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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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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 m³) 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 (m³) strained in tow i of stratum k within region r during week (or biweek) w

Equation 4. Density estimate (number per 1000 m³) 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 m³) 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

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

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

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

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

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

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

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

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 m²

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:

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

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_0 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
(=0.5)

$N_{krw} =$ 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 :

$$SE_{N_{rw}}' = \sqrt{\frac{S_R^2}{R^2} + \frac{S_E^2}{E^2} + SE_{N_{rw}}^2}$$

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

$S_E^2 =$ 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

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

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:

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

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 $N_I = N_0$ 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				FALL SHOALS			BEACH SEINE			COM- BINED GEARS
	EGGS	YSL	PYSL	YOY	YOY	YRLG	OLDER	YOY	YRLG	OLDER	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	-

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= 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.

STRIPED BASS EGGS

WEEK BEGINNING MONDAY	STRIPED BASS											
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			EGGS		
	S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	0	N	0	0	0	0	0	0	257	200	47	504
	0	N	0	0	0	0	0	0	153	103	47	190
	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	0	N	0	0	0	0	491	491	0	0	0	0
	0	N	0	0	0	0	491	491	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	0	N	0	0	0	0	491	491	257	200	47	504
	0	N	0	0	0	0	491	491	153	103	47	190
	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			WEST POINT			CORNWALL			R	
	S	B	C	R	S	C	B	S	C		R
10MAY82	715	597	5017	6329	N	19277	4976	24253	38	0	42
	538	229	2032	2115	N	5054	3713	6272	26	0	26
	4	6	27	37	N	31	4	35	13	5	23
17MAY82	12	75	1145	1233	N	8142	1602	9744	1048	1071	2272
	12	75	650	655	N	4127	1499	4391	240	703	754
	4	7	27	38	N	31	4	35	12	6	23
24MAY82	0	47	253	300	N	18684	3442	22125	1415	3796	5395
	0	33	164	168	N	6366	1315	6501	428	1803	1854
	3	6	15	24	N	23	7	30	8	5	18
31MAY82	0	71	152	223	N	667	119	786	201	182	405
	0	45	105	114	N	406	119	423	137	182	229
	3	6	15	24	N	24	7	31	9	4	18
07JUN82	0	91	142	233	N	304	225	529	0	0	5
	0	75	86	114	N	99	159	187	0	0	5
	3	6	14	23	N	22	8	30	8	6	19
14JUN82	0	0	0	0	N	78	74	152	0	0	31
	0	0	0	0	N	62	74	96	0	0	31
	5	5	16	26	N	25	10	35	10	13	26
21JUN82	0	0	0	0	N	62	10	72	52	62	114
	0	0	0	0	N	45	10	46	43	45	63
	5	5	15	25	N	25	8	33	12	12	27
28JUN82	0	0	0	0	N	37	0	37	0	0	0
	0	0	0	0	N	25	0	25	0	0	0
	5	5	16	26	N	25	9	34	10	14	27
05JUL82	0	0	0	0	N	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0
	5	5	16	26	N	24	9	33	11	14	28
TOTAL	727	882	6709	8318	N	47251	10448	57699	2753	5109	8263
	539	258	2144	2226	N	9126	4220	10055	512	1944	2015
	37	51	161	249	N	230	66	296	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPED BASS			EGGS			COMBINED			R
	S	B	ALBANY C	R	S	B	C	R		
10MAY82	N	0	0	N	0	976	7157	24953	33086	
	N	0	0	N	0	560	3783	5457	6663	
	N	5	5	N	5	21	65	108	194	
17MAY82	N	0	0	N	0	166	14838	29775	44780	
	N	0	0	N	0	132	3746	10975	11598	
	N	5	5	N	5	21	66	108	195	
24MAY82	N	0	0	N	0	185	20747	49976	70908	
	N	0	0	N	0	58	3525	9769	10386	
	N	3	3	N	3	19	68	99	186	
31MAY82	N	72	72	N	72	22	2975	6272	9269	
	N	72	72	N	72	22	705	1909	2035	
	N	3	3	N	3	19	68	99	186	
07JUN82	N	0	0	N	0	5	340	521	866	
	N	0	0	N	0	5	177	151	233	
	N	3	3	N	3	19	68	99	186	
14JUN82	N	0	0	N	0	31	224	856	1110	
	N	0	0	N	0	31	132	284	315	
	N	3	3	N	3	16	62	109	187	
21JUN82	N	128	128	N	128	0	1894	1361	3255	
	N	128	128	N	128	0	747	805	1098	
	N	3	3	N	3	16	62	108	186	
28JUN82	N	0	0	N	0	0	253	76	329	
	N	0	0	N	0	0	253	47	257	
	N	3	3	N	3	16	61	110	187	
05JUL82	N	0	0	N	0	0	0	45	45	
	N	0	0	N	0	0	0	45	45	
	N	3	3	N	3	16	62	109	187	
TOTAL	N	200	200	N	200	1384	48428	113836	163648	
	N	147	147	N	147	579	6476	15814	17098	
	N	31	31	N	31	163	582	949	1694	

N -- STRATUM NOT SAMPLED

(59/13)

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

WEEK BEGINNING MONDAY	YOLK-SAC LARVAE											
	STRIPED BASS						CROTON-HAVERSTRAW					
	S	B	C	R	S	TAPPAN ZEE B	R	S	B	C	R	S
10MAY82	0	N	0	0	0	39	0	39	1319	745	788	2851
	0	N	0	0	0	39	0	39	555	362	372	760
	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	0	N	0	0	0	0	0	0	0	25	64	89
	0	N	0	0	0	0	0	0	0	25	64	69
	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	0	N	0	0	0	0	0	98	0	33	0	33
	0	N	0	0	0	0	0	98	0	33	0	33
	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	0	N	0	0	0	1087	104	1191	4425	13614	2505	20544
	0	N	0	0	0	650	104	658	1301	7672	391	7791
	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	0	N	0	0	0	493	0	493	875	651	775	2301
	0	N	0	0	0	451	0	451	496	556	370	831
	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	0	N	0	0	0	1620	202	1822	6618	15068	4184	25870
	0	N	0	0	0	792	143	805	1499	7700	659	7873
	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	ST. CROP S.E. NO. TOWS	S	INDIAN POINT		R	S	WEST POINT		R	S	CORNWALL			R
			B	C			B	C			B	C	R	
10MAY82	ST. CROP S.E. NO. TOWS	639 379 4	839 192 6	5451 1063 27	6928 1145 37	N N N	507 241 4	3349 760 31	3856 797 35	18 9 5	73 36 13	1232 1011 5	1324 1011 23	
17MAY82	ST. CROP S.E. NO. TOWS	70 15 4	2488 1039 7	2531 920 27	5089 1388 38	N N N	1171 431 4	18761 5354 31	19932 5372 35	538 331 5	5705 1911 12	11865 8302 6	18108 8526 23	
24MAY82	ST. CROP S.E. NO. TOWS	13 13 3	2541 2436 6	8847 4192 15	11401 4848 24	N N N	12261 2466 7	83271 17016 23	95532 17194 30	7706 4833 5	57331 26984 8	2510 750 5	67547 27423 18	
31MAY82	ST. CROP S.E. NO. TOWS	318 122 3	7222 3581 6	25150 8509 15	32690 9233 24	N N N	13262 7126 7	75500 13996 24	88762 15706 31	987 446 5	20491 8615 9	5158 4910 4	26635 9926 18	
07JUN82	ST. CROP S.E. NO. TOWS	517 346 3	9314 5307 6	10813 4133 14	20645 6736 23	N N N	1269 540 8	4100 1144 22	5369 1265 30	81 75 5	999 374 8	705 705 6	1784 801 19	
14JUN82	ST. CROP S.E. NO. TOWS	102 76 5	112 55 5	1263 894 16	1478 899 26	N N N	41 28 10	634 233 25	675 235 35	0 0 3	888 414 10	74 42 13	962 416 26	
21JUN82	ST. CROP S.E. NO. TOWS	101 50 5	186 186 5	3040 1093 15	3327 1110 25	N N N	887 289 8	5029 1478 25	5916 1506 33	0 0 3	756 623 12	983 382 12	1739 731 27	
28JUN82	ST. CROP S.E. NO. TOWS	7 7 5	395 232 5	544 203 16	946 308 26	N N N	198 62 9	500 180 25	698 191 34	0 0 3	119 43 10	391 93 14	510 102 27	
05JUL82	ST. CROP S.E. NO. TOWS	0 0 5	0 0 5	86 61 16	86 61 26	N N N	65 43 9	127 46 24	192 63 33	0 0 3	0 0 11	0 0 14	0 0 28	
TOTAL	ST. CROP S.E. NO. TOWS	1767 536 37	23097 6938 51	57727 10539 161	82590 12629 249	N N N	29661 7582 66	191270 22766 230	220932 23995 296	9330 4866 37	86362 28402 93	22919 9761 79	118611 30424 209	

N -- STRATUM NOT SAMPLED

TABLE B-2 (CONTINUED).
 STRIPED BASS
 YOLK-SAC LARVAE

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

N -- STRATUM NOT SAMPLED

TABLE B-2 (CONTINUED).
 STRIPED BASS YOLK-SAC LARVAE

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

N -- STRATIUM NOT SAMPLED

TABLE B-2 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPED BASS			YOLK-SAC LARVAE					
	S	B	ALBANY C	R	S	B	COMBINED C	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.

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

N -- STRATUM NOT SAMPLED

TABLE B-3 (CONTINUED).
 STRIPED BASS
 POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY	INDIAN POINT		WEST POINT		CORNWALL		R
	S	B	R	C	S	B	
10MAY82	ST. CROP	0	23	0	0	0	0
	S.E.	0	23	0	0	0	0
	NO. TOWS	4	27	37	31	5	13
17MAY82	ST. CROP	0	0	0	1483	1/21	0
	S.E.	0	0	0	654	665	0
	NO. TOWS	4	7	38	31	35	5
24MAY82	ST. CROP	0	564	10365	20959	23340	1328
	S.E.	0	448	4536	3563	3611	1046
	NO. TOWS	3	6	24	23	30	5
31MAY82	ST. CROP	2738	22499	148598	309998	331217	3342
	S.E.	1396	10113	24174	72535	72723	2396
	NO. TOWS	3	6	24	24	31	5
07JUN82	ST. CROP	6628	30685	138771	12325	14361	138
	S.E.	3150	9992	21675	3128	3182	77
	NO. TOWS	3	6	23	22	30	5
14JUN82	ST. CROP	16	377	3739	2036	2139	0
	S.E.	16	236	1271	487	489	0
	NO. TOWS	5	5	26	25	35	3
21JUN82	ST. CROP	280	1118	13735	14638	16585	76
	S.E.	89	625	2727	2177	2241	28
	NO. TOWS	5	5	25	25	33	3
28JUN82	ST. CROP	1462	2559	17843	15882	18302	841
	S.E.	793	828	2652	2044	2078	290
	NO. TOWS	5	5	26	25	34	3
05JUL82	ST. CROP	164	1217	4925	3103	3698	98
	S.E.	88	998	1350	1078	1106	44
	NO. TOWS	5	5	26	24	33	3
TOTAL	ST. CROP	11289	59019	337999	380424	411363	5822
	S.E.	3538	14298	33055	72763	72959	2632
	NO. TOWS	37	51	249	230	296	37

N -- STRATUM NOT SAMPLED

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

N -- STRATUM NOT SAMPLED

TABLE B-3 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPED BASS			SAUGERTIES			POST YOLK-SAC LARVAE					
	S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	0	0	0	0	0	N	0	0	0
	S.E. TOWS	N	0	0	0	0	0	0	N	0	0	0
		N	3	3	3	3	3	6	N	3	3	6
17MAY82	ST. CROP	N	0	0	0	0	0	0	N	0	0	0
	S.E. TOWS	N	0	0	0	0	0	0	N	0	0	0
		N	3	3	3	3	3	6	N	3	3	6
24MAY82	ST. CROP	N	0	0	0	0	0	0	N	0	0	0
	S.E. TOWS	N	0	0	0	0	0	0	N	0	0	0
		N	5	3	3	3	8	3	N	3	3	6
31MAY82	ST. CROP	N	906	0	0	0	906	0	N	0	0	0
	S.E. TOWS	N	293	0	0	293	0	0	N	0	0	0
		N	5	3	3	8	3	3	N	3	3	6
07JUN82	ST. CROP	N	43	0	0	43	0	0	N	0	0	0
	S.E. TOWS	N	43	0	0	43	0	0	N	0	0	0
		N	5	3	3	8	3	3	N	3	3	6
14JUN82	ST. CROP	N	0	302	302	302	0	79	N	79	0	79
	S.E. TOWS	N	0	0	0	0	0	0	N	79	0	79
		N	4	1	1	5	3	3	N	3	3	6
21JUN82	ST. CROP	N	263	1899	1899	2162	0	0	N	0	0	0
	S.E. TOWS	N	114	1899	1899	1902	0	0	N	0	0	0
		N	4	2	2	6	3	3	N	3	3	6
28JUN82	ST. CROP	N	2818	4235	4235	7053	0	899	N	899	345	1243
	S.E. TOWS	N	1913	3078	3078	3624	0	700	N	700	180	723
		N	4	2	2	6	3	3	N	3	3	6
05JUL82	ST. CROP	N	997	0	0	997	0	0	N	0	0	0
	S.E. TOWS	N	671	0	0	671	0	0	N	0	0	0
		N	4	2	2	6	3	3	N	3	3	6
TOTAL	ST. CROP	N	5027	6436	6436	11463	0	978	N	978	345	1323
	S.E. TOWS	N	2052	3617	3617	4158	0	705	N	705	180	727
		N	37	22	22	59	27	27	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-3 (CONTINUED).
 STRIPED BASS POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY	STRIPED BASS			ALBANY			R			COMBINED			R
	S	B	C	S	B	C	S	B	C	S	B	C	
10MAY82	ST. CROP	N	0	N	0	0	0	0	0	23	23	23	23
	S.E. TOWS	N	0	N	0	0	0	0	0	23	23	23	23
	NO. TOWS	N	5	5	5	21	65	194	108	108	108	108	194
17MAY82	ST. CROP	N	0	N	0	0	0	0	0	1694	1694	1694	2795
	S.E. TOWS	N	0	N	0	0	0	0	0	688	688	688	770
	NO. TOWS	N	5	5	5	21	66	195	108	108	108	108	195
24MAY82	ST. CROP	N	0	N	0	0	0	0	0	51624	51624	51624	85335
	S.E. TOWS	N	0	N	0	0	0	0	0	13741	13741	13741	17577
	NO. TOWS	N	3	3	3	19	68	186	99	99	99	99	186
31MAY82	ST. CROP	N	0	N	0	0	0	0	0	609847	609847	609847	852712
	S.E. TOWS	N	0	N	0	0	0	0	0	123271	123271	123271	123271
	NO. TOWS	N	3	3	3	19	68	186	99	99	99	99	186
07JUN82	ST. CROP	N	0	N	0	0	0	0	0	302883	302883	302883	541971
	S.E. TOWS	N	0	N	0	0	0	0	0	45137	45137	45137	59356
	NO. TOWS	N	3	3	3	19	68	186	99	99	99	99	186
14JUN82	ST. CROP	N	0	N	0	0	0	0	0	17099	17099	17099	39264
	S.E. TOWS	N	0	N	0	0	0	0	0	2981	2981	2981	4592
	NO. TOWS	N	3	3	3	16	62	187	109	109	109	109	187
21JUN82	ST. CROP	N	0	N	0	0	0	0	0	68590	68590	68590	68590
	S.E. TOWS	N	0	N	0	0	0	0	0	6142	6142	6142	6142
	NO. TOWS	N	3	3	3	16	62	186	108	108	108	108	186
28JUN82	ST. CROP	N	135	N	135	12034	29631	124301	82635	82635	82635	124301	124301
	S.E. TOWS	N	135	N	135	2641	4169	8374	6766	6766	6766	8374	8374
	NO. TOWS	N	3	N	3	16	61	187	110	110	110	187	187
05JUL82	ST. CROP	N	0	N	0	1351	11120	28786	16315	16315	16315	28786	28786
	S.E. TOWS	N	0	N	0	340	4060	4551	2026	2026	2026	4551	4551
	NO. TOWS	N	3	N	3	16	62	187	109	109	109	187	187
TOTAL	ST. CROP	N	135	N	135	115634	494473	1743777	1133670	1133670	1133670	1743777	1743777
	S.E. TOWS	N	135	N	135	35721	58859	138485	120157	120157	120157	138485	138485
	NO. TOWS	N	31	N	31	163	582	1694	949	949	949	1694	1694

N -- STRATUM NOT SAMPLED

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

YOUNG-OF-THE-YEAR

STRIPED BASS

WEEK BEGINNING MONDAY	YONKERS						TAPPAN ZEE			CROTON-HAVERSTRAW		
	S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	0	0	0	0	0	0	0	0	0	0
		N	3	6	3	4	3	10	6	3	5	14
17MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-4 (CONTINUED).

YOUNG-OF-THE-YEAR

STRIPED BASS

WEEK BEGINNING MONDAY	ST. CROP S.E. TOWS	S	INDIAN POINT		R	S	WEST POINT		R	S	CORNWALL		R
			B	C			B	C			B	C	
10MAY82	ST. CROP S.E. TOWS	0 0 4	0 0 6	0 0 27	0 0 37	N N N	0 0 4	0 0 31	0 0 35	0 0 5	0 0 13	0 0 5	0 0 23
17MAY82	ST. CROP S.E. TOWS	0 0 4	0 0 7	0 0 27	0 0 38	N N N	0 0 4	0 0 31	0 0 35	0 0 5	0 0 12	0 0 6	0 0 23
24MAY82	ST. CROP S.E. TOWS	0 0 3	0 0 6	0 0 15	0 0 24	N N N	0 0 7	0 0 23	0 0 30	0 0 5	0 0 8	0 0 5	0 0 18
31MAY82	ST. CROP S.E. TOWS	0 0 3	0 0 6	0 0 15	0 0 24	N N N	0 0 7	0 0 24	0 0 31	0 0 5	0 0 9	0 0 4	0 0 18
07JUN82	ST. CROP S.E. TOWS	0 0 3	0 0 6	0 0 14	0 0 23	N N N	0 0 8	0 0 22	0 0 30	0 0 5	0 0 8	0 0 6	0 0 19
14JUN82	ST. CROP S.E. TOWS	0 0 5	0 0 5	0 0 16	0 0 26	N N N	0 0 10	0 0 25	0 0 35	0 0 3	0 0 10	0 0 13	0 0 26
21JUN82	ST. CROP S.E. TOWS	0 0 5	0 0 5	0 0 15	0 0 25	N N N	0 0 8	0 0 25	0 0 33	0 0 3	0 0 12	0 0 12	0 0 27
28JUN82	ST. CROP S.E. TOWS	0 0 5	0 0 5	0 0 16	0 0 26	N N N	11 11 9	0 0 25	11 11 34	8 8 3	0 0 10	0 0 14	8 8 27
05JUL82	ST. CROP S.E. TOWS	412 236 5	0 0 5	0 0 16	412 236 26	N N N	0 0 9	0 0 24	0 0 33	45 26 3	10 10 11	0 0 14	55 28 28
TOTAL	ST. CROP S.E. TOWS	412 236 37	0 0 51	0 0 161	412 236 249	N N N	11 11 66	0 0 230	11 11 296	53 27 37	10 10 93	0 0 79	63 29 209

N -- STRATUM NOT SAMPLED

TABLE B-4 (CONTINUED).
 STRIPED BASS
 YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE			HYDE PARK			KINGSTON						
		S	R	S	B	C	R	S	B	C	R			
10MAY82	ST. CROP	N	0	N	0	0	0	N	0	0	0	0	0	0
	S.E. TOWS	N	0	N	0	0	0	N	0	0	0	0	0	0
		N	9	N	10	19	11	N	20	7	13	0	0	13
17MAY82	ST. CROP	N	0	N	0	0	0	N	0	0	0	0	0	0
	S.E. TOWS	N	0	N	0	0	0	N	0	0	0	0	0	0
		N	10	N	10	20	11	N	20	7	13	0	0	13
24MAY82	ST. CROP	N	0	N	0	0	0	N	0	0	0	0	0	0
	S.E. TOWS	N	0	N	0	0	0	N	0	0	0	0	0	0
		N	17	N	22	39	7	N	19	6	10	0	0	10
31MAY82	ST. CROP	N	0	N	0	0	0	N	0	0	0	0	0	0
	S.E. TOWS	N	0	N	0	0	0	N	0	0	0	0	0	0
		N	16	N	22	38	7	N	19	4	6	0	0	6
07JUN82	ST. CROP	N	0	N	0	0	0	N	0	0	0	0	0	0
	S.E. TOWS	N	0	N	0	0	0	N	0	0	0	0	0	0
		N	16	N	22	38	7	N	19	4	6	0	0	6
14JUN82	ST. CROP	N	0	N	0	0	0	N	0	0	0	0	0	0
	S.E. TOWS	N	0	N	0	0	0	N	0	0	0	0	0	0
		N	7	N	13	20	5	N	16	4	7	0	0	11
21JUN82	ST. CROP	N	0	N	0	0	0	N	0	0	0	0	0	0
	S.E. TOWS	N	0	N	0	0	0	N	0	0	0	0	0	0
		N	7	N	15	22	5	N	13	4	7	0	0	11
28JUN82	ST. CROP	N	28	N	80	108	64	N	64	0	0	0	0	0
	S.E. TOWS	N	28	N	80	84	64	N	64	0	0	0	0	0
		N	7	N	15	22	5	N	14	4	6	0	0	10
05JUL82	ST. CROP	N	28	N	0	28	0	N	37	37	180	0	0	180
	S.E. TOWS	N	28	N	0	28	0	N	37	37	180	0	0	180
		N	7	N	15	22	5	N	14	4	6	0	0	10
TOTAL	ST. CROP	N	56	N	80	136	64	N	101	101	180	0	0	180
	S.E. TOWS	N	40	N	80	89	64	N	74	74	180	0	0	180
		N	96	N	144	240	59	N	154	154	40	0	0	98

N -- STRATUM NOT SAMPLED

TABLE B-4 (CONTINUED).
 STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	STRIPED BASS			SAUGERTIES			CATSKILL		
	S	B	C	R	S	B	C	R	
10MAY82	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	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	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	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	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	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	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	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	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	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	S		ALBANY			R			S			B			COMBINED			C			R			
	ST.	S.E.	B	C	R	S	C	R	S	C	R	S	C	R	S	C	R	S	C	R	S	C	R	
10MAY82	ST. CROP	N	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	N	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	N	5	N	5	5	N	5	21	65	108	194	108	194	108	194	108	194	108	194	108	194	108	194
17MAY82	ST. CROP	N	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	N	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	N	5	N	5	5	N	5	21	66	108	195	108	195	108	195	108	195	108	195	108	195	108	195
24MAY82	ST. CROP	N	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	N	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	N	3	N	3	3	N	3	19	68	99	186	99	186	99	186	99	186	99	186	99	186	99	186
31MAY82	ST. CROP	N	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	N	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	N	3	N	3	3	N	3	19	68	99	186	99	186	99	186	99	186	99	186	99	186	99	186
07JUN82	ST. CROP	N	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	N	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	N	3	N	3	3	N	3	19	68	99	186	99	186	99	186	99	186	99	186	99	186	99	186
14JUN82	ST. CROP	N	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	N	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	N	3	N	3	3	N	3	16	62	109	187	109	187	109	187	109	187	109	187	109	187	109	187
21JUN82	ST. CROP	N	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	N	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	N	3	N	3	3	N	3	16	62	108	186	108	186	108	186	108	186	108	186	108	186	108	186
28JUN82	ST. CROP	N	0	N	0	0	N	0	8	103	80	190	80	190	80	190	80	190	80	190	80	190	80	190
	S.E.	N	0	N	0	0	N	0	8	71	80	107	80	107	80	107	80	107	80	107	80	107	80	107
	NO. TOWS	N	3	N	3	3	N	3	16	61	110	187	110	187	110	187	110	187	110	187	110	187	110	187
05JUL82	ST. CROP	N	0	N	0	0	N	0	1914	310	37	2260	37	2260	37	2260	37	2260	37	2260	37	2260	37	2260
	S.E.	N	0	N	0	0	N	0	1183	198	37	1200	37	1200	37	1200	37	1200	37	1200	37	1200	37	1200
	NO. TOWS	N	3	N	3	3	N	3	16	62	109	187	109	187	109	187	109	187	109	187	109	187	109	187
TOTAL	ST. CROP	N	0	N	0	0	N	0	1922	413	116	2451	116	2451	116	2451	116	2451	116	2451	116	2451	116	2451
	S.E.	N	0	N	0	0	N	0	1183	210	88	1205	88	1205	88	1205	88	1205	88	1205	88	1205	88	1205
	NO. TOWS	N	31	N	31	31	N	31	163	582	949	1694	949	1694	949	1694	949	1694	949	1694	949	1694	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											
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			YOUNG-OF-THE-YEAR		
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	40	N	0	40	1610	0	55	1665	109	228	0	337
	20	N	0	20	418	0	55	422	52	183	0	190
	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	34	N	0	34	90	67	0	157	10	573	0	583
	25	N	0	25	49	46	0	67	10	161	0	161
	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	26	N	0	26	61	812	0	873	19	204	0	223
	17	N	0	17	39	533	0	534	13	136	0	137
	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	0	N	0	0	0	18	0	18	0	8	0	8
	0	N	0	0	0	18	0	18	0	8	0	8
	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	0	N	0	0	30	143	0	173	0	22	0	22
	0	N	0	0	17	99	0	100	0	22	0	22
	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	100	N	0	100	1792	1040	55	2887	137	1035	0	1172
	36	N	0	36	423	544	55	691	54	280	0	285
	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	ST. CROP S.E. NO. TOWS	S	INDIAN POINT			R	S	WEST POINT			R	S	CORNWALL			R
			B	C	C			B	C	B			C	B	C	
09AUG82	98 74 6	98 74 6	0 0 5	0 0 3	98 74 14	N N N	0 0 5	0 0 3	0 0 5	0 0 3	0 0 8	13 9 13	0 0 5	0 0 3	0 0 13	
23AUG82	5 5 6	5 5 6	0 0 5	0 0 3	5 5 14	N N N	0 0 5	0 0 3	0 0 5	0 0 3	0 0 8	0 0 5	0 0 5	0 0 3	0 0 13	
06SEP82	30 20 6	30 20 6	0 0 5	0 0 3	30 20 14	N N N	0 0 5	0 0 3	0 0 5	0 0 3	0 0 8	12 5 5	0 0 5	0 0 3	0 0 13	
20SEP82	0 0 6	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 5	0 0 3	0 0 5	0 0 3	0 0 8	15 11 5	0 0 5	0 0 3	0 0 13	
04OCT82	0 0 6	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 5	0 0 3	15 15 5	0 0 3	15 15 8	4 4 5	0 0 5	0 0 3	4 4 13	
TOTAL	134 76 30	134 76 30	0 0 25	0 0 15	134 76 70	N N N	15 15 25	0 0 15	15 15 25	0 0 15	15 15 40	43 15 25	0 0 25	0 0 15	43 15 65	

N -- STRATUM NOT SAMPLED

TABLE B-5
(CONTINUED).

YOUNG-OF-THE-YEAR

STRIPED BASS

WEEK
BEGINNING
MONDAY

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	POUGHKEEPSIE			HYDE PARK			KINGSTON			R			
		S	B	C	R	S	B	C	R	S		B	C	
09AUG82	0	N	0	0	0	0	0	0	0	N	13	0	0	13
	0	N	0	0	0	0	0	0	0	N	13	0	0	13
	5	N	3	8	4	6	4	10	0	N	9	6	6	15
23AUG82	28	N	0	28	0	14	0	14	14	N	0	0	0	0
	28	N	0	28	0	14	0	14	14	N	0	0	0	0
	5	N	3	8	4	6	4	10	10	N	9	6	6	15
06SEP82	0	N	0	0	0	0	0	0	0	N	233	0	0	233
	0	N	0	0	0	0	0	0	0	N	161	0	0	161
	5	N	3	8	4	6	4	10	10	N	9	6	6	15
20SEP82	0	N	0	0	0	0	0	0	0	N	14	0	0	14
	0	N	0	0	0	0	0	0	0	N	14	0	0	14
	5	N	3	8	4	6	4	10	10	N	9	6	6	15
04OCT82	0	N	0	0	0	0	0	0	0	N	0	0	0	0
	0	N	0	0	0	0	0	0	0	N	0	0	0	0
	5	N	3	8	4	6	4	10	10	N	9	6	6	15
TOTAL	28	N	0	28	0	14	0	14	14	N	260	0	0	260
	28	N	0	28	0	14	0	14	14	N	162	0	0	162
	25	N	15	40	20	30	20	50	50	N	45	30	30	75

N -- STRATUM NOT SAMPLED

TABLE B-5 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	SAUGERTIES			CATSKILL			R
		S	B	C	R	S	B	
09AUG82	N	55	0	55	N	14	0	14
	N	30	0	30	N	14	0	14
	N	12	6	18	N	15	6	21
23AUG82	N	13	0	13	N	21	0	21
	N	13	0	13	N	15	0	15
	N	12	6	18	N	15	6	21
06SEP82	N	57	0	57	N	0	0	0
	N	43	0	43	N	0	0	0
	N	12	6	18	N	15	6	21
20SEP82	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0
	N	12	6	18	N	15	6	21
04OCT82	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0
	N	12	6	18	N	15	6	21
TOTAL	N	125	0	125	N	35	0	35
	N	54	0	54	N	20	0	20
	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	ST. CROP S.E. NO. TOWS	ALBANY			R	S	COMBINED		R
		S	B	C			B	C	
09AUG82	N	0	0	N	0	1870	310	55	2235
	N	0	0	N	0	428	186	55	470
	N	8	8	N	8	64	86	50	200
23AUG82	N	0	0	N	0	138	716	0	854
	N	0	0	N	0	55	171	0	180
	N	8	8	N	8	64	86	50	200
06SEP82	N	0	0	N	0	148	1305	0	1454
	N	0	0	N	0	49	574	0	577
	N	8	8	N	8	64	86	50	200
20SEP82	N	0	0	N	0	15	41	0	55
	N	0	0	N	0	11	25	0	27
	N	8	8	N	8	64	86	50	200
04OCT82	N	0	0	N	0	34	180	0	214
	N	0	0	N	0	17	102	0	104
	N	8	8	N	8	64	86	50	200
TOTAL	N	0	0	N	0	2205	2552	55	4812
	N	0	0	N	0	435	636	55	773
	N	40	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.

WEEK BEGINNING MONDAY	STRIPED BASS											YOUNG-OF-YEAR				
	YK	TZ	CH	IP	WP	REGIONS			HP	KG	SG	CS	AL	COMBINED		
						CW	PK									
16AUG82	21	399	167	65	10	25	9	3	5	6	6	6	6	721		
	13	113	46	23	4	16	9	1	5	4	4	4	4	127		
	5	24	14	5	5	6	5	5	5	9	10	7	7	100		
30AUG82	63	303	367	20	1	9	11	0	7	2	24	8	8	815		
	29	90	119	13	1	3	6	0	3	2	17	3	3	154		
	5	24	14	5	5	6	5	5	5	9	10	7	7	100		
13SEP82	35	358	582	138	6	7	4	0	0	8	4	2	2	1144		
	7	94	145	59	2	2	2	0	0	4	3	2	2	183		
	5	24	14	5	5	6	5	5	5	9	10	7	7	100		
27SEP82	44	577	688	151	10	12	7	0	3	16	8	0	0	1517		
	22	151	353	94	5	3	4	0	3	10	6	0	0	396		
	5	24	14	5	5	6	5	5	5	9	10	7	7	100		
11OCT82	44	212	133	59	5	7	6	0	5	0	6	0	0	476		
	10	84	33	31	2	7	4	0	3	0	3	0	0	96		
	5	24	14	5	5	6	5	5	5	9	10	7	7	100		
TOTAL	206	1850	1936	433	32	60	37	3	21	31	47	16	16	4673		
	41	244	403	118	7	18	12	1	8	12	19	5	5	489		
	25	120	70	25	25	30	25	25	25	45	50	35	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				REGIONAL TOTALS
	SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	
YONKERS	ST. CROP SE	56 * 34 *	165 * 100 *	0 * 0 *	397 156
TAPPAN ZEE	ST. CROP SE	1275 * 350 *	67 * 46 *	55 * 55 *	4744 1254
CROTON-HAVERSTRAW	ST. CROP SE	89 * 46 *	801 * 343 *	0 * 0 *	2289 602
INDIAN POINT	ST. CROP SE	77 * 59 *	0 * 0 *	0 * 0 *	618 232
WEST POINT	ST. CROP SE	0 * 0 *	0 * 0 *	0 * 0 *	84 38
CORNWALL	ST. CROP SE	10 * 6 *	0 * 0 *	0 * 0 *	218 140
POUGHKEEPSIE	ST. CROP SE	2 * 2 *	25 * 25 *	0 * 0 *	99 77
HYDE PARK	ST. CROP SE	1 * 1 *	13 * 13 *	0 * 0 *	36 16
KINGSTON	ST. CROP SE	2 * 2 *	10 * 10 *	0 * 0 *	55 45
SAUGERTIES	ST. CROP SE	16 * 10 *	46 * 29 *	0 * 0 *	111 48
CATSKILL	ST. CROP SE	12 * 10 *	19 * 16 *	0 * 0 *	81 41
ALBANY	ST. CROP SE	0 * 0 *	0 * 0 *	0 * 0 *	49 36
STRATUM TOTAL	ST. CROP SE	1540 * 360 *	1147 * 363 *	55 * 55 *	8781 1431

STR BASS NIGHT/DAY CATCH RATIO = SBR=
 STR BASS BEACH SEINE EFFICIENCY = SBE=
 STR BASS ICHTHYO EFFICIENCY = SBS=
 2.136 VAR(SBR) = 0.081
 0.255 VAR(SBE) = 0.002
 0.5
 *---ESTIMATED VALUE
 N---NO SAMPLE TAKEN
 #---STD ERROR COULD NOT BE CALCULATED

STRIPED BASS (CONTINUED).
 YOUNG-OF-THE-YEAR
 AUG 23 - AUG 29

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

STR BASS NIGHT/DAY CATCH RATIO = SBR=
 STR BASS BEACH SEINE EFFICIENCY = SBE=
 STR BASS ICHTHYO EFFICIENCY = SBS=
 2.136 VAR(SBR) = 0.081
 0.255 VAR(SBE) = 0.002
 0.5
 *--ESTIMATED VALUE
 N--NO SAMPLE TAKEN
 #--STD ERROR COULD NOT BE CALCULATED

STRIPED BASS (CONTINUED).
 YOUNG-OF-THE-YEAR
 AUG 30 - SEP 5

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

STR BASS NIGHT/DAY CATCH RATIO = SBR=
 STR BASS BEACH SEINE EFFICIENCY = SBE=
 STR BASS ICHTHYO EFFICIENCY = SBS=
 2.136 VAR(SBR) = 0.081
 0.255 VAR(SBE) = 0.002
 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 6 - SEP 12

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

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

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

STRIPED BASS (CONTINUED).
 YOUNG-OF-THE-YEAR
 SEP 13 - SEP 19

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

STRIPED BASS (CONTINUED).
 YOUNG-OF-THE-YEAR
 SEP 20 - SEP 26

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

STR BASS NIGHT/DAY CATCH RATIO = SBR=
 STR BASS BEACH SEINE EFFICIENCY = SBE=
 STR BASS ICHTHYO EFFICIENCY = SBS=
 2.136 VAR(SBR) = 0.081
 0.255 VAR(SBE) = 0.002
 .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				REGIONAL TOTALS
	SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	
YONKERS	ST. CROP SE 366	0 *	0 *	0 *	366
	204	0 *	0 *	0 *	204
TAPPAN ZEE	ST. CROP SE 4837	23 *	161 *	0 *	5020
	1654	13 *	117 *	0 *	1659
CROTON-HAVERSTRAW	ST. CROP SE 5760	0 *	30 *	0 *	5790
	3214	0 *	30 *	0 *	3214
INDIAN POINT	ST. CROP SE 1266	0 *	0 *	0 *	1266
	835	0 *	0 *	0 *	835
WEST POINT	ST. CROP SE 84	1 *	14 *	0 *	99
	47	1 *	14 *	0 *	49
CORNWALL	ST. CROP SE 104	14 *	0 *	0 *	118
	36	11 *	0 *	0 *	37
POUGHKEEPSIE	ST. CROP SE 59	0 *	0 *	0 *	59
	35	0 *	0 *	0 *	35
HYDE PARK	ST. CROP SE 4	0 *	0 *	0 *	4
	3	0 *	0 *	0 *	3
KINGSTON	ST. CROP SE 29	3 *	10 *	0 *	42
	30	3 *	10 *	0 *	31
SAUCERTIES	ST. CROP SE 131	0 *	0 *	0 *	131
	91	0 *	0 *	0 *	91
CATSKILL	ST. CROP SE 66	0 *	0 *	0 *	66
	52	0 *	0 *	0 *	52
ALBANY	ST. CROP SE 0	0 *	0 *	0 *	0
	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP SE 12706	40 *	216 *	0 *	12962
	3718	17 *	122 *	0 *	3720

STR BASS NIGHT/DAY CATCH RATIO = SBR= 2.136
 STR BASS BEACH SEINE EFFICIENCY = SBE= 0.255
 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).
 OCT 4 - OCT 10
 YOUNG-OF-THE-YEAR

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

STR BASS NIGHT/DAY CATCH RATIO = SBR= 2.136
 STR BASS BEACH SEINE EFFICIENCY = SBE= 0.255
 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
 OCT 11 - OCT 17

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

STR BASS NIGHT/DAY CATCH RATIO = SBR=
 STR BASS BEACH SEINE EFFICIENCY = SBE=
 STR BASS ICHTHYO EFFICIENCY = SBS=

2.136 VAR(SBR) = 0.081
 0.255 VAR(SBE) = 0.002
 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				TAPPAN ZEE				CROTON-HAVERSTRAW			
	S	B	R	S	B	R	S	B	R	S	B	R
09AUG82	0	N	0	20	0	0	20	9	0	0	9	9
	0	N	0	14	0	0	14	9	0	0	9	9
	7	N	12	30	8	8	46	16	8	3	27	27
23AUG82	0	N	0	12	0	0	12	0	0	0	0	0
	0	N	0	12	0	0	12	0	0	0	0	0
	7	N	12	30	8	8	46	16	8	3	27	27
06SEP82	0	N	0	0	46	0	46	0	12	0	12	12
	0	N	0	0	30	0	30	0	12	0	12	12
	7	N	12	30	8	8	46	16	8	3	27	27
20SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	12	30	8	8	46	16	8	3	27	27
04OCT82	0	N	0	33	23	0	56	0	0	0	0	0
	0	N	0	19	23	0	30	0	0	0	0	0
	7	N	12	30	8	8	46	16	8	3	27	27
TOTAL	0	N	0	65	69	0	134	9	12	0	21	21
	0	N	0	26	38	0	46	9	12	0	15	15
	35	N	60	150	40	40	230	80	40	15	135	135

N -- STRATUM NOT SAMPLED

TABLE B-8 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPED BASS											
	INDIAN POINT				WEST POINT				YEARLING			
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	5	0	0	5	N	0	0	0	0	0	0	0
ST. CROP	5	0	0	5	N	0	0	0	0	0	0	0
S.E. TOWS	6	5	3	14	N	5	3	8	0	5	3	13
23AUG82	0	0	0	0	N	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
S.E. TOWS	6	5	3	14	N	5	3	8	0	5	3	13
06SEP82	0	0	0	0	N	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
S.E. TOWS	6	5	3	14	N	5	3	8	0	5	3	13
20SEP82	0	0	0	0	N	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
S.E. TOWS	6	5	3	14	N	5	3	8	7	5	3	13
04OCT82	0	0	0	0	N	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
S.E. TOWS	6	5	3	14	N	5	3	8	0	5	3	13
TOTAL	5	0	0	5	N	0	0	0	0	0	0	0
ST. CROP	5	0	0	5	N	0	0	0	0	0	0	0
S.E. TOWS	30	25	15	70	N	25	15	40	7	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-8 (CONTINUED).

WEEK BEGINNING MONDAY	POUGHKEEPSIE			HYDE PARK			YEARLING			KINGSTON			
	S	B	C	R	S	B	C	R	S	B	C	R	
													STRIPED BASS
09AUG82	N	0	0	0	N	15	0	0	15	N	0	0	0
	N	0	0	0	N	15	0	0	15	N	0	0	0
	N	5	3	8	N	6	4	4	10	N	9	6	15
23AUG82	N	0	0	0	N	0	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	4	10	N	9	6	15
06SEP82	N	0	185	185	N	0	0	0	0	N	0	0	0
	N	0	185	185	N	0	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	4	10	N	9	6	15
20SEP82	N	0	0	0	N	0	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	4	10	N	9	6	15
04OCT82	N	0	0	0	N	0	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	4	10	N	9	6	15
TOTAL	N	0	185	185	N	15	0	0	15	N	0	0	0
	N	0	185	185	N	15	0	0	15	N	0	0	0
	N	25	15	40	N	30	20	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-8 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-8 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPED BASS			ALBANY			R			S			COMBINED			R
	S	B	C	S	B	C	S	B	C	S	B	C	S	B	C	
09AUG82	N	0	N	0	0	N	0	0	0	35	15	0	50	0	50	
	N	0	N	0	0	N	0	0	0	18	15	0	23	0	23	
	N	8	N	8	8	N	8	8	8	64	86	50	200	50	200	
23AUG82	N	0	N	0	0	N	0	0	0	12	0	0	12	0	12	
	N	0	N	0	0	N	0	0	0	12	0	0	12	0	12	
	N	8	N	8	8	N	8	8	8	64	86	50	200	50	200	
06SEP82	N	0	N	0	0	N	0	0	0	0	58	185	242	185	242	
	N	0	N	0	0	N	0	0	0	0	32	185	188	185	188	
	N	8	N	8	8	N	8	8	8	64	86	50	200	50	200	
20SEP82	N	0	N	0	0	N	0	0	0	7	0	0	7	0	7	
	N	0	N	0	0	N	0	0	0	4	0	0	4	0	4	
	N	8	N	8	8	N	8	8	8	64	86	50	200	50	200	
04OCT82	N	0	N	0	0	N	0	0	0	33	23	0	56	0	56	
	N	0	N	0	0	N	0	0	0	19	23	0	30	0	30	
	N	8	N	8	8	N	8	8	8	64	86	50	200	50	200	
TOTAL	N	0	N	0	0	N	0	0	0	87	96	185	368	185	368	
	N	0	N	0	0	N	0	0	0	29	43	185	192	185	192	
	N	40	N	40	40	N	40	40	40	320	430	250	1000	250	1000	

N -- STRATUM NOT SAMPLED

TABLE B-9
 STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
 BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY	STRIPED BASS											YEARLING		
	YK	TZ	CH	IP	WP	· CW	PK	HP	KG	SG	CS	AL	COMBINED	
16AUG82	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	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	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	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	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	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						OLDER					
	S	B	C	R	S	T	S	R	B	C	S	R
09AUG82	9	N	0	9	11	43	0	54	0	0	0	0
	9	N	0	9	11	28	0	30	0	0	0	0
	7	N	5	12	30	8	8	46	8	3	16	27
23AUG82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	8	3	16	27
06SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	8	3	16	27
20SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	8	3	16	27
04OCT82	11	N	0	11	0	0	0	0	0	0	0	0
	11	N	0	11	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	8	3	16	27
TOTAL	21	N	0	21	11	43	0	54	0	0	0	0
	15	N	0	15	11	28	0	30	0	0	0	0
	35	N	25	60	150	40	40	230	40	15	80	135

N -- STRATUM NOT SAMPLED

TABLE B-10 (CONTINUED).
STRIPED BASS

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

N -- STRATUM NOT SAMPLED

TABLE B-10 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-10 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPED BASS			OLDER			R
	S	SAUGERTIES		S	CATSKILL		
		B	C		B	C	
09AUG82	ST. CROP	N	25	0	0	0	0
	S.E. TOWS	N	17	0	0	0	0
		N	12	6	15	6	21
23AUG82	ST. CROP	N	0	0	0	0	0
	S.E. TOWS	N	0	0	0	0	0
		N	12	6	15	6	21
06SEP82	ST. CROP	N	0	0	0	0	0
	S.E. TOWS	N	0	0	0	0	0
		N	12	6	15	6	21
20SEP82	ST. CROP	N	0	0	0	0	0
	S.E. TOWS	N	0	0	0	0	0
		N	12	6	15	6	21
04OCT82	ST. CROP	N	0	0	0	0	0
	S.E. TOWS	N	0	0	0	0	0
		N	12	6	15	6	21
TOTAL	ST. CROP	N	25	0	0	0	0
	S.E. TOWS	N	17	0	0	0	0
		N	60	30	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-10 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPED BASS			OLDER			COMBINED		
	ALBANY			S			B		
	S	B	C	R	S	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	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	3	26	0	30
	S.E.	N	0	N	0	3	19	0	19
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	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
	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.

WEEK BEGINNING MONDAY	STRIPED BASS										OLDER				
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED		
16AUG82	0	0	0	0	0	0	0	0	0	0	0	0	0		
S.E. NO. TOWS	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
30AUG82	0	2	0	0	0	0	0	0	0	2	0	0	4		
S.E. NO. TOWS	0	2	0	0	0	0	0	0	0	2	0	0	3		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
13SEP82	0	0	0	0	0	0	0	0	0	0	0	0	0		
S.E. NO. TOWS	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
27SEP82	0	0	15	0	0	0	0	0	0	0	0	0	15		
S.E. NO. TOWS	0	0	15	0	0	0	0	0	0	0	0	0	15		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
11OCT82	0	0	2	0	0	2	0	0	0	0	0	0	4		
S.E. NO. TOWS	0	0	2	0	0	2	0	0	0	0	0	0	3		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
TOTAL	0	2	17	0	0	2	0	0	0	2	0	0	23		
S.E. NO. TOWS	0	2	15	0	0	2	0	0	0	2	0	0	16		
	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

WEEK
 BEGINNING
 MONDAY

EGGS

WEEK BEGINNING MONDAY	YONKERS			IAPPAN ZEE			CROTON-HAVERSTRAW			R		
	S	B	C	R	S	C	R	S	B		C	
10MAY82	0	N	0	0	0	0	0	0	0	0	0	495
	0	N	0	0	0	0	0	0	0	0	0	339
	3	N	3	6	4	3	10	6	3	5	5	14
17MAY82	0	N	0	0	0	0	0	0	0	0	0	448
	0	N	0	0	0	0	0	0	0	0	0	448
	3	N	3	6	4	3	10	6	3	4	4	13
24MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	4	3	11	5	21	0	0	237
31MAY82	0	N	0	0	0	0	0	0	21	0	0	0
	0	N	0	0	0	0	0	0	21	0	0	0
	3	N	3	6	4	3	11	5	4	3	3	12
07JUN82	0	N	0	0	507	491	1262	3933	0	0	0	3933
	0	N	0	0	507	491	754	3154	0	0	0	3154
	3	N	3	6	4	4	11	5	4	3	3	12
14JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	4	4	11	5	0	0	0	33
21JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	1	9	5	6	14	4	33	0	0	2852
28JUN82	0	N	0	0	0	0	0	0	21	0	0	2127
	0	N	0	0	0	0	0	0	6	6	6	16
	1	N	1	10	5	6	14	4	0	0	0	0
05JUL82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	1	9	5	6	14	4	0	0	0	0
TOTAL	0	N	0	0	507	491	1262	7982	55	0	0	8037
	0	N	0	0	507	491	754	3852	30	0	0	3852
	19	N	19	67	40	42	109	43	42	6	6	128

N -- STRATUM NOT SAMPLED

TABLE B-12 (CONTINUED).

WHITE PERCH EGGS

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

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

N -- STRATUM NOT SAMPLED

TABLE B-12 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE PERCH			EGGS			CATSKILL			R
	S	SAUCERTIES		R	S	B	C	R		
		B	C							
10MAY82	ST. CROP	N	578385	54602	632986	N	197609	35587	233195	
	S.E. TOWS	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. TOWS	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. TOWS	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. TOWS	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. TOWS	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. TOWS	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. TOWS	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. TOWS	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. TOWS	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. TOWS	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			EGGS			COMBINED		
	S	B	ALBANY C	R	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	S			YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			R
	ST. CROP S.E. NO. TOWS	B	C	R	S	B	C	R	S	B	C	R	
10MAY82	28 28 3	N	0	28	336	83	219	638	205	281	40	526	
17MAY82	0 0 3	N	0	0	0	0	0	0	25	0	0	25	
24MAY82	24 24 3	N	181	206	0	0	0	0	0	50	68	118	
31MAY82	0 0 3	N	0	0	364	63	0	428	483	0	0	483	
07JUN82	300 221 3	N	0	300	340	43	208	591	1549	337	853	2739	
14JUN82	0 0 1	N	0	0	129	117	0	246	1741	16	89	1846	
21JUN82	0 0 1	N	0	0	129	48	0	137	686	16	40	687	
28JUN82	85 0 1	N	0	85	241	39	0	280	0	0	0	0	
05JUL82	0 0 1	N	0	0	0	0	0	0	0	0	0	0	
TOTAL	438 224 19	N	181	619	1409	386	427	2222	4081	758	1051	5890	
		N	181	288	445	135	235	521	825	207	510	992	
		N	48	67	27	40	42	109	43	42	43	128	

N -- STRATUM NOT SAMPLED

TABLE B-13 (CONTINUED).

WHITE PERCH

WEEK
BEGINNING
MONDAY

YOLK-SAC LARVAE

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

N -- STRATUM NOT SAMPLED

TABLE B-13 (CONTINUED).

WHITE PERCH

WEEK
BEGINNING
MONDAY

YOLK-SAC LARVAE

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

N -- STRATIUM NOT SAMPLED

TABLE B-13 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-13 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE PERCH			YOLK-SAC LARVAE					
	S	B	ALBANY C	R	S	B	COMBINED 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.

WEEK BEGINNING MONDAY	WHITE PERCH											
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			POST YOLK-SAC LARVAE		
	S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	0	N	0	0	118	42	0	160	0	38	0	38
	0	N	0	0	118	42	0	126	0	38	0	38
	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	0	N	0	0	111	0	110	221	36	0	257	293
	0	N	0	0	111	0	110	157	36	0	257	260
	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	0	N	0	0	116	120	688	924	1808	584	2307	4699
	0	N	0	0	116	70	688	701	1687	176	1925	2566
	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	3133	N	3914	7047	9180	23578	36055	68813	116850	44167	109553	270570
	584	N	2240	2315	6364	6360	5538	10565	35646	7172	26988	45282
	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	522	N	1435	1957	2655	32279	6887	41820	111704	18934	76788	207426
	0	N	1028	1028	1783	17124	4252	17734	17199	9546	19923	27997
	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	0	N	9373	9373	8639	6020	2863	17522	14173	5447	11146	30765
	0	N	9373	9373	8223	3007	1980	8976	4629	944	1925	5101
	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	0	N	0	0	14935	4001	14929	33865	5660	2105	10516	18281
	0	N	0	0	6547	2196	5103	8586	1706	475	2699	3228
	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	0	N	0	0	0	107	62	169	944	3241	4681	8866
	0	N	0	0	0	71	62	94	358	926	905	1343
	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	3655	N	14722	18377	35754	66146	61595	163495	251176	74516	215247	540939
	584	N	9691	9709	12418	18643	8899	24103	39922	12024	33777	53658
	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			WEST POINT			CORNWALL						
	S	B	C	R	S	B	C	R	S	B	C		
10MAY82	ST. CROP S.E. NO. TOWS	25 25 4	23 23 6	142 69 27	189 77 37	N N N	203 203 4	548 103 31	751 227 35	50 40 5	311 140 13	324 151 5	686 209 23
17MAY82	ST. CROP S.E. NO. TOWS	45 31 4	295 165 7	321 115 27	662 204 38	N N N	1905 1572 4	7608 1820 31	9512 2405 35	1173 348 5	7764 1826 12	9173 2722 6	18110 3297 23
24MAY82	ST. CROP S.E. NO. TOWS	0 0 3	946 652 6	14660 6779 15	15606 6810 24	N N N	26594 8058 7	210660 51272 23	237254 51901 30	20683 9144 5	68184 10819 8	577757 257561 5	666623 257950 18
31MAY82	ST. CROP S.E. NO. TOWS	27629 16099 3	22730 6733 6	220441 47939 15	270800 51016 24	N N N	19056 4855 7	506036 94638 24	525092 94762 31	32154 12806 5	103990 27875 9	143860 72276 4	280005 78516 18
07JUN82	ST. CROP S.E. NO. TOWS	12168 3678 3	44759 10057 6	169141 29303 14	226068 31198 23	N N N	24737 9243 8	320698 62241 22	345435 62923 30	9341 4031 5	47474 32649 8	208563 70232 6	265379 77555 19
14JUN82	ST. CROP S.E. NO. TOWS	9116 7403 5	22426 8439 5	121057 35979 16	152599 37690 26	N N N	5426 3045 10	67053 20335 25	72479 20562 35	15077 5818 3	34848 13218 10	67604 7377 13	117529 16217 26
21JUN82	ST. CROP S.E. NO. TOWS	2022 172 5	8053 2007 5	45943 6378 15	56019 6689 25	N N N	15085 6063 8	52742 5832 25	67827 8412 33	2158 1616 3	24562 10464 12	84322 24250 12	111043 26460 27
28JUN82	ST. CROP S.E. NO. TOWS	3043 1106 5	8562 4747 5	66344 15948 16	77949 16676 26	N N N	19523 6786 9	88596 11809 25	108119 13620 34	6038 2635 3	36343 5868 10	56016 9648 14	98397 11596 27
05JUL82	ST. CROP S.E. NO. TOWS	267 158 5	4167 1913 5	22887 6220 16	27320 6510 26	N N N	11940 4186 9	45104 5400 24	57044 6832 33	2810 311 3	17304 3235 11	70703 18733 14	90817 19013 28
TOTAL	ST. CROP S.E. NO. TOWS	54314 18133 37	111960 15759 51	660937 69505 161	827211 73540 249	N N N	124468 16913 66	1299045 126801 230	1423513 127924 296	89485 17535 37	340780 47880 93	1218321 278546 79	1648587 283175 209

N -- STRATUM NOT SAMPLED

TABLE B-14 (CONTINUED).

WHITE PERCH

POST YOLK-SAC LARVAE

WFEK
BIGINNING
MONDAY

	S	POUGHKEEPSIE		R	S	HYDE PARK		R	S	KINGSTON			R
		B	C			B	C			B	C		
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	86659	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		R	S	CATSKILL		R
		B	C			B	C	
10MAY82	ST. CROP	N	0	0	N	0	0	0
	S.E. NO. TOWS	N	0	0	N	0	0	0
		N	3	6	N	3	3	6
17MAY82	ST. CROP	N	14456	29481	N	1472	1717	3189
	S.E. NO. TOWS	N	5642	5882	N	1252	947	1570
		N	3	6	N	3	3	6
24MAY82	ST. CROP	N	92970	229119	N	17258	33985	51244
	S.E. NO. TOWS	N	28573	50848	N	13458	4972	14347
		N	5	8	N	3	3	6
31MAY82	ST. CROP	N	83125	156176	N	48312	40692	89004
	S.E. NO. TOWS	N	23645	44987	N	40862	9422	41935
		N	5	8	N	3	3	6
07JUN82	ST. CROP	N	96708	184584	N	293	599	892
	S.E. NO. TOWS	N	24414	37694	N	195	284	345
		N	5	8	N	3	3	6
14JUN82	ST. CROP	N	12478	74126	N	14885	2707	17593
	S.E. NO. TOWS	N	4992	4992	N	4142	1329	4350
		N	4	5	N	3	3	6
21JUN82	ST. CROP	N	71898	217903	N	49516	65937	115453
	S.E. NO. TOWS	N	24790	89047	N	22684	30758	38218
		N	4	6	N	3	3	6
28JUN82	ST. CROP	N	121226	208360	N	213430	123146	336576
	S.E. NO. TOWS	N	46961	48757	N	99020	46876	109556
		N	4	6	N	3	3	6
05JUL82	ST. CROP	N	85572	108757	N	5862	16876	22738
	S.E. NO. TOWS	N	37586	37808	N	1262	10774	10847
		N	4	6	N	3	3	6
TOTAL	ST. CROP	N	578433	630075	N	351029	285659	636687
	S.E. NO. TOWS	N	79126	107540	N	110412	58101	124766
		N	37	59	N	27	27	54

N -- STRATUM NOT SAMPLED

TABLE B-14 (CONTINUED).
 WHITE PERCH
 POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY	ALBANY			COMBINED			R
	S	B	C	S	B	C	
10MAY82	ST. CROP	N	0	N	0	194	3940
	S.E.	N	0	N	0	127	1101
	NO. TOWS	N	5	N	5	21	194
17MAY82	ST. CROP	N	232	N	232	1218	321241
	S.E.	N	232	N	232	349	43249
	NO. TOWS	N	5	N	5	21	195
24MAY82	ST. CROP	N	0	N	0	20830	2961308
	S.E.	N	0	N	0	9145	366733
	NO. TOWS	N	3	N	3	19	186
31MAY82	ST. CROP	N	4216	N	4216	61708	2985608
	S.E.	N	3545	N	3545	20641	204232
	NO. TOWS	N	3	N	3	19	186
07JUN82	ST. CROP	N	78	N	78	150672	2183303
	S.E.	N	78	N	78	36624	162471
	NO. TOWS	N	3	N	3	19	186
14JUN82	ST. CROP	N	71	N	71	139074	1372114
	S.E.	N	71	N	71	19689	168162
	NO. TOWS	N	3	N	3	16	187
21JUN82	ST. CROP	N	68	N	68	26992	927080
	S.E.	N	68	N	68	9575	107142
	NO. TOWS	N	3	N	3	16	186
28JUN82	ST. CROP	N	10328	N	10328	29676	1524461
	S.E.	N	5206	N	5206	7344	136150
	NO. TOWS	N	3	N	3	16	187
05JUL82	ST. CROP	N	3358	N	3358	4021	855423
	S.E.	N	1759	N	1759	500	80315
	NO. TOWS	N	3	N	3	16	187
TOTAL	ST. CROP	N	18351	N	18351	434385	13134480
	S.E.	N	6545	N	6545	48832	518861
	NO. TOWS	N	31	N	31	163	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			TAPPAN ZEE			CROTON-HAVERS			R
	S	R	C	S	R	C	S	R	C	
10MAY82	0	0	0	0	0	0	0	0	0	0
ST. CROP										
S.E.	0	0	0	0	0	0	0	0	0	0
NO. TOWS	3	6	3	3	10	3	6	5	14	14
17MAY82	0	0	0	0	0	0	0	0	0	0
ST. CROP										
S.E.	0	0	0	0	0	0	0	0	0	0
NO. TOWS	3	6	3	3	10	3	6	4	13	13
24MAY82	0	0	0	0	0	0	0	0	0	0
ST. CROP										
S.E.	0	0	0	0	0	0	0	0	0	0
NO. TOWS	3	6	3	3	11	4	5	3	12	12
31MAY82	0	0	0	0	0	0	0	0	0	0
ST. CROP										
S.E.	0	0	0	0	0	0	0	0	0	0
NO. TOWS	3	6	3	3	11	4	5	3	12	12
07JUN82	0	0	0	0	0	0	0	0	0	0
ST. CROP										
S.E.	0	0	0	0	0	0	0	0	0	0
NO. TOWS	3	6	3	3	11	4	5	4	13	13
14JUN82	0	0	0	0	0	0	0	0	0	0
ST. CROP										
S.E.	0	0	0	0	0	0	0	0	0	0
NO. TOWS	1	9	8	3	14	6	4	6	16	16
21JUN82	0	0	0	0	0	0	0	0	0	0
ST. CROP										
S.E.	0	0	0	0	0	0	0	0	0	0
NO. TOWS	1	10	9	3	14	6	4	6	16	16
28JUN82	0	0	0	0	0	0	0	0	0	0
ST. CROP										
S.E.	0	0	0	0	0	0	0	0	0	0
NO. TOWS	1	9	8	3	14	6	4	6	16	16
05JUL82	0	0	0	127	127	0	0	0	0	0
ST. CROP										
S.E.	0	0	0	127	127	0	0	0	0	0
NO. TOWS	1	9	8	3	14	6	4	6	16	16
TOTAL	0	0	0	127	127	0	0	0	0	0
ST. CROP										
S.E.	0	0	0	127	127	0	0	0	0	0
NO. TOWS	19	67	48	27	109	40	43	42	128	128

N -- STRATUM NOT SAMPLED

TABLE B-15 (CONTINUED).

WHITE PERCH

WEEK BEGINNING MONDAY	INDIAN POINT		WEST POINT		CORNWALL		YOUNG-OF-THE-YEAR	
	S	B	R	S	R	S	B	R
10MAY82	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0
S.E. TOWS	4	6	37	4	31	5	13	23
17MAY82	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0
S.E. TOWS	4	7	38	4	31	5	12	23
24MAY82	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0
S.E. TOWS	3	6	24	7	23	5	8	18
31MAY82	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0
S.E. TOWS	3	6	24	7	24	5	9	18
07JUN82	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0
S.E. TOWS	3	6	23	8	22	5	8	19
14JUN82	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0
S.E. TOWS	5	5	26	10	25	3	10	26
21JUN82	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0
S.E. TOWS	5	5	25	8	25	3	12	27
28JUN82	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0
S.E. TOWS	5	5	26	9	25	3	14	27
05JUL82	26	61	307	27	259	45	226	411
ST. CROP	11	61	119	13	91	26	54	97
S.E. TOWS	5	5	26	9	24	3	11	28
10IAL	26	61	307	65	277	45	275	515
ST. CROP	11	61	119	31	93	26	66	118
S.E. TOWS	37	51	249	66	230	37	93	209

N -- STRATUM NOT SAMPLED

TABLE B-15 (CONTINUED).

YOUNG-OF-THE-YEAR

WHITE PERCH

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

N -- STRATUM NOT SAMPLED

TABLE B-15 (CONTINUED).
 WHITE PERCH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	WHITE PERCH			SAUGERTIES			CATSKILL		
	S	B	C	R	S	B	C	R	
10MAY82	N	0	0	0	N	0	0	0	
	N	0	0	0	N	0	0	0	
	N	3	3	6	N	3	3	6	
17MAY82	N	0	0	0	N	0	0	0	
	N	0	0	0	N	0	0	0	
	N	3	3	6	N	3	3	6	
24MAY82	N	0	0	0	N	0	0	0	
	N	0	0	0	N	0	0	0	
	N	5	3	8	N	3	3	6	
31MAY82	N	0	0	0	N	0	0	0	
	N	0	0	0	N	0	0	0	
	N	5	3	8	N	3	3	6	
07JUN82	N	0	0	0	N	0	0	0	
	N	0	0	0	N	0	0	0	
	N	5	3	8	N	3	3	6	
14JUN82	N	0	0	0	N	0	0	0	
	N	0	0	0	N	0	0	0	
	N	4	1	5	N	3	3	6	
21JUN82	N	0	0	0	N	0	0	0	
	N	0	0	0	N	0	0	0	
	N	4	2	6	N	3	3	6	
28JUN82	N	0	152	152	N	0	0	0	
	N	0	152	152	N	0	0	0	
	N	4	2	6	N	3	3	6	
05JUL82	N	0	0	0	N	0	0	0	
	N	0	0	0	N	0	0	0	
	N	4	2	6	N	3	3	6	
TOTAL	N	0	152	152	N	0	0	0	
	N	0	152	152	N	0	0	0	
	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		
	S	B	ALBANY	C	R	S	B	COMBINED	C	R			
10MAY82	N	0	0	N	0	0	0	0	0	0	0	0	
	N	0	0	N	0	0	0	0	0	0	0	0	
	N	5	5	N	5	21	65	108	194				
17MAY82	N	0	0	N	0	0	0	0	0	0	0	0	
	N	0	0	N	0	0	0	0	0	0	0	0	
	N	5	5	N	5	21	66	108	195				
24MAY82	N	0	0	N	0	0	0	0	0	0	0	0	
	N	0	0	N	0	0	0	0	0	0	0	0	
	N	3	3	N	3	19	68	99	186				
31MAY82	N	0	0	N	0	0	0	0	0	0	0	0	
	N	0	0	N	0	0	0	0	0	0	0	0	
	N	3	3	N	3	19	68	99	186				
07JUN82	N	0	0	N	0	0	0	0	0	0	0	0	
	N	0	0	N	0	0	0	0	0	0	0	0	
	N	3	3	N	3	19	68	99	186				
14JUN82	N	0	0	N	0	0	0	0	0	0	0	0	
	N	0	0	N	0	0	0	0	0	0	0	0	
	N	3	3	N	3	16	62	109	187				
21JUN82	N	0	0	N	0	0	0	0	0	0	0	0	
	N	0	0	N	0	0	0	0	0	0	0	0	
	N	3	3	N	3	16	62	108	186				
28JUN82	N	0	0	N	0	0	530	386	917				
	N	0	0	N	0	0	308	205	371				
	N	3	3	N	3	16	61	110	187				
05JUL82	N	0	0	N.	0	198	2190	3951	6339				
	N	0	0	N	0	130	719	1488	1657				
	N	3	3	N	3	16	62	109	187				
TOTAL	N	0	0	N	0	198	2720	4338	7256				
	N	0	0	N	0	130	782	1502	1698				
	N	31	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						TAPPAN ZEE			CROTON-HAVERSTRAW		
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	0	N	0	0	221	0	0	221	46	0	0	46
	0	N	0	0	98	0	0	98	30	0	0	30
	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	0	N	0	0	0	0	0	0	9	0	0	9
	0	N	0	0	0	0	0	0	9	0	0	9
	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	0	N	0	0	13	22	0	35	0	0	0	0
	0	N	0	0	13	22	0	26	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	0	N	0	0	233	22	0	256	56	0	0	56
	0	N	0	0	99	22	0	102	31	0	0	31
	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-16 (CONTINUED).

WHITE PERCH

WEEK BEGINNING MONDAY	INDIAN POINT			WEST POINT			CORNWALL			YOUNG-OF-THE-YEAR		
	S	B	C	R	S	N	B	C	R	S	B	C
09AUG82	46 13 6	30 19 5	0 0 3	76 23 14	N N N	14 14 5	498 257 3	513 257 8	70 36 5	428 73 5	0 0 3	498 82 13
23AUG82	0 0 6	13 13 5	0 0 3	13 13 14	N N N	67 43 5	0 0 3	67 43 8	0 0 5	150 45 5	0 0 3	150 45 13
06SEP82	0 0 6	19 19 5	0 0 3	19 19 14	N N N	0 0 5	0 0 3	0 0 8	35 14 5	0 0 5	0 0 3	35 14 13
20SEP82	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 5	0 0 3	0 0 8	23 19 5	16 16 5	0 0 3	38 24 13
04OCT82	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 5	0 0 3	0 0 8	4 4 5	136 60 5	0 0 3	140 60 13
TOTAL	46 13 30	63 30 25	0 0 15	109 33 70	N N N	81 45 25	498 257 15	580 260 40	132 44 25	729 106 25	0 0 15	861 114 65

N -- STRATUM NOT SAMPLED

TABLE B-16 (CONTINUED).

WHITE PERCH

WEEK BEGINNING MONDAY	POUGHKEEPSIE		HYDE PARK		KINGSTON		YOUNG-OF-THE-YEAR		
	S	B	S	B	S	B	R	C	
09AUG82	ST. CROP S.E. NO. TOWS	374 248 5	0 0 3	93 42 6	0 0 4	155 49 9	93 42 10	156 71 6	311 86 15
23AUG82	ST. CROP S.E. NO. TOWS	127 96 5	0 0 3	94 51 6	0 0 4	103 29 9	94 51 10	42 42 6	145 51 15
06SEP82	ST. CROP S.E. NO. TOWS	231 83 5	0 0 3	426 174 6	702 478 4	1113 474 9	1128 508 10	34 34 6	1147 475 15
20SEP82	ST. CROP S.E. NO. TOWS	532 190 5	0 0 3	234 38 6	0 0 4	238 118 9	234 38 10	0 0 6	238 118 15
04OCT82	ST. CROP S.E. NO. TOWS	75 46 5	0 0 3	310 87 6	299 173 4	59 48 9	609 194 10	0 0 6	59 48 15
TOTAL	ST. CROP S.E. NO. TOWS	1339 341 25	0 0 15	1157 209 30	1001 508 20	1667 494 45	2158 549 50	232 89 30	1899 502 75

N -- STRATUM NOT SAMPLED

TABLE B-16 (CONTINUED).

WHITE PERCH

WEEK BEGINNING MONDAY	SAUGERTIES			CATSKILL				
	S	B	C	R	S	B	C	R
09AUG82	ST. CROP	224	85	309	N	144	0	144
	S.E.	76	54	93	N	62	0	62
	NO. TOWS	12	6	18	N	15	6	21
23AUG82	ST. CROP	264	0	264	N	51	0	51
	S.E.	168	0	168	N	23	0	23
	NO. TOWS	12	6	18	N	15	6	21
06SEP82	ST. CROP	775	0	775	N	348	0	348
	S.E.	369	0	369	N	248	0	248
	NO. TOWS	12	6	18	N	15	6	21
20SEP82	ST. CROP	441	0	441	N	93	31	124
	S.E.	181	0	181	N	39	31	50
	NO. TOWS	12	6	18	N	15	6	21
04OCT82	ST. CROP	223	0	223	N	51	0	51
	S.E.	76	0	76	N	23	0	23
	NO. TOWS	12	6	18	N	15	6	21
TOTAL	ST. CROP	1927	85	2012	N	687	31	718
	S.E.	457	54	460	N	261	31	263
	NO. TOWS	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-16 (CONTINUED).
 WHITE PERCH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	ALBANY			COMBINED			
	S	B	C	S	B	C	
09AUG82	N	159	N	159	1621	740	2743
	N	99	N	99	302	271	421
	N	8	N	8	86	50	200
23AUG82	N	67	N	67	935	42	986
	N	33	N	33	215	42	219
	N	8	N	8	86	50	200
06SEP82	N	156	N	156	3068	736	3840
	N	133	N	133	691	479	841
	N	8	N	8	86	50	200
20SEP82	N	21	N	21	1574	31	1628
	N	21	N	21	294	31	296
	N	8	N	8	86	50	200
04OCT82	N	545	N	545	1423	299	1738
	N	156	N	156	216	173	277
	N	8	N	8	86	50	200
TOTAL	N	949	N	949	8621	1848	10936
	N	231	N	231	865	579	1047
	N	40	N	40	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.

WEEK BEGINNING MONDAY	WHITE PERCH YOUNG-OF-YEAR												
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	ST. CROP S.E. NO. TOWS	1874 1086 24	102 47 14	114 52 5	28 17 5	7 4 6	31 24 5	41 24 5	38 34 5	138 62 9	340 332 10	87 65 7	2808 1142 100
30AUG82	ST. CROP S.E. NO. TOWS	1102 573 24	400 138 14	144 94 5	59 33 5	27 23 6	69 43 5	31 13 5	139 86 5	187 78 9	92 54 10	83 81 7	2334 619 100
13SEP82	ST. CROP S.E. NO. TOWS	683 327 24	532 184 14	81 59 5	174 125 5	28 26 6	24 14 5	24 18 5	10 5 5	66 27 9	63 36 10	0 0 7	1688 404 100
27SEP82	ST. CROP S.E. NO. TOWS	555 133 24	415 158 14	275 141 5	60 23 5	7 7 6	38 19 5	16 10 5	31 20 5	39 24 9	140 68 10	0 0 7	1578 263 100
11OCT82	ST. CROP S.E. NO. TOWS	468 195 24	570 289 14	72 43 5	32 28 5	18 9 6	47 14 5	7 4 5	31 25 5	0 0 9	169 148 10	6 6 7	1430 383 100
TOTAL	ST. CROP S.E. NO. TOWS	4682 1292 120	2019 405 70	686 192 25	353 135 25	87 37 30	210 57 25	120 34 25	250 98 25	431 106 45	805 375 50	177 104 35	9839 1437 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
 AUG 16 - AUG 22

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685
 ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182
 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	SHORE ZONE	ST. CROP SE	SHOAL (10'-20')	STRATUM			REGIONAL TOTALS
				BOTTOM	CHANNEL		
YONKERS	56 26	ST. CROP SE	0 0	0 * 0 *	0 0	56 26	
TAPPAN ZEE	17352 10051	ST. CROP SE	0 0	0 0	0 0	17352 10051	
CROTON-HAVERSTRAW	943 436	ST. CROP SE	14 14	0 0	0 0	956 436	
INDIAN POINT	1058 481	ST. CROP SE	0 0	27 27	0 0	1085 482	
WEST POINT	259 160	ST. CROP SE	9 * 6 *	122 77	0 0	390 177	
CORNWALL	66 33	ST. CROP SE	0 0	300 90	0 0	366 96	
POUGHKEEPSIE	289 226	ST. CROP SE	17 * 12 *	232 175	0 0	537 286	
HYDE PARK	383 218	ST. CROP SE	9 * 5 *	175 95	0 0	568 238	
KINGSTON	351 311	ST. CROP SE	40 * 11 *	152 42	84 84	627 325	
SAUGERTIES	1282 574	ST. CROP SE	127 * 81 *	358 227	0 0	1768 623	
CATSKILL	3151 3071	ST. CROP SE	34 * 15 *	56 25	0 0	3242 3071	
ALBANY	809 599	ST. CROP SE	36 * 18 *	25 12	60 * 29 *	930 600	
STRATUM TOTAL	25998 10573	ST. CROP SE	286 * 87 *	1447 330	144 * 89 *	27875 10579	

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

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

WHITE PERCH
 TABLE B-18 (CONTINUED).
 YOUNG-OF-THE-YEAR
 AUG 30 - SEP 5

REGION	SHORE ZONE		SHOAL (10'-20')		STRATUM		CHANNEL	REGIONAL TOTALS
	ST. SE	CROP	ST. SE	CROP	BOTTOM	CHANNEL		
YONKERS	0	0	0	0	0	0	0	0
TAPPAN ZEE	10201	5305	0	0	0	0	0	10201 5305
CROTON-HAVERSTRAW	3699	1281	7	7	0	0	0	3706 1281
INDIAN POINT	1331	869	0	0	33	33	0	1364 869
WEST POINT	547	307	5	3	61	39	0	612 309
CORNWALL	247	210	27	11	150	45	0	423 215
POUGHKEEPSIE	644	399	23	12	327	163	0	994 432
HYDE PARK	292	121	26	11	485	210	702	1505 536
KINGSTON	1291	793	235	97	903	373	76	2505 885
SAUGERTIES	1734	723	251	129	705	364	0	2689 820
CATSKILL	856	501	134	91	220	149	0	1210 530
ALBANY	773	752	60	45	42	31	100	976 758
STRATUM TOTAL	21613	5729	767	192	2925	608	879	26184 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 #---STD ERROR COULD NOT BE CALCULATED
 *---ESTIMATED VALUE
 N--NO SAMPLE TAKEN

WHITE PERCH
 TABLE B-18 (CONTINUED).
 YOUNG-OF-THE-YEAR
 SEP 6 - SEP 12

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685
 ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182
 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			REGIONAL TOTALS	
	SHORE ZONE	SHOAL (10'-20')	BOTTOM		
YONKERS	ST. CROP SE	14	0 *	0 *	14
		14	0 *	0 *	14
TAPPAN ZEE	ST. CROP SE	6327	0 *	0 *	6327
		3025	0 *	0 *	3025
CROTON-HAVERSTRAW	ST. CROP SE	4926	0 *	0 *	4926
		1707	0 *	0 *	1707
INDIAN POINT	ST. CROP SE	751	0 *	19 *	770
		547	0 *	19 *	548
WEST POINT	ST. CROP SE	1610	0 *	0 *	1610
		1158	0 *	0 *	1158
CORNWALL	ST. CROP SE	263	44 *	16 *	322
		244	25 *	16 *	246
POUGHKEEPSIE	ST. CROP SE	223	50 *	696 *	969
		134	18 *	249 *	284
HYDE PARK	ST. CROP SE	225	33 *	616 *	1576
		165	11 *	198 *	543
KINGSTON	ST. CROP SE	96	261 *	1003 *	1393
		46	114 *	439 *	457
SAUGERTIES	ST. CROP SE	614	294 *	825 *	1733
		246	133 *	373 *	466
CATSKILL	ST. CROP SE	583	148 *	243 *	1005
		332	97 *	158 *	382
ALBANY	ST. CROP SE	0	48 *	34 *	161
		0	42 *	29 *	86
STRATUM TOTAL	ST. CROP SE	15632	877 *	3452 *	20808
		3739	207 *	678 *	3836

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685
 ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182
 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				REGIONAL TOTALS
	SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	
YONKERS	ST. CROP SE 14	0	0 *	0	14
	ST. CROP SE 14	0	0 *	0	14
TAPPAN ZEE	ST. CROP SE 6327	0	0	0	6327
	ST. CROP SE 3025	0	0	0	3025
GROTON-HAVERSTRAW	ST. CROP SE 4926	0	0	0	4926
	ST. CROP SE 1707	0	0	0	1707
INDIAN POINT	ST. CROP SE 751	0	0	0	751
	ST. CROP SE 547	0	0	0	547
WEST POINT	ST. CROP SE 1610	0 *	0	0	1610
	ST. CROP SE 1158	0 *	0	0	1158
CORNWALL	ST. CROP SE 263	34	31	0	328
	ST. CROP SE 244	28	31	0	247
POUGHKEEPSIE	ST. CROP SE 223	69 *	972	0	1264
	ST. CROP SE 134	25 *	347	0	373
HYDE PARK	ST. CROP SE 225	24 *	437	0	685
	ST. CROP SE 165	4 *	71	0	179
KINGSTON	ST. CROP SE 96	92 *	353	0	540
	ST. CROP SE 46	45 *	175	0	186
SAUGERTIES	ST. CROP SE 614	213 *	599	0	1426
	ST. CROP SE 246	87 *	245	0	359
CATSKILL	ST. CROP SE 583	63 *	102	63	810
	ST. CROP SE 332	26 *	43	63	342
ALBANY	ST. CROP SE 0	11 *	8	19 *	38
	ST. CROP SE 0	11 *	8	19 *	23
STRATUM TOTAL	ST. CROP SE 15632	505 *	2501	81 *	18720
	SE 3739	109 *	468	65 *	3770

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

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

WHITE PERCH (CONTINUED).
 YOUNG-OF-THE-YEAR
 SEP 27 - OCT 3

REGION	SHORE ZONE		SHOAL (10'-20')		STRATUM		REGIONAL TOTALS
	ST. CROP	SE	ST. CROP	SE	BOTTOM	CHANNEL	
YONKERS	28	0 *	0 *	0 *	0 *	0 *	28
	28	0 *	0 *	0 *	0 *	0 *	28
TAPPAN ZEE	5135	10 *	22 *	22 *	22 *	0 *	5167
	1231	10 *	22 *	22 *	22 *	0 *	1231
CROTON-HAVERS TRAW	3841	0 *	0 *	0 *	0 *	0 *	3841
	1460	0 *	0 *	0 *	0 *	0 *	1460
INDIAN POINT	2543	0 *	0 *	0 *	0 *	0 *	2543
	1308	0 *	0 *	0 *	0 *	0 *	1308
WEST POINT	551	0 *	0 *	0 *	0 *	0 *	551
	213	0 *	0 *	0 *	0 *	0 *	213
CORNWALL	66	20 *	152 *	152 *	152 *	0 *	237
	66	17 *	75 *	75 *	75 *	0 *	101
POUGHKEEPSIE	355	39 *	555 *	555 *	555 *	0 *	949
	173	15 *	216 *	216 *	216 *	0 *	277
HYDE PARK	145	27 *	508 *	508 *	508 *	299 *	979
	91	6 *	116 *	116 *	116 *	173 *	228
KINGSTON	287	57 *	220 *	220 *	220 *	0 *	564
	183	32 *	123 *	123 *	123 *	0 *	223
SAUGERTIES	361	160 *	451 *	451 *	451 *	0 *	972
	218	62 *	174 *	174 *	174 *	0 *	286
CATSKILL	1293	49 *	79 *	79 *	79 *	31 *	1453
	632	21 *	34 *	34 *	34 *	31 *	634
ALBANY	0	153 *	108 *	108 *	108 *	255 *	515
	0	48 *	34 *	34 *	34 *	79 *	99
STRATUM TOTAL	14605	515 *	2094 *	2094 *	2094 *	585 *	17800
	2434	91 *	338 *	338 *	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 #--STD ERROR COULD NOT BE CALCULATED

WHITE PERCH (CONTINUED).
 YOUNG-OF-THE-YEAR
 OCT 4 - OCT 10

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685
 ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182
 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	SHORE ZONE		SHOAL (10',-20')		STRATUM		REGIONAL TOTALS
	ST. CROP	SE	ST. CROP	SE	BOTTOM	CHANNEL	
YONKERS	98	81	0	0	0	0	98
							81
TAPPAN ZEE	4329	1803	19	19	45	0	4393
							1803
CROTON-HAVERSTRAW	5282	2677	0	0	0	0	5282
							2677
INDIAN POINT	665	396	0	0	0	0	665
							396
WEST POINT	298	256	0	0	0	0	298
							256
CORNWALL	164	79	6	6	272	0	442
							144
POUGHKEEPSIE	434	129	10	6	138	0	581
							155
HYDE PARK	64	34	31	9	579	598	1272
						347	384
KINGSTON	287	232	23	19	87	0	396
							243
SAUGERTIES	0	0	108	37	303	0	411
							110
CATSKILL	1567	1368	35	15	57	0	1658
							1369
ALBANY	54	54	295	84	207	491	1047
						140	182
STRATUM TOTAL	13241	3549	526	98	1687	1089	16542
						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
 #--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											
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			YEARLING		
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	0	N	0	0	202	0	0	202	40	0	0	40
S.E.	0	N	0	0	77	0	0	77	16	0	0	16
NO. TOWS	7	N	5	12	30	8	8	46	16	0	3	27
23AUG82	0	N	0	0	11	0	0	11	9	52	0	61
S.E.	0	N	0	0	11	0	0	11	9	34	0	36
NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	0	N	0	0	35	0	0	35	0	0	0	0
S.E.	0	N	0	0	20	0	0	20	0	0	0	0
NO. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	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	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	0	N	0	0	248	0	0	248	50	52	0	101
S.E.	0	N	0	0	80	0	0	80	18	34	0	39
NO. TOWS	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-19 (CONTINUED).

WEEK BEGINNING MONDAY	INDIAN POINT			WHITE PERCH			YEARLING			CORNWALL			
	S	B		R	S	N	B	S	R	B	C		R
		ST.	S.E.								NO.	TOWS	
09AUG82	15	0	0	15	N	0	0	0	0	4	74	0	78
	15	0	0	15	N	0	0	0	0	4	36	0	36
	6	5	3	14	N	5	3	8	8	5	5	3	13
23AUG82	0	13	0	13	N	0	0	0	0	4	213	0	217
	0	13	0	13	N	0	0	0	0	4	122	0	122
	6	5	3	14	N	5	3	8	8	5	5	3	13
06SEP82	20	0	0	20	N	0	0	0	0	80	30	0	110
	13	0	0	13	N	0	0	0	0	52	30	0	60
	6	5	3	14	N	5	3	8	8	5	5	3	13
20SEP82	0	0	0	0	N	0	0	0	0	34	16	0	50
	0	0	0	0	N	0	0	0	0	21	16	0	26
	6	5	3	14	N	5	3	8	8	5	5	3	13
04OCT82	0	0	0	0	N	0	0	0	0	12	36	0	48
	0	0	0	0	N	0	0	0	0	8	36	0	37
	6	5	3	14	N	5	3	8	8	5	5	3	13
TOTAL	35	13	0	49	N	0	0	0	0	133	370	0	503
	20	13	0	24	N	0	0	0	0	57	137	0	148
	30	25	15	70	N	25	15	40	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-19 (CONTINUED).

WEEK BEGINNING MONDAY	POUGHKEEPSIE			WHITE PERCH			HYDE PARK			YEARLING			KINGSTON			
	S	B	C	R	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	N	328	0	328	N	392	138	531	N	147	0	147	N	147	0	147
	N	225	0	225	N	139	138	196	N	38	0	38	N	38	0	38
	N	5	3	8	N	6	4	10	N	9	6	9	N	9	6	15
23AUG82	N	207	0	207	N	35	0	35	N	79	84	79	N	79	84	163
	N	99	0	99	N	23	0	23	N	29	84	29	N	29	84	89
	N	5	3	8	N	6	4	10	N	9	6	9	N	9	6	15
06SEP82	N	299	0	299	N	247	702	949	N	634	34	634	N	634	34	668
	N	98	0	98	N	69	478	483	N	225	34	225	N	225	34	227
	N	5	3	8	N	6	4	10	N	9	6	9	N	9	6	15
20SEP82	N	558	0	558	N	135	0	135	N	286	0	286	N	286	0	286
	N	336	0	336	N	54	0	54	N	61	0	61	N	61	0	61
	N	5	3	8	N	6	4	10	N	9	6	9	N	9	6	15
04OCT82	N	269	0	269	N	269	71	339	N	273	0	273	N	273	0	273
	N	140	0	140	N	114	71	134	N	79	0	79	N	79	0	79
	N	5	3	8	N	6	4	10	N	9	6	9	N	9	6	15
TOTAL	N	1661	0	1661	N	1079	911	1989	N	1420	118	1420	N	1420	118	1539
	N	450	0	450	N	201	502	541	N	250	91	250	N	250	91	266
	N	25	15	40	N	30	20	50	N	45	30	45	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
04OCT82	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).

WEEK BEGINNING MONDAY	WHITE PERCH			YEARLING				
	S	B	C	R	S	B	C	R
09AUG82	N	102	N	102	262	1342	138	1742
	N	82	N	82	80	290	138	332
	N	8	N	8	64	86	50	200
23AUG82	N	43	N	43	24	735	84	843
	N	28	N	28	15	173	84	193
	N	8	N	8	64	86	50	200
06SEP82	N	322	N	322	135	1946	736	2817
	N	84	N	84	57	320	479	578
	N	8	N	8	64	86	50	200
20SEP82	N	489	N	489	34	2134	0	2168
	N	241	N	241	21	503	0	503
	N	8	N	8	64	86	50	200
04OCT82	N	544	N	544	12	1910	71	1992
	N	184	N	184	8	341	71	348
	N	8	N	8	64	86	50	200
TOTAL	N	1499	N	1499	467	8067	1029	9563
	N	326	N	326	102	765	510	925
	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.

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS					CS	AL	COMBINED
						CW	PK	HP	KG	SG			
16AUG82	0	303	123	114	8	14	0	1	0	98	12	161	834
	0	89	73	48	5	9	0	1	0	33	12	144	193
	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	0	263	544	197	16	18	16	0	38	41	77	17	1226
	0	90	323	98	4	10	16	0	21	17	47	13	354
	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	0	204	54	63	20	4	9	4	5	55	26	12	454
	0	72	34	50	10	4	5	2	5	20	26	12	101
	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	3	184	926	52	18	7	11	1	10	21	0	0	1233
	3	58	714	32	15	7	4	0	6	16	0	0	717
	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	0	89	476	72	1	7	48	3	3	8	39	0	747
	0	41	299	50	1	4	30	3	2	4	28	0	309
	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	3	1043	2122	498	63	50	84	10	57	222	153	190	4495
	3	162	842	134	20	16	34	4	22	45	62	145	885
	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.

WEEK BEGINNING MONDAY	WHITE PERCH						OLDER							
	S	B	C	R	S	TAPPAN ZEE B C	R	S	B	C	R	S	B	C
09AUG82	17	N	0	17	2344	74	2418	46	246	0	292	0	246	0
	11	N	0	11	578	51	581	30	132	0	135	0	132	0
	7	N	5	12	30	8	46	16	8	3	27	3	8	3
23AUG82	0	N	0	0	130	42	172	10	268	0	278	0	268	0
	0	N	0	0	46	27	54	10	100	0	100	0	100	0
	7	N	5	12	30	8	46	16	8	3	27	3	8	3
06SEP82	25	N	0	25	265	294	559	19	151	0	170	0	151	0
	16	N	0	16	77	138	158	13	75	0	76	0	75	0
	7	N	5	12	30	8	46	16	8	3	27	3	8	3
20SEP82	53	N	0	53	205	124	328	0	72	0	72	0	72	0
	41	N	0	41	79	69	105	0	37	0	37	0	37	0
	7	N	5	12	30	8	46	16	8	3	27	3	8	3
04OCT82	96	N	0	96	443	250	693	0	64	0	64	0	64	0
	73	N	0	73	143	89	168	0	64	0	64	0	64	0
	7	N	5	12	30	8	46	16	8	3	27	3	8	3
TOTAL	190	N	0	190	3386	784	4170	74	801	0	876	0	801	0
	86	N	0	86	608	187	636	34	196	0	199	0	196	0
	35	N	25	60	150	40	230	80	40	15	135	15	40	15

N -- STRATUM NOT SAMPLED

TABLE B-21 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE PERCH			OLDER			CORNWALL					
	INDIAN POINT			WEST POINT			CORNWALL					
	S	R	S	B	C	R	B	C	R			
09AUG82	ST. CROP	15	0	26	0	42	0	15	54	151	0	205
	S.E. NO. TOWS	10	0	26	0	28	0	15	22	86	0	88
		6	3	5	3	14	3	8	5	5	3	13
23AUG82	ST. CROP	0	0	135	0	135	0	0	0	196	0	196
	S.E. NO. TOWS	0	0	58	0	58	0	0	0	83	0	83
		6	3	5	3	14	3	8	5	5	3	13
06SEP82	ST. CROP	12	0	116	0	127	0	0	44	36	0	80
	S.E. NO. TOWS	12	0	116	0	116	0	0	25	36	0	44
		6	3	5	3	14	3	8	5	5	3	13
20SEP82	ST. CROP	26	0	29	0	55	0	0	116	32	0	148
	S.E. NO. TOWS	15	0	18	0	24	0	0	46	19	0	50
		6	3	5	3	14	3	8	5	5	3	13
04OCT82	ST. CROP	5	0	97	0	102	0	0	61	40	0	101
	S.E. NO. TOWS	5	0	64	0	64	0	0	39	25	0	46
		6	3	5	3	14	3	8	5	5	3	13
TOTAL	ST. CROP	57	0	404	0	461	0	15	275	454	0	729
	S.E. NO. TOWS	22	0	148	0	150	0	15	69	128	0	145
		30	15	25	15	70	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-21 (CONTINUED).

WEEK BEGINNING MONDAY	POUGHKEEPSIE			WHITE PERCH			OLDER			KINGSTON		
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	N	100	0	100	N	174	138	313	N	687	201	888
	N	67	0	67	N	105	138	173	N	321	95	335
	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	N	604	0	604	N	398	0	398	N	583	410	993
	N	254	0	254	N	237	0	237	N	163	373	407
	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	N	291	0	291	N	150	758	907	N	921	129	1050
	N	98	0	98	N	47	374	377	N	194	94	215
	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	N	1156	0	1156	N	374	136	510	N	719	67	786
	N	370	0	370	N	50	136	145	N	221	42	225
	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	N	306	0	306	N	344	299	643	N	431	0	431
	N	188	0	188	N	140	173	223	N	85	0	85
	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	N	2458	0	2458	N	1440	1331	2771	N	3341	807	4148
	N	500	0	500	N	303	456	547	N	473	398	618
	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			CATSKILL			R
	SAUGERTIES			R			B			
	S	B	C	S	R	S	B	C		
09AUG82	ST. CROP	N	656	88	744	N	789	32	821	
	S.E. TOWS	N	156	88	179	N	202	32	205	
		N	12	6	18	N	15	6	21	
23AUG82	ST. CROP	N	1047	84	1131	N	863	33	896	
	S.E. TOWS	N	265	84	279	N	200	33	203	
		N	12	6	18	N	15	6	21	
06SEP82	ST. CROP	N	736	83	819	N	824	36	860	
	S.E. TOWS	N	236	53	242	N	111	36	117	
		N	12	6	18	N	15	6	21	
20SEP82	ST. CROP	N	1106	108	1214	N	768	190	958	
	S.E. TOWS	N	498	72	503	N	121	98	156	
		N	12	6	18	N	15	6	21	
04OCT82	ST. CROP	N	1045	0	1045	N	688	31	719	
	S.E. TOWS	N	333	0	333	N	135	31	138	
		N	12	6	18	N	15	6	21	
TOTAL	ST. CROP	N	4590	364	4953	N	3932	323	4255	
	S.E. TOWS	N	713	151	729	N	355	119	374	
		N	60	30	90	N	75	30	105	

N -- STRATUM NOT SAMPLED

TABLE B-21 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE PERCH			OLDER			COMBINED		
	S	B	ALBANY C	R	S	B	C	R	
09AUG82	ST. CROP	N	722	N	722	2476	3641	460	6577
	S.E. NO. TOWS	N	215	N	215	580	509	192	795
		N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	888	N	888	139	5025	528	5692
	S.E. NO. TOWS	N	279	N	279	47	598	384	712
		N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	1291	N	1291	364	4809	1006	6179
	S.E. NO. TOWS	N	322	N	322	84	510	391	648
		N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	1132	N	1132	399	5513	501	6413
	S.E. NO. TOWS	N	345	N	345	101	759	187	788
		N	8	N	8	64	86	50	200
04OCT82	ST. CROP	N	1071	N	1071	605	4336	330	5271
	S.E. NO. TOWS	N	253	N	253	165	521	176	575
		N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	5104	N	5104	3983	23324	2824	30131
	S.E. NO. TOWS	N	641	N	641	619	1313	635	1584
		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.

WEEK BEGINNING MONDAY	WHITE PERCH														OLDER		
	YK	TZ	CH	IP	WP	REGIONS			HP	KG	SG	CS	AL	COMBINED			
						CW	PK										
16AUG82	0	206	348	52	12	32	11	4	12	101	10	155	943				
	0	69	301	36	4	17	10	2	6	36	5	149	347				
	5	24	14	5	5	6	5	5	5	9	10	7	100				
30AUG82	0	70	36	6	6	32	30	8	24	96	144	70	521				
	0	33	15	6	3	12	14	2	8	34	76	38	101				
	5	24	14	5	5	6	5	5	5	9	10	7	100				
13SEP82	0	267	31	9	3	11	28	2	17	20	16	14	417				
	0	101	27	7	2	7	17	1	9	9	14	10	108				
	5	24	14	5	5	6	5	5	5	9	10	7	100				
27SEP82	29	1867	92	15	13	7	48	4	12	10	0	0	2096				
	11	1329	41	9	13	4	24	2	4	6	0	0	1330				
	5	24	14	5	5	6	5	5	5	9	10	7	100				
11OCT82	41	131	307	42	1	25	48	9	28	14	35	0	680				
	28	47	238	33	1	8	20	9	21	8	12	0	249				
	5	24	14	5	5	6	5	5	5	9	10	7	100				
TOTAL	69	2541	814	123	34	107	166	28	93	240	205	239	4658				
	30	1335	388	51	14	24	40	10	26	51	78	154	1404				
	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.

WEEK BEGINNING MONDAY	AMERICAN SHAD											
	YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
	S	B	R	C	S	B	R	C	S	B	R	C
10MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	6	3	4	3	3	10	6	3	5	14
17MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	6	3	4	3	3	10	6	3	4	13
24MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	6	3	4	4	4	11	5	4	3	12
31MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	6	3	4	4	4	11	5	4	3	12
07JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	6	3	4	4	4	11	5	4	3	12
14JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	9	3	5	6	6	14	4	6	6	16
21JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	10	3	5	6	6	14	4	6	6	16
28JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	9	3	5	6	6	14	4	6	6	16
05JUL82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	9	3	5	6	6	14	4	6	6	16
TOTAL	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	19	N	67	27	40	42	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-23 (CONTINUED).

AMERICAN SHAD

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

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

N -- STRATUM NOT SAMPLED

TABLE B-23 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED

TABLE B-23 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD										EGGS	
	S	B	ALBANY	C	R	S	B	COMBINED	C	R		
10MAY82	N	104239	N	104239	N	104239	0	338565	10698	349263		
	N	95390	N	95390	N	95390	0	161379	4103	161431		
	N	5	N	5	N	5	21	65	108	194		
17MAY82	N	4038	N	4038	N	4038	0	78286	636	78922		
	N	2556	N	2556	N	2556	0	70587	527	70589		
	N	5	N	5	N	5	21	66	108	195		
24MAY82	N	69	N	69	N	69	0	18070	21813	39882		
	N	69	N	69	N	69	0	6406	15590	16855		
	N	3	N	3	N	3	19	68	99	186		
31MAY82	N	1042	N	1042	N	1042	0	1687	30	1717		
	N	368	N	368	N	368	0	444	30	445		
	N	3	N	3	N	3	19	68	99	186		
07JUN82	N	2311	N	2311	N	2311	0	2323	0	2323		
	N	2311	N	2311	N	2311	0	2311	0	2311		
	N	3	N	3	N	3	19	68	99	186		
14JUN82	N	354	N	354	N	354	0	448	0	448		
	N	354	N	354	N	354	0	366	0	366		
	N	3	N	3	N	3	16	62	109	187		
21JUN82	N	132	N	132	N	132	0	132	0	132		
	N	66	N	66	N	66	0	66	0	66		
	N	3	N	3	N	3	16	62	108	186		
28JUN82	N	0	N	0	N	0	0	0	0	0		
	N	0	N	0	N	0	0	0	0	0		
	N	3	N	3	N	3	16	61	110	187		
05JUL82	N	0	N	0	N	0	0	0	0	0		
	N	0	N	0	N	0	0	0	0	0		
	N	3	N	3	N	3	16	62	109	187		
TOTAL	N	112184	N	112184	N	112184	0	439510	33176	472686		
	N	95453	N	95453	N	95453	0	176273	16129	177010		
	N	31	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.

WEEK BEGINNING MONDAY	AMERICAN SHAD												YOLK-SAC LARVAE			
	S			YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAM			R			
	S	B	C	R	S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	3	10	6	3	5	14	6	3	5	14
17MAY82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	3	10	6	3	4	13	6	3	4	13
24MAY82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12	5	4	3	12
31MAY82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12	5	4	3	12
07JUN82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	4	13	5	4	4	13
14JUN82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	4	6	16	4	6	6	16
21JUN82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	N	9	10	3	5	6	14	4	4	6	16	4	6	6	16
28JUN82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	4	6	16	4	6	6	16
05JUL82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	4	6	16	4	6	6	16
TOTAL	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	19	N	48	67	27	40	42	109	43	42	43	128	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			R		
	S	B	C	R	S	B	C	R	S		B	C
10MAY82	0	0	0	0	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	4	6	27	37	4	31	35	5	0	13	5	23
17MAY82	0	0	0	0	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	4	7	27	38	4	31	35	5	0	12	6	23
24MAY82	0	0	0	0	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	3	6	15	24	7	23	30	5	0	8	5	18
31MAY82	0	0	0	0	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	3	6	15	24	7	24	31	5	0	9	4	18
07JUN82	0	0	0	0	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	3	6	14	23	8	22	30	5	0	8	6	19
14JUN82	0	0	0	0	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	5	5	16	26	10	25	35	3	0	10	13	26
21JUN82	0	0	0	0	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	5	5	15	25	8	25	33	3	0	12	12	27
28JUN82	0	0	0	0	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	5	5	16	26	9	25	34	3	0	10	14	27
05JUL82	0	0	0	0	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	5	5	16	26	9	24	33	3	0	11	14	28
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	37	51	161	249	66	230	296	37	0	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-24 (CONTINUED).

YOLK-SAC LARVAE

WEEK
BEGINNING
MONDAY

AMERICAN SHAD

POUGHKEEPSIE

HYDE PARK

KINGSTON

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

N -- STRATIUM NOT SAMPLED

TABLE B-24 (CONTINUED).

YOLK-SAC LARVAE

AMERICAN SHAD

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

N -- STRATUM NOT SAMPLED

TABLE B-24 (CONTINUED).

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

WEEK BEGINNING MONDAY	AMERICAN SHAD												POST YOLK-SAC LARVAE					
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			CROTON-HAVERSTRAW			CROTON-HAVERSTRAW					
	S	B	C	R	S	B	C	R	S	B	C	R	S	B	C	R		
10MAY82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3	N	3	6	3	4	3	10	6	3	5	14	6	3	5	14		
17MAY82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3	N	3	6	3	4	3	10	6	3	4	13	6	3	4	13		
24MAY82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3	N	3	6	3	4	4	11	5	4	3	12	5	4	3	12		
31MAY82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3	N	3	6	3	4	4	11	5	4	3	12	5	4	3	12		
07JUN82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3	N	3	6	3	4	4	11	5	4	3	12	5	4	3	12		
14JUN82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	N	8	9	3	5	6	14	4	4	6	16	4	4	6	16		
21JUN82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	N	9	10	3	5	6	60	4	6	6	16	4	6	6	16		
28JUN82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	N	8	9	3	5	6	14	4	4	6	16	4	4	6	16		
05JUL82	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	N	8	9	3	5	6	14	4	4	6	16	4	4	6	16		
TOTAL	0	N	0	0	0	44	60	104	478	83	524	1085	478	83	524	1085		
	0	N	0	0	0	44	60	74	478	64	183	516	478	64	183	516		
	19	N	48	67	27	40	42	109	43	43	43	128	43	43	43	128		

N -- STRATUM NOT SAMPLED

TABLE B-25
(CONTINUED).

AMERICAN SHAD
POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY	INDIAN POINT			WEST POINT			CORNWALL			
	S	B	C	R	S	C	R	S	B	C
10MAY82	ST. CROP	0	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	0	0	0	0	0	0	0	0
17MAY82	ST. CROP	4	6	27	37	31	35	5	13	5
	S.E. NO. TOWS	0	0	0	0	0	0	0	0	0
24MAY82	ST. CROP	4	7	27	38	31	35	5	12	6
	S.E. NO. TOWS	0	0	0	0	0	0	0	0	0
31MAY82	ST. CROP	3	6	15	24	23	30	5	8	5
	S.E. NO. TOWS	0	0	0	0	0	0	0	0	0
07JUN82	ST. CROP	36	14	706	755	2834	2846	2734	52	2186
	S.E. NO. TOWS	36	14	492	493	2017	2017	1712	28	2082
14JUN82	ST. CROP	5	5	16	26	25	35	3	10	13
	S.E. NO. TOWS	624	120	1975	2719	2043	2093	1115	22	3100
21JUN82	ST. CROP	5	5	16	26	25	35	3	10	13
	S.E. NO. TOWS	741	186	1216	1436	891	903	1252	228	1535
28JUN82	ST. CROP	15	0	181	196	873	958	111	194	216
	S.E. NO. TOWS	9	0	126	126	483	484	78	42	91
05JUL82	ST. CROP	5	5	16	26	25	34	3	10	14
	S.E. NO. TOWS	0	0	0	0	22	22	30	0	90
TOTAL	ST. CROP	2164	320	5120	7605	8950	9448	6274	1037	13509
	S.E. NO. TOWS	919	195	1390	1677	2328	2333	2291	234	3484
		37	51	161	249	230	296	37	93	79

N -- STRATUM NOT SAMPLED

TABLE B-25 (CONTINUED).

AMERICAN SHAD

POST YOLK-SAC LARVAE

WEEK
BEGINNING
MONDAY

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

N -- STRATUM NOT SAMPLED

TABLE B-25
(CONTINUED).

AMERICAN SHAD

WEEK
BEGINNING
MONDAY

POST YOLK-SAC LARVAE

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

N -- STRATUM NOT SAMPLED

TABLE B-25 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD			ALBANY			POST YOLK-SAC LARVAE			COMBINED		
	S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	N	0	N	0	0	0	0	0	0
	S.E. TOWS	N	0	N	0	N	0	0	0	0	0	0
	NO. TOWS	N	5	N	5	N	21	65	108	194		
17MAY82	ST. CROP	N	4699	N	4699	N	0	9409	59265	68674		
	S.E. TOWS	N	1561	N	1561	N	0	2098	13641	13802		
	NO. TOWS	N	5	N	5	N	21	66	108	195		
24MAY82	ST. CROP	N	12885	N	12885	N	19	76383	217407	293809		
	S.E. TOWS	N	12885	N	12885	N	9	23814	52890	58004		
	NO. TOWS	N	3	N	3	N	19	68	99	186		
31MAY82	ST. CROP	N	5363	N	5363	N	29	13500	249107	262636		
	S.E. TOWS	N	1393	N	1393	N	12	3528	57517	57625		
	NO. TOWS	N	3	N	3	N	19	68	99	186		
07JUN82	ST. CROP	N	0	N	0	N	2770	8339	86516	97625		
	S.E. TOWS	N	0	N	0	N	1712	2526	43104	43212		
	NO. TOWS	N	3	N	3	N	19	68	99	186		
14JUN82	ST. CROP	N	281	N	281	N	2216	3421	27600	33237		
	S.E. TOWS	N	188	N	188	N	1125	1171	5243	5489		
	NO. TOWS	N	3	N	3	N	16	62	109	187		
21JUN82	ST. CROP	N	650	N	650	N	3726	11555	53965	69246		
	S.E. TOWS	N	387	N	387	N	1455	1853	7541	7901		
	NO. TOWS	N	3	N	3	N	16	62	108	186		
28JUN82	ST. CROP	N	3973	N	3973	N	127	10056	21611	31793		
	S.E. TOWS	N	3480	N	3480	N	78	3929	1343	4153		
	NO. TOWS	N	3	N	3	N	16	61	110	187		
05JUL82	ST. CROP	N	4225	N	4225	N	30	10352	5573	15954		
	S.E. TOWS	N	2867	N	2867	N	30	3992	1797	4378		
	NO. TOWS	N	3	N	3	N	16	62	109	187		
TOTAL	ST. CROP	N	32077	N	32077	N	8916	143014	721043	872974		
	S.E. TOWS	N	13818	N	13818	N	2514	25031	90769	94191		
	NO. TOWS	N	31	N	31	N	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											
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAH			STRATUM		
	S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	13
14JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	0	N	0	0	0	0	0	0	45	53	0	98
	0	N	0	0	0	0	0	0	45	53	0	70
	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	0	N	0	0	0	0	0	0	0	0	29	29
	0	N	0	0	0	0	0	0	0	0	29	29
	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	0	N	0	0	0	0	0	0	45	53	29	128
	0	N	0	0	0	0	0	0	45	53	29	76
	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	ST. CROP S.E. NO. TOWS	S	INDIAN POINT			WEST POINT			R			CORNWALL			R	
			B	S	C	B	S	C	R	S	C	B	S	C		
10MAY82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	4	6	27	37	4	31	35	5	5	13	5	23	23		
17MAY82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	4	7	27	38	4	31	35	5	5	12	6	23	23		
24MAY82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	6	15	24	7	23	30	5	5	8	5	18	18		
31MAY82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	6	15	24	7	24	31	5	5	9	4	18	18		
07JUN82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	6	14	23	8	22	30	5	5	8	6	19	19		
14JUN82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	16	26	10	25	35	3	3	10	13	26	26		
21JUN82	179	179	21	311	511	46	342	388	62	62	50	342	454	454		
	98	98	21	150	181	36	127	132	42	42	34	124	136	136		
	5	5	5	15	25	8	25	33	3	3	12	12	27	27		
28JUN82	169	169	0	202	372	175	1454	1629	39	39	2731	789	3559	3559		
	119	119	0	74	140	52	510	513	29	29	882	341	946	946		
	5	5	5	16	26	9	25	34	3	3	10	14	27	27		
05JUL82	41	41	123	254	417	0	259	259	297	297	1717	1003	3017	3017		
	23	23	123	120	173	0	99	99	286	286	1023	466	1160	1160		
	5	5	5	16	26	9	24	33	3	3	11	14	28	28		
TOTAL	388	388	143	767	1299	221	2055	2276	399	399	4498	2133	7031	7031		
	156	156	125	206	287	64	535	539	291	291	1351	591	1503	1503		
	37	37	51	161	249	66	230	296	37	37	93	79	209	209		

N -- STRATUM NOT SAMPLED

TABLE B-26 (CONTINUED).

AMERICAN SHAD

WEEK BEGINNING MONDAY	POUGHKEEPSIE			HYDE PARK			YOUNG-OF-THE-YEAR			KINGSTON		
	S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	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	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	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	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	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	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	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	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	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	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).
 AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	SAUGERTIES			CATSKILL				
	S	B	C	R	S	B	C	R
10MAY82	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0
	N	3	3	6	N	3	3	6
17MAY82	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0
	N	3	3	6	N	3	3	6
24MAY82	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0
	N	5	3	8	N	3	3	6
31MAY82	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0
	N	5	3	8	N	3	3	6
07JUN82	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0
	N	5	3	8	N	3	3	6
14JUN82	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0
	N	4	1	5	N	3	3	6
21JUN82	N	0	0	0	N	139	0	139
	N	0	0	0	N	139	0	139
	N	4	2	6	N	3	3	6
28JUN82	N	819	723	1542	N	2001	0	2001
	N	376	723	815	N	1344	0	1344
	N	4	2	6	N	3	3	6
05JUL82	N	2889	2694	5583	N	5698	294	5993
	N	1086	2694	2905	N	2905	199	2912
	N	4	2	6	N	3	3	6
TOTAL	N	3708	3417	7125	N	7838	294	8132
	N	1149	2790	3017	N	3204	199	3210
	N	37	22	59	N	27	27	54

N -- STRATUM NOT SAMPLED

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

AMERICAN SHAD

WEEK BEGINNING MONDAY	S			ALBANY			R			S			B			COMBINED			R					
	ST. CROP	S.E. NO.	TOWS	N	B	C	N	B	C	N	R	S	N	B	C	N	B	C	N	B	C	N	B	C
10MAY82	ST. CROP	0	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	5	N	5	5	N	5	5	5	21	21	65	65	108	108	108	108	194	194	194	194	194	194
17MAY82	ST. CROP	0	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	5	N	5	5	N	5	5	5	21	21	66	66	108	108	108	108	195	195	195	195	195	195
24MAY82	ST. CROP	0	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	3	N	3	3	N	3	3	3	19	19	68	68	99	99	99	99	186	186	186	186	186	186
31MAY82	ST. CROP	0	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	3	N	3	3	N	3	3	3	19	19	68	68	99	99	99	99	186	186	186	186	186	186
07JUN82	ST. CROP	0	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	3	N	3	3	N	3	3	3	19	19	68	68	99	99	99	99	186	186	186	186	186	186
14JUN82	ST. CROP	0	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	3	N	3	3	N	3	3	3	19	19	68	68	99	99	99	99	186	186	186	186	186	186
21JUN82	ST. CROP	0	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	N	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	3	N	3	3	N	3	3	3	16	16	62	62	109	109	109	109	187	187	187	187	187	187
28JUN82	ST. CROP	0	0	N	0	0	N	0	0	0	241	241	315	315	1481	1481	1481	1481	2037	2037	2037	2037	2037	2037
	S.E.	0	0	N	0	0	N	0	0	0	107	107	155	155	385	385	385	385	428	428	428	428	428	428
	NO. TOWS	3	3	N	3	3	N	3	3	3	16	16	62	62	108	108	108	108	186	186	186	186	186	186
28JUN82	ST. CROP	2045	2045	N	2045	2045	N	2045	2045	2045	253	253	10322	10322	5376	5376	5376	5376	15952	15952	15952	15952	15952	15952
	S.E.	1847	1847	N	1847	1847	N	1847	1847	130	130	2667	2667	1413	1413	1413	1413	3021	3021	3021	3021	3021	3021	3021
	NO. TOWS	3	3	N	3	3	N	3	3	3	16	16	61	61	110	110	110	110	187	187	187	187	187	187
05JUL82	ST. CROP	580	580	N	580	580	N	580	580	338	338	15308	15308	11575	11575	11575	11575	27221	27221	27221	27221	27221	27221	27221
	S.E.	580	580	N	580	580	N	580	580	287	287	4205	4205	3380	3380	3380	3380	5402	5402	5402	5402	5402	5402	5402
	NO. TOWS	3	3	N	3	3	N	3	3	16	16	62	62	109	109	109	109	187	187	187	187	187	187	187
TOTAL	ST. CROP	2625	2625	N	2625	2625	N	2625	2625	832	832	25946	25946	18432	18432	18432	18432	45210	45210	45210	45210	45210	45210	45210
	S.E.	1936	1936	N	1936	1936	N	1936	1936	333	333	4982	4982	3683	3683	3683	3683	6204	6204	6204	6204	6204	6204	6204
	NO. TOWS	31	31	N	31	31	N	31	31	163	163	582	582	949	949	949	949	1694	1694	1694	1694	1694	1694	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												
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			YOUNG-OF-THE-YEAR			
	S	B	C	R	S	B	C	R	S	B	C	R	
09AUG82	17	N	569	585	519	0	0	0	519	108	31	0	140
	11	N	417	417	107	0	0	0	107	37	22	0	43
	7	N	5	12	30	8	8	8	46	16	8	3	27
23AUG82	11	N	0	11	62	37	0	0	100	0	11	0	11
	11	N	0	11	27	37	0	0	46	0	11	0	11
	7	N	5	12	30	8	8	8	46	16	8	3	27
06SEP82	24	N	0	24	81	88	0	0	169	10	42	0	52
	24	N	0	24	36	58	0	0	68	10	16	0	19
	7	N	5	12	30	8	8	8	46	16	8	3	27
20SEP82	33	N	0	33	0	83	43	43	126	8	10	0	18
	23	N	0	23	0	46	43	43	63	8	10	0	13
	7	N	5	12	30	8	8	8	46	16	8	3	27
04OCT82	0	N	0	0	31	0	0	0	31	25	12	0	37
	0	N	0	0	18	0	0	0	18	14	12	0	18
	7	N	5	12	30	8	8	8	46	16	8	3	27
TOTAL	86	N	569	654	693	209	43	43	945	151	106	0	257
	37	N	417	419	117	83	43	43	150	42	33	0	53
	35	N	25	60	150	40	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-27 (CONTINUED).

AMERICAN SHAD

YOUNG-OF-THE-YEAR

WEEK
BEGINNING
MONDAY

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	S	INDIAN POINT			R	S	WEST POINT			R	S	CORNWALL			R
			B	C	C			B	C	B			C	B	C	
09AUG82	120 39 6	15 15 5	244 244 3	379 247 14	N N N	0 0 5	71 16 5	57 24 5	0 0 3	0 0 8	0 0 8	0 0 5	0 0 3	128 29 13		
23AUG82	48 15 6	0 0 5	0 0 3	48 15 14	N N N	54 25 5	8 5 5	119 81 5	0 0 3	54 25 8	0 0 3	0 0 3	0 0 3	127 81 13		
06SEP82	12 12 6	76 19 5	309 159 3	397 161 14	N N N	14 14 5	36 7 5	0 0 5	0 0 3	14 14 8	0 0 3	0 0 3	0 0 3	36 7 13		
20SEP82	0 0 6	13 13 5	0 0 3	13 13 14	N N N	0 0 5	40 27 5	66 66 5	0 0 3	0 0 8	0 0 8	0 0 3	0 0 3	105 71 13		
04OCT82	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 5	16 7 5	0 0 5	0 0 3	0 0 8	0 0 8	0 0 3	0 0 3	16 7 13		
TOTAL	180 43 30	104 28 25	553 291 15	837 296 70	N N N	67 29 25	170 33 25	242 107 25	0 0 15	67 29 40	0 0 15	0 0 15	0 0 15	412 112 65		

N -- STRATUM NOT SAMPLED

TABLE B-27 (CONTINUED).

YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	AMERICAN SHAD			POUGHKEEPSIE			HYDE PARK			KINGSTON			
	S	R	S	B	C	R	B	C	B	C	R	B	C
09AUG82	ST. CROP S.E. NO. TOWS	N N N	259 180 8	N N N	138 138 4	193 143 10	N N N	163 89 9	143 95 6	306 130 15			
23AUG82	ST. CROP S.E. NO. TOWS	N N N	29 29 8	N N N	0 0 4	181 63 10	N N N	182 70 9	486 313 6	667 320 15			
06SEP82	ST. CROP S.E. NO. TOWS	N N N	35 35 5	N N N	131 131 4	186 134 10	N N N	58 32 9	97 65 6	155 73 15			
20SEP82	ST. CROP S.E. NO. TOWS	N N N	202 133 8	N N N	0 0 4	89 60 6	N N N	258 53 9	167 108 6	425 120 15			
04OCT82	ST. CROP S.E. NO. TOWS	N N N	131 61 8	N N N	350 265 4	412 267 10	N N N	298 106 9	149 71 6	447 128 15			
TOTAL	ST. CROP S.E. NO. TOWS	N N N	841 300 40	N N N	620 326 20	1061 342 50	N N N	959 167 45	1042 357 30	2000 395 75			

N -- STRATUM NOT SAMPLED

TABLE B-2/ (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK
BEGINNING
MONDAY

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	S	SAUGERTIES			R	S	B	CATSKILL			R
			B	C	C				B	C	R	
09AUG82	ST. CROP S.E. NO. TOWS	N N N	382 88 12	0 0 6	382 88 18	N N N	719 144 15	35 35 6	754 148 21			
23AUG82	ST. CROP S.E. NO. TOWS	N N N	283 140 12	126 86 6	409 165 18	N N N	991 194 15	245 245 6	1236 313 21			
06SEP82	ST. CROP S.E. NO. TOWS	N N N	106 56 12	84 54 6	190 77 18	N N N	216 58 15	72 72 6	288 92 21			
20SEP82	ST. CROP S.E. NO. TOWS	N N N	415 93 12	68 68 6	483 115 18	N N N	1183 312 15	225 90 6	1408 325 21			
04OCT82	ST. CROP S.E. NO. TOWS	N N N	29 19 12	82 52 6	111 55 18	N N N	138 33 15	0 0 6	138 33 21			
TOTAL	ST. CROP S.E. NO. TOWS	N N N	1215 199 60	360 133 30	1576 239 90	N N N	3247 400 75	577 273 30	3824 485 105			

N -- STRATUM NOT SAMPLED

TABLE B-27 (CONTINUED).
 AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	AMERICAN SHAD			YOUNG-OF-THE-YEAR					
	S	B	ALBANY C	R	S	B	COMBINED C	R	
09AUG82	ST. CROP	N	618	N	618	834	2301	1129	4264
	S.E. NO. TOWS	N	176	N	176	121	320	512	616
		N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	337	N	337	129	2222	857	3209
	S.E. NO. TOWS	N	212	N	212	33	348	407	536
		N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	182	N	182	163	872	878	1912
	S.E. NO. TOWS	N	76	N	76	47	140	298	332
		N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	918	N	918	81	3237	503	3821
	S.E. NO. TOWS	N	407	N	407	37	550	162	575
		N	8	N	8	64	86	50	200
04OCT82	ST. CROP	N	225	N	225	72	895	581	1548
	S.E. NO. TOWS	N	131	N	131	23	186	279	336
		N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	2280	N	2280	1280	9527	3948	14754
	S.E. NO. TOWS	N	514	N	514	141	761	788	1105
		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.

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS			SG	CS	AL	COMBINED
						CW	PK	HP				
16AUG82	ST. CROP	98	54	70	24	227	306	33	527	116	200	1712
	S.E. TOWS	36	27	24	12	124	172	8	138	39	91	277
	NO. TOWS	24	14	5	5	6	5	5	9	10	7	100
30AUG82	ST. CROP	28	85	61	21	167	95	25	304	539	893	2323
	S.E. TOWS	14	38	45	4	41	50	12	78	230	274	378
	NO. TOWS	24	14	5	5	6	5	5	9	10	7	100
13SEP82	ST. CROP	51	13	13	59	552	133	32	275	338	229	1755
	S.E. TOWS	34	10	9	21	275	97	10	110	183	118	384
	NO. TOWS	24	14	5	5	6	5	5	9	10	7	100
27SEP82	ST. CROP	23	65	2	110	259	260	19	156	77	297	1420
	S.E. TOWS	11	57	2	90	144	91	9	62	50	143	271
	NO. TOWS	24	14	5	5	6	5	5	9	10	7	100
11OCT82	ST. CROP	53	152	18	54	430	119	14	178	281	39	1633
	S.E. TOWS	21	67	7	29	157	43	6	58	87	16	353
	NO. TOWS	24	14	5	5	6	5	5	9	10	7	100
TOTAL	ST. CROP	254	369	164	267	1635	913	124	1440	1352	1658	8844
	S.E. TOWS	57	100	52	98	371	227	20	211	313	344	752
	NO. TOWS	120	70	25	25	30	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
 AUG 16 - AUG 22
 YOUNG-OF-THE-YEAR

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR=
 ADJUSTED BEACH SEINE EFFICIENCY = 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 23 - AUG 29

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

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

VAR(STDR) #
 VAR(STDE) #

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # #
 ADJUSTED BEACH SEINE EFFICIENCY = 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 6 - SEP 12

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR=#
 ADJUSTED BEACH SEINE EFFICIENCY = STDE=#
 ADJUSTED ICHTHYO EFFICIENCY = STDS=#
 #---ESTIMATED VALUE
 N---NO SAMPLE TAKEN
 #---STD ERROR COULD NOT BE CALCULATED

AMERICAN SHAD (CONTINUED)
 TABLE B-29 (CONTINUED)
 YOUNG-OF-THE-YEAR
 SEP 13 - SEP 19

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

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

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

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

VAR(STDR) #
 VAR(STDE) #

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

AMERICAN SHAD
 TABLE B-29 (CONTINUED).
 YOUNG-OF-THE-YEAR
 OCT 4 - OCT 10

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= #
 ADJUSTED BEACH SEINE EFFICIENCY = 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	SHORE ZONE		ST. CROP SE	SHOAL (10'-20')	STRATUM		CHANNEL	REGIONAL TOTALS
	ST. CROP SE	SE			BOTTOM	CHANNEL		
YONKERS	3	3	0 *	0 *	0 *	0 *	0 *	3
TAPPAN ZEE	53	21	24 *	13 *	0 *	0 *	0 *	77
GROTON-HAVERSTRAW	152	67	19 *	10 *	12 *	12 *	0 *	25
INDIAN POINT	18	7	0 *	0 *	0 *	0 *	0 *	183
WEST POINT	54	29	0 *	0 *	0 *	0 *	0 *	69
CORNWALL	430	157	12 *	5 *	0 *	0 *	0 *	18
POUGHKEEPSIE	119	43	9 *	4 *	120 *	56 *	0 *	7
HYDE PARK	14	6	3 *	2 *	57 *	29 *	0 *	54
KINGSTON	293	284	58 *	20 *	221 *	79 *	0 *	29
SAUGERTIES	178	58	7 *	5 *	19 *	13 *	0 *	441
CATSKILL	281	87	47 *	11 *	76 *	18 *	0 *	157
ALBANY	39	16	61 *	35 *	43 *	25 *	0 *	248
STRATUM TOTAL	1633	353	238 *	46 *	549 *	107 *	682 *	70

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

VAR(STDR) #
 VAR(STDE) #

***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											
	YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-30 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD											
	INDIAN POINT				WEST POINT				YEARLING			
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	0	0	0	0	N	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
S.E. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	0	0	0	0	N	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
S.E. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	0	0	0	0	N	0	0	0	8	0	0	8
ST. CROP	0	0	0	0	N	0	0	0	5	0	0	5
S.E. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	0	0	0	0	N	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
S.E. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	0	0	0	0	N	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
S.E. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	0	0	0	0	N	0	0	0	8	0	0	8
ST. CROP	0	0	0	0	N	0	0	0	5	0	0	5
S.E. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-30 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD			POUGHKEEPSIE			HYDE PARK			YEARLING			KINGSTON					
	S			R			S			R			S			R		
	ST. CROP S.E. NO. TOWS	B	C	ST. CROP S.E. NO. TOWS	B	C	ST. CROP S.E. NO. TOWS	B	C	ST. CROP S.E. NO. TOWS	B	C	ST. CROP S.E. NO. TOWS	B	C	ST. CROP S.E. NO. TOWS	B	C
09AUG82	N	0	0	N	0	0	N	0	0	N	0	0	N	0	0	N	0	0
	N	0	0	N	0	0	N	0	0	N	0	0	N	0	0	N	0	0
	N	5	3	N	8	4	N	6	4	N	10	6	N	9	6	N	15	6
23AUG82	N	29	0	N	29	0	N	0	0	N	0	0	N	0	0	N	0	0
	N	29	0	N	29	0	N	0	0	N	0	0	N	0	0	N	0	0
	N	5	3	N	8	4	N	6	4	N	10	6	N	9	6	N	15	6
06SEP82	N	0	0	N	0	0	N	14	0	N	14	0	N	12	0	N	12	0
	N	0	0	N	0	0	N	14	0	N	14	0	N	12	0	N	12	0
	N	5	3	N	8	4	N	6	4	N	10	6	N	9	6	N	15	6
20SEP82	N	0	0	N	0	0	N	0	0	N	0	0	N	0	0	N	0	0
	N	0	0	N	0	0	N	0	0	N	0	0	N	0	0	N	0	0
	N	5	3	N	8	4	N	6	4	N	10	6	N	9	6	N	15	6
04OCT82	N	0	0	N	0	0	N	0	0	N	0	0	N	0	0	N	0	0
	N	0	0	N	0	0	N	0	0	N	0	0	N	0	0	N	0	0
	N	5	3	N	8	4	N	6	4	N	10	6	N	9	6	N	15	6
TOTAL	N	29	0	N	29	0	N	14	0	N	14	0	N	12	0	N	12	0
	N	29	0	N	29	0	N	14	0	N	14	0	N	12	0	N	12	0
	N	25	15	N	40	20	N	30	20	N	50	30	N	45	30	N	75	30

N -- STRATUM NOT SAMPLED

TABLE B-30 (CONTINUED).

AMERICAN SHAD YEARLING

WEEK BEGINNING MONDAY	AMERICAN SHAD		SAUGERTIES		R	S	B	CATSKILL		R
	S	B	C	C				C	C	
09AUG82	ST. CROP	N	0	0	0	N	0	0	0	0
	S.E. TOWS	N	0	0	0	N	0	0	0	0
		N	12	6	18	N	15	6	21	21
23AUG82	ST. CROP	N	0	0	0	N	0	0	0	0
	S.E. TOWS	N	0	0	0	N	0	0	0	0
		N	12	6	18	N	15	6	21	21
06SEP82	ST. CROP	N	0	0	0	N	0	0	0	0
	S.E. TOWS	N	0	0	0	N	0	0	0	0
		N	12	6	18	N	15	6	21	21
20SEP82	ST. CROP	N	0	0	0	N	0	0	0	0
	S.E. TOWS	N	0	0	0	N	0	0	0	0
		N	12	6	18	N	15	6	21	21
04OCT82	ST. CROP	N	0	0	0	N	0	0	0	0
	S.E. TOWS	N	0	0	0	N	0	0	0	0
		N	12	6	18	N	15	6	21	21
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	0
	S.E. TOWS	N	0	0	0	N	0	0	0	0
		N	60	30	90	N	75	30	105	105

N -- STRATUM NOT SAMPLED

TABLE B-30 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD			YEARLING			COMBINED B	C	R
	S	B	C	S	B	C			
09AUG82	ST. CROP	N	0	N	0	N	0	0	0
	S.E.	N	0	N	0	N	0	0	0
	NO. TOWS	N	8	N	8	N	86	50	200
23AUG82	ST. CROP	N	0	N	0	N	29	0	29
	S.E.	N	0	N	0	N	29	0	29
	NO. TOWS	N	8	N	8	N	86	50	200
06SEP82	ST. CROP	N	0	N	0	N	27	0	35
	S.E.	N	0	N	0	N	19	0	20
	NO. TOWS	N	8	N	8	N	86	50	200
20SEP82	ST. CROP	N	0	N	0	N	0	0	0
	S.E.	N	0	N	0	N	0	0	0
	NO. TOWS	N	8	N	8	N	86	50	200
04OCT82	ST. CROP	N	0	N	0	N	0	0	0
	S.E.	N	0	N	0	N	0	0	0
	NO. TOWS	N	8	N	8	N	86	50	200
TOTAL	ST. CROP	N	0	N	0	N	56	0	64
	S.E.	N	0	N	0	N	35	0	35
	NO. TOWS	N	40	N	40	N	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.

WEEK BEGINNING MONDAY	AMERICAN SHAD						OLDER							
	S	B	C	R	S	T	S	B	C	R	S	B	C	R
09AUG82	0	N	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	3	27	0	0	27
23AUG82	0	N	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	3	27	0	0	27
06SEP82	0	N	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	3	27	0	0	27
20SEP82	0	N	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	3	27	0	0	27
04OCT82	0	N	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	3	27	0	0	27
TOTAL	0	N	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0
	35	N	25	60	150	40	40	230	80	15	135	0	0	135

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

WEEK BEGINNING MONDAY	POUGHKEEPSIE			AMERICAN SHAD			HYDE PARK			OLDER			KINGSTON		
	S	B	C	R	S	C	B	R	S	C	B	R	S	C	R
09AUG82	N	0	0	0	N	12	0	12	N	0	0	0	N	0	0
ST. CROP	N	0	0	0	N	12	0	12	N	0	0	0	N	0	0
S.E. TOWS	N	5	3	8	N	6	4	10	N	9	6	15	N	6	15
23AUG82	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0
ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0
S.E. TOWS	N	5	3	8	N	6	4	10	N	9	6	15	N	6	15
06SEP82	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0
ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0
S.E. TOWS	N	5	3	8	N	6	4	10	N	9	6	15	N	6	15
20SEP82	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0
ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0
S.E. TOWS	N	5	3	8	N	6	4	10	N	9	6	15	N	6	15
04OCT82	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0
ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0
S.E. TOWS	N	5	3	8	N	6	4	10	N	9	6	15	N	6	15
TOTAL	N	0	0	0	N	12	0	12	N	0	0	0	N	0	0
ST. CROP	N	0	0	0	N	12	0	12	N	0	0	0	N	0	0
S.E. TOWS	N	25	15	40	N	30	20	50	N	45	30	75	N	30	75

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD			OLDER				
	S	B	C	R	S	B	C	R
09AUG82	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0
	N	12	6	18	N	15	6	21
23AUG82	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0
	N	12	6	18	N	15	6	21
06SEP82	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0
	N	12	6	18	N	15	6	21
20SEP82	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0
	N	12	6	18	N	15	6	21
04OCT82	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0
	N	12	6	18	N	15	6	21
TOTAL	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0
	N	60	30	90	N	75	30	105

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD			ALBANY			OLDER			COMBINED		
	S	B	C	R	S	B	C	S	B	C	R	
	ST. CROP S.E. NO. TOWS											
09AUG82	N	0	N	0	0	0	0	0	0	0	12	
	N	0	N	0	0	0	0	0	0	0	12	
	N	8	N	8	64	86	50	200				
23AUG82	N	0	N	0	0	0	0	0	0	0	0	
	N	0	N	0	0	0	0	0	0	0	0	
	N	8	N	8	64	86	50	200				
06SEP82	N	0	N	0	0	0	0	0	0	0	0	
	N	0	N	0	0	0	0	0	0	0	0	
	N	8	N	8	64	86	50	200				
20SEP82	N	0	N	0	0	0	0	0	0	0	0	
	N	0	N	0	0	0	0	0	0	0	0	
	N	8	N	8	64	86	50	200				
04OCT82	N	0	N	0	0	0	0	0	0	0	0	
	N	0	N	0	0	0	0	0	0	0	0	
	N	8	N	8	64	86	50	200				
TOTAL	N	0	N	0	0	12	0	0	12	0	12	
	N	0	N	0	0	12	0	0	12	0	12	
	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.

WEEK BEGINNING MONDAY	AMERICAN SHAD													OLDER		
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED			
16AUG82	0	0	2	0	0	0	0	0	0	0	0	0	2			
	0	0	2	0	0	0	0	0	0	0	0	0	2			
	5	24	14	5	5	6	5	5	5	9	10	7	100			
30AUG82	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5	24	14	5	5	6	5	5	5	9	10	7	100			
13SEP82	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5	24	14	5	5	6	5	5	5	9	10	7	100			
27SEP82	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5	24	14	5	5	6	5	5	5	9	10	7	100			
11OCT82	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5	24	14	5	5	6	5	5	5	9	10	7	100			
TOTAL	0	0	2	0	0	0	0	0	0	0	0	0	2			
	0	0	2	0	0	0	0	0	0	0	0	0	2			
	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.

WEEK BEGINNING MONDAY	ATLANTIC TOMCOD										POST YOLK-SAC LARVAE					
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW									
	S	B	C	R	S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	0	N	0	0	0	83	105	188	37	85	0	122				
	0	N	0	0	0	83	105	134	37	85	0	93				
	3	N	3	6	3	4	3	10	6	3	5	14				
17MAY82	710	N	0	710	0	577	0	577	0	0	0	0				
	710	N	0	710	0	504	0	504	0	0	0	0				
	3	N	3	6	3	4	3	10	6	3	4	13				
24MAY82	0	N	2077	2077	0	0	0	0	0	0	0	0				
	0	N	2077	2077	0	0	0	0	0	0	0	0				
	3	N	3	6	3	4	4	11	5	4	3	12				
31MAY82	0	N	0	0	0	0	0	0	0	0	0	0				
	0	N	0	0	0	0	0	0	0	0	0	0				
	3	N	3	6	3	4	4	11	5	4	3	12				
07JUN82	0	N	0	0	0	0	0	0	0	0	0	0				
	0	N	0	0	0	0	0	0	0	0	0	0				
	3	N	3	6	3	4	4	11	5	4	3	12				
14JUN82	0	N	0	0	0	0	0	0	0	0	0	0				
	0	N	0	0	0	0	0	0	0	0	0	0				
	1	N	8	9	3	5	6	14	4	6	6	16				
21JUN82	0	N	0	0	0	0	0	0	0	0	0	0				
	0	N	0	0	0	0	0	0	0	0	0	0				
	1	N	9	10	3	5	6	14	4	6	6	16				
28JUN82	0	N	0	0	0	0	0	0	0	0	0	0				
	0	N	0	0	0	0	0	0	0	0	0	0				
	1	N	8	9	3	5	6	14	4	6	6	16				
05JUL82	0	N	0	0	0	0	0	0	0	0	0	0				
	0	N	0	0	0	0	0	0	0	0	0	0				
	1	N	8	9	3	5	6	14	4	6	6	16				
TOTAL	710	N	2077	2787	0	660	105	765	37	149	0	185				
	710	N	2077	2195	0	511	105	522	37	106	0	112				
	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

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

N -- STRATIUM NOT SAMPLED

TABLE B-33 (CONTINUED).

ATLANTIC TOMCOD

POST YOLK-SAC LARVAE

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

N -- STRATUM NOT SAMPLED

TABLE B-33 (CONTINUED). POST YOLK-SAC LARVAE

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

N -- STRATUM NOT SAMPLED

TABLE B-33 (CONTINUED).

ATLANTIC TOMCOD

POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY	ATLANTIC TOMCOD			POST YOLK-SAC LARVAE				
	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	0	N	0	210	511	759
	S.E. NO. TOWS	N	0	N	0	122	420	439
		N	5	N	5	65	108	194
17MAY82	ST. CROP	N	0	N	0	2090	1584	4385
	S.E. NO. TOWS	N	0	N	0	695	520	1121
		N	5	N	5	66	108	195
24MAY82	ST. CROP	N	0	N	0	174	2169	2344
	S.E. NO. TOWS	N	0	N	0	74	2077	2079
		N	3	N	3	68	99	186
31MAY82	ST. CROP	N	0	N	0	20	140	159
	S.E. NO. TOWS	N	0	N	0	20	140	141
		N	3	N	3	68	99	186
07JUN82	ST. CROP	N	0	N	0	0	0	0
	S.E. NO. TOWS	N	0	N	0	0	0	0
		N	3	N	3	68	99	186
14JUN82	ST. CROP	N	0	N	0	138	0	138
	S.E. NO. TOWS	N	0	N	0	138	0	138
		N	3	N	3	62	109	187
21JUN82	ST. CROP	N	0	N	0	0	0	0
	S.E. NO. TOWS	N	0	N	0	0	0	0
		N	3	N	3	62	108	186
28JUN82	ST. CROP	N	0	N	0	0	0	0
	S.E. NO. TOWS	N	0	N	0	0	0	0
		N	3	N	3	61	110	187
05JUL82	ST. CROP	N	0	N	0	0	0	0
	S.E. NO. TOWS	N	0	N	0	0	0	0
		N	3	N	3	62	109	187
TOTAL	ST. CROP	N	0	N	0	2632	4105	7784
	S.E. NO. TOWS	N	0	N	0	723	2187	2410
		N	31	N	31	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.

WEEK BEGINNING MONDAY	ATLANTIC TOMCOD											
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			YOUNG-OF-THE-YEAR		
	S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	0	N	0	0	0	39	210	250	293	3743	0	4036
	0	N	0	0	0	39	210	214	293	3743	0	3754
	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	4267	N	0	4267	0	5008	0	5008	0	0	0	0
	2688	N	0	2688	0	5008	0	5008	0	0	0	0
	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	0	N	57987	57987	0	4647	0	4647	82	4264	0	4346
	0	N	56365	56365	0	3857	0	3857	82	3537	0	3538
	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	814	N	0	814	0	14656	0	14656	0	196	0	196
	814	N	0	814	0	9702	0	9702	0	196	0	196
	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	28	N	0	28	0	1266	96	1363	0	133	0	133
	28	N	0	28	0	919	96	924	0	133	0	133
	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	1335	N	894	2229	2517	1500	66	4083	0	185	0	185
	0	N	623	623	2517	641	66	2598	0	69	0	69
	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	937	N	1512	2450	0	2947	290	3237	90	364	33	487
	0	N	761	761	0	1604	290	1630	90	223	33	243
	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	408	N	195	603	254	1938	317	2510	36	252	30	318
	0	N	136	136	254	1008	187	1056	36	95	30	106
	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	7789	N	60588	68378	2771	32001	979	35752	501	9136	63	9701
	2808	N	56374	56444	2530	11786	421	12062	319	5161	45	5171
	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	ST. CROP S.E. NO. TOWS	S	INDIAN POINT			WEST POINT			CORNWALL			R	
			B	C	R	S	N	B	C	R	S		B
10MAY82	ST. CROP S.E. NO. TOWS	0 0 4	114 114 6	1693 1693 27	1807 1697 37	N N N	302 134 4	131 67 31	434 150 35	0 0 5	236 151 13	0 0 5	236 151 23
17MAY82	ST. CROP S.E. NO. TOWS	0 0 4	4848 4115 7	2441 1227 27	7289 4294 38	N N N	8202 3485 4	10683 3544 31	18885 4970 35	5 5 5	2601 1550 12	0 0 6	2606 1550 23
24MAY82	ST. CROP S.E. NO. TOWS	0 0 3	13050 11100 6	837 584 15	13887 11115 24	N N N	4908 2064 7	5964 2132 23	10872 2968 30	0 0 5	2663 1318 8	0 0 5	2663 1318 18
31MAY82	ST. CROP S.E. NO. TOWS	0 0 3	7257 3911 6	15834 12858 15	23091 13439 24	N N N	3272 2606 7	4369 4210 24	7642 4951 31	0 0 5	54 43 9	0 0 4	54 43 18
07JUN82	ST. CROP S.E. NO. TOWS	0 0 3	76 76 6	217 186 14	293 201 23	N N N	285 136 8	507 231 22	791 268 30	0 0 5	79 44 8	39 39 6	118 59 19
14JUN82	ST. CROP S.E. NO. TOWS	0 0 5	337 337 5	0 0 16	337 337 26	N N N	2060 722 10	569 355 25	2629 805 35	0 0 3	349 127 10	0 0 13	349 127 26
21JUN82	ST. CROP S.E. NO. TOWS	0 0 5	206 107 5	285 132 15	491 170 25	N N N	1450 1001 8	1269 259 25	2718 1034 33	8 8 3	383 114 12	136 115 12	527 162 27
28JUN82	ST. CROP S.E. NO. TOWS	0 0 5	1617 1496 5	710 255 16	2327 1517 26	N N N	254 135 9	383 152 25	637 203 34	0 0 3	210 65 10	0 0 14	210 65 27
05JUL82	ST. CROP S.E. NO. TOWS	0 0 5	243 128 5	26 26 16	269 131 26	N N N	504 302 9	310 127 24	815 327 33	23 23 3	546 230 11	0 0 14	569 232 28
TOTAL	ST. CROP S.E. NO. TOWS	0 0 37	27746 12563 51	22044 13044 161	49791 18110 249	N N N	21238 4986 66	24185 5927 230	45423 7745 296	35 25 37	7120 2063 93	175 121 79	7331 2066 209

N -- STRATUM NOT SAMPLED

TABLE B-34 (CONTINUED).

ATLANTIC TOMCOD

WEEK
BEGINNING
MONDAY

	POUGHKEEPSIE			HYDE PARK			KINGSTON			R		
	S	B	C	R	S	B	C	R	S		B	C
10MAY82	N	0	0	0	N	0	0	0	N	0	0	0
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
1/MAY82	N	282	0	282	N	0	0	0	N	0	0	0
ST. CROP	N	261	0	261	N	0	0	0	N	0	0	0
S.E.	N	10	10	20	N	9	11	20	N	6	7	13
NO. TOWS	N	17	22	39	N	7	12	19	N	4	6	10
24MAY82	N	1813	0	1813	N	776	0	776	N	0	0	0
ST. CROP	N	604	0	604	N	547	0	547	N	0	0	0
S.E.	N	17	22	39	N	7	12	19	N	4	6	10
NO. TOWS	N	284	0	284	N	107	0	107	N	34	0	34
ST. CROP	N	142	0	142	N	76	0	76	N	34	0	34
S.E.	N	16	22	38	N	7	12	19	N	4	6	10
NO. TOWS	N	12	121	133	N	0	0	0	N	35	0	35
ST. CROP	N	12	121	122	N	0	0	0	N	35	0	35
S.E.	N	16	22	38	N	7	12	19	N	4	6	10
NO. TOWS	N	3085	46	3131	N	79	0	79	N	0	0	0
ST. CROP	N	1157	46	1158	N	57	0	57	N	0	0	0
S.E.	N	7	13	20	N	5	11	16	N	4	7	11
NO. TOWS	N	236	0	236	N	0	0	0	N	0	0	0
ST. CROP	N	207	0	207	N	0	0	0	N	0	0	0
S.E.	N	7	15	22	N	5	8	13	N	4	7	11
NO. TOWS	N	906	0	906	N	86	0	86	N	0	0	0
ST. CROP	N	390	0	390	N	86	0	86	N	0	0	0
S.E.	N	7	15	22	N	5	9	14	N	4	6	10
NO. TOWS	N	28	202	230	N	19	0	19	N	41	0	41
ST. CROP	N	28	142	144	N	19	0	19	N	41	0	41
S.E.	N	7	15	22	N	5	9	14	N	4	6	10
NO. TOWS	N	6647	369	7016	N	1066	0	1066	N	111	0	111
ST. CROP	N	1410	192	1423	N	562	0	562	N	64	0	64
S.E.	N	96	144	240	N	59	95	154	N	40	58	98
NO. TOWS	N -- STRATUM NOT SAMPLED											

N -- STRATUM NOT SAMPLED

TABLE B-34 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY

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

N -- STRATUM NOT SAMPLED

TABLE B-34 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

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

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

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED).

ATLANTIC TOMCOD

YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	S	INDIAN POINT			S	WEST POINT			R	S	CORNWALL			R
			B	C	S		B	C	R			B	C	R	
09AUG82	ST. CROP S.E. NO. TOWS	0 0 6	1233 365 5	2638 2009 3	3871 2042 14	N N N	1103 478 5	1924 980 3	3026 1090 8	0 0 5	524 265 5	0 0 3	524 265 13		
23AUG82	ST. CROP S.E. NO. TOWS	0 0 6	541 210 5	220 220 3	761 304 14	N N N	1143 235 5	929 467 3	2073 523 8	0 0 5	1102 760 5	69 69 3	1171 763 13		
06SEP82	ST. CROP S.E. NO. TOWS	12 8 6	341 123 5	265 265 3	618 292 14	N N N	797 114 5	2943 2943 3	3740 2945 8	0 0 5	2401 1851 5	0 0 3	2401 1851 13		
20SEP82	ST. CROP S.E. NO. TOWS	0 0 6	383 154 5	0 0 3	383 154 14	N N N	454 109 5	292 147 3	746 183 8	86 58 5	211 88 5	56 56 3	353 119 13		
04OCT82	ST. CROP S.E. NO. TOWS	0 0 6	48 31 5	0 0 3	48 31 14	N N N	221 152 5	0 0 3	221 152 8	19 15 5	334 187 5	0 0 3	352 188 13		
TOTAL	ST. CROP S.E. NO. TOWS	12 8 30	2545 466 25	3123 2038 15	5680 2091 70	N N N	3718 576 25	6088 3140 15	9806 3192 40	105 59 25	4572 2029 25	125 89 15	4803 2032 65		

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED).
ATLANTIC TOMCOD

YOUNG-OF-THE-YEAR

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

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

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

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED)

WEEK BEGINNING MONDAY	ATLANTIC IOMCOD										YOUNG-OF-THE-YEAR				
	S			ALBANY			R			S			COMBINED		
	S	B	C	B	C	R	R	C	B	C	S	B	C	B	C
09AUG82	ST. GROU	N	0	0	N	0	0	0	532	4545	4701	9778			
	S.E.	N	0	0	N	0	0	196	774	2240	2378				
	NO. TOWS	N	8	8	N	8	8	64	86	50	200				
23AUG82	ST. GROU	N	0	0	N	0	0	205	3658	1482	5345				
	S.E.	N	0	0	N	0	0	83	838	584	1024				
	NO. TOWS	N	8	8	N	8	8	64	86	50	200				
06SEP82	ST. GROU	N	0	0	N	0	0	135	4856	3460	8451				
	S.E.	N	0	0	N	0	0	43	1872	2965	3507				
	NO. TOWS	N	8	8	N	8	8	64	86	50	200				
20SEP82	ST. GROU	N	0	0	N	0	0	250	2709	348	3307				
	S.E.	N	0	0	N	0	0	106	405	157	447				
	NO. TOWS	N	8	8	N	8	8	64	86	50	200				
04OCT82	ST. GROU	N	0	0	N	0	0	91	1937	221	2248				
	S.E.	N	0	0	N	0	0	35	443	137	465				
	NO. TOWS	N	8	8	N	8	8	64	86	50	200				
TOTAL	ST. GROU	N	0	0	N	0	0	1213	17704	10212	29129				
	S.E.	N	0	0	N	0	0	244	2273	3768	4407				
	NO. TOWS	N	40	40	N	40	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.

WEEK BEGINNING MONDAY	ATLANTIC TOMCOD										YOUNG-OF-YEAR		
	YK	TZ	CH	IP	WP	CW	PK	IIP	KG	SG	CS	AL	COMBINED
16AUG82	0	8	2	0	0	0	0	0	0	0	0	0	9
	0	6	2	0	0	0	0	0	0	0	0	0	6
	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	0	74	36	0	0	0	0	0	0	0	0	0	110
	0	38	15	0	0	0	0	0	0	0	0	0	41
	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	2	49	12	2	0	0	0	0	0	0	0	0	64
	2	33	8	2	0	0	0	0	0	0	0	0	34
	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	2	59	29	6	0	0	0	0	0	0	0	0	95
	2	26	15	6	0	0	0	0	0	0	0	0	31
	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	17	32	23	0	0	0	0	0	0	0	0	0	72
	17	25	16	0	0	0	0	0	0	0	0	0	34
	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	20	221	102	7	0	0	0	0	0	0	0	0	350
	17	62	28	6	0	0	0	0	0	0	0	0	71
	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
 AUG 16 - AUG 22

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR=
 ADJUSTED BEACH SEINE EFFICIENCY = STDE=
 ADJUSTED ICHTHYO EFFICIENCY = STDS=

 VAR(STDR) #
 VAR(STDE) #

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR=
 ADJUSTED BEACH SEINE EFFICIENCY = 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 30 - SEP 5

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR=#
 ADJUSTED BEACH SEINE EFFICIENCY = SIDE=#
 ADJUSTED ICHTHYO EFFICIENCY = STDS=#
 # 1
 # VAR(SIDR) #
 # VAR(SIDE) #
 *--ESTIMATED VALUE
 N--NO SAMPLE TAKEN
 #--STD ERROR COULD NOT BE CALCULATED

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

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR=
ADJUSTED BEACH SEINE EFFICIENCY = STDE=
ADJUSTED ICTHYO EFFICIENCY = STDS=

#

VAR(STDR) #
VAR(STDE) #

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

ATLANTIC TOMCOD (CONTINUED)
 YOUNG-OF-THE-YEAR
 SEP 13 - SEP 19

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

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

VAR(STDR) #
 VAR(STDE) #

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

ATLANTIC TOMCOD
 TABLE B-37 (CONTINUED).
 YOUNG-OF-THE-YEAR
 SEP 20 - SEP 26

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR=#
 ADJUSTED BEACH SEINE EFFICIENCY = 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
 SEP 27 - OCT 3

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

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

VAR(STDR) #
 VAR(STDE) #

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

ATLANTIC TOMCOD (CONTINUED).
 YOUNG-OF-THE-YEAR
 OCT 4 - OCT 10

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR=#
 ADJUSTED BEACH SEINE EFFICIENCY = 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
 OCT 11 - OCT 17

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR=#
 ADJUSTED BEACH SEINE EFFICIENCY = STDE=#
 ADJUSTED ICHTHYO EFFICIENCY = STDS=#
 # -- 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.

WEEK BEGINNING MONDAY	ALEWIFE/BUEBACK HERRING											
	YONKERS			TAPPAN ZEE			EGGS			CROTON-HAVERSTRAM		
	S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-38 (CONTINUED).

ALEWIFE/BUEBACK HERRING EGGS

WEEK BEGINNING MONDAY	INDIAN POINT			WEST POINT			CORNWALL			R		
	S	B	C	R	S	B	C	R	S		B	C
10MAY82	0	23	0	23	N	49	213	261	5	457	55	518
	0	23	0	23	N	28	89	93	5	289	55	294
	4	6	27	37	N	4	31	35	5	13	5	23
17MAY82	0	45	0	45	N	0	0	0	5	19	0	24
	0	45	0	45	N	0	0	0	5	19	0	19
	4	7	27	38	N	4	31	35	5	12	6	23
24MAY82	0	0	0	0	N	36	22	58	0	392	49	441
	0	0	0	0	N	36	22	42	0	299	49	303
	3	6	15	24	N	7	23	30	5	8	5	18
31MAY82	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	3	6	15	24	N	7	24	31	5	9	4	18
07JUN82	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	3	6	14	23	N	8	22	30	5	8	6	19
14JUN82	0	0	0	0	N	0	0	0	0	40	0	40
	0	0	0	0	N	0	0	0	0	40	0	40
	5	5	16	26	N	10	25	35	3	10	13	26
21JUN82	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	5	5	15	25	N	8	25	33	3	12	12	27
28JUN82	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	5	5	16	26	N	9	25	34	3	10	14	27
05JUL82	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	5	5	16	26	N	9	24	33	3	11	14	28
TOTAL	0	68	0	68	N	85	234	319	10	909	104	1023
	0	50	0	50	N	46	92	102	7	418	74	425
	37	51	161	249	N	66	230	296	37	93	79	209

N -- STRATUM NOT SAMPLED

TABLE B-38 (CONTINUED).

ALEWIFE/BUEBACK HERRING EGGS

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

N -- STRATUM NOT SAMPLED

TABLE B-38 (CONTINUED).

WEEK BEGINNING MONDAY	ALEWIFE/BUEBACK HERRING			EGGS			CATSKILL		
	S	SAUCERTIES B C	R	S	B	R	S	B	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).

WEEK BEGINNING MONDAY	ALEWIFE/BUEBACK HERRING			EGGS			COMBINED			R
	S	B	C	R	S	B	C	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	5	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	5	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	3	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	3	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	3	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	3	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	3	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	3	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	3	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	31	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/BUEBACK 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	0	N	0	0	0	0	0	0	0	0	0	46
	0	N	0	0	0	0	0	0	0	0	0	46
	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	0	N	0	0	0	0	0	0	0	0	0	46
	0	N	0	0	0	0	0	0	0	0	0	46
	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-39 (CONTINUED).

ALEMIFE/BLUEBACK HERRING YOLK-SAC LARVAE

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

N -- STRATUM NOT SAMPLED

TABLE B-39 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-39 (CONTINUED).

ALEWIFE/BUEBACK HERRING YOLK-SAC LARVAE

WEEK BEGINNING MONDAY	SAUGERTIES			R	S	CATSKILL			R
	S	B	C			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).

WEEK BEGINNING MONDAY	ALEWIFE/BUEBACK HERRING			YOLK-SAC LARVAE					
	S	B	ALBANY C	R	S	B	COMBINED 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.

WEEK BEGINNING MONDAY	ALEWIFE/BUEBACK HERRING											
	YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
	S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	51	N	161	212	118	188	464	771	261	0	127	388
	26	N	161	163	118	188	320	390	180	0	82	198
	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	0	N	0	0	0	218	269	487	161	244	149	554
	0	N	0	0	0	139	269	303	123	35	149	196
	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	0	N	0	0	110	0	0	110	296	0	132	429
	0	N	0	0	110	0	0	110	128	0	66	144
	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	0	N	0	0	0	57	100	157	94	0	449	543
	0	N	0	0	0	57	100	115	62	0	355	360
	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	52	N	172	224	1754	0	4593	6347	4162	376	3212	7750
	26	N	172	174	1218	0	2077	2407	2660	128	843	2793
	3	N	3	6	3	4	4	11	5	4	4	13
14JUN82	149	N	0	149	18026	1238	4272	23536	22449	2389	24273	49110
	0	N	0	0	17445	692	2004	17573	12435	1109	5170	13512
	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	0	N	8	8	0	38	0	38	204	33	283	520
	0	N	8	8	0	38	0	38	108	21	130	170
	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	0	N	0	0	0	0	0	0	74	0	0	74
	0	N	0	0	0	0	0	0	74	0	0	74
	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	0	N	0	0	0	78	0	78	0	0	0	0
	0	N	0	0	0	78	0	78	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	252	N	341	593	20009	1817	9698	31524	27700	3042	28624	59366
	37	N	236	239	17488	738	2918	17745	12720	1117	5255	13808
	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-40 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-40 (CONTINUED).

ALEWIFE/BLUEBACK HERRING POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY	ST. S.E. NO. TOWS	POUGHKEEPSIE			HYDE PARK			KINGSTON					
		S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	ST. CROP	N	1832	11745	13577	N	1806	9541	11347	N	3637	12653	16289
	S.E. TOWS	N	268	6568	6573	N	221	2484	2494	N	1715	4016	4367
		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. TOWS	N	560	43175	43178	N	17824	21335	27801	N	14978	132476	133320
		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. TOWS	N	9328	148622	148914	N	23398	411107	411772	N	44051	272007	275551
		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. TOWS	N	8208	248059	248195	N	352	216140	216140	N	12450	164656	165126
		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. TOWS	N	5832	207109	207191	N	894	257058	257059	N	115713	519799	532523
		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. TOWS	N	4208	113767	113845	N	10869	114892	115405	N	5190	150601	150690
		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. TOWS	N	5207	15706	16547	N	2286	6477	6868	N	13343	9038	16115
		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. TOWS	N	5290	14814	15730	N	2763	12514	12816	N	14211	29879	33087
		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. TOWS	N	5940	15361	16470	N	7859	9469	12305	N	8609	57282	57925
		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. TOWS	N	17230	376919	377313	N	32540	543833	544805	N	127253	644820	657256
		N	96	144	240	N	59	95	154	N	40	58	98

N -- STRATUM NOT SAMPLED

TABLE B-40 (CONTINUED).
ALEWIFE/BUEBACK HERRING POST YOLK-SAC LARVAE

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

N -- STRATUM NOT SAMPLED

TABLE B-40 (CONTINUED).
ALEWIFE/BLEUEBACK HERRING POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY	ALBANY						COMBINED		
	S	B	C	R	S	B	C	R	
10MAY82	ST. CROP	N	0	N	0	2984	55457	68908	127349
	S.E. TOWS	N	0	N	0	643	11933	9797	15453
17MAY82	ST. CROP	N	28048	N	28048	1622	274331	948067	1224020
	S.E. TOWS	N	6485	N	6485	363	78413	272763	283811
24MAY82	ST. CROP	N	82	N	82	21	66	108	195
	S.E. TOWS	N	82	N	82	7576	756189	5698424	6462189
31MAY82	ST. CROP	N	184492	N	184492	3112	121738	1036333	1043463
	S.E. TOWS	N	47580	N	47580	19	68	99	186
07JUN82	ST. CROP	N	13853	N	13853	22916	407968	6413743	6844627
	S.E. TOWS	N	13646	N	13646	12342	55417	1488712	1489795
14JUN82	ST. CROP	N	7719	N	7719	19	68	99	186
	S.E. TOWS	N	3226	N	3226	37674	1195203	2846801	4079678
21JUN82	ST. CROP	N	27180	N	27180	8778	310454	625715	698554
	S.E. TOWS	N	10361	N	10361	19	68	99	186
28JUN82	ST. CROP	N	68220	N	68220	147281	150029	1673745	1971056
	S.E. TOWS	N	33716	N	33716	60804	39286	223117	234567
05JUL82	ST. CROP	N	42538	N	42538	16	62	109	187
	S.E. TOWS	N	14543	N	14543	6594	273605	379030	659229
TOTAL	ST. CROP	N	372134	N	372134	1082	41088	44429	60526
	S.E. TOWS	N	62914	N	62914	16	62	108	186
		N	31	N	31	10099	318196	396828	725124
		N	31	N	31	5235	50439	45033	67819
		N	31	N	31	16	61	110	187
		N	31	N	31	489	255933	521820	778242
		N	31	N	31	424	68491	127534	144763
		N	31	N	31	16	62	109	187
		N	31	N	31	237235	3686910	18947368	22871513
		N	31	N	31	62972	361981	1956096	1990304
		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.

WEEK BEGINNING MONDAY	ALEWIFE/BUEBACK HERRING											
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			YOUNG-OF-THE-YEAR		
	S	B	C	R	S	B	C	R	S	B	C	R
10MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	3	10	6	3	5	14
17MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	3	10	6	3	4	13
24MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12
31MAY82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12
07JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	3	N	3	6	3	4	4	11	5	4	3	12
14JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
21JUN82	0	N	0	0	0	0	0	0	75	0	0	75
	0	N	0	0	0	0	0	0	75	0	0	75
	1	N	9	10	3	5	6	14	4	6	6	16
28JUN82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	1	N	8	9	3	5	6	14	4	6	6	16
05JUL82	0	N	0	0	0	0	0	0	119	0	0	119
	0	N	0	0	0	0	0	0	119	0	0	119
	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	0	N	0	0	0	0	0	0	194	0	0	194
	0	N	0	0	0	0	0	0	141	0	0	141
	19	N	48	67	27	40	42	109	43	42	43	128

N -- STRATUM NOT SAMPLED

TABLE B-41 (CONTINUED).

ALEWIFE/BLEUEBACK HERRING YOUNG-OF-THE-YEAR

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

N -- STRATUM NOT SAMPLED

TABLE B-41 (CONTINUED).

ALEWIFE/BUEBACK HERRING

YOUNG-OF-THE-YEAR

WEEK
BEGINNING
MONDAY

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

N -- STRATUM NOT SAMPLED

TABLE B-41 (CONTINUED).
ALEWIFE/BUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	S	SAUGERTIES			R	S	B	CATSKILL			R
			B	C	C				B	C	C	
10MAY82	ST. CROP S.E. NO. TOWS	N N N	0 0 3	0 0 3	0 0 6	0 0 6	N N N	0 0 3	0 0 3	0 0 3	0 0 6	0 0 6
17MAY82	ST. CROP S.E. NO. TOWS	N N N	0 0 3	0 0 3	0 0 6	0 0 6	N N N	0 0 3	0 0 3	0 0 3	0 0 6	0 0 6
24MAY82	ST. CROP S.E. NO. TOWS	N N N	0 0 5	0 0 3	0 0 8	0 0 8	N N N	0 0 3	0 0 3	0 0 3	0 0 6	0 0 6
31MAY82	ST. CROP S.E. NO. TOWS	N N N	0 0 5	0 0 3	0 0 8	0 0 8	N N N	0 0 3	0 0 3	0 0 3	0 0 6	0 0 6
07JUN82	ST. CROP S.E. NO. TOWS	N N N	0 0 5	0 0 3	0 0 8	0 0 8	N N N	0 0 3	0 0 3	0 0 3	0 0 6	0 0 6
14JUN82	ST. CROP S.E. NO. TOWS	N N N	0 0 4	0 0 1	0 0 5	0 0 5	N N N	0 0 3	0 0 3	0 0 3	0 0 6	0 0 6
21JUN82	ST. CROP S.E. NO. TOWS	N N N	0 0 4	0 0 2	0 0 6	0 0 6	N N N	0 0 3	0 0 3	0 0 3	0 0 6	0 0 6
28JUN82	ST. CROP S.E. NO. TOWS	N N N	1024 576 4	0 0 2	1024 576 6	1024 576 6	N N N	911 911 3	911 911 3	0 0 3	911 911 6	911 911 6
05JUL82	ST. CROP S.E. NO. TOWS	N N N	14030 4622 4	8853 8323 2	22883 9520 6	22883 9520 6	N N N	3701 2571 3	3701 2571 3	2912 2802 3	6613 3803 6	6613 3803 6
TOTAL	ST. CROP S.E. NO. TOWS	N N N	15054 4658 37	8853 8323 22	23907 9538 59	23907 9538 59	N N N	4612 2728 27	4612 2728 27	2912 2802 27	7524 3910 54	7524 3910 54

N -- STRATUM NOT SAMPLED

TABLE B-41 (CONTINUED).
ALEWIFE/BUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	S	ALBANY			R	S	B	COMBINED			R
			B	C	C				B	C	C	
10MAY82	N 0 0 5	N N N	0 0 5	N N N	0 0 5	0 0 5	0 0 21	0 0 65	0 0 108	0 0 108	0 0 194	0 0 0
17MAY82	N 0 0 5	N N N	0 0 5	N N N	0 0 5	0 0 21	0 0 21	0 0 66	0 0 108	0 0 108	0 0 195	0 0 0
24MAY82	N 0 0 3	N N N	0 0 3	N N N	0 0 3	0 0 19	0 0 19	0 0 68	0 0 99	0 0 99	0 0 186	0 0 0
31MAY82	N 0 0 3	N N N	0 0 3	N N N	0 0 3	0 0 19	0 0 19	0 0 68	0 0 99	0 0 99	0 0 186	0 0 0
07JUN82	N 0 0 3	N N N	0 0 3	N N N	0 0 3	0 0 19	0 0 19	0 0 68	0 0 99	0 0 99	0 0 186	0 0 0
14JUN82	N 0 0 3	N N N	0 0 3	N N N	0 0 3	0 0 16	0 0 16	0 0 62	0 0 109	0 0 109	0 0 187	0 0 0
21JUN82	N 0 0 3	N N N	0 0 3	N N N	0 0 3	115 85 16	115 85 16	18 12 62	75 44 108	75 44 108	208 97 186	0 0 0
28JUN82	N 0 0 3	N N N	0 0 3	N N N	0 0 3	1489 713 16	1489 713 16	3414 1133 61	2473 730 110	2473 730 110	7376 1525 187	0 0 0
05JUL82	N 7464 7464 3	N N N	7464 7464 3	N N N	0 0 3	684 552 16	684 552 16	40945 11663 62	26717 9572 109	26717 9572 109	68346 15098 187	0 0 0
TOTAL	N 7464 7464 31	N N N	7464 7464 31	N N N	0 0 31	2289 906 163	2289 906 163	44376 11718 582	29265 9600 949	29265 9600 949	75930 15175 1694	0 0 0

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

N -- STRATUM NOT SAMPLED

TABLE B-42 (CONTINUED).

BLUEBACK HERRING

YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	S	INDIAN POINT			R	S	WEST POINT			R	S	CORNWALL			R
			B	C	S			B	C	R			B	C	R	
09AUG82	ST. CROP S.E. NO. TOWS	80 46 6	145 68 5	466 234 3	690 248 14	N N N	40 28 5	498 257 3	538 258 8	821 329 5	4312 1162 5	212 121 3	5345 1214 13			
23AUG82	ST. CROP S.E. NO. TOWS	92 41 6	111 57 5	330 330 3	533 338 14	N N N	944 751 5	383 197 3	1327 777 8	0 0 5	2142 1187 5	135 135 3	2278 1195 13			
06SEP82	ST. CROP S.E. NO. TOWS	6 6 6	117 73 5	132 132 3	256 151 14	N N N	0 0 5	0 0 3	0 0 8	141 19 5	512 314 5	80 80 3	733 325 13			
20SEP82	ST. CROP S.E. NO. TOWS	0 0 6	149 49 5	0 0 3	149 49 14	N N N	798 248 5	278 278 3	1076 372 8	361 132 5	1979 1154 5	1139 208 3	3479 1180 13			
04OCT82	ST. CROP S.E. NO. TOWS	0 0 6	100 66 5	0 0 3	100 66 14	N N N	724 135 5	132 132 3	856 189 8	39 34 5	1761 991 5	76 76 3	1876 995 13			
TOTAL	ST. CROP S.E. NO. TOWS	178 62 30	622 141 25	928 426 15	1728 453 70	N N N	2506 803 25	1290 446 15	3797 919 40	1361 357 25	10707 2275 25	1643 297 15	13710 2322 65			

N -- STRATUM NOT SAMPLED

TABLE B-42 (CONTINUED).

BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	POUGHKEEPSIE			HYDE PARK			KINGSTON					
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	ST. CROP S.E. NO. TOWS	N N N	7916 4789 5	169 169 3	8085 4792 8	N N N	10635 4695 6	11892 9750 4	22527 10822 10	N N N	13542 2116 9	5993 1802 6	19535 2779 15
23AUG82	ST. CROP S.E. NO. TOWS	N N N	2877 1782 5	299 150 3	3176 1788 8	N N N	9299 1842 6	4906 3073 4	14205 3583 10	N N N	22930 1536 9	12551 4541 6	35481 4793 15
06SEP82	ST. CROP S.E. NO. TOWS	N N N	15639 5504 5	316 316 3	15955 5513 8	N N N	11471 1399 6	7882 3765 4	19353 4016 10	N N N	11558 3982 9	3729 1809 6	15287 4374 15
20SEP82	ST. CROP S.E. NO. TOWS	N N N	28403 10308 5	0 0 3	28403 10308 8	N N N	15640 1269 6	482 133 4	16122 1276 10	N N N	27200 6574 9	1335 842 6	28535 6627 15
04OCT82	ST. CROP S.E. NO. TOWS	N N N	9130 3711 5	539 539 3	9669 3750 8	N N N	5106 1035 6	9793 6354 4	14900 6437 10	N N N	9983 4528 9	966 427 6	10949 4548 15
TOTAL	ST. CROP S.E. NO. TOWS	N N N	63964 13283 25	1324 664 15	65288 13300 40	N N N	52152 5484 30	34955 12613 20	87106 13753 50	N N N	85214 9296 45	24573 5294 30	109787 10697 75

N -- STRATUM NOT SAMPLED

TABLE B-42 (CONTINUED).
 BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	S	SAUGERTIES			R	S	CATSKILL			R
			B	C	C			B	C		
09AUG82	ST. CROP S.E. NO. TOWS	N N N	26281 5242 12	453 238 6	26734 5247 18	N N N	27416 2923 15	2383 1388 6	29799 3235 21		
23AUG82	ST. CROP S.E. NO. TOWS	N N N	16230 4415 12	4719 3448 6	20949 5602 18	N N N	16438 1690 15	2795 830 6	19233 1882 21		
06SEP82	ST. CROP S.E. NO. TOWS	N N N	11109 4053 12	1034 359 6	12144 4069 18	N N N	1578 687 15	466 218 6	2045 721 21		
20SEP82	ST. CROP S.E. NO. TOWS	N N N	10511 2049 12	2052 1799 6	12563 2727 18	N N N	10917 1098 15	2092 1080 6	13008 1540 21		
04OCT82	ST. CROP S.E. NO. TOWS	N N N	26 18 12	1020 392 6	1047 392 18	N N N	1491 549 15	66 66 6	1557 553 21		
TOTAL	ST. CROP S.E. NO. TOWS	N N N	64158 8222 60	9278 3933 30	73437 9114 90	N N N	57840 3657 75	7802 1958 30	65642 4148 105		

N -- STRATUM NOT SAMPLED

TABLE B-42
BLUEBACK HERRING
(CONTINUED).

YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	ALBANY		COMBINED		R			
	S	B	S	B				
09AUG82	ST. CROP S.E. NO. TOWS	40759 7634 8	N N N	40759 7634 8	1110 338 64	131322 12046 86	22121 10023 50	154553 15675 200
23AUG82	ST. CROP S.E. NO. TOWS	24056 2749 8	N N N	24056 2749 8	116 43 64	95239 6389 86	26203 6545 50	121558 9146 200
06SEP82	ST. CROP S.E. NO. TOWS	15871 2412 8	N N N	15871 2412 8	246 69 64	68249 8423 86	13892 4220 50	82387 9421 200
20SEP82	ST. CROP S.E. NO. TOWS	31780 6266 8	N N N	31780 6266 8	361 132 64	127567 14041 86	7377 2291 50	135304 14227 200
04OCT82	ST. CROP S.E. NO. TOWS	13702 2897 8	N N N	13702 2897 8	80 41 64	42102 6712 86	12593 6405 50	54775 9277 200
TOTAL	ST. CROP S.E. NO. TOWS	126167 10923 40	N N N	126167 10923 40	1913 374 320	464478 22340 430	82185 14401 250	548576 26582 1000

N -- STRATUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	BLUEBACK HERRING											YOUNG-OF-YEAR	
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	0	0	8	9	13	36	78	95	98	4646	91	1089	6162
	0	0	6	7	8	29	75	44	76	2340	42	769	2466
	5	24	14	5	5	6	5	5	5	9	10	7	100
30AUG82	0	0	6	658	1950	85	396	148	651	964	4933	2405	12195
	0	0	6	640	1719	77	389	43	362	649	4446	583	4917
	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	0	0	0	0	255	2789	9011	926	351	3256	136	802	17525
	0	0	0	0	102	1265	4809	383	245	2622	98	404	5657
	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	0	0	0	6	2823	1003	3004	101	2378	938	55	37	10344
	0	0	0	6	2471	770	1496	42	1315	487	51	29	3303
	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	0	0	0	0	205	1046	2809	87	88	78	61	212	4585
	0	0	0	0	111	783	1663	67	45	69	42	171	1853
	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	0	0	13	673	5246	4958	15298	1357	3566	9882	5275	4544	50812
	0	0	8	640	3014	1677	5319	396	1388	3607	4447	1061	8752
	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											
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAM			YEARLING		
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	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	ST. CROP S.E. NO. TOWS	INDIAN POINT			WEST POINT			YEARLING			CORNWALL					
		S	B	C	R	S	C	R	S	B	C	R	S	B	C	R
09AUG82	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 5	0 0 3	0 0 8	0 0 5	0 0 5	0 0 3	0 0 13	0 0 0	0 0 0	0 0 0	0 0 0
23AUG82	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 5	0 0 3	0 0 8	0 0 5	0 0 5	0 0 3	0 0 13	0 0 0	0 0 0	0 0 0	0 0 0
06SEP82	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 5	0 0 3	0 0 8	0 0 5	0 0 5	0 0 3	0 0 13	0 0 0	0 0 0	0 0 0	0 0 0
20SEP82	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 5	0 0 3	0 0 8	0 0 5	0 0 5	0 0 3	0 0 13	0 0 0	0 0 0	0 0 0	0 0 0
04OCT82	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 5	0 0 3	0 0 8	0 0 5	16 16 5	0 0 3	16 16 13	0 0 0	0 0 0	0 0 0	0 0 0
TOTAL	0 0 30	0 0 25	0 0 15	0 0 70	N N N	0 0 25	0 0 15	0 0 40	0 0 25	16 16 25	0 0 15	16 16 65	0 0 0	0 0 0	0 0 0	0 0 0

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	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	N	0	0	0	N	15	0	15	N	0	0	0
	N	0	0	0	N	15	0	15	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	N	0	0	0	N	15	0	15	N	0	0	0
	N	0	0	0	N	15	0	15	N	0	0	0
	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			CATSKILL		
	S	SAUGERTIES B	R	S	B	C	R	B	C
09AUG82	N	12	12	N	0	0	N	0	0
S.E.	N	12	12	N	0	0	N	0	0
NO. TOWS	N	12	18	N	15	6	N	21	0
23AUG82	N	0	0	N	12	0	N	12	12
S.E.	N	0	0	N	12	0	N	12	12
NO. TOWS	N	12	18	N	15	6	N	21	21
06SEP82	N	0	0	N	0	0	N	0	0
S.E.	N	0	0	N	0	0	N	0	0
NO. TOWS	N	12	18	N	15	6	N	21	21
20SEP82	N	12	12	N	0	0	N	0	0
S.E.	N	12	12	N	0	0	N	0	0
NO. TOWS	N	12	18	N	15	6	N	21	21
04OCT82	N	0	0	N	0	0	N	0	0
S.E.	N	0	0	N	0	0	N	0	0
NO. TOWS	N	12	18	N	15	6	N	21	21
TOTAL	N	24	24	N	12	0	N	12	12
S.E.	N	17	17	N	12	0	N	12	12
NO. TOWS	N	60	90	N	75	30	N	105	105

N -- STRATUM NOT SAMPLED

TABLE B-44
BLUEBACK HERRING
(CONTINUED).

WEEK
BEGINNING
MONDAY

YEARLING

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	ALBANY			COMBINED			R
		S	B	C	S	B	C	
09AUG82	N	0	0	N	0	0	0	12
	N	0	0	N	0	0	0	12
	N	8	8	N	8	8	50	200
23AUG82	N	0	0	N	0	0	0	0
	N	0	0	N	0	0	0	12
	N	8	8	N	8	8	50	200
06SEP82	N	0	0	N	0	0	0	12
	N	0	0	N	0	0	0	12
	N	8	8	N	8	8	50	200
20SEP82	N	0	0	N	0	0	0	0
	N	0	0	N	0	0	0	0
	N	8	8	N	8	8	50	200
04OCT82	N	0	0	N	0	0	0	28
	N	0	0	N	0	0	0	20
	N	8	8	N	8	8	50	200
TOTAL	N	0	0	N	0	0	0	15
	N	0	0	N	0	0	0	15
	N	40	40	N	40	40	50	200
	N			N				68
	N			N				31
	N			N				430
	N			N				68
	N			N				31
	N			N				250
	N			N				1000

N -- STRATUM NOT SAMPLED

TABLE B-45
 STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
 BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY	BLUEBACK HERRING YEARLING												
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
16AUG82	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	1	0	0	0	0	0	1
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	0	0	0	0	0	0	1	0	0	0	0	0	1
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	YK	TZ	CH	IP	WP	REGIONS			KG	SG	CS	AL	COMBINED
						CW	PK	HP					
16AUG82	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. NO. TOWS	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	6	5	5	9	10	7	100	100
30AUG82	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. NO. TOWS	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	6	5	5	9	10	7	100	100
13SEP82	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. NO. TOWS	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	6	5	5	9	10	7	100	100
27SEP82	0	2	0	0	0	0	0	0	0	0	0	0	2
S.E. NO. TOWS	0	2	0	0	0	0	0	0	0	0	0	0	2
	5	24	14	5	5	6	5	5	9	10	7	100	100
11OCT82	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. NO. TOWS	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	6	5	5	9	10	7	100	100
TOTAL	0	2	0	0	0	0	0	0	0	0	0	0	2
S.E. NO. TOWS	0	2	0	0	0	0	0	0	0	0	0	0	2
	25	120	70	25	25	30	25	25	45	50	35	500	500

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

WEEK BEGINNING MONDAY	ALEWIFE											
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			ALEWIFE		
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	0	N	0	0	9	0	0	9	0	0	0	0
S.E. CROP	0	N	0	0	9	0	0	9	0	0	0	0
NO. TOWS	7	N	5	12	30	8	8	46	16	3	3	27
23AUG82	0	N	119	119	0	0	0	0	0	0	0	0
S.E. CROP	0	N	119	119	0	0	0	0	0	0	0	0
NO. TOWS	7	N	5	12	30	8	8	46	16	3	3	27
06SEP82	0	N	0	0	0	0	0	0	0	0	0	0
S.E. CROP	0	N	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	N	5	12	30	8	8	46	16	3	3	27
20SEP82	0	N	0	0	0	0	0	0	0	0	0	0
S.E. CROP	0	N	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	N	5	12	30	8	8	46	16	3	3	27
04OCT82	0	N	0	0	0	0	0	0	0	0	0	0
S.E. CROP	0	N	0	0	0	0	0	0	0	0	0	0
NO. TOWS	7	N	5	12	30	8	8	46	16	3	3	27
TOTAL	0	N	119	119	9	0	0	9	0	0	0	0
S.E. CROP	0	N	119	119	9	0	0	9	0	0	0	0
NO. TOWS	35	N	25	60	150	40	40	230	80	15	15	135

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).

YOUNG-OF-THE-YEAR

ALEWIFE

WEEK
BEGINNING
MONDAY

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	S	INDIAN POINT			WEST POINT			CORNWALL			R	
			B	S	C	B	S	C	B	S	C		
09AUG82	ST. CROP S.E. NO. TOWS	20 15 6	0 0 5	20 15 14	0 0 3	0 0 5	0 0 3	0 0 3	42 18 5	0 0 8	37 23 5	0 0 3	79 29 13
23AUG82	ST. CROP S.E. NO. TOWS	10 6 6	0 0 5	10 6 14	0 0 3	0 0 5	0 0 3	0 0 3	8 5 5	0 0 8	0 0 5	0 0 3	8 5 13
06SEP82	ST. CROP S.E. NO. TOWS	12 12 6	0 0 5	12 12 14	0 0 3	0 0 5	0 0 3	0 0 3	8 5 5	0 0 8	0 0 5	0 0 3	8 5 13
20SEP82	ST. CROP S.E. NO. TOWS	0 0 6	0 0 5	0 0 14	0 0 3	0 0 5	0 0 3	0 0 3	31 10 5	0 0 8	0 0 5	56 56 3	87 57 13
04OCT82	ST. CROP S.E. NO. TOWS	6 6 6	0 0 5	6 6 14	0 0 3	14 14 5	0 0 3	0 0 3	12 12 5	14 14 8	37 23 5	0 0 3	48 25 13
TOTAL	ST. CROP S.E. NO. TOWS	47 21 30	0 0 25	47 21 70	0 0 15	14 14 25	0 0 15	0 0 15	101 24 25	14 14 40	74 32 25	56 56 15	231 69 65

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).

YOUNG-OF-THE-YEAR

ALEWIFE

WEEK
BEGINNING
MONDAY

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

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).
ALEWIFE YOUNG-OF-THE-YEAR

WELK BEGINNING MONDAY	ALEWIFE			SAUGERTIES			CATSKILL			R
	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	
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	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).

YOUNG-OF-THE-YEAR

ALEWIFE

WEEK BEGINNING MONDAY	ALEWIFE			YOUNG-OF-THE-YEAR				
	S	B	ALBANY C	R	S	B	COMBINED C	R
09AUG82	N	240	N	240	72	1319	187	1578
	N	141	N	141	25	257	106	279
	N	8	N	8	64	86	50	200
23AUG82	N	63	N	63	17	1638	812	2467
	N	31	N	31	8	244	430	494
	N	8	N	8	64	86	50	200
06SEP82	N	22	N	22	20	564	523	1106
	N	22	N	22	13	215	176	278
	N	8	N	8	64	86	50	200
20SEP82	N	300	N	300	31	1591	399	2021
	N	158	N	158	10	430	163	460
	N	8	N	8	64	86	50	200
04OCT82	N	40	N	40	17	182	0	199
	N	26	N	26	13	76	0	77
	N	8	N	8	64	86	50	200
TOTAL	N	665	N	665	158	5294	1921	7373
	N	217	N	217	33	602	504	785
	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	YK	TZ	CH	IP	WP	REGIONS				KG	SG	CS	AL	COMBINED
						CW	PK	HP	KG					
16AUG82	0	4	2	26	9	14	0	2	3	12	0	0	0	72
	0	3	2	11	9	9	0	1	3	6	0	0	0	18
	5	24	14	5	5	6	5	5	5	9	10	7	7	100
30AUG82	0	13	29	44	17	110	10	1	17	29	2	0	0	273
	0	8	19	24	9	98	5	1	9	29	2	0	0	108
	5	24	14	5	5	6	5	5	.5	9	10	7	7	100
13SEP82	0	23	10	4	31	18	0	1	0	4	4	0	0	93
	0	18	10	4	15	18	0	1	0	4	4	0	0	32
	5	24	14	5	5	6	5	5	5	9	10	7	7	100
27SEP82	0	0	10	2	12	11	3	0	3	0	0	0	0	40
	0	0	10	2	7	11	2	0	2	0	0	0	0	16
	5	24	14	5	5	6	5	5	5	9	10	7	7	100
11OCT82	2	6	2	0	6	41	4	0	0	0	45	0	0	105
	2	4	2	0	6	35	3	0	0	0	30	0	0	47
	5	24	14	5	5	6	5	5	5	9	10	7	7	100
TOTAL	2	45	52	76	74	193	17	4	24	45	51	0	0	583
	2	20	24	27	22	106	6	1	10	30	31	0	0	124
	25	120	70	25	25	30	25	25	25	45	50	35	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		
	S	R	S	R	S	R
09AUG82	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0
S.E. TOWS	0	0	0	0	0	0
NO. TOWS	7	12	30	8	46	27
23AUG82	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0
S.E. TOWS	0	0	0	0	0	0
NO. TOWS	7	12	30	8	46	27
06SEP82	0	0	0	0	0	0
ST. CROP	0	0	0	0	0	0
S.E. TOWS	0	0	0	0	0	0
NO. TOWS	7	12	30	8	46	27
20SEP82	10	10	0	0	0	0
ST. CROP	10	10	0	0	0	0
S.E. TOWS	7	12	30	8	46	27
NO. TOWS	7	12	30	8	46	27
04OCT82	0	109	0	0	0	0
ST. CROP	0	109	0	0	0	0
S.E. TOWS	0	109	0	0	0	0
NO. TOWS	7	12	30	8	46	27
TOTAL	10	119	0	0	0	0
ST. CROP	10	109	0	0	0	0
S.E. TOWS	35	60	150	40	230	135
NO. TOWS						

N -- STRATUM NOT SAMPLED

TABLE B-49 (CONTINUED).

WEEK BEGINNING MONDAY	ALEWIFE			INDIAN POINT			WEST POINT			YEARLING			CORNWALL		
	S	B	C	R	S	N	B	C	R	S	R	B	C	R	
															S
09AUG82	0	0	0	0	N		0	166	166	0	0	0	0	0	
	0	0	0	0	N		0	166	166	0	0	0	0	0	
	6	5	3	14	N		5	3	8	5	5	3	3	13	
23AUG82	0	0	0	0	N		0	0	0	0	0	0	0	0	
	0	0	0	0	N		0	0	0	0	0	0	0	0	
	6	5	3	14	N		5	3	8	5	5	3	3	13	
06SEP82	0	0	0	0	N		0	0	0	0	0	0	0	0	
	0	0	0	0	N		0	0	0	0	0	0	0	0	
	6	5	3	14	N		5	3	8	5	5	3	3	13	
20SEP82	0	17	0	17	N		0	0	0	0	0	0	0	0	
	0	17	0	17	N		0	0	0	0	0	0	0	0	
	6	5	3	14	N		5	3	8	5	5	3	3	13	
04OCT82	0	0	0	0	N		0	0	0	0	0	0	0	0	
	0	0	0	0	N		0	0	0	0	0	0	0	0	
	6	5	3	14	N		5	3	8	5	5	3	3	13	
TOTAL	0	17	0	17	N		0	166	166	30	107	0	0	137	
	0	17	0	17	N		0	166	166	19	79	0	0	81	
	30	25	15	70	N		25	15	40	25	25	15	15	65	

N -- STRATUM NOT SAMPLED

TAB' E B-49 (CONTINUED).

WEEK BEGINNING MONDAY	ALEWIFE			YEARLING			KINGSTON		
	POUGHKEEPSIE			HYDE PARK			B		
	S	R	C	S	R	C	S	R	C
09AUG82	N	0	0	N	0	0	N	0	0
ST. CROP	N	0	0	N	0	0	N	0	0
S.E. TOWS	N	5	3	N	8	4	N	10	6
23AUG82	N	0	0	N	0	0	N	0	0
ST. CROP	N	0	0	N	0	0	N	0	0
S.E. TOWS	N	5	3	N	8	4	N	10	6
06SEP82	N	0	0	N	0	0	N	0	0
ST. CROP	N	0	0	N	0	0	N	0	0
S.E. TOWS	N	5	3	N	8	4	N	10	6
20SEP82	N	27	0	N	27	0	N	0	0
ST. CROP	N	27	0	N	27	0	N	0	0
S.E. TOWS	N	5	3	N	8	4	N	10	6
04OCT82	N	65	0	N	65	0	N	0	0
ST. CROP	N	65	0	N	65	0	N	0	0
S.E. TOWS	N	5	3	N	8	4	N	10	6
TOTAL	N	92	0	N	92	0	N	0	0
ST. CROP	N	70	0	N	70	0	N	0	0
S.E. TOWS	N	25	15	N	40	20	N	50	30

N -- STRATUM NOT SAMPLED

TABLE B-49 (CONTINUED).

WEEK BEGINNING MONDAY	ALEWIFE		YEARLING							
	S	B	SAUGERTIES		R	S	B	CATSKILL		R
			C	C				C	C	
09AUG82	N	37	0	37	N	0	0	0	0	0
	N	27	0	27	N	0	0	0	0	0
	N	12	6	18	N	15	6	21	0	21
23AUG82	N	0	0	0	N	0	0	0	0	0
	N	0	0	0	N	0	0	0	0	0
	N	12	6	18	N	15	6	21	0	21
06SEP82	N	0	0	0	N	0	0	0	0	0
	N	0	0	0	N	0	0	0	0	0
	N	12	6	18	N	15	6	21	0	21
20SEP82	N	0	0	0	N	0	0	0	0	0
	N	0	0	0	N	0	0	0	0	0
	N	12	6	18	N	15	6	21	0	21
04OCT82	N	12	0	12	N	0	0	0	0	0
	N	12	0	12	N	0	0	0	0	0
	N	12	6	18	N	15	6	21	0	21
TOTAL	N	49	0	49	N	0	0	0	0	0
	N	29	0	29	N	0	0	0	0	0
	N	60	30	90	N	75	30	105	0	105

N -- STRATUM NOT SAMPLED

TABLE B-49 (CONTINUED).

WEEK BEGINNING MONDAY	ALEWIFE			YEARLING			R
	S	B	ALBANY C	R	S	B	
09AUG82	N	0	N	0	0	60	219
	N	0	N	0	0	31	174
	N	8	N	8	64	86	50
23AUG82	N	0	N	0	0	13	0
	N	0	N	0	0	13	0
	N	8	N	8	64	86	50
06SEP82	N	0	N	0	0	16	0
	N	0	N	0	0	16	0
	N	8	N	8	64	86	50
20SEP82	N	0	N	0	14	59	0
	N	0	N	0	11	35	0
	N	8	N	8	64	86	50
04OCT82	N	0	N	0	27	153	109
	N	0	N	0	19	100	109
	N	8	N	8	64	86	50
TOTAL	N	0	N	0	40	301	327
	N	0	N	0	22	113	205
	N	40	N	40	320	430	250
							669
							235
							1000

N -- STRATUM NOT SAMPLED

TABLE B-50
 STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
 BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY	ALEWIFE											AL	COMBINED	
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS			
16AUG82	2	2	0	0	0	0	0	0	0	0	0	0	0	3
S.E. NO. TOWS	2	2	0	0	0	0	0	0	0	0	0	0	0	2
	5	24	14	5	5	6	5	5	5	9	10	7	100	
30AUG82	0	2	0	0	0	0	0	0	0	0	0	0	2	
S.E. NO. TOWS	0	2	0	0	0	0	0	0	0	0	0	0	2	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
13SEP82	0	0	0	0	0	0	0	0	0	0	0	0	0	
S.E. NO. TOWS	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
27SEP82	0	0	0	0	0	0	0	0	0	0	0	0	0	
S.E. NO. TOWS	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
11OCT82	0	0	0	0	0	0	0	0	0	0	0	0	0	
S.E. NO. TOWS	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
TOTAL	2	4	0	0	0	0	0	0	0	0	0	0	5	
S.E. NO. TOWS	2	3	0	0	0	0	0	0	0	0	0	0	3	
	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.

WEEK BEGINNING MONDAY	YOUNG-OF-THE-YEAR											
	BAY ANCHOVY						CROTON-HAVERSTRAW					
	S	B	C	R	S	TAPPAN ZEE B	R	S	B	C	R	S
09AUG82	ST. CROP S.E. NO. TOWS	N	164091	173443	63885	29141	123019	216044	45773	35782	30509	112063
		N	35625	35699	6342	8520	55936	56936	4542	5261	8644	11092
		N	7	12	30	8	8	46	16	8	3	27
23AUG82	ST. CROP S.E. NO. TOWS	N	79402	121858	147195	36990	79844	264029	78872	58660	63917	201449
		N	21680	22590	13373	7955	15569	22012	14416	5881	16516	22697
		N	5	12	30	8	8	46	16	8	3	27
06SEP82	ST. CROP S.E. NO. TOWS	N	109467	139516	143911	298713	85985	528608	65072	85031	97027	247130
		N	21505	22846	17758	72539	17180	76632	8224	9658	82135	83109
		N	5	12	30	8	8	46	16	8	3	27
20SEP82	ST. CROP S.E. NO. TOWS	N	108271	134363	121085	124788	75199	321071	164006	91940	20572	276518
		N	32663	33570	9160	38836	13735	42200	22570	28933	4681	36992
		N	5	12	30	8	8	46	16	8	3	27
04OCT82	ST. CROP S.E. NO. TOWS	N	49795	53514	48169	55689	25413	129272	16412	48605	20104	85121
		N	6621	6660	4496	15755	4857	17089	2212	9311	3111	10063
		N	5	12	30	8	8	46	16	8	3	27
TOTAL	ST. CROP S.E. NO. TOWS	N	511026	622693	524245	389459	1459025	370134	320019	320019	232128	922282
		N	57553	58974	25269	84583	62279	108035	28467	32853	84411	94947
		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

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	S	INDIAN POINT		R	S	WEST POINT		R	S	CORNWALL		R
			B	C			B	C			B	C	
09AUG82	ST. CROP S.E. NO. TOWS	4016 3499 6	3379 1474 5	68270 17739 3	75665 18141 14	N N N	1496 482 5	16011 1316 3	17507 1401 8	437 165 5	1894 325 5	22672 4567 3	25003 4582 13
23AUG82	ST. CROP S.E. NO. TOWS	2976 1261 6	2684 1362 5	82471 38971 3	88131 39016 14	N N N	2003 746 5	8763 1923 3	10766 2063 8	8 5 5	4393 3139 5	34874 28183 3	39275 28357 13
06SEP82	ST. CROP S.E. NO. TOWS	3786 828 6	11050 4385 5	57358 37463 3	72195 37728 14	N N N	1616 794 5	7953 4343 3	9569 4415 8	3946 2139 5	8732 2876 5	23148 20018 3	35826 20336 13
20SEP82	ST. CROP S.E. NO. TOWS	3830 995 6	11495 3437 5	25042 11416 3	40366 11963 14	N N N	8236 1770 5	7213 5150 3	15449 5446 8	5457 1357 5	13992 3748 5	24748 16109 3	44197 16595 13
04OCT82	ST. CROP S.E. NO. TOWS	2538 111 6	19528 5719 5	14155 6421 3	36221 8599 14	N N N	7600 1087 5	16471 8852 3	24071 8918 8	1257 349 5	6574 1396 5	10057 5760 3	17888 5937 13
TOTAL	ST. CROP S.E. NO. TOWS	17146 3940 30	48136 8233 25	247295 58382 15	312577 59091 70	N N N	20951 2394 25	56410 11365 15	77361 11615 40	11103 2563 25	35585 5850 25	115500 38840 15	162188 39361 65

N -- STRATUM NOT SAMPLED.

TABLE B-51 (CONTINUED).

YOUNG-OF-THE-YEAR

BAY ANCHOVY

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	S	POUGHKEEPSIE			HYDE PARK			KINGSTON			R
			B	C	R	S	B	C	R	S	B	
09AUG82		N	817	11363	12180	107	138	171	90	246	N	261
		N	511	11363	11374	75	138	69	62	157	N	93
		N	5	3	8	6	4	9	6	10	N	15
23AUG82		N	326	10342	10668	262	1114	630	1425	1376	N	2056
		N	218	9264	9266	55	379	190	615	383	N	644
		N	5	3	8	6	4	9	6	10	N	15
06SEP82		N	14108	4484	18592	232	2299	213	2307	2530	N	2520
		N	12887	1428	12966	61	1114	102	873	1116	N	879
		N	5	3	8	6	4	9	6	10	N	15
20SEP82		N	1068	6370	7438	358	3347	21	400	3705	N	421
		N	452	2967	3001	63	961	14	126	963	N	126
		N	5	3	8	6	4	9	6	10	N	15
04OCT82		N	5540	69108	74648	203	239	54	137	442	N	191
		N	1595	26081	26129	84	239	29	137	253	N	140
		N	5	3	8	6	4	9	6	10	N	15
TOTAL		N	21858	101667	123525	1163	7136	1089	4360	8298	N	5449
		N	13005	30099	32789	153	1544	229	1085	1551	N	1109
		N	25	15	40	30	20	45	30	50	N	75

N -- STRATUM NOT SAMPLED

TABLE B-51 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-51 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY			ALBANY			YOUNG-OF-THE-YEAR			COMBINED		
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	N	0	N	0	123462	72867	436201	632530	N	0	N	0
	N	0	N	0	8852	10152	70279	71558	N	0	N	0
	N	8	N	8	64	86	50	200	N	8	N	8
23AUG82	N	39	N	39	271507	106324	363201	741032	N	25	N	25
	N	25	N	25	20700	10499	58216	62672	N	8	N	8
	N	8	N	8	64	86	50	200	N	8	N	8
06SEP82	N	0	N	0	246763	419760	390027	1056551	N	0	N	0
	N	0	N	0	21160	74495	96597	123807	N	0	N	0
	N	8	N	8	64	86	50	200	N	8	N	8
20SEP82	N	65	N	65	320469	251978	271161	843608	N	32	N	32
	N	32	N	32	25617	48729	41274	68806	N	8	N	8
	N	8	N	8	64	86	50	200	N	8	N	8
04OCT82	N	0	N	0	72094	143815	205480	421388	N	0	N	0
	N	0	N	0	5075	19321	30169	36183	N	0	N	0
	N	8	N	8	64	86	50	200	N	8	N	8
TOTAL	N	103	N	103	1034295	994744	1666071	3695110	N	41	N	41
	N	41	N	41	40455	92253	142382	174413	N	40	N	40
	N	40	N	40	320	430	250	1000	N	40	N	40

N -- STRATUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	BAY ANCHOVY											AL	COMBINED	
	YK	TZ	CH	IP	WP	REGIONS			KG	SG	CS			
						CW	PK	HP						
16AUG82	39	638	4	260	0	0	0	0	0	0	0	0	0	941
	32	456	4	255	0	0	0	0	0	0	0	0	0	524
	5	24	14	5	5	6	5	5	5	9	10	7	7	100
30AUG82	89	9880	0	149	0	0	0	0	0	0	0	0	0	10118
	57	8621	0	149	0	0	0	0	0	0	0	0	0	8622
	5	24	14	5	5	6	5	5	5	9	10	7	7	100
13SEP82	758	174	0	347	24	0	0	0	0	0	0	0	0	1302
	652	114	0	212	17	0	0	0	0	0	0	0	0	696
	5	24	14	5	5	6	5	5	5	9	10	7	7	100
27SEP82	71	182	61	0	0	0	312	0	0	0	0	0	0	626
	53	139	57	0	0	0	312	0	0	0	0	0	0	350
	5	24	14	5	5	6	5	5	5	9	10	7	7	100
11OCT82	130	81	242	155	9	2	95	0	0	0	0	0	0	714
	87	33	170	101	9	2	92	0	0	0	0	0	0	237
	5	24	14	5	5	6	5	5	5	9	10	7	7	100
TOTAL	1086	10956	307	910	33	2	407	0	0	0	0	0	0	13701
	664	8635	179	378	19	2	325	0	0	0	0	0	0	8677
	25	120	70	25	25	30	25	25	25	45	50	35	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
 AUG 16 - AUG 22

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR=#
 ADJUSTED BEACH SEINE EFFICIENCY = STDE=#
 ADJUSTED ICHTHYO EFFICIENCY = STDS=#
 # 1

VAR(STDR) #
 VAR(STDE) #

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # # 1
 ADJUSTED BEACH SEINE EFFICIENCY = STDE= # # 1
 ADJUSTED ICTHYO 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
 AUG 30 - SEP 5

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

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

VAR(STDR) #
 VAR(STDE) #

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

BAY ANCHOVY
 TABLE B-53 (CONTINUED).
 YOUNG-OF-THE-YEAR
 SEP 6 - SEP 12

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # #
 ADJUSTED BEACH SEINE EFFICIENCY = STDE= # #
 ADJUSTED ICHTHYO EFFICIENCY = STDS= # #
 # 1

VAR(SIDR) #
 VAR(STDE) #

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

BAY ANCHOVY
 TABLE B-53 (CONTINUED).
 YOUNG-OF-THE-YEAR
 SEP 13 - SEP 19

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= # # 1
 ADJUSTED BEACH SEINE EFFICIENCY = STDE= # # 1
 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				REGIONAL TOTALS	
	SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL		
YONKERS	ST. CROP SE	758 652	19569 5815	58168 * 17283 *	76596 23107	155090 29443
TAPPAN ZEE	ST. CROP SE	174 114	90814 6870	124788 38836	75199 13735	290974 41763
CROTON-HAVERSTRAW	ST. CROP SE	0 0	123004 16928	91940 28933	20572 4681	235517 33846
INDIAN POINT	ST. CROP SE	347 212	2872 746	11495 3437	25042 11416	39755 11947
WEST POINT	ST. CROP SE	24 17	562 * 121 *	7487 1609	7213 5150	15286 5397
CORNWALL	ST. CROP SE	0 0	4092 1018	13992 3748	24748 16109	42833 16570
POUGHKEEPSIE	ST. CROP SE	0 0	69 * 29 *	975 413	6370 2967	7415 2996
HYDE PARK	ST. CROP SE	0 0	18 * 3 *	334 58	3347 961	3699 962
KINGSTON	ST. CROP SE	0 0	4 * 3 *	16 10	400 126	420 126
SAUGERTIES	ST. CROP SE	0 0	0 * 0 *	0 0	0 0	0 0
CATSKILL	ST. CROP SE	0 0	5 * 5 *	8 8	0 0	13 10
ALBANY	ST. CROP SE	0 0	17 * 9 *	12 6	29 * 14 *	59 18
STRATUM TOTAL	ST. CROP SE	1302 696	241027 * 19213 *	309215 51698	239516 * 34214 *	791060 64907

ADJUSTED NIGHT/DAY CATCH RATIO = STDR=#
 ADJUSTED BEACH SEINE EFFICIENCY = STDE=#
 ADJUSTED ICHTHYO EFFICIENCY = STDS=#
 # 1
 *--ESTIMATED VALUE
 N--NO SAMPLE TAKEN
 #--STD ERROR COULD NOT BE CALCULATED

TABLE B-53 (CONTINUED).
 BAY ANCHOVY
 SEP 27 - OCT 3
 YOUNG-OF-THE-YEAR

REGION	SHORE ZONE		SHOAL (10'-20')		STRATUM		CHANNEL	REGIONAL TOTALS
	ST. CROP	SE	ST. CROP	SE	BOTTOM	CHANNEL		
YONKERS	71	11179 *	33229 *	55912 *	100390			
	53	3177 *	9444 *	13896 *	17099			
TAPPAN ZEE	182	63470 *	90239 *	50306 *	204197			
	139	5121 *	27295 *	9296 *	29287			
CROTON-HAVERSTRAW	61	67657 *	70273 *	20338 *	158329			
	57	9293 *	19122 *	3896 *	21615			
INDIAN POINT	0	2388 *	15511 *	19598 *	37498			
	0	415 *	4578 *	8918 *	10033			
WEST POINT	0	540 *	7198 *	11842 *	19580			
	0	97 *	1298 *	7001 *	7121			
CORNWALL	0	2517 *	10283 *	17403 *	30203			
	0	640 *	2572 *	10934 *	11251			
POUGHKEEPSIE	312	215 *	3018 *	37739 *	41284			
	312	67 *	935 *	14524 *	14557			
HYDE PARK	0	14 *	262 *	1793 *	2069			
	0	4 *	68 *	600 *	604			
KINGSTON	0	7 *	28 *	269 *	304			
	0	4 *	16 *	131 *	133			
SAUGERTIES	0	3 *	7 *	0 *	10			
	0	3 *	7 *	0 *	8			
CATSKILL	0	3 *	4 *	0 *	7			
	0	3 *	4 *	0 *	5			
ALBANY	0	9 *	6 *	15 *	29			
	0	4 *	3 *	7 *	9			
STRATUM TOTAL	626	148001 *	230057 *	215214 *	593898			
	351	111103 *	35071 *	27461 *	45908			

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= #
 ADJUSTED BEACH SEINE EFFICIENCY = STDE= #
 ADJUSTED ICHTHYO EFFICIENCY = STDS= # 1

VAR(STDR) #
 VAR(STDE) #

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

BAY ANCHOVY
 TABLE B-53 (CONTINUED)
 OCT 4 - OCT 10
 YOUNG-OF-THE-YEAR

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= #
 ADJUSTED BEACH SEINE EFFICIENCY = STDE= #
 ADJUSTED ICHTHYO EFFICIENCY = STDS= # 1

VAR(STDR) #
 VAR(STDE) #

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

BAY ANCHOVY
 TABLE B-53 (CONTINUED).
 OCT 11 - OCT 17
 YOUNG-OF-THE-YEAR

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= #
 ADJUSTED BEACH SEINE EFFICIENCY = STDE= #
 ADJUSTED ICHTHYO EFFICIENCY = STDS= #
 # 1

*--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.

WEEK BEGINNING MONDAY	BAY ANCHOVY											
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			YEARLING		
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	873	N	1877	2750	6547	249	1023	7818	2762	713	299	3774
	249	N	201	320	809	114	345	887	381	241	299	541
	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	696	N	839	1535	4995	781	1681	7457	1044	1569	52	2665
	94	N	233	252	711	188	824	1104	341	256	52	430
	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	947	N	242	1189	2757	877	1527	5161	518	915	0	1433
	403	N	149	430	369	219	343	549	86	143	0	167
	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	728	N	0	728	830	995	113	1939	477	619	37	1132
	384	N	0	384	145	215	113	283	120	141	37	188
	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	78	N	600	678	295	181	87	563	74	11	0	86
	43	N	278	281	59	70	87	126	27	11	0	29
	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	3322	N	3559	6880	15424	3083	4431	22938	4875	3827	388	9090
	619	N	441	760	1150	384	967	1551	533	406	306	736
	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	ST. CROP S.E. NO. TOWS	S	INDIAN POINT			R	S	WEST POINT			R	S	CORNWALL			R
			B	C	C			B	C	C			B	C	C	
09AUG82	459 125 6	963 267 5	10605 4237 3	12027 4248 14	N N N	748 121 5	10728 4940 3	11476 4941 8	1937 1018 5	2588 391 5	1654 1329 3	6178 1719 13				
23AUG82	144 33 6	434 203 5	550 550 3	1128 588 14	N N N	627 251 5	4593 2861 3	5220 2871 8	7 5 5	1714 956 5	14768 8961 3	16489 9012 13				
06SEP82	260 96 6	653 321 5	397 397 3	1310 520 14	N N N	256 74 5	343 343 3	600 351 8	3138 717 5	1294 430 5	480 278 3	4912 881 13				
20SEP82	55 30 6	381 98 5	0 0 3	436 103 14	N N N	160 61 5	584 293 3	744 300 8	763 207 5	887 404 5	2193 1072 3	3843 1164 13				
04OCT82	11 11 6	28 17 5	0 0 3	39 21 14	N N N	287 61 5	560 280 3	847 287 8	252 156 5	224 97 5	238 133 3	715 227 13				
TOTAL	929 164 30	2459 475 25	11553 4291 15	14941 4321 70	N N N	2077 301 25	16809 5733 15	18886 5741 40	6098 1271 25	6707 1194 25	19334 9127 15	32138 9293 65				

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY			POUGHKEEPSIE			HYDE PARK			YEARLING			KINGSTON				
	S	R	S	B	C	S	B	C	R	S	B	C	R	S	B	C	
																	R
09AUG82	ST. CROP	N	4632	3966	666	N	235	419	653	N	25	0	25	N	25	0	25
	S.E.	N	1210	1201	147	N	96	316	330	N	25	0	25	N	25	0	25
	NO. TOWS	N	8	5	3	N	6	4	10	N	9	6	6	N	9	6	15
23AUG82	ST. CROP	N	1016	850	166	N	49	202	251	N	68	73	141	N	68	73	141
	S.E.	N	792	775	166	N	26	202	204	N	34	47	58	N	34	47	58
	NO. TOWS	N	8	5	3	N	6	4	10	N	9	6	15	N	9	6	15
06SEP82	ST. CROP	N	1688	818	870	N	44	244	288	N	26	74	100	N	26	74	100
	S.E.	N	845	694	482	N	31	168	171	N	17	48	51	N	17	48	51
	NO. TOWS	N	8	5	3	N	6	4	10	N	9	6	15	N	9	6	15
20SEP82	ST. CROP	N	619	460	159	N	124	209	333	N	23	300	323	N	23	300	323
	S.E.	N	327	286	159	N	62	132	145	N	15	133	134	N	15	133	134
	NO. TOWS	N	8	5	3	N	6	4	10	N	9	6	15	N	9	6	15
04OCT82	ST. CROP	N	851	851	0	N	16	0	16	N	0	41	41	N	0	41	41
	S.E.	N	594	594	0	N	16	0	16	N	0	41	41	N	0	41	41
	NO. TOWS	N	8	5	3	N	6	4	10	N	9	6	15	N	9	6	15
TOTAL	ST. CROP	N	8807	6946	1861	N	468	1073	1541	N	141	489	630	N	141	489	630
	S.E.	N	1807	1720	554	N	122	431	448	N	47	155	162	N	47	155	162
	NO. TOWS	N	40	25	15	N	30	20	50	N	45	30	75	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY			YEARLING					
	S	SAUCERTIES B C	R	S	B	CATSKILL C	R		
09AUG82	N	0	0	N	0	0	0		
S.E.	N	0	0	N	0	0	0		
NO. TOWS	N	12	6	N	15	6	21		
23AUG82	N	13	0	N	0	0	0		
S.E.	N	13	0	N	0	0	0		
NO. TOWS	N	12	6	N	15	6	21		
06SEP82	N	0	0	N	0	0	0		
S.E.	N	0	0	N	0	0	0		
NO. TOWS	N	12	6	N	15	6	21		
20SEP82	N	0	0	N	0	0	0		
S.E.	N	0	0	N	0	0	0		
NO. TOWS	N	12	6	N	15	6	21		
04OCT82	N	0	0	N	0	0	0		
S.E.	N	0	0	N	0	0	0		
NO. TOWS	N	12	6	N	15	6	21		
TOTAL	N	13	0	N	0	0	0		
S.E.	N	13	0	N	0	0	0		
NO. TOWS	N	60	30	N	75	30	105		

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY			YEARLING			R
	S	B	ALBANY C	R	S	COMBINED B C	
09AUG82	N	0	N	0	12578	9485	49333
S.E.	N	0	N	0	1384	1327	6941
NO. TOWS	N	8	N	8	64	86	200
23AUG82	N	0	N	0	6886	6105	35916
S.E.	N	0	N	0	795	1312	9589
NO. TOWS	N	8	N	8	64	86	200
06SEP82	N	0	N	0	7620	4883	16681
S.E.	N	0	N	0	911	920	1559
NO. TOWS	N	8	N	8	64	86	200
20SEP82	N	0	N	0	2853	3649	10098
S.E.	N	0	N	0	476	573	1366
NO. TOWS	N	8	N	8	64	86	200
04OCT82	N	0	N	0	711	1598	3835
S.E.	N	0	N	0	175	609	764
NO. TOWS	N	8	N	8	64	86	200
TOTAL	N	0	N	0	30647	25720	115863
S.E.	N	0	N	0	1906	2242	12041
NO. TOWS	N	40	N	40	320	430	1000

N -- STRATUM NOT SAMPLED

TABLE B-55
 STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
 BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY	BAY ANCHOVY											YEARLING		
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED	
16AUG82	6	9	6	109	0	0	0	0	0	0	0	0	130	
	4	6	6	109	0	0	0	0	0	0	0	0	109	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
30AUG82	3	13	0	6	0	0	0	0	0	0	0	0	22	
	2	8	0	6	0	0	0	0	0	0	0	0	10	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
13SEP82	12	30	0	2	0	0	0	0	0	0	0	0	44	
	10	27	0	2	0	0	0	0	0	0	0	0	29	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
27SEP82	11	55	0	0	0	0	0	0	0	0	0	0	65	
	7	29	0	0	0	0	0	0	0	0	0	0	30	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
11OCT82	62	2	0	0	0	0	0	0	0	0	0	0	64	
	44	2	0	0	0	0	0	0	0	0	0	0	44	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
TOTAL	93	110	6	116	0	0	0	0	0	0	0	0	325	
	46	41	6	109	0	0	0	0	0	0	0	0	125	
	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.

WEEK BEGINNING MONDAY	BAY ANCHOVY			OLDER			CROTON-HAVERSTRAW		
	S	B	R	S	B	R	S	B	R
09AUG82	0	N	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0
	7	N	5	12	8	46	16	8	3
23AUG82	0	N	0	117	0	117	0	0	0
	0	N	0	117	0	117	0	0	0
	7	N	5	30	8	46	16	8	3
06SEP82	0	N	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0
	7	N	5	30	8	46	16	8	3
20SEP82	0	N	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0
	7	N	5	30	8	46	16	8	3
04OCT82	0	N	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0
	7	N	5	30	8	46	16	8	3
TOTAL	0	N	0	0	0	0	0	0	0
	0	N	0	117	0	117	0	0	0
	35	N	25	150	40	230	80	40	15

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY			INDIAN POINT			OLDER			CORNWALL		
	S	R	S	B	C	R	S	R	S	B	C	R
09AUG82	0	0	N	0	0	0	0	0	0	0	0	0
	0	0	N	0	0	0	0	0	0	0	0	0
	6	14	N	3	5	8	5	3	0	0	3	13
23AUG82	0	0	N	0	0	0	0	0	0	0	0	0
	0	0	N	0	0	0	0	0	0	0	0	0
	6	14	N	3	5	8	5	3	0	0	3	13
06SEP82	0	0	N	0	0	0	0	0	0	0	0	0
	0	0	N	0	0	0	0	0	0	0	0	0
	6	14	N	3	5	8	5	3	0	0	3	13
20SEP82	0	0	N	0	0	0	0	0	0	0	0	0
	0	0	N	0	0	0	0	0	0	0	0	0
	6	14	N	3	5	8	5	3	0	0	3	13
04OCT82	0	0	N	0	0	0	0	0	0	0	0	0
	0	0	N	0	0	0	0	0	0	0	0	0
	6	14	N	3	5	8	5	3	0	0	3	13
TOTAL	0	0	N	0	0	0	0	0	0	0	0	0
	0	0	N	0	0	0	0	0	0	0	0	0
	30	70	N	15	25	40	25	15	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-56 (CONTINUED).

WEEK BEGINNING MONDAY	POUGHKEEPSIE			HYDE PARK			OLDER			KINGSTON		
	S	R	C	S	R	C	S	R	C	S	R	C
09AUG82	ST. CROP	0	0	N	0	0	N	0	0	N	0	0
	S.E. TOWS	0	0	N	0	0	N	0	0	N	0	0
		5	3	N	8	4	N	10	6	N	9	6
23AUG82	ST. CROP	0	0	N	0	0	N	0	0	N	0	0
	S.E. TOWS	0	0	N	0	0	N	0	0	N	0	0
		5	3	N	8	4	N	10	6	N	9	6
06SEP82	ST. CROP	0	0	N	0	0	N	0	0	N	0	0
	S.E. TOWS	0	0	N	0	0	N	0	0	N	0	0
		5	3	N	8	4	N	10	6	N	9	6
20SEP82	ST. CROP	0	0	N	0	0	N	26	0	N	0	0
	S.E. TOWS	0	0	N	0	0	N	26	0	N	0	0
		5	3	N	8	4	N	10	6	N	9	6
04OCT82	ST. CROP	0	0	N	0	0	N	0	0	N	0	0
	S.E. TOWS	0	0	N	0	0	N	0	0	N	0	0
		5	3	N	8	4	N	10	6	N	9	6
TOTAL	ST. CROP	0	0	N	0	0	N	26	0	N	0	0
	S.E. TOWS	0	0	N	0	0	N	26	0	N	0	0
		25	15	N	40	20	N	50	30	N	45	30

N -- STRATUM NOT SAMPLED

TABLE B-56 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY			OLDER				
	S	B	C	R	S	B	C	R
09AUG82	N	0	0	0	N	0	0	0
ST. CROP	N	0	0	0	N	0	0	0
S.E. TOWS	N	12	6	18	N	15	6	21
23AUG82	N	0	0	0	N	0	0	0
ST. CROP	N	0	0	0	N	0	0	0
S.E. TOWS	N	12	6	18	N	15	6	21
06SEP82	N	0	0	0	N	0	0	0
ST. CROP	N	0	0	0	N	0	0	0
S.E. TOWS	N	12	6	18	N	15	6	21
20SEP82	N	0	0	0	N	0	0	0
ST. CROP	N	0	0	0	N	0	0	0
S.E. TOWS	N	12	6	18	N	15	6	21
04OCT82	N	0	0	0	N	0	0	0
ST. CROP	N	0	0	0	N	0	0	0
S.E. TOWS	N	12	6	18	N	15	6	21
TOTAL	N	60	30	90	N	75	30	105
ST. CROP	N	0	0	0	N	0	0	0
S.E. TOWS	N	0	0	0	N	0	0	0

N -- STRATUM NOT SAMPLED

TABLE B-56 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY			ALBANY			OLDER			COMBINED		
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	N	0	N	0	0	0	0	0	0	0	0	0
	N	0	N	0	0	0	0	0	0	0	0	0
	N	8	N	8	64	86	50	200				
23AUG82	N	0	N	0	117	0	0	0	117	0	0	117
	N	0	N	0	117	0	0	0	117	0	0	117
	N	8	N	8	64	86	50	200				
06SEP82	N	0	N	0	0	0	0	0	0	0	0	0
	N	0	N	0	0	0	0	0	0	0	0	0
	N	8	N	8	64	86	50	200				
20SEP82	N	0	N	0	0	26	0	0	26	0	0	26
	N	0	N	0	0	26	0	0	26	0	0	26
	N	8	N	8	64	86	50	200				
04OCT82	N	0	N	0	0	0	0	0	0	0	0	0
	N	0	N	0	0	0	0	0	0	0	0	0
	N	8	N	8	64	86	50	200				
TOTAL	N	0	N	0	117	26	0	0	142	26	0	142
	N	0	N	0	117	26	0	0	119	26	0	119
	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-HAVERSTRAM			R			
	S	B	C	R	S	B	'C	R	S	B	C	R	
09AUG82	ST. CROP S.E. NO. TOWS	1741 499 7	N N N	4547 1204 5	6289 1303 12	1892 347 30	536 331 8	1998 848 8	4426 974 46	506 121 16	718 278 8	513 267 3	1737 404 27
23AUG82	ST. CROP S.E. NO. TOWS	405 96 7	N N N	734 357 5	1140 370 12	430 91 30	370 104 8	275 115 8	1076 181 46	25 14 16	263 58 8	212 142 3	500 154 27
06SEP82	ST. CROP S.E. NO. TOWS	701 363 7	N N N	115 115 5	816 381 12	807 203 30	547 153 8	366 154 8	1720 297 46	30 21 16	284 97 8	0 0 3	314 100 27
20SEP82	ST. CROP S.E. NO. TOWS	522 258 7	N N N	0 0 5	522 258 12	33 24 30	185 62 8	44 44 8	262 80 46	0 0 16	174 47 8	0 0 3	174 47 27
04OCT82	ST. CROP S.E. NO. TOWS	30 14 7	N N N	0 0 5	30 14 12	44 21 30	25 25 8	44 44 8	113 55 46	0 0 16	0 0 8	0 0 3	0 0 27
TOTAL	ST. CROP S.E. NO. TOWS	3400 676 35	N N N	5397 1261 25	8797 1430 60	3206 414 150	1663 385 40	2727 872 40	7596 1039 230	561 124 80	1439 304 40	725 302 15	2725 446 135

N -- STRATUM NOT SAMPLED

TABLE B-57 (CONTINUED).
WEAKFISH
YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	S	INDIAN POINT			R	S	WEST POINT			R	S	CORNWALL			R
			B	C	C			B	C	C			B	C	B	
09AUG82	ST. CROP S.E. NO. TOWS	343 73 6	1928 464 5	7010 3448 3	9281 3480 14	N N N	804 330 5	5986 2792 3	6789 2812 8	0 0 5	0 0 5	0 0 3	0 0 3	0 0 13	0 0 13	
23AUG82	ST. CROP S.E. NO. TOWS	23 9 6	297 194 5	440 440 3	761 481 14	N N N	0 0 5	0 0 3	0 0 8	0 0 5	0 0 5	0 0 3	0 0 3	0 0 13	0 0 13	
06SEP82	ST. CROP S.E. NO. TOWS	79 37 6	692 293 5	1147 784 3	1918 838 14	N N N	134 42 5	701 701 3	835 702 8	0 0 5	18 18 5	0 0 3	0 0 3	0 0 13	18 18 13	
20SEP82	ST. CROP S.E. NO. TOWS	0 0 6	62 16 5	0 0 3	62 16 14	N N N	41 28 5	0 0 3	41 28 8	30 26 5	16 16 5	0 0 3	0 0 3	0 0 13	47 31 13	
04OCT82	ST. CROP S.E. NO. TOWS	5 5 6	67 50 5	0 0 3	72 51 14	N N N	77 60 5	0 0 3	77 60 8	15 15 5	61 25 5	0 0 3	0 0 3	0 0 13	76 29 13	
TOTAL	ST. CROP S.E. NO. TOWS	450 83 30	3046 584 25	8598 3563 15	12093 3612 70	N N N	1055 339 25	6686 2879 15	7741 2899 40	46 30 25	95 35 25	0 0 15	0 0 15	0 0 65	141 46 65	

N -- STRATUM NOT SAMPLED

TABLE B-57 (CONTINUED).

WEAKFISH YOUNG-OF-THE-YEAR

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

N -- STRATUM NOT SAMPLED

TABLE B-57 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-57 (CONTINUED).

WEEK BEGINNING MONDAY	WEAKFISH										YOUNG-OF-THE-YEAR		
	S	B	ALBANY	C	R	S	B	COMBINED	C	R			
09AUG82	N	0	0	N	0	4482	3986	20054	28521				
ST. CROP	N	0	0	N	0	624	714	4682	4778				
S.E. TOWS	N	8	8	N	8	64	86	50	200				
23AUG82	N	0	0	N	0	884	931	1662	3477				
ST. CROP	N	0	0	N	0	133	228	596	652				
S.E. TOWS	N	8	8	N	8	64	86	50	200				
06SEP82	N	0	0	N	0	1617	1675	2329	5621				
ST. CROP	N	0	0	N	0	418	347	1069	1199				
S.E. TOWS	N	8	8	N	8	64	86	50	200				
20SEP82	N	0	0	N	0	586	478	44	1108				
ST. CROP	N	0	0	N	0	261	86	44	278				
S.E. TOWS	N	8	8	N	8	64	86	50	200				
04OCT82	N	0	0	N	0	93	229	44	366				
ST. CROP	N	0	0	N	0	30	86	44	101				
S.E. TOWS	N	8	8	N	8	64	86	50	200				
TOTAL	N	0	0	N	0	7662	7299	24132	39093				
ST. CROP	N	0	0	N	0	807	835	4840	4978				
S.E. TOWS	N	40	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.

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS					SG	CS	AL	COMBINED
						CW	PK	HP	KG	SG				
16AUG82	14	0	0	0	0	0	0	0	0	0	0	0	0	14
	9	0	0	0	0	0	0	0	0	0	0	0	0	9
	5	24	14	5	5	6	5	5	5	9	10	7	100	
30AUG82	5	0	0	0	0	0	0	0	0	0	0	0	0	5
	5	0	0	0	0	0	0	0	0	0	0	0	0	5
	5	24	14	5	5	6	5	5	5	9	10	7	100	
13SEP82	6	0	0	0	0	0	0	0	0	0	0	0	0	6
	4	0	0	0	0	0	0	0	0	0	0	0	0	4
	5	24	14	5	5	6	5	5	5	9	10	7	100	
27SEP82	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	5	24	14	5	5	6	5	5	5	9	10	7	100	
11OCT82	3	0	0	0	0	0	0	0	0	0	0	0	0	3
	2	0	0	0	0	0	0	0	0	0	0	0	0	2
	5	24	14	5	5	6	5	5	5	9	10	7	100	
TOTAL	27	2	0	0	0	0	0	0	0	0	0	0	0	29
	11	2	0	0	0	0	0	0	0	0	0	0	0	11
	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			TAPPAN ZEE			CROTON-HAVERS STRAW		
	S	R	C	S	R	C	S	R	C
10MAY82	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	3	6	3	3	10	3	6	3	5
17MAY82	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	3	6	3	3	10	3	6	3	4
24MAY82	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	3	6	3	3	11	4	5	4	3
31MAY82	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	3	6	3	3	11	4	5	4	3
07JUN82	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	3	6	3	3	11	4	5	4	3
14JUN82	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	1	9	8	3	14	5	4	4	6
21JUN82	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	1	10	9	3	14	5	4	4	6
28JUN82	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	1	9	8	3	14	5	4	4	6
05JUL82	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	1	9	8	3	14	5	4	4	6
TOTAL	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	19	67	48	27	109	40	43	42	43

N -- STRATUM NOT SAMPLED

TABLE B-59 (CONTINUED).
WHITE CATFISH
YOUNG-OF-THE-YEAR

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

N -- STRATUM NOT SAMPLED

TABLE B-59 (CONTINUED).

WHITE CATFISH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	POUGHKEEPSIE			HYDE PARK			KINGSTON		
	S	R	C	S	R	C	S	R	C
10MAY82									
ST. CROP	N	0	0	N	0	0	N	0	0
S.E. TOWS	N	0	0	N	0	0	N	0	0
	N	9	10	N	19	11	N	20	7
17MAY82									
ST. CROP	N	0	0	N	0	0	N	0	0
S.E. TOWS	N	0	0	N	0	0	N	0	0
	N	10	10	N	20	11	N	20	7
24MAY82									
ST. CROP	N	0	0	N	0	0	N	0	0
S.E. TOWS	N	0	0	N	0	0	N	0	0
	N	17	22	N	39	12	N	19	6
31MAY82									
ST. CROP	N	0	0	N	0	0	N	0	0
S.E. TOWS	N	0	0	N	0	0	N	0	0
	N	16	22	N	38	12	N	19	6
07JUN82									
ST. CROP	N	0	0	N	0	0	N	0	0
S.E. TOWS	N	0	0	N	0	0	N	0	0
	N	16	22	N	38	12	N	19	6
14JUN82									
ST. CROP	N	0	0	N	0	0	N	0	0
S.E. TOWS	N	0	0	N	0	0	N	0	0
	N	7	13	N	20	11	N	16	7
21JUN82									
ST. CROP	N	0	0	N	0	0	N	0	0
S.E. TOWS	N	0	0	N	0	0	N	0	0
	N	7	15	N	22	8	N	13	7
28JUN82									
ST. CROP	N	0	0	N	0	0	N	0	0
S.E. TOWS	N	0	0	N	0	0	N	0	0
	N	7	15	N	22	9	N	14	6
05JUL82									
ST. CROP	N	0	0	N	0	0	N	0	0
S.E. TOWS	N	0	0	N	0	0	N	0	0
	N	7	15	N	22	9	N	14	6
TOTAL									
ST. CROP	N	0	0	N	0	0	N	0	0
S.E. TOWS	N	0	0	N	0	0	N	0	0
	N	96	144	N	240	95	N	154	58

N -- STRATUM NOT SAMPLED

TABLE B-59 (CONTINUED).
 WHITE CATFISH
 YOUNG-OF-THE-YEAR

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

N -- STRATUM NOT SAMPLED

TABLE B-59 (CONTINUED).
WHITE CATFISH

YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	ALBANY		COMBINED		R
	S	B	S	B	
10MAY82	N	0	0	0	0
	N	0	0	0	0
	N	5	5	0	0
17MAY82	N	0	0	0	0
	N	0	0	0	0
	N	5	5	0	0
24MAY82	N	0	0	0	0
	N	0	0	0	0
	N	3	3	0	0
31MAY82	N	0	0	0	0
	N	0	0	0	0
	N	3	3	0	0
07JUN82	N	0	0	0	0
	N	0	0	0	0
	N	3	3	0	0
14JUN82	N	0	0	0	0
	N	0	0	0	0
	N	3	3	0	0
21JUN82	N	0	0	0	0
	N	0	0	0	0
	N	3	3	0	0
28JUN82	N	0	0	0	0
	N	0	0	0	0
	N	3	3	0	0
05JUL82	N	0	0	0	0
	N	0	0	0	0
	N	3	3	0	0
TOTAL	N	0	0	0	0
	N	0	0	0	0
	N	31	31	0	0

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	WHITE CATFISH											
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			STRATUM		
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	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	ST. CROP S.E. NO. TOWS	S	INDIAN POINT			R	S	WEST POINT			R	S	CORNWALL			R
			B	C	C			B	C	B			C	B	C	
09AUG82	0	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0
	6	6	5	3	14	14	N	5	3	8	5	3	5	3	13	13
23AUG82	0	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0
	6	6	5	3	14	14	N	5	3	8	5	3	5	3	13	13
06SEP82	0	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0
	6	6	5	3	14	14	N	5	3	8	5	3	5	3	13	13
20SEP82	0	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0
	6	6	5	3	14	14	N	5	3	8	5	3	5	3	13	13
04OCT82	0	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0
	6	6	5	3	14	14	N	5	3	8	5	3	5	3	13	13
TOTAL	0	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	N	0	0	0	0	0	0	0	0	0
	30	30	25	15	70	70	N	25	15	40	25	15	25	15	65	65

N -- STRATUM NOT SAMPLED

TABLE B-60
(CONTINUED).

WHITE CATFISH

YOUNG-OF-THE-YEAR

WEEK
BEGINNING
MONDAY

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	POUGHKEEPSIE			R	S	HYDE PARK			R	S	KINGSTON			R	
		B	C	S			B	C	R			B	C	R		B
09AUG82	ST. CROP	0	0	0	0	N	0	0	0	0	N	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	N	0	0	0	0	0
	NO. TOWS	5	3	8	8	N	6	4	4	10	N	9	6	6	15	15
23AUG82	ST. CROP	0	0	0	0	N	14	0	0	14	N	23	0	0	23	23
	S.E.	0	0	0	0	N	14	0	0	14	N	23	0	0	23	23
	NO. TOWS	5	3	8	8	N	6	4	4	10	N	9	6	6	15	15
06SEP82	ST. CROP	0	0	0	0	N	0	0	126	126	N	52	31	31	83	83
	S.E.	0	0	0	0	N	0	0	126	126	N	52	31	31	61	61
	NO. TOWS	5	3	8	8	N	6	4	4	10	N	9	6	6	15	15
20SEP82	ST. CROP	119	0	119	119	N	13	0	0	13	N	32	0	0	32	32
	S.E.	56	0	56	56	N	13	0	0	13	N	16	0	0	16	16
	NO. TOWS	5	3	8	8	N	6	4	4	10	N	9	6	6	15	15
04OCT82	ST. CROP	0	0	0	0	N	0	0	0	0	N	14	0	0	14	14
	S.E.	0	0	0	0	N	0	0	0	0	N	14	0	0	14	14
	NO. TOWS	5	3	8	8	N	6	4	4	10	N	9	6	6	15	15
TOTAL	ST. CROP	119	0	119	119	N	27	126	126	153	N	120	31	31	152	152
	S.E.	56	0	56	56	N	19	126	126	128	N	60	31	31	68	68
	NO. TOWS	25	15	40	40	N	30	20	20	50	N	45	30	30	75	75

N -- STRATUM NOT SAMPLED

TABLE B-60 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE CATFISH			YOUNG-OF-THE-YEAR					
	ST. CROP S.E. NO. TOWS	SAUGERTIES		R	S	CATSKILL		R	
		B	C			B	C		
09AUG82	N	26	0	26	N	112	0	112	
	N	18	0	18	N	28	0	28	
	N	12	6	18	N	15	6	21	
23AUG82	N	22	0	22	N	183	0	183	
	N	15	0	15	N	62	0	62	
	N	12	6	18	N	15	6	21	
06SEP82	N	68	0	68	N	333	0	333	
	N	32	0	32	N	103	0	103	
	N	12	6	18	N	15	6	21	
20SEP82	N	47	0	47	N	83	31	114	
	N	20	0	20	N	27	31	41	
	N	12	6	18	N	15	6	21	
04OCT82	N	195	0	195	N	255	0	255	
	N	71	0	71	N	64	0	64	
	N	12	6	18	N	15	6	21	
TOTAL	N	359	0	359	N	965	31	997	
	N	83	0	83	N	142	31	145	
	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		
	S	B	ALBANY	C	R	S	B	COMBINED	C	R			
09AUG82	ST. CROP	N	204	N	204	0	342	0	342	0			
	S.E. TOWS	N	75	N	75	0	82	0	82	0			
	NO. TOWS	N	8	N	8	64	86	50	86	200			
23AUG82	ST. CROP	N	82	N	82	0	324	0	324	0			
	S.E. TOWS	N	43	N	43	0	82	0	82	0			
	NO. TOWS	N	8	N	8	64	86	50	86	200			
06SEP82	ST. CROP	N	383	N	383	0	835	158	835	993			
	S.E. TOWS	N	126	N	126	0	174	130	174	217			
	NO. TOWS	N	8	N	8	64	86	50	86	200			
20SEP82	ST. CROP	N	250	N	250	0	544	31	544	576			
	S.E. TOWS	N	92	N	92	0	115	31	115	119			
	NO. TOWS	N	8	N	8	64	86	50	86	200			
04OCT82	ST. CROP	N	66	N	66	0	529	0	529	529			
	S.E. TOWS	N	66	N	66	0	117	0	117	117			
	NO. TOWS	N	8	N	8	64	86	50	86	200			
TOTAL	ST. CROP	N	985	N	985	0	2575	189	2575	2764			
	S.E. TOWS	N	190	N	190	0	265	134	265	297			
	NO. TOWS	N	40	N	40	320	430	250	430	1000			

N -- STRATUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	WHITE CATFISH											
	YONKERS			TAPPAN ZEE			YEARLING			CROTON-HAVERSTRAW		
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	0	N	0	0	0	0	0	0	0	0	0	0
S.E. CROP	0	N	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	0	N	0	0	0	0	0	0	0	0	0	0
S.E. CROP	0	N	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	0	N	0	0	0	0	0	0	0	0	0	0
S.E. CROP	0	N	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	0	N	0	0	0	0	0	0	0	0	0	0
S.E. CROP	0	N	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	0	N	0	0	0	0	0	0	0	0	0	0
S.E. CROP	0	N	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	0	N	0	0	0	0	0	0	0	0	0	0
S.E. CROP	0	N	0	0	0	0	0	0	0	0	0	0
S.E. 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

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

N -- STRATUM NOT SAMPLED

TABLE B-61 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE CATFISH											
	POUGHKEEPSIE				HYDE PARK				YEARLING			
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	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						
	S	B	S	R	S	B	C	R	
09AUG82	ST. CROP	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0 12	0 6	0 18	0 18	0 15	0 6	0 21	0 0
23AUG82	ST. CROP	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0 12	0 6	0 18	0 18	0 15	0 6	0 21	0 0
06SEP82	ST. CROP	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0 12	0 6	0 18	0 18	0 15	0 6	0 21	0 0
20SEP82	ST. CROP	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0 12	0 6	0 18	0 18	0 15	0 6	0 21	0 0
04OCT82	ST. CROP	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0 12	0 6	0 18	0 18	0 15	0 6	0 21	0 0
TOTAL	ST. CROP	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0 60	0 30	0 90	0 90	0 75	0 30	0 105	0 0

N -- STRATUM NOT SAMPLED

TABLE B-61 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE CATFISH											
	ALBANY				YEARLING				COMBINED			
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	N	0	N	0	0	0	0	0	0	0	0	0
S.E.	N	0	N	0	0	0	0	0	0	0	0	0
NO. TOWS	N	8	N	8	64	86	50	200				
23AUG82	N	0	N	0	0	0	0	0	0	0	0	0
S.E.	N	0	N	0	0	0	0	0	0	0	0	0
NO. TOWS	N	8	N	8	64	86	50	200				
06SEP82	N	0	N	0	0	0	0	0	0	0	0	0
S.E.	N	0	N	0	0	0	0	0	0	0	0	0
NO. TOWS	N	8	N	8	64	86	50	200				
20SEP82	N	0	N	0	0	0	0	0	0	0	0	0
S.E.	N	0	N	0	0	0	0	0	0	0	0	0
NO. TOWS	N	8	N	8	64	86	50	200				
04OCT82	N	29	N	29	0	29	0	29	0	29	0	29
S.E.	N	29	N	29	0	29	0	29	0	29	0	29
NO. TOWS	N	8	N	8	64	86	50	200				
TOTAL	N	29	N	29	0	29	0	29	0	29	0	29
S.E.	N	29	N	29	0	29	0	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.

WEEK BEGINNING MONDAY	WHITE CATFISH												
	YONKERS						OLDER						
	S	B	C	R	S	T	B	C	R	S	B	C	R
09AUG82	0	N	0	0	0	22	0	0	22	0	0	0	0
	0	N	0	0	0	22	0	0	22	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27	27
23AUG82	0	N	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27	27
06SEP82	0	N	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27	27
20SEP82	0	N	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27	27
04OCT82	0	N	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27	27
TOTAL	0	N	0	0	0	22	0	0	22	0	0	0	0
	0	N	0	0	0	22	0	0	22	0	0	0	0
	35	N	25	60	150	40	40	230	80	40	15	135	135

N -- STRATUM NOT SAMPLED

TABLE B-62 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE CATFISH											
	INDIAN POINT				WEST POINT				OLDER			
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	15	0	0	15	N	0	0	0	0	0	0	0
ST. CROP	15	0	0	15	N	0	0	0	0	0	0	0
S.E. NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
23AUG82	0	0	0	0	N	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
S.E. NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
06SEP82	0	0	0	0	N	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
S.E. NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
20SEP82	0	0	0	0	N	0	0	0	0	0	0	0
ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
S.E. NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
04OCT82	0	17	0	17	N	0	0	0	0	0	0	0
ST. CROP	0	17	0	17	N	0	0	0	0	0	0	0
S.E. NO. TOWS	6	5	3	14	N	5	3	8	5	5	3	13
TOTAL	15	17	0	32	N	0	0	0	0	0	0	0
ST. CROP	15	17	0	23	N	0	0	0	0	0	0	0
S.E. NO. TOWS	30	25	15	70	N	25	15	40	25	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-62 (CONTINUED).
WHITE CATFISH

WEEK BEGINNING MONDAY	POUGHKEEPSIE			HYDE PARK			OLDER			KINGSTON		
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	N	0	0	0	N	0	0	0	0	N	0	0
	N	0	0	0	N	0	0	0	0	N	0	0
	N	5	3	8	N	6	4	10	10	N	9	6
23AUG82	N	0	0	0	N	14	0	14	14	N	0	0
	N	0	0	0	N	14	0	14	14	N	0	0
	N	5	3	8	N	6	4	10	10	N	9	6
06SEP82	N	0	0	0	N	0	0	0	0	N	0	0
	N	0	0	0	N	0	0	0	0	N	0	0
	N	5	3	8	N	6	4	10	10	N	9	6
20SEP82	N	30	0	30	N	0	0	0	0	N	0	0
	N	30	0	30	N	0	0	0	0	N	0	0
	N	5	3	8	N	6	4	10	10	N	9	6
04OCT82	N	0	0	0	N	0	0	0	0	N	0	0
	N	0	0	0	N	0	0	0	0	N	0	0
	N	5	3	8	N	6	4	10	10	N	9	6
TOTAL	N	30	0	30	N	14	0	14	14	N	0	0
	N	30	0	30	N	14	0	14	14	N	0	0
	N	25	15	40	N	30	20	50	50	N	45	30

N -- STRATUM NOT SAMPLED

TABLE B-62 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE CATFISH									
	SAUGERTIES					OLDER				
	S	B	C	R	S	B	C	R	S	R
09AUG82	ST. CROP	N	51	0	51	N	45	0	45	45
	S.E.	N	40	0	40	N	34	0	34	34
	NO. TOWS	N	12	6	18	N	15	6	21	21
23AUG82	ST. CROP	N	23	0	23	N	24	0	24	24
	S.E.	N	16	0	16	N	16	0	16	16
	NO. TOWS	N	12	6	18	N	15	6	21	21
06SEP82	ST. CROP	N	0	0	0	N	28	0	28	28
	S.E.	N	0	0	0	N	19	0	19	19
	NO. TOWS	N	12	6	18	N	15	6	21	21
20SEP82	ST. CROP	N	25	0	25	N	0	0	0	0
	S.E.	N	25	0	25	N	0	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21	21
04OCT82	ST. CROP	N	30	0	30	N	0	0	0	0
	S.E.	N	20	0	20	N	0	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21	21
TOTAL	ST. CROP	N	130	0	130	N	97	0	97	97
	S.E.	N	54	0	54	N	42	0	42	42
	NO. TOWS	N	60	30	90	N	75	30	105	105

N -- STRATUM NOT SAMPLED

TABLE B-62 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE CATFISH				OLDER				
	S	B	ALBANY C	R	S	B	COMBINED C	R	
09AUG82	ST. CROP	N	0	N	0	15	119	0	133
	S.E. TOWS	N	0	N	0	15	56	0	58
		N	8	N	8	64	86	50	200
23AUG82	ST. CROP	N	0	N	0	0	61	0	61
	S.E. TOWS	N	0	N	0	0	26	0	26
		N	8	N	8	64	86	50	200
06SEP82	ST. CROP	N	132	N	132	0	160	0	160
	S.E. TOWS	N	132	N	132	0	134	0	134
		N	8	N	8	64	86	50	200
20SEP82	ST. CROP	N	43	N	43	0	98	0	98
	S.E. TOWS	N	28	N	28	0	48	0	48
		N	8	N	8	64	86	50	200
04OCT82	ST. CROP	N	119	N	119	0	167	0	167
	S.E. TOWS	N	56	N	56	0	62	0	62
		N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	294	N	294	15	604	0	619
	S.E. TOWS	N	146	N	146	15	167	0	168
		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.

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS			KG	SG	CS	AL	COMBINED
						CW	PK	HIP					
16AUG82	0 0 5	28 19 24	2 2 14	7 7 5	0 0 5	0 0 6	0 0 5	0 0 5	4 4 9	0 0 10	0 0 7	0 0 7	42 20 100
30AUG82	0 0 5	4 4 24	4 4 14	0 0 5	0 0 5	0 0 6	0 0 5	2 2 5	0 0 9	0 0 10	0 0 7	0 0 7	10 6 100
13SEP82	0 0 5	0 0 24	0 0 14	0 0 5	0 0 5	0 0 6	0 0 5	0 0 5	0 0 9	0 0 10	0 0 7	0 0 7	0 0 100
27SEP82	0 0 5	4 3 24	0 0 14	0 0 5	0 0 5	0 0 6	0 0 5	2 2 5	0 0 9	0 0 10	0 0 7	0 0 7	6 3 100
11OCT82	0 0 5	2 2 24	0 0 14	0 0 5	0 0 5	0 0 6	1 1 5	0 0 5	0 0 9	0 0 10	0 0 7	0 0 7	3 2 100
TOTAL	0 0 25	38 19 120	6 4 70	7 7 25	0 0 25	0 0 30	1 1 25	3 2 25	4 4 45	0 0 50	0 0 35	0 0 35	60 22 500

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

YOUNG-OF-THE-YEAR

SPOTTAIL SHINER

WEEK BEGINNING MONDAY	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAM					
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	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			WEST POINT			CORNWALL				
	S	R	S	B	C	R	B	C	R	B	C
09AUG82	0	0	N	0	0	0	0	0	0	0	0
ST. CROP	0	0	N	0	0	0	0	0	0	0	0
S.E.	0	0	N	0	0	0	0	0	0	0	0
NO. TOWS	6	14	N	5	3	8	5	3	5	3	13
23AUG82	0	0	N	0	0	0	0	0	0	0	0
ST. CROP	0	0	N	0	0	0	0	0	0	0	0
S.E.	0	0	N	0	0	0	0	0	0	0	0
NO. TOWS	6	14	N	5	3	8	5	3	5	3	13
06SEP82	0	0	N	0	0	0	0	0	0	0	0
ST. CROP	0	0	N	0	0	0	0	0	0	0	0
S.E.	0	0	N	0	0	0	0	0	0	0	0
NO. TOWS	6	14	N	5	3	8	5	3	5	3	13
20SEP82	0	0	N	0	0	0	0	0	0	0	0
ST. CROP	0	0	N	0	0	0	0	0	0	0	0
S.E.	0	0	N	0	0	0	0	0	0	0	0
NO. TOWS	6	14	N	5	3	8	5	3	5	3	13
04OCT82	0	0	N	0	0	0	0	0	0	0	0
ST. CROP	0	0	N	0	0	0	0	0	0	0	0
S.E.	0	0	N	0	0	0	0	0	0	0	0
NO. TOWS	6	14	N	5	3	8	5	3	5	3	13
TOTAL	0	0	N	0	0	0	0	0	0	0	0
ST. CROP	0	0	N	0	0	0	0	0	0	0	0
S.E.	0	0	N	0	0	0	0	0	0	0	0
NO. TOWS	30	70	N	25	15	40	25	15	25	15	65

N -- STRATUM NOT SAMPLED

TABLE B-64 (CONTINUED).
SPOTTAIL SHINER
YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	POUGHKEEPSIE			HYDE PARK			R			KINGSTON				
	S	B	C	S	B	C	R	S	B	C	R	S	B	C
09AUG82	N	0	0	N	0	0	0	N	0	0	0	N	0	0
ST. CROP	N	0	0	N	0	0	0	N	0	0	0	N	0	0
S.E. TOWS	N	5	3	N	8	4	10	N	9	6	15	N	9	6
23AUG82	N	0	0	N	0	0	0	N	11	0	11	N	11	0
ST. CROP	N	0	0	N	0	0	0	N	11	0	11	N	11	0
S.E. TOWS	N	5	3	N	8	4	10	N	9	6	15	N	9	6
06SEP82	N	0	0	N	0	0	0	N	0	0	0	N	0	0
ST. CROP	N	0	0	N	0	0	0	N	0	0	0	N	0	0
S.E. TOWS	N	5	3	N	8	4	10	N	9	6	15	N	9	6
20SEP82	N	0	0	N	0	0	0	N	0	0	0	N	0	0
ST. CROP	N	0	0	N	0	0	0	N	0	0	0	N	0	0
S.E. TOWS	N	5	3	N	8	4	10	N	9	6	15	N	9	6
04OCT82	N	0	0	N	0	0	0	N	0	0	0	N	0	0
ST. CROP	N	0	0	N	0	0	0	N	0	0	0	N	0	0
S.E. TOWS	N	5	3	N	8	4	10	N	9	6	15	N	9	6
TOTAL	N	0	0	N	0	0	0	N	11	0	11	N	11	0
ST. CROP	N	0	0	N	0	0	0	N	11	0	11	N	11	0
S.E. TOWS	N	25	15	N	40	20	50	N	45	30	75	N	45	30

N -- STRATUM NOT SAMPLED

TABLE B-64 (CONTINUED).
 SPOTTAIL SHINER YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	SAUGERTIES			R	S	CATSKILL			R
	S	B	C			B	C	R	
09AUG82	N	0	0	0	N	0	0	0	0
	N	0	0	0	N	0	0	0	0
	N	12	6	18	N	15	6	21	21
23AUG82	N	0	0	0	N	0	0	0	0
	N	0	0	0	N	0	0	0	0
	N	12	6	18	N	15	6	21	21
06SEP82	N	0	0	0	N	0	0	0	0
	N	0	0	0	N	0	0	0	0
	N	12	6	18	N	15	6	21	21
20SEP82	N	0	0	0	N	0	0	0	0
	N	0	0	0	N	0	0	0	0
	N	12	6	18	N	15	6	21	21
04OCT82	N	0	0	0	N	0	0	0	0
	N	0	0	0	N	0	0	0	0
	N	12	6	18	N	15	6	21	21
TOTAL	N	0	0	0	N	0	0	0	0
	N	0	0	0	N	0	0	0	0
	N	60	30	90	N	75	30	105	105

N -- STRATUM NOT SAMPLED

TABLE B-64 (CONTINUED).
 SPOTTAIL SHINER
 YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	ALBANY			S	R	S	COMBINED		R
	S	B	C				B	C	
09AUG82	N	0	N	N	0	0	0	0	0
S.E. NO. TOWS	N	0	N	N	0	0	0	0	0
	N	8	N	N	8	64	86	50	200
23AUG82	N	0	N	N	0	0	11	0	11
S.E. NO. TOWS	N	0	N	N	0	0	11	0	11
	N	8	N	N	8	64	86	50	200
06SEP82	N	0	N	N	0	0	0	0	0
S.E. NO. TOWS	N	0	N	N	0	0	0	0	0
	N	8	N	N	8	64	86	50	200
20SEP82	N	0	N	N	0	0	0	0	0
S.E. NO. TOWS	N	0	N	N	0	0	0	0	0
	N	8	N	N	8	64	86	50	200
04OCT82	N	0	N	N	0	0	0	0	0
S.E. NO. TOWS	N	0	N	N	0	0	0	0	0
	N	8	N	N	8	64	86	50	200
TOTAL	N	0	N	N	0	0	11	0	11
S.E. NO. TOWS	N	0	N	N	0	0	11	0	11
	N	40	N	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	YK	TZ	CH	IP	WP	REGIONS			KG	SG	CS	AL	COMBINED
						CW	PK	HP					
16AUG82	0	17	83	53	34	5	24	29	22	16	65	16	363
	0	15	63	53	13	4	15	20	18	8	51	9	105
	5	24	14	5	5	6	5	5	5	5	10	7	100
30AUG82	0	0	6	52	16	67	41	23	241	57	10	214	727
	0	0	4	33	9	38	17	7	107	33	8	200	236
	5	24	14	5	5	6	5	5	5	9	10	7	100
13SEP82	0	2	10	15	43	55	71	30	60	72	26	23	406
	0	2	10	15	26	23	69	13	35	35	20	15	98
	5	24	14	5	5	6	5	5	5	9	10	7	100
27SEP82	0	6	13	63	47	41	74	17	102	133	39	2	536
	0	6	10	56	20	27	63	6	54	60	21	2	124
	5	24	14	5	5	6	5	5	5	9	10	7	100
11OCT82	0	0	6	9	21	23	94	10	71	41	71	8	353
	0	0	6	9	9	9	40	5	51	24	37	4	81
	5	24	14	5	5	6	5	5	5	9	10	7	100
TOTAL	0	25	117	192	162	192	303	108	496	318	211	262	2385
	0	16	65	86	37	52	104	26	137	80	70	201	313
	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	SPOTTAIL SHINER											
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			STRATUM		
	S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
23AUG82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
06SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
20SEP82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
04OCT82	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	8	46	16	8	3	27
TOTAL	0	N	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0
	35	N	25	60	150	40	40	230	80	40	15	135

N -- STRATUM NOT SAMPLED

TABLE B-66 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-66 (CONTINUED).

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	SPOTTAIL SHINER												YEARLING		
		POUGHKEEPSIE			HYDE PARK			KINGSTON			R					
		S	B	C	R	S	B	C	R	S	B	C	R	S	B	C
09AUG82	71 44 5	0 0 3	71 44 8	N N N	0 0 6	0 0 4	0 0 4	0 0 10	0 0 6	N N N	0 0 9	0 0 6	0 0 15	0 0 15	0 0 6	0 0 15
23AUG82	0 0 5	0 0 3	0 0 8	N N N	0 0 6	0 0 4	0 0 4	0 0 10	0 0 6	N N N	62 51 9	0 0 6	62 51 15	0 0 15	0 0 6	0 0 15
06SEP82	33 33 5	0 0 3	33 33 8	N N N	0 0 6	0 0 4	0 0 4	0 0 10	0 0 6	N N N	0 0 9	0 0 6	0 0 15	0 0 15	0 0 6	0 0 15
20SEP82	116 84 5	0 0 3	116 84 8	N N N	0 0 6	0 0 4	0 0 4	0 0 10	0 0 6	N N N	0 0 9	0 0 6	0 0 15	0 0 15	0 0 6	0 0 15
04OCT82	0 0 5	0 0 3	0 0 8	N N N	16 16 6	70 70 4	70 70 4	86 72 10	0 0 6	N N N	28 18 9	0 0 6	28 18 15	0 0 15	0 0 6	0 0 15
TOTAL	220 100 25	0 0 15	220 100 40	N N N	16 16 30	70 70 20	70 70 20	86 72 50	0 0 30	N N N	90 54 45	0 0 30	90 54 75	0 0 30	0 0 30	0 0 30

N -- STRATUM NOT SAMPLED

TABLE B-66 (CONTINUED).

WEEK BEGINNING MONDAY	SPOTTAIL SHINER										YEARLING	
	S	SAUGERTIES			R	S	B	CATSKILL		R		
		B	C	C				B	C	C		
09AUG82	ST. CROP	N	0	0	0	N			0	0	0	0
	S.E. TOWS	N	0	0	0	N			0	0	0	0
		N	12	6	18	N			15	6	21	21
23AUG82	ST. CROP	N	0	0	0	N			0	0	0	0
	S.E. TOWS	N	0	0	0	N			0	0	0	0
		N	12	6	18	N			15	6	21	21
06SEP82	ST. CROP	N	0	0	0	N			0	0	0	0
	S.E. TOWS	N	0	0	0	N			0	0	0	0
		N	12	6	18	N			15	6	21	21
20SEP82	ST. CROP	N	0	0	0	N			0	0	0	0
	S.E. TOWS	N	0	0	0	N			0	0	0	0
		N	12	6	18	N			15	6	21	21
04OCT82	ST. CROP	N	0	0	0	N			0	0	0	0
	S.E. TOWS	N	0	0	0	N			0	0	0	0
		N	12	6	18	N			15	6	21	21
TOTAL	ST. CROP	N	0	0	0	N			0	0	0	0
	S.E. TOWS	N	0	0	0	N			0	0	0	0
		N	60	30	90	N			75	30	105	105

N -- STRATUM NOT SAMPLED

TABLE B-66 (CONTINUED).

WEEK BEGINNING MONDAY	SPOTTAIL SHINER										YEARLING							
	S			ALBANY			R				S			COMBINED			R	
	S	B	C	S	B	C	R	S	B	C	R	S	B	C	B	C		R
09AUG82	ST. CROP	N	99	N	99	N	99	4	170	0	174	4	0	0	174	0	0	174
	S.E. TOWS	N	59	N	59	N	59	4	73	0	73	4	0	0	73	0	0	73
		N	8	N	8	N	8	64	86	50	200	64	50	50	200	50	50	200
23AUG82	ST. CROP	N	17	N	17	N	17	0	80	0	80	0	0	0	80	0	0	80
	S.E. TOWS	N	17	N	17	N	17	0	54	0	54	0	0	0	54	0	0	54
		N	8	N	8	N	8	64	86	50	200	64	50	50	200	50	50	200
06SEP82	ST. CROP	N	0	N	0	N	0	0	33	0	33	0	0	0	33	0	0	33
	S.E. TOWS	N	0	N	0	N	0	0	33	0	33	0	0	0	33	0	0	33
		N	8	N	8	N	8	64	86	50	200	64	50	50	200	50	50	200
20SEP82	ST. CROP	N	18	N	18	N	18	0	135	0	135	0	0	0	135	0	0	135
	S.E. TOWS	N	18	N	18	N	18	0	86	0	86	0	0	0	86	0	0	86
		N	8	N	8	N	8	64	86	50	200	64	50	50	200	50	50	200
04OCT82	ST. CROP	N	123	N	123	N	123	0	167	70	236	0	70	70	236	70	70	236
	S.E. TOWS	N	52	N	52	N	52	0	57	70	90	0	70	70	90	70	70	90
		N	8	N	8	N	8	64	86	50	200	64	50	50	200	50	50	200
TOTAL	ST. CROP	N	258	N	258	N	258	4	584	70	658	4	70	70	658	70	70	658
	S.E. TOWS	N	82	N	82	N	82	4	141	70	158	4	70	70	158	70	70	158
		N	40	N	40	N	40	320	430	250	1000	320	250	250	1000	250	250	1000

N -- STRATUM NOT SAMPLED

TABLE B-67
 STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
 BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY	SPOTTAIL SHINER													YEARLING		
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED			
16AUG82	0	0	0	0	14	2	0	5	33	33	0	0	87			
	0	0	0	0	13	2	0	2	21	13	0	0	28			
	5	24	14	5	5	6	5	5	5	9	10	7	100			
30AUG82	0	0	2	0	7	55	0	2	7	35	0	14	122			
	0	0	2	0	6	32	0	1	5	18	0	14	40			
	5	24	14	5	5	6	5	5	5	9	10	7	100			
13SEP82	0	2	0	0	4	21	17	3	0	27	2	8	85			
	0	2	0	0	2	21	17	2	0	16	2	6	32			
	5	24	14	5	5	6	5	5	5	9	10	7	100			
27SEP82	0	0	0	4	22	16	64	5	12	80	2	2	207			
	0	0	0	4	13	16	25	1	10	53	2	2	64			
	5	24	14	5	5	6	5	5	5	9	10	7	100			
11OCT82	0	0	0	2	21	50	65	4	55	53	110	2	362			
	0	0	0	2	16	26	36	2	47	26	64	2	96			
	5	24	14	5	5	6	5	5	5	9	10	7	100			
TOTAL	0	2	2	6	68	144	146	21	107	228	114	25	862			
	0	2	2	4	25	49	47	4	52	65	64	15	129			
	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.

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

TABLE B-69
 STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
 FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1982.

WEEK BEGINNING MONDAY	ATLANTIC STURGEON						OLDER					
	S	B	C	R	S	TAPPAN ZEE B C	R	S	B	C	R	
09AUG82	0	N	0	0	0	0	0	0	0	0	0	
S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	
	7	N	5	12	30	8	46	16	8	3	27	
23AUG82	0	N	0	0	0	0	0	0	0	0	0	
S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	
	7	N	5	12	30	8	46	16	8	3	27	
06SEP82	0	N	0	0	0	22	22	0	0	0	0	
S.E. NO. TOWS	0	N	0	0	0	22	22	0	0	0	0	
	7	N	5	12	30	8	46	16	8	3	27	
20SEP82	0	N	0	0	0	0	0	0	0	0	0	
S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	
	7	N	5	12	30	8	46	16	8	3	27	
04OCT82	0	N	0	0	0	0	0	0	0	0	0	
S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	
	7	N	5	12	30	8	46	16	8	3	27	
TOTAL	0	N	0	0	0	22	22	0	0	0	0	
S.E. NO. TOWS	0	N	0	0	0	22	22	0	0	0	0	
	35	N	25	60	150	40	230	80	40	15	135	

N -- STRATUM NOT SAMPLED

TABLE B-69 (CONTINUED).

ATLANTIC STURGEON

OLDER

WEEK
BEGINNING
MONDAY

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	INDIAN POINT			WEST POINT			OLDER			CORNWALL		
		S	B	C	R	S	B	C	R	S	B	C	R
09AUG82	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	5	3	14	5	3	8	5	3	5	3	13	0
23AUG82	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	5	3	14	5	3	8	5	3	5	3	13	0
06SEP82	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	5	3	14	5	3	14	5	3	5	3	13	0
20SEP82	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	5	3	14	5	3	8	5	3	5	3	13	0
04OCT82	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	5	3	14	5	3	15	5	3	5	3	13	0
TOTAL	0	0	0	0	0	0	28	0	0	0	0	0	0
	0	0	0	0	0	0	20	0	0	0	0	0	0
	30	25	15	70	15	15	40	25	15	25	15	65	0

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	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	N	0	0	0	N	14	0	14	N	0	0	0
	N	0	0	0	N	14	0	14	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	N	0	0	0	N	14	0	14	N	0	0	0
	N	0	0	0	N	14	0	14	N	0	0	0
	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-69 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-69 (CONTINUED).

WEEK BEGINNING MONDAY	ATLANTIC STURGEON				OLDER			
	S	B	ALBANY C	R	S	B	COMBINED C	R
09AUG82	N	0	N	0	0	0	0	0
ST. CROP	N	0	N	0	0	0	0	0
S.E. TOWS	N	8	N	8	64	86	50	200
23AUG82	N	0	N	0	0	0	0	0
ST. CROP	N	0	N	0	0	0	0	0
S.E. TOWS	N	8	N	8	64	86	50	200
06SEP82	N	0	N	0	0	50	0	50
ST. CROP	N	0	N	0	0	30	0	30
S.E. TOWS	N	8	N	8	64	86	50	200
20SEP82	N	0	N	0	0	0	0	0
ST. CROP	N	0	N	0	0	0	0	0
S.E. TOWS	N	8	N	8	64	86	50	200
04OCT82	N	0	N	0	0	15	0	15
ST. CROP	N	0	N	0	0	15	0	15
S.E. TOWS	N	8	N	8	64	86	50	200
TOTAL	N	0	N	0	0	64	0	64
ST. CROP	N	0	N	0	0	33	0	33
S.E. 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.

WEEK BEGINNING MONDAY	SHORTNOSE STURGEON						OLDER			
	S	B	C	R	S	TAPPAN ZEE B C	R	S	CROTON-HAVERSTRAW B C	R
09AUG82	0	N	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	46	16	8	27
23AUG82	0	N	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	46	16	8	27
06SEP82	0	N	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	46	16	8	27
20SEP82	0	N	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	46	16	8	27
04OCT82	0	N	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0
	7	N	5	12	30	8	46	16	8	27
TOTAL	0	N	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0
	35	N	25	60	150	40	230	80	40	135

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).
SHORTNOSE STURGEON

WEEK BEGINNING MONDAY	POUGHKEEPSIE			HYDE PARK			OLDER			KINGSTON		
	S	B	C	R	S	C	R	S	B	C	R	
09AUG82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
23AUG82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
06SEP82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
20SEP82	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
04OCT82	N	0	0	0	N	17	0	17	N	0	0	0
	N	0	0	0	N	17	0	17	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	N	0	0	0	N	17	0	17	N	0	0	0
	N	0	0	0	N	17	0	17	N	0	0	0
	N	25	15	40	N	30	20	50	N	45	30	75

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).

WEEK BEGINNING MONDAY	SHORTNOSE STURGEON				OLDER			
	S	B	ALBANY C	R	S	B	COMBINED C	R
09AUG82	N	0	N	0	0	0	0	0
ST. CROP	N	0	N	0	0	0	0	0
S.E. TOWS	N	8	N	8	64	86	50	200
23AUG82	N	0	N	0	0	0	0	0
ST. CROP	N	0	N	0	0	0	0	0
S.E. TOWS	N	8	N	8	64	86	50	200
06SEP82	N	0	N	0	0	0	0	0
ST. CROP	N	0	N	0	0	0	0	0
S.E. TOWS	N	8	N	8	64	86	50	200
20SEP82	N	0	N	0	0	0	0	0
ST. CROP	N	0	N	0	0	0	0	0
S.E. TOWS	N	8	N	8	64	86	50	200
04OCT82	N	0	N	0	0	17	0	17
ST. CROP	N	0	N	0	0	17	0	17
S.E. TOWS	N	8	N	8	64	86	50	200
TOTAL	N	0	N	0	0	17	0	17
ST. CROP	N	0	N	0	0	17	0	17
S.E. TOWS	N	40	N	40	320	430	250	1000

N -- STRATUM NOT SAMPLED

