKEEPSIE	ST. CROP	0	37 *	522 *	10852 *	11411
	SE	0	24 *	333 *	10313 *	10319
HYDE PARK	ST. CROP	0	9 *	172 *	626 *	808
	SE	0	3 *	61 *	258 *	265
KINGSTON	ST. CROP	0	77 *	297 *	758 *	1132
	SE	0	25 *	96 *	339 *	353
SAUGERTIES	ST. CROP	0	24 *	67 *	545 *	636
	SE	0	7 *	19 *	474 *	474
CATSKILL	ST. CROP	0	37 *	60 *	0 *	97
	SE	0	16 *	26 *	0 *	30
ALBANY	ST. CROP	0	5 *	4 *	9 *	18
	SE	0	3 *	2 *	6 *	7
STRATUM TOTAL	ST. CROP	941	148422 *	146924 *	364093 *	660380
	SE	524	10903 *	14035 *	55036 *	57837

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #
ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #
ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

BAY ANCHOVY

TABLE B-53 (CONTINUED).
YOUNG-OF-THE-YEAR
AUG 23 - AUG 29

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	39	31842	94648 *	56173	182702
	SE	32	4758	14143 *	15338	21399
TAPPAN ZEE	ST. CROP	638	110397	36990	79844	227868
	SE	456	10030	7955	15569	20161
CROTON-HAVERSTRAW	ST. CROP	4	59154	58660	63917	181735
	SE	4	10812	5881	16516	20597
INDIAN POINT	ST. CROP	260	2232	2684	82471	87647
	SE	255	945	1362	38971	39008
WEST POINT	ST. CROP	0	137 *	1821	8763	10720
	SE	0	51 *	678	1923	2040
CORNWALL	ST. CROP	0	6	4393	34874	39273
	SE	0	4	3139	28183	28357
POUGHKEEPSIE	ST. CROP	0	21 *	297	10342	10661
	SE	0	14 *	199	9264	9266
HYDE PARK	ST. CROP	0	13 *	245	1114	1372
	SE	0	3 *	51	379	382
KINGSTON	ST. CROP	0	122 *	468	1425	2015
	SE	0	37 *	141	615	632
SAUGERTIES	ST. CROP	0	48 *	134	1049	1232
	SE	0	14 *	38	908	909
CATSKILL	ST. CROP	0	47 *	76	0	123
	SE	0	19 *	31	0	37
ALBANY	ST. CROP	0	10 *	7	17 *	35
	SE	0	7 *	5	11 *	14
STRATUM TOTAL	ST. CROP	941	204028 *	200425	339989 *	745383
	SE	524	15525 *	17611	56163 *	60875

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #
ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #
ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-53 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

AUG 30 - SEP 5

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	89	27189 *	80818 *	66808 *	174904
	SE	57	5271 *	15669 *	15276 *	22509
TAPPAN ZEE	ST. CROP	9880	109165 *	167851 *	82914 *	369811
	SE	8621	11674 *	40247 *	16375 *	45810
CROTON-HAVERSTRAW	ST. CROP	0	53979 *	71846 *	80472 *	206297
	SE	0	8490 *	7769 *	49325 *	50650
INDIAN POINT	ST. CROP	149	2536 *	6867 *	69914 *	79467
	SE	149	783 *	2874 *	38217 *	38333
WEST POINT	ST. CROP	0	123 *	1645 *	8358 *	10126
	SE	0	52 *	700 *	3133 *	3211
CORNWALL	ST. CROP	0	1483 *	6562 *	29011 *	37056
	SE	0	804 *	3007 *	24100 *	24301
POUGHKEEPSIE	ST. CROP	0	469 *	6591 *	7413 *	14473
	SE	0	426 *	5984 *	5346 *	8036
HYDE PARK	ST. CROP	0	12 *	230 *	1706 *	1949
	SE	0	3 *	54 *	746 *	748
KINGSTON	ST. CROP	0	81 *	313 *	1866 *	2261
	SE	0	28 *	109 *	744 *	752
SAUGERTIES	ST. CROP	0	30 *	85 *	525 *	640
	SE	0	12 *	33 *	454 *	455
CATSKILL	ST. CROP	0	25 *	42 *	0 *	67
	SE	0	12 *	19 *	0 *	22
ALBANY	ST. CROP	0	5 *	4 *	9 *	18
	SE	0	3 *	2 *	6 *	7
STRATUM TOTAL	ST. CROP	10118	195099 *	342855 *	348996 *	897068
	SE	8622	15414 *	44490 *	70821 *	85480

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-53 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

SEP 6 - SEP 12

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	89	22536	66988 *	77442	167056
	SE	57	5785	17194 *	15213	23676
TAPPAN ZEE	ST. CROP	9880	107933	298713	85985	502511
	SE	8621	13318	72539	17180	76215
CROTON-HAVERSTRAW	ST. CROP	0	48804	85031	97027	230862
	SE	0	6168	9658	82135	82931
INDIAN POINT	ST. CROP	149	2840	11050	57358	71398
	SE	149	621	4385	37463	37724
WEST POINT	ST. CROP	0	110 *	1469	7953	9532
	SE	0	54 *	722	4343	4403
CORNWALL	ST. CROP	0	2959	8732	23148	34839
	SE	0	1604	2876	20018	20287
POUGHKEEPSIE	ST. CROP	0	917 *	12884	4484	18286
	SE	0	838 *	11770	1428	11886
HYDE PARK	ST. CROP	0	12 *	216	2299	2527
	SE	0	3 *	57	1114	1116
KINGSTON	ST. CROP	0	41 *	159	2307	2507
	SE	0	20 *	76	873	876
SAUGERTIES	ST. CROP	0	13 *	36	0	49
	SE	0	10 *	28	0	30
CATSKILL	ST. CROP	0	4 *	7	0	11
	SE	0	4 *	7	0	8
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	10118	186170 *	485285	358003 *	1039576
	SE	8622	15892 *	76272	95393 *	123467

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-53 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

SEP 13 - SEP 19

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST.	758	21053 *	62578 *	77019 *	161407
	CROP	652	5800 *	17239 *	19160 *	26426
	SE					
TAPPAN ZEE	ST.	174	99373 *	211750 *	80592 *	391889
	CROP	114	10094 *	55688 *	15458 *	58668
	SE					
CROTON-HAVERSTRAW	ST.	0	85904 *	88486 *	58799 *	233189
	CROP	0	11548 *	19295 *	43408 *	48887
	SE					
INDIAN POINT	ST.	347	2856 *	11273 *	41200 *	55675
	CROP	212	683 *	3911 *	24440 *	24761
	SE					
WEST POINT	ST.	24	336 *	4478 *	7583 *	12421
	CROP	17	87 *	1165 *	4747 *	4888
	SE					
CORNWALL	ST.	0	3526 *	11362 *	23948 *	38836
	CROP	0	1311 *	3312 *	18063 *	18411
	SE					
POUGHKEEPSIE	ST.	0	493 *	6930 *	5427 *	12850
	CROP	0	434 *	6091 *	2198 *	6490
	SE					
HYDE PARK	ST.	0	15 *	275 *	2823 *	3113
	CROP	0	3 *	58 *	1037 *	1039
	SE					
KINGSTON	ST.	0	23 *	87 *	1353 *	1463
	CROP	0	11 *	43 *	499 *	501
	SE					
SAUGERTIES	ST.	0	6 *	18 *	0 *	24
	CROP	0	5 *	14 *	0 *	15
	SE					
CATSKILL	ST.	0	5 *	8 *	0 *	12
	CROP	0	5 *	8 *	0 *	9
	SE					
ALBANY	ST.	0	9 *	6 *	15 *	29
	CROP	0	4 *	3 *	7 *	9
	SE					
STRATUM TOTAL	ST.	1302	213599 *	397250 *	298759 *	910910
	CROP	696	16470 *	61930 *	58673 *	86889
	SE					

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

BAY ANCHOVY

TABLE B-53 (CONTINUED).
YOUNG-OF-THE-YEAR
SEP 20 - SEP 26

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	758	19569	58168 *	76596	155090
	SE	652	5815	17283 *	23107	29443
TAPPAN ZEE	ST. CROP	174	90814	124788	75199	290974
	SE	114	6870	38836	13735	41763
CROTON-HAVERSTRAW	ST. CROP	0	123004	91940	20572	235517
	SE	0	16928	28933	4681	33846
INDIAN POINT	ST. CROP	347	2872	11495	25042	39755
	SE	212	746	3437	11416	11947
WEST POINT	ST. CROP	24	562 *	7487	7213	15286
	SE	17	121 *	1609	5150	5397
CORNWALL	ST. CROP	0	4092	13992	24748	42833
	SE	0	1018	3748	16109	16570
POUGHKEEPSIE	ST. CROP	0	69 *	975	6370	7415
	SE	0	29 *	413	2967	2996
HYDE PARK	ST. CROP	0	18 *	334	3347	3699
	SE	0	3 *	58	961	962
KINGSTON	ST. CROP	0	4 *	16	400	420
	SE	0	3 *	10	126	126
SAUGERTIES	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
CATSKILL	ST. CROP	0	5 *	8	0	13
	SE	0	5 *	8	0	10
ALBANY	ST. CROP	0	17 *	12	29 *	59
	SE	0	9 *	6	14 *	18
STRATUM TOTAL	ST. CROP	1302	241027 *	309215	239516 *	791060
	SE	696	19213 *	51698	34214 *	64907

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #
ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #
ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-53 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

SEP 27 - OCT 3

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	71	11179 *	33229 *	55912 *	100390
	SE	53	3177 *	9444 *	13896 *	17099
TAPPAN ZEE	ST. CROP	182	63470 *	90239 *	50306 *	204197
	SE	139	5121 *	27295 *	9296 *	29287
CROTON-HAVERSTRAW	ST. CROP	61	67657 *	70273 *	20338 *	158329
	SE	57	9293 *	19122 *	3896 *	21615
INDIAN POINT	ST. CROP	0	2388 *	15511 *	19598 *	37498
	SE	0	415 *	4578 *	8918 *	10033
WEST POINT	ST. CROP	0	540 *	7198 *	11842 *	19580
	SE	0	97 *	1298 *	7001 *	7121
CORNWALL	ST. CROP	0	2517 *	10283 *	17403 *	30203
	SE	0	640 *	2572 *	10934 *	11251
POUGHKEEPSIE	ST. CROP	312	215 *	3018 *	37739 *	41284
	SE	312	67 *	935 *	14524 *	14557
HYDE PARK	ST. CROP	0	14 *	262 *	1793 *	2069
	SE	0	4 *	68 *	600 *	604
KINGSTON	ST. CROP	0	7 *	28 *	269 *	304
	SE	0	4 *	16 *	131 *	133
SAUGERTIES	ST. CROP	0	3 *	7 *	0 *	10
	SE	0	3 *	7 *	0 *	8
CATSKILL	ST. CROP	0	3 *	4 *	0 *	7
	SE	0	3 *	4 *	0 *	5
ALBANY	ST. CROP	0	9 *	6 *	15 *	29
	SE	0	4 *	3 *	7 *	9
STRATUM TOTAL	ST. CROP	626	148001 *	230057 *	215214 *	593898
	SE	351	11103 *	35071 *	27461 *	45908

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-53 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

OCT 4 - OCT 10

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	71	2789	8290 *	35228	46377
	SE	53	540	1604 *	4684	4981
TAPPAN ZEE	ST. CROP	182	36127	55689	25413	117411
	SE	139	3372	15755	4857	16828
CROTON-HAVERSTRAW	ST. CROP	61	12309	48605	20104	81080
	SE	57	1659	9311	3111	9956
INDIAN POINT	ST. CROP	0	1903	19528	14155	35586
	SE	0	83	5719	6421	8599
WEST POINT	ST. CROP	0	518 *	6909	16471	23898
	SE	0	74 *	988	8852	8907
CORNWALL	ST. CROP	0	942	6574	10057	17574
	SE	0	262	1396	5760	5932
POUGHKEEPSIE	ST. CROP	312	360 *	5060	69108	74840
	SE	312	104 *	1457	26081	26123
HYDE PARK	ST. CROP	0	10 *	189	239	438
	SE	0	4 *	78	239	251
KINGSTON	ST. CROP	0	10 *	40	137	188
	SE	0	6 *	22	137	139
SAUGERTIES	ST. CROP	0	5 *	15	0	20
	SE	0	5 *	15	0	16
CATSKILL	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	626	54975 *	150899	190912 *	397412
	SE	351	3809 *	19371	29803 *	35751

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE
N--NO SAMPLE TAKEN
#--STD ERROR COULD NOT BE CALCULATED

TABLE B-53 (CONTINUED).

BAY ANCHOVY — YOUNG-OF-THE-YEAR

OCT 11 - OCT 17

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	130	2789 *	8290 *	35228 *	46435
	SE	87	540 *	1604 *	4684 *	4981
TAPPAN ZEE	ST. CROP	81	36127 *	55689 *	25413 *	117311
	SE	33	3372 *	15755 *	4857 *	16828
CROTON-HAVERSTRAW	ST. CROP	242	12309 *	48605 *	20104 *	81260
	SE	170	1659 *	9311 *	3111 *	9958
INDIAN POINT	ST. CROP	155	1903 *	19528 *	14155 *	35741
	SE	101	83 *	5719 *	6421 *	8599
WEST POINT	ST. CROP	9	518 *	6909 *	16471 *	23907
	SE	9	74 *	988 *	8852 *	8907
CORNWALL	ST. CROP	2	942 *	6574 *	10057 *	17575
	SE	2	262 *	1396 *	5760 *	5932
POUGHKEEPSIE	ST. CROP	95	360 *	5060 *	69108 *	74623
	SE	92	104 *	1457 *	26081 *	26122
HYDE PARK	ST. CROP	0	10 *	189 *	239 *	438
	SE	0	4 *	78 *	239 *	251
KINGSTON	ST. CROP	0	10 *	40 *	137 *	188
	SE	0	6 *	22 *	137 *	139
SAUGERTIES	ST. CROP	0	5 *	15 *	0 *	20
	SE	0	5 *	15 *	0 *	16
CATSKILL	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	714	54975 *	150899 *	190912 *	397499
	SE	237	3809 *	19371 *	29803 *	35750

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # VAR(STDR) #

ADJUSTED BEACH SEINE EFFICIENCY = STDE= # VAR(STDE) #

ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-54
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

BAY ANCHOVY — YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	873	N	1877	2750	6547	249	1023	7818	2762	713	299	3774
	S.E.	249	N	201	320	809	114	345	887	381	241	299	541
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	696	N	839	1535	4995	781	1681	7457	1044	1569	52	2665
	S.E.	94	N	233	252	711	188	824	1104	341	256	52	430
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	947	N	242	1189	2757	877	1527	5161	518	915	0	1433
	S.E.	403	N	149	430	369	219	343	549	86	143	0	167
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	728	N	0	728	830	995	113	1939	477	619	37	1132
	S.E.	384	N	0	384	145	215	113	283	120	141	37	188
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	ST. CROP	78	N	600	678	295	181	87	563	74	11	0	86
	S.E.	43	N	278	281	59	70	87	126	27	11	0	29
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	3322	N	3559	6880	15424	3083	4431	22938	4875	3827	388	9090
	S.E.	619	N	441	760	1150	384	967	1551	533	406	306	736
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

BAY ANCHOVY YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	459	963	10605	12027	N	748	10728	11476	1937	2588	1654	6178
	S.E.	125	267	4237	4248	N	121	4940	4941	1018	391	1329	1719
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	144	434	550	1128	N	627	4593	5220	7	1714	14768	16489
	S.E.	33	203	550	588	N	251	2861	2871	5	956	8961	9012
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	260	653	397	1310	N	256	343	600	3138	1294	480	4912
	S.E.	96	321	397	520	N	74	343	351	717	430	278	881
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	55	381	0	436	N	160	584	744	763	887	2193	3843
	S.E.	30	98	0	103	N	61	293	300	207	404	1072	1164
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	11	28	0	39	N	287	560	847	252	224	238	715
	S.E.	11	17	0	21	N	61	280	287	156	97	133	227
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	929	2459	11553	14941	N	2077	16809	18886	6098	6707	19334	32138
	S.E.	164	475	4291	4321	N	301	5733	5741	1271	1194	9127	9293
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

BAY ANCHOVY YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	3966	666	4632	N	235	419	653	N	25	0	25
	S.E.	N	1201	147	1210	N	96	316	330	N	25	0	25
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	850	166	1016	N	49	202	251	N	68	73	141
	S.E.	N	775	166	792	N	26	202	204	N	34	47	58
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	818	870	1688	N	44	244	288	N	26	74	100
	S.E.	N	694	482	845	N	31	168	171	N	17	48	51
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	460	159	619	N	124	209	333	N	23	300	323
	S.E.	N	286	159	327	N	62	132	145	N	15	133	134
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	851	0	851	N	16	0	16	N	0	41	41
	S.E.	N	594	0	594	N	16	0	16	N	0	41	41
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	6946	1861	8807	N	468	1073	1541	N	141	489	630
	S.E.	N	1720	554	1807	N	122	431	448	N	47	155	162
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

BAY ANCHOVY — YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	13	0	13	N	0	0	0
	S.E.	N	13	0	13	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	13	0	13	N	0	0	0
	S.E.	N	13	0	13	N	0	0	0
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

BAY ANCHOVY YEARLING

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	N	0	12578	9485	27271	49333
	S.E.	N	0	N	0	1384	1327	6670	6941
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	6886	6105	22925	35916
	S.E.	N	0	N	0	795	1312	9465	9589
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	7620	4883	4178	16681
	S.E.	N	0	N	0	911	920	869	1559
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	2853	3649	3596	10098
	S.E.	N	0	N	0	476	573	1144	1366
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	ST. CROP	N	0	N	0	711	1598	1526	3835
	S.E.	N	0	N	0	175	609	427	764
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	30647	25720	59496	115863
	S.E.	N	0	N	0	1906	2242	11676	12041
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-55
STANDING CROP (IN THOUSANDS) 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	ST. CROP	6	9	6	109	0	0	0	0	0	0	0	0	130
	S.E.	4	6	6	109	0	0	0	0	0	0	0	0	109
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	3	13	0	6	0	0	0	0	0	0	0	0	22
	S.E.	2	8	0	6	0	0	0	0	0	0	0	0	10
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	12	30	0	2	0	0	0	0	0	0	0	0	44
	S.E.	10	27	0	2	0	0	0	0	0	0	0	0	29
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	11	55	0	0	0	0	0	0	0	0	0	0	65
	S.E.	7	29	0	0	0	0	0	0	0	0	0	0	30
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	62	2	0	0	0	0	0	0	0	0	0	0	64
	S.E.	44	2	0	0	0	0	0	0	0	0	0	0	44
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	93	110	6	116	0	0	0	0	0	0	0	0	325
	S.E.	46	41	6	109	0	0	0	0	0	0	0	0	125
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-56
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	117	0	0	117	0	0	0	0
	S.E.	0	N	0	0	117	0	0	117	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	0	0	117	0	0	117	0	0	0	0
	S.E.	0	N	0	0	117	0	0	117	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

BAY ANCHOVY

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	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-56 (CONTINUED).

BAY ANCHOVY OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	0	0	0	N	26	0	26	N	0	0	0
	S.E.	N	0	0	0	N	26	0	26	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	26	0	26	N	0	0	0
	S.E.	N	0	0	0	N	26	0	26	N	0	0	0
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-56 (CONTINUED).

WEEK BEGINNING MONDAY		BAY ANCHOVY				OLDER			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-56 (CONTINUED).

BAY ANCHOVY — OLDER

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
09AUG82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	117	0	0	117
	S.E.	N	0	N	0	117	0	0	117
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	0	26	0	26
	S.E.	N	0	N	0	0	26	0	26
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	117	26	0	142
	S.E.	N	0	N	0	117	26	0	119
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-57
STANDING CROP (IN THOUSANDS) 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	ST. CROP	1741	N	4547	6289	1892	536	1998	4426	506	718	513	1737
	S.E.	499	N	1204	1303	347	331	848	974	121	278	267	404
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	405	N	734	1140	430	370	275	1076	25	263	212	500
	S.E.	96	N	357	370	91	104	115	181	14	58	142	154
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	701	N	115	816	807	547	366	1720	30	284	0	314
	S.E.	363	N	115	381	203	153	154	297	21	97	0	100
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	522	N	0	522	33	185	44	262	0	174	0	174
	S.E.	258	N	0	258	24	62	44	80	0	47	0	47
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	30	N	0	30	44	25	44	113	0	0	0	0
	S.E.	14	N	0	14	21	25	44	55	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	3400	N	5397	8797	3206	1663	2727	7596	561	1439	725	2725
	S.E.	676	N	1261	1430	414	385	872	1039	124	304	302	446
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-57 (CONTINUED).

WEAKFISH 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	ST. CROP	343	1928	7010	9281	N	804	5986	6789	0	0	0	0
	S.E.	73	464	3448	3480	N	330	2792	2812	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	23	297	440	761	N	0	0	0	0	0	0	0
	S.E.	9	194	440	481	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	79	692	1147	1918	N	134	701	835	0	18	0	18
	S.E.	37	293	784	838	N	42	701	702	0	18	0	18
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	62	0	62	N	41	0	41	30	16	0	47
	S.E.	0	16	0	16	N	28	0	28	26	16	0	31
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	5	67	0	72	N	77	0	77	15	61	0	76
	S.E.	5	50	0	51	N	60	0	60	15	25	0	29
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	450	3046	8598	12093	N	1055	6686	7741	46	95	0	141
	S.E.	83	584	3563	3612	N	339	2879	2899	30	35	0	46
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-57 (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	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-57 (CONTINUED).

WEEK BEGINNING MONDAY		WEAKFISH				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-57 (CONTINUED).

WEEK BEGINNING MONDAY		WEAKFISH ALBANY S	WEAKFISH ALBANY B	WEAKFISH ALBANY C	WEAKFISH ALBANY R	YOUNG-OF-THE-YEAR COMBINED S	YOUNG-OF-THE-YEAR COMBINED B	YOUNG-OF-THE-YEAR COMBINED C	YOUNG-OF-THE-YEAR COMBINED R
09AUG82	ST. CROP	N	0	N	0	4482	3986	20054	28521
	S.E.	N	0	N	0	624	714	4682	4778
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	884	931	1662	3477
	S.E.	N	0	N	0	133	228	596	652
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	1617	1675	2329	5621
	S.E.	N	0	N	0	418	347	1069	1199
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	586	478	44	1108
	S.E.	N	0	N	0	261	86	44	278
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	0	N	0	93	229	44	366
	S.E.	N	0	N	0	30	86	44	101
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	7662	7299	24132	39093
	S.E.	N	0	N	0	807	835	4840	4978
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-58
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

WEAKFISH YOUNG-OF-YEAR

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	ST. CROP	14	0	0	0	0	0	0	0	0	0	0	0	14
	S.E.	9	0	0	0	0	0	0	0	0	0	0	0	9
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	5	0	0	0	0	0	0	0	0	0	0	0	5
	S.E.	5	0	0	0	0	0	0	0	0	0	0	0	5
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	6	0	0	0	0	0	0	0	0	0	0	0	6
	S.E.	4	0	0	0	0	0	0	0	0	0	0	0	4
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
	S.E.	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	3	0	0	0	0	0	0	0	0	0	0	0	3
	S.E.	2	0	0	0	0	0	0	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	27	2	0	0	0	0	0	0	0	0	0	0	29
	S.E.	11	2	0	0	0	0	0	0	0	0	0	0	11
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-59
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	ST. CROP	0	N	0	0	0	0	0	0	0	17	0	17
	S.E.	0	N	0	0	0	0	0	0	0	17	0	17
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	17	0	17
	S.E.	0	N	0	0	0	0	0	0	0	17	0	17
	NO. TOWS	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-59 (CONTINUED).

WHITE CATFISH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	S	WEST POINT B	C	R	S	CORNWALL B	C	R
10MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-59 (CONTINUED).

WHITE CATFISH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	9	10	19	N	9	11	20	N	6	7	13
17MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	9	11	20	N	6	7	13
24MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
31MAY82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
07JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
14JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	13	20	N	5	11	16	N	4	7	11
21JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	8	13	N	4	7	11
28JUN82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
05JUL82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-59 (CONTINUED).

WHITE CATFISH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
10MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
31MAY82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
07JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
14JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	1	5	N	3	3	6
21JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
28JUN82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
05JUL82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-59 (CONTINUED).

WHITE CATFISH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
10MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	65	108	194
17MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	108	195
24MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
31MAY82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
07JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
14JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
21JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
28JUN82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	108	186
05JUL82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	61	110	187
TOTAL	ST. CROP	N	0	N	0	0	17	0	17
	S.E.	N	0	N	0	0	17	0	17
	NO. TOWS	N	31	N	31	16	62	109	187
						0	17	0	17
						0	17	0	17
						163	582	949	1694

N -- STRATUM NOT SAMPLED

TABLE B-60
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE CATFISH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-60 (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	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-60 (CONTINUED).

WHITE CATFISH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	14	0	14	N	23	0	23
	S.E.	N	0	0	0	N	14	0	14	N	23	0	23
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	0	126	126	N	52	31	83
	S.E.	N	0	0	0	N	0	126	126	N	52	31	61
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	119	0	119	N	13	0	13	N	32	0	32
	S.E.	N	56	0	56	N	13	0	13	N	16	0	16
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	0	0	0	N	0	0	0	N	14	0	14
	S.E.	N	0	0	0	N	0	0	0	N	14	0	14
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	119	0	119	N	27	126	153	N	120	31	152
	S.E.	N	56	0	56	N	19	126	128	N	60	31	68
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-60 (CONTINUED).

WHITE CATFISH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES S	B	C	R	CATSKILL S	B	C	R
09AUG82	ST. CROP	N	26	0	26	N	112	0	112
	S.E.	N	18	0	18	N	28	0	28
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	22	0	22	N	183	0	183
	S.E.	N	15	0	15	N	62	0	62
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	68	0	68	N	333	0	333
	S.E.	N	32	0	32	N	103	0	103
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	47	0	47	N	83	31	114
	S.E.	N	20	0	20	N	27	31	41
	NO. TOWS	N	12	6	18	N	15	6	21
040CT82	ST. CROP	N	195	0	195	N	255	0	255
	S.E.	N	71	0	71	N	64	0	64
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	359	0	359	N	965	31	997
	S.E.	N	83	0	83	N	142	31	145
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-60 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	204	N	204	0	342	0	342
	S.E.	N	75	N	75	0	82	0	82
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	82	N	82	0	324	0	324
	S.E.	N	43	N	43	0	82	0	82
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	383	N	383	0	835	158	993
	S.E.	N	126	N	126	0	174	130	217
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	250	N	250	0	544	31	576
	S.E.	N	92	N	92	0	115	31	119
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	66	N	66	0	529	0	529
	S.E.	N	66	N	66	0	117	0	117
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	985	N	985	0	2575	189	2764
	S.E.	N	190	N	190	0	265	134	297
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-61
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WHITE CATFISH — YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-61 (CONTINUED).

WHITE CATFISH

YEARLING

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	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-61 (CONTINUED).

WHITE CATFISH YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-61 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH YEARLING							
		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-61 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH				YEARLING			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	29	N	29	0	29	0	29
	S.E.	N	29	N	29	0	29	0	29
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	29	N	29	0	29	0	29
	S.E.	N	29	N	29	0	29	0	29
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-62
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	N	0	0	0	22	0	22	0	0	0	0
	S.E.	0	N	0	0	0	22	0	22	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	0	0	0	22	0	22	0	0	0	0
	S.E.	0	N	0	0	0	22	0	22	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-62 (CONTINUED).

WHITE CATFISH 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	ST. CROP	15	0	0	15	N	0	0	0	0	0	0	0
	S.E.	15	0	0	15	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	ST. CROP	0	17	0	17	N	0	0	0	0	0	0	0
	S.E.	0	17	0	17	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	15	17	0	32	N	0	0	0	0	0	0	0
	S.E.	15	17	0	23	N	0	0	0	0	0	0	0
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-62 (CONTINUED).

WHITE CATFISH

OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	14	0	14	N	0	0	0
	S.E.	N	0	0	0	N	14	0	14	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	30	0	30	N	0	0	0	N	0	0	0
	S.E.	N	30	0	30	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	30	0	30	N	14	0	14	N	0	0	0
	S.E.	N	30	0	30	N	14	0	14	N	0	0	0
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-62 (CONTINUED).

WHITE CATFISH OLDER

WEEK BEGINNING MONDAY		SAUGERTIES S	B	C	R	CATSKILL S	B	C	R
09AUG82	ST. CROP	N	51	0	51	N	45	0	45
	S.E.	N	40	0	40	N	34	0	34
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	23	0	23	N	24	0	24
	S.E.	N	16	0	16	N	16	0	16
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	28	0	28
	S.E.	N	0	0	0	N	19	0	19
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	25	0	25	N	0	0	0
	S.E.	N	25	0	25	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
040CT82	ST. CROP	N	30	0	30	N	0	0	0
	S.E.	N	20	0	20	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	130	0	130	N	97	0	97
	S.E.	N	54	0	54	N	42	0	42
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-62 (CONTINUED).

WHITE CATFISH OLDER

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
09AUG82	ST. CROP	N	0	N	0	15	119	0	133
	S.E.	N	0	N	0	15	56	0	58
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	0	61	0	61
	S.E.	N	0	N	0	0	26	0	26
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	132	N	132	0	160	0	160
	S.E.	N	132	N	132	0	134	0	134
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	43	N	43	0	98	0	98
	S.E.	N	28	N	28	0	48	0	48
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	119	N	119	0	167	0	167
	S.E.	N	56	N	56	0	62	0	62
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	294	N	294	15	604	0	619
	S.E.	N	146	N	146	15	167	0	168
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-63
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	28	2	7	0	0	0	0	0	4	0	0	42
	S.E.	0	19	2	7	0	0	0	0	0	4	0	0	20
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	4	4	0	0	0	0	0	2	0	0	0	10
	S.E.	0	4	4	0	0	0	0	0	2	0	0	0	6
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	0	4	0	0	0	0	0	0	2	0	0	0	6
	S.E.	0	3	0	0	0	0	0	0	2	0	0	0	3
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	0	2	0	0	0	0	1	0	0	0	0	0	3
	S.E.	0	2	0	0	0	0	1	0	0	0	0	0	2
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	0	38	6	7	0	0	1	0	3	4	0	0	60
	S.E.	0	19	4	7	0	0	1	0	2	4	0	0	22
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-64
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

SPOTTAIL SHINER — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-64 (CONTINUED).

SPOTTAIL SHINER 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	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-64 (CONTINUED).

SPOTTAIL SHINER YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	11	0	11
	S.E.	N	0	0	0	N	0	0	0	N	11	0	11
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	11	0	11
	S.E.	N	0	0	0	N	0	0	0	N	11	0	11
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-64 (CONTINUED).

SPOTTAIL SHINER — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES S	B	C	R	CATSKILL S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
04OCT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-64 (CONTINUED).

WEEK BEGINNING MONDAY		SPOTTAIL SHINER				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	0	11	0	11
	S.E.	N	0	N	0	0	11	0	11
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	0	11	0	11
	S.E.	N	0	N	0	0	11	0	11
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-65
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

SPOTTAIL SHINER YOUNG-OF-YEAR

WEEK BEGINNING MONDAY		REGIONS												
		YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	ST. CROP	0	17	83	53	34	5	24	29	22	16	65	16	363
	S.E.	0	15	63	53	13	4	15	20	18	8	51	9	105
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	0	6	52	16	67	41	23	241	57	10	214	727
	S.E.	0	0	4	33	9	38	17	7	107	33	8	200	236
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	0	2	10	15	43	55	71	30	60	72	26	23	406
	S.E.	0	2	10	15	26	23	69	13	35	35	20	15	98
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	0	6	13	63	47	41	74	17	102	133	39	2	536
	S.E.	0	6	10	56	20	27	63	6	54	60	21	2	124
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	0	0	6	9	21	23	94	10	71	41	71	8	353
	S.E.	0	0	6	9	9	9	40	5	51	24	37	4	81
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	0	25	117	192	162	192	303	108	496	318	211	262	2385
	S.E.	0	16	65	86	37	52	104	26	137	80	70	201	313
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-66
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-66 (CONTINUED).

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT S	B	C	R	S	WEST POINT B	C	R	S	CORNWALL B	C	R
09AUG82	ST. CROP	0	0	0	0	N	0	0	0	4	0	0	4
	S.E.	0	0	0	0	N	0	0	0	4	0	0	4
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	4	0	0	4
	S.E.	0	0	0	0	N	0	0	0	4	0	0	4
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-66 (CONTINUED).

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	71	0	71	N	0	0	0	N	0	0	0
	S.E.	N	44	0	44	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	62	0	62
	S.E.	N	0	0	0	N	0	0	0	N	51	0	51
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	33	0	33	N	0	0	0	N	0	0	0
	S.E.	N	33	0	33	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	116	0	116	N	0	0	0	N	0	0	0
	S.E.	N	84	0	84	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	0	0	0	N	16	70	86	N	28	0	28
	S.E.	N	0	0	0	N	16	70	72	N	18	0	18
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	220	0	220	N	16	70	86	N	90	0	90
	S.E.	N	100	0	100	N	16	70	72	N	54	0	54
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-66 (CONTINUED).

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES S	B	C	R	CATSKILL S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
040CT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-66 (CONTINUED).

WEEK BEGINNING MONDAY		SPOTTAIL SHINER				YEARLING			
		ALBANY				COMBINED			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	99	N	99	4	170	0	174
	S.E.	N	59	N	59	4	73	0	73
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	17	N	17	0	80	0	80
	S.E.	N	17	N	17	0	54	0	54
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	0	33	0	33
	S.E.	N	0	N	0	0	33	0	33
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	18	N	18	0	135	0	135
	S.E.	N	18	N	18	0	86	0	86
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	123	N	123	0	167	70	236
	S.E.	N	52	N	52	0	57	70	90
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	258	N	258	4	584	70	658
	S.E.	N	82	N	82	4	141	70	158
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-67
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	0	0	0	14	2	0	5	33	33	0	0	87
	S.E.	0	0	0	0	13	2	0	2	21	13	0	0	28
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	0	2	0	7	55	0	2	7	35	0	14	122
	S.E.	0	0	2	0	6	32	0	1	5	18	0	14	40
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	0	2	0	0	4	21	17	3	0	27	2	8	85
	S.E.	0	2	0	0	2	21	17	2	0	16	2	6	32
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	0	0	0	4	22	16	64	5	12	80	2	2	207
	S.E.	0	0	0	4	13	16	25	1	10	53	2	2	64
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	0	0	0	2	21	50	65	4	55	53	110	2	362
	S.E.	0	0	0	2	16	26	36	2	47	26	64	2	96
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	0	2	2	6	68	144	146	21	107	228	114	25	862
	S.E.	0	2	2	4	25	49	47	4	52	65	64	15	129
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-68
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	ST. CROP	0	0	0	0	0	0	0	0	3	0	0	0	3
	S.E.	0	0	0	0	0	0	0	0	3	0	0	0	3
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	ST. CROP	0	0	0	0	0	0	0	0	3	0	0	0	3
	S.E.	0	0	0	0	0	0	0	0	3	0	0	0	3
	NO. TOWS	25	120	70	25	25	30	25	25	25	45	50	35	500

TABLE B-69
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	22	0	22	0	0	0	0
	S.E.	0	N	0	0	0	22	0	22	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	0	0	0	22	0	22	0	0	0	0
	S.E.	0	N	0	0	0	22	0	22	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-69 (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	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	0	0	0	N	14	0	14	0	0	0	0
	S.E.	0	0	0	0	N	14	0	14	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	0	0	0	N	15	0	15	0	0	0	0
	S.E.	0	0	0	0	N	15	0	15	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	28	0	28	0	0	0	0
	S.E.	0	0	0	0	N	20	0	20	0	0	0	0
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-69 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	14	0	14	N	0	0	0
	S.E.	N	0	0	0	N	14	0	14	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	14	0	14	N	0	0	0
	S.E.	N	0	0	0	N	14	0	14	N	0	0	0
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-69 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
040CT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-69 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		ALBANY S	ALBANY B	ALBANY C	ALBANY R	COMBINED S	COMBINED B	COMBINED C	COMBINED R
09AUG82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	0	50	0	50
	S.E.	N	0	N	0	0	30	0	30
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
04OCT82	ST. CROP	N	0	N	0	0	15	0	15
	S.E.	N	0	N	0	0	15	0	15
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	0	64	0	64
	S.E.	N	0	N	0	0	33	0	33
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-70
STANDING CROP (IN THOUSANDS) 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	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
040CT82	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).

SHORTNOSE STURGEON OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
040CT82	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).

SHORTNOSE STURGEON OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE			HYDE PARK			KINGSTON		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
040CT82	ST. CROP	N	0	0	0	N	17	0	17	N	0	0	0
	S.E.	N	0	0	0	N	17	0	17	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	17	0	17	N	0	0	0
	S.E.	N	0	0	0	N	17	0	17	N	0	0	0
	NO. TOWS	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).

SHORTNOSE STURGEON OLDER

WEEK BEGINNING MONDAY		SAUGERTIES S	SAUGERTIES B	SAUGERTIES C	SAUGERTIES R	CATSKILL S	CATSKILL B	CATSKILL C	CATSKILL R
09AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
23AUG82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
20SEP82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
040CT82	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).

WEEK BEGINNING MONDAY		SHORTNOSE STURGEON ALBANY S	B	C	R	OLDER COMBINED S	B	C	R
09AUG82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
040CT82	ST. CROP	N	0	N	0	0	17	0	17
	S.E.	N	0	N	0	0	17	0	17
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	0	17	0	17
	S.E.	N	0	N	0	0	17	0	17
	NO. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED