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1557

1983 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 during week (or biweek) w:

$$W_{rw} = \frac{1}{n_{rw}} \sum_{k=1}^{n_{rw}} P_{kr} \left[\frac{1}{n_{krw}} \sum_{d=1}^{n_{krw}} \left(\frac{1}{n_{dkrw}} \sum_{i=1}^{n_{dkrw}} W_{idkrw} \right) \right]$$

where W_{idkrw} = water quality measurement for site i at depth d in stratum k in region r during week (or biweek) w

n_{dkrw} = number of sites at which measurements were made at depth d in stratum k in region r during week (or biweek) w

n_{krw} = number of depths at which measurements were made in stratum k in region r during week (or biweek) w

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_{rw} = number of strata sampled in region r (strata are shoals and channel) during week (or biweek) w

Equation 2. Mean of a water quality parameter in estuary segment j during week (or biweek) w:

$$W_{jw} = \frac{1}{n_j} \sum_{r=1}^{n_j} P_r W_{rw}$$

where W_{rw} = as in Equation 1

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

n_j = number of regions sampled in estuary segment j

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

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

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

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

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

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

and

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

where d_{ikrw} = as in Equation 3

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

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

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

and

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

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

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

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

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

and

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

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

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

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

and

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

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

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

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

and

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

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

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

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

and

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

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

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

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

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

and

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

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

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

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

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

Same as Equation 8

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

Equation 12. Geographic distribution index for region r:

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

where n = number of weeks (or biweeks) sampled

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

N_w = as in Equation 8 or Equation 11

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

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

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 (stage 2=yolk-sac larvae, 3=post yolk-sac larvae, 4=young-of-the-year) 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 1 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 time (days after 1 May) when mean length reached the recruitment length:

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

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

L_o and β = as in Equation 17

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

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

and

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

where L_H = length (mm TL) at hatching

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

L_R, t_{L_R} = as in Equation 18

t_{60} = as in Equation 16

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

N_o = regression intercept (estimated abundance 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:

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

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:

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

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

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

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

Equation 24. Combined standing crop for week w:

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

and

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

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

Equation 25. Standard error of the combined standing crop regression estimate:

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

where MSE = mean square error from regression analysis of variance

n = number of weekly CSC values used in the regression

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

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

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

Equation 26. Confidence limits (95%) for combined standing crop index based on regression:

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

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

$t_{.05(n-2)}$ = Student's t-value for n-2 degrees of freedom (n as in Equation 25) and $\alpha = .05$ (two-tailed test)

$SE_{\ln(N_I)}$ = as in Equation 25

Equation 27. Mean exposure to a water quality parameter during week (or biweek) w, weighted by standing crop:

$$W_w = \frac{\sum_{r=1}^{12} \left(W_{rw} N_{rw} \right)}{\sum_{r=1}^{12} N_{rw}}$$

where W_{rw} = as in Equation 1

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

APPENDIX B
ABUNDANCE DATA

INDEX OF TABLE NUMBERS

PART 1. STANDING CROP DATA

SPECIES	ICHTHYOPLANKTON						FALL SHOALS			BEACH SEINE			COMBINED GEARS
	EGGS	YSL	PYSL	YOY	YRLG	OLDER	YOY	YRLG	OLDER	YOY	YRLG	OLDER	YOY
Striped bass	1	2	3	4	8	11	5	9	12	6	10	13	7
White perch	14	15	16	17	21	24	18	22	25	19	23	26	20
American shad	27	28	29	30	34	NC	31	35	37	32	36	38	33
Atlantic tomcod	--	--	39	40	--	--	41	--	--	42	--	--	43
Blueback herring					50	53	48	51	54	49	52	NC	--
	[a] 44	[a] 45	[a] 46	[a] 47									
Alewife					57	60	55	58	61	56	59	62	--
Bay anchovy	--	--	--	NC	66	69	63	67	70	64	68	71	65
Weakfish	--	--	--	NC	--	--	72	--	--	73	--	--	--
White catfish	--	--	--	74	77	80	75	78	81	76	79	82	--
Spottail shiner	--	--	--	NC	85	88	83	86	NC	84	87	89	--
Atlantic sturgeon	--	--	--	NC	90	92	NC	91	93	NC	NC	NC	--
Shortnose sturgeon	--	--	--	94	NC	96	NC	95	97	NC	NC	NC	--

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

TABLE B-1
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

STRIPED BASS EGGS

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	1048	0	392	1440
	S.E.	0	N	0	0	0	0	0	0	630	0	392	742
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	359	359	1126	90	3657	4874
	S.E.	0	N	0	0	0	0	359	359	777	45	1378	1583
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	2407	328	2556	5291	3969	1896	1724	7589
	S.E.	0	N	0	0	2181	328	707	2316	2651	375	1663	3152
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	733	0	733	3700	1214	210	5124
	S.E.	0	N	0	0	0	733	0	733	1439	609	126	1568
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	377	23	0	400
	S.E.	0	N	0	0	0	0	0	0	252	23	0	253
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	93	19	33	145
	S.E.	0	N	0	0	0	0	0	0	93	19	33	101
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	2407	1061	2915	6383	10313	3242	6017	19571
	S.E.	0	N	0	0	2181	803	792	2456	3189	717	2199	3940
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

STRIPED BASS EGGS

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	101	30	381	512	N	22	1227	1249	0	10	0	10
	S.E.	66	20	134	151	N	22	627	628	0	10	0	10
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	767	1495	49168	51430	N	163	10966	11129	26	40	303	369
	S.E.	220	926	12920	12955	N	114	2921	2923	26	30	185	189
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	2746	3331	16498	22575	N	3915	15959	19874	49	1122	1877	3048
	S.E.	1870	1188	7422	7746	N	2979	5376	6146	31	622	1277	1420
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	36	248	923	1207	N	37	724	761	0	338	284	622
	S.E.	36	135	287	319	N	37	305	307	0	202	284	349
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	665	2283	4434	7382	N	224	2572	2796	64	651	2106	2821
	S.E.	461	782	1185	1493	N	87	917	921	44	307	1055	1100
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	46	0	654	700	N	117	1482	1600	0	17	96	113
	S.E.	26	0	292	294	N	101	484	494	0	12	96	97
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	91	79	170	N	1977	1051	3028	16	291	24	331
	S.E.	0	91	79	120	N	929	429	1023	16	179	24	181
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	23	23	0	0	0	0
	S.E.	0	0	0	0	N	0	23	23	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	4361	7477	72138	83976	N	6456	34003	40459	155	2469	4690	7314
	S.E.	1940	1705	14954	15175	N	3126	6259	6996	62	745	1694	1851
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

STRIPED BASS EGGS

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	126	75	202	N	96	104	200	N	115	0	115
	S.E.	N	72	75	104	N	69	104	124	N	0	0	74
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	267	465	732	N	186	61	248	N	239	86	326
	S.E.	N	140	400	424	N	124	41	131	N	86	86	254
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	362	2066	2428	N	59	1204	1263	N	0	76	76
	S.E.	N	173	1015	1030	N	59	867	869	N	76	76	76
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	609	764	1373	N	241	374855	375096	N	1473	181	1655
	S.E.	N	227	544	589	N	151	371459	371460	N	181	181	1210
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	10711	4196	14907	N	410	1575	1985	N	0	757	757
	S.E.	N	9535	1722	9690	N	164	772	789	N	757	757	757
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	852	44	895	N	21	0	21	N	251	106	358
	S.E.	N	707	44	708	N	21	0	21	N	106	106	233
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	N	203	0	203	N	58	0	58	N	0	121	121
	S.E.	N	148	0	148	N	58	0	58	N	121	121	121
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	81	81	N	0	0	0	N	0	0	0
	S.E.	N	0	81	81	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	13130	7691	20822	N	1072	377799	378871	N	2079	1327	3406
	S.E.	N	9568	2114	9799	N	277	371461	371461	N	803	803	1477
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

STRIPED BASS EGGS

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	243	0	243	N	82	0	82
	S.E.	N	243	0	243	N	82	0	82
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	165	150	314
	S.E.	N	0	0	0	N	82	150	171
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	115	0	115	N	83	74	157
	S.E.	N	77	0	77	N	83	74	111
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	198	198	N	69	0	69
	S.E.	N	0	198	198	N	69	0	69
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	814	0	814	N	0	86	86
	S.E.	N	612	0	612	N	0	86	86
	NO. TOWS	N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	0	0	0	N	0	173	173
	S.E.	N	0	0	0	N	0	173	173
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	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	1172	198	1370	N	398	483	881
	S.E.	N	663	198	692	N	159	255	301
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

STRIPED BASS EGGS

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	40	N	40	1149	439	2179	3766
	S.E.	N	40	N	40	633	134	763	1000
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	1919	2807	65066	69791
	S.E.	N	0	N	0	808	1015	13330	13393
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	9170	11179	42109	62458
	S.E.	N	0	N	0	3909	3311	9523	10814
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	3735	5091	378017	386843
	S.E.	N	0	N	0	1440	1577	371460	371466
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	2122	N	2122	1106	16493	15838	33436
	S.E.	N	1325	N	1325	527	9666	2745	10062
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	140	2091	2501	4732
	S.E.	N	0	N	0	97	963	592	1135
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	16	2619	1448	4083
	S.E.	N	0	N	0	16	964	485	1079
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	0	104	104
	S.E.	N	0	N	0	0	0	84	84
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	2162	N	2162	17236	40718	507260	565214
	S.E.	N	1325	N	1325	4324	10478	371833	372006
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-2
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

STRIPED BASS YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	147	0	36	183
	S.E.	0	N	0	0	0	0	0	0	94	0	36	101
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	134	N	1037	1170	3835	126	4780	8740	1902	0	3225	5127
	S.E.	134	N	1037	1045	1964	73	2619	3275	1017	0	805	1297
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	32160	9913	4615	46688	3939	1977	11552	17468
	S.E.	0	N	0	0	16258	5387	1227	17171	1627	843	5985	6259
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	109	N	1824	1934	1115	2065	9312	12493	3241	1054	422	4717
	S.E.	109	N	1317	1321	1115	2065	4120	4741	1356	555	216	1481
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	238	1125	864	2227	1126	3660	810	5596
	S.E.	0	N	0	0	238	606	542	847	424	778	477	1006
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	226	226	4764	1438	18493	24695	10814	10258	4519	25592
	S.E.	0	N	110	110	3722	527	14440	14922	5761	3154	2177	6920
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	23	0	23
	S.E.	0	N	0	0	0	0	0	0	0	23	0	23
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	243	N	3087	3330	42112	14666	38064	94843	21169	16973	20564	58706
	S.E.	173	N	1680	1689	16833	5825	15302	23483	6237	3402	6441	9590
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-2 (CONTINUED).

STRIPED BASS YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	12	0	0	12	N	0	355	355	0	29	271	300
	S.E.	12	0	0	12	N	0	111	111	0	21	71	74
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	182	165	2036	2383	N	21	1956	1978	14	97	506	617
	S.E.	37	94	422	434	N	21	305	305	6	25	178	180
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	1201	532	6471	8205	N	78	2287	2365	138	852	2340	3331
	S.E.	971	257	2651	2835	N	30	428	430	73	233	1692	1709
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	353	2849	11100	14302	N	2225	14029	16254	82	8320	4724	13125
	S.E.	152	1715	2962	3426	N	1856	4508	4875	45	3549	2737	4482
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	377	12352	14939	27668	N	2448	14497	16945	532	4203	5319	10054
	S.E.	82	5667	5118	7636	N	1066	2840	3034	284	1427	2620	2996
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	2624	29602	64297	96523	N	6900	38493	45393	702	20312	8512	29526
	S.E.	629	18131	14133	22997	N	2701	6613	7144	531	5928	4272	7326
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	23	523	1598	2144	N	3609	8659	12268	104	557	210	870
	S.E.	16	493	663	826	N	1141	1527	1907	80	131	91	179
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	60	60	N	277	1615	1893	0	104	163	267
	S.E.	0	0	60	60	N	106	376	391	0	48	84	97
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	4771	46023	100503	151297	N	15559	81892	97451	1572	34473	22045	58091
	S.E.	1171	19082	15568	24655	N	3633	8654	9385	613	7061	5959	9260
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-2 (CONTINUED).

STRIPED BASS YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	64	0	64	N	0	0	0	N	0	0	0
	S.E.	N	33	0	33	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	61	367	428	N	0	0	0	N	0	0	0
	S.E.	N	44	209	213	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	207	1110	1317	N	0	0	0	N	0	0	0
	S.E.	N	102	387	401	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	7418	4957	12375	N	1371	3728	5099	N	2463	139	2601
	S.E.	N	3628	1931	4110	N	650	1693	1813	N	91	91	1119
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	11631	24952	36584	N	149	741	890	N	612	89	701
	S.E.	N	4391	8584	9641	N	69	281	290	N	89	89	618
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	104965	59017	163982	N	2360	3944	6305	N	4931	2349	7280
	S.E.	N	28444	37108	46756	N	701	2350	2452	N	1560	1560	2695
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	N	1955	5114	7069	N	723	1809	2532	N	58	167	225
	S.E.	N	1110	1553	1909	N	350	730	809	N	112	112	117
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	122	1052	1174	N	62	40	102	N	0	170	170
	S.E.	N	63	309	315	N	25	40	47	N	76	76	76
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	41	41	N	0	0	0	N	0	0	0
	S.E.	N	0	41	41	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	126424	96610	223034	N	4665	10263	14928	N	8064	2913	10977
	S.E.	N	29031	38172	47957	N	1021	3000	3169	N	1571	1571	2986
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-2 (CONTINUED).

STRIPED BASS YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	229	0	229	N	0	0	0
	S.E.	N	140	0	140	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	4280	2033	6313	N	1804	80	1884
	S.E.	N	1668	533	1751	N	704	80	709
	NO. TOWS	N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	950	1968	2918	N	328	824	1152
	S.E.	N	687	1968	2085	N	328	273	427
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	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	5458	4001	9459	N	2132	904	3037
	S.E.	N	1809	2039	2726	N	777	284	827
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-2 (CONTINUED).

STRIPED BASS YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	159	93	662	914
	S.E.	N	0	N	0	95	39	137	171
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	6067	471	13907	20445
	S.E.	N	0	N	0	2217	131	2988	3723
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	78	N	78	37439	13636	28376	79452
	S.E.	N	78	N	78	16368	5465	6896	18583
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	4900	27993	50236	83129
	S.E.	N	0	N	0	1766	6197	7870	10172
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	2273	36180	62212	100665
	S.E.	N	0	N	0	569	7478	10743	13101
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	18904	186851	201963	407718
	S.E.	N	0	N	0	6908	34628	43131	55741
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	61	N	61	127	8788	20349	29264
	S.E.	N	61	N	61	82	1872	3112	3632
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	566	3101	3666
	S.E.	N	0	N	0	0	134	505	522
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	41	41
	S.E.	N	0	N	0	0	0	41	41
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	139	N	139	69868	274577	380847	725293
	S.E.	N	99	N	99	18001	36426	45870	61277
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-3
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

STRIPED BASS POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	2053	1299	1394	4746	262	128	103	492
	S.E.	0	N	0	0	594	556	710	1080	175	128	103	240
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	1177	N	487	1664	1672	445	2491	4608	78	681	331	1090
	S.E.	618	N	487	787	651	104	1320	1475	78	525	231	579
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	780	780	357	4232	101	4691	549	7163	1616	9328
	S.E.	0	N	494	494	357	1681	101	1722	291	3305	1498	3640
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	221	221	38397	9521	42027	89945	6733	9727	30160	46620
	S.E.	0	N	156	156	21828	3975	25368	33702	2138	4238	12699	13558
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	160	N	326	486	10269	4258	16495	31022	59126	17794	25161	102081
	S.E.	0	N	123	123	4420	1367	10932	11871	37988	6368	4644	38797
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	2839	480	5104	8423	4216	2409	4053	10678
	S.E.	0	N	0	0	1658	196	1650	2347	1088	792	585	1467
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	664	90	256	1010	525	60	2310	2895
	S.E.	0	N	0	0	501	56	125	520	77	41	1600	1603
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	1337	N	1814	3152	56251	20324	67869	144444	71488	37961	63735	173184
	S.E.	618	N	722	950	22359	4567	27714	35900	38066	8388	13713	41321
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-3 (CONTINUED).

STRIPED BASS POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	14	22	0	37	N	15	145	160	0	0	0	0
	S.E.	14	22	0	27	N	15	71	73	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	90	0	677	767	N	14	299	313	0	69	0	69
	S.E.	45	0	242	247	N	14	96	97	0	45	0	45
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	227	5833	9377	15437	N	964	4090	5054	6	269	0	275
	S.E.	164	2415	3486	4244	N	276	892	934	6	188	0	188
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	3943	27624	82046	113613	N	22978	71592	94570	1495	14308	36353	52156
	S.E.	2276	9204	14132	17018	N	8011	13224	15461	1138	3832	14626	15163
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	9301	26767	131925	167993	N	20644	91016	111660	3603	10024	23909	37537
	S.E.	1167	3544	14679	15145	N	9827	9284	13519	614	1327	5321	5518
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	5519	12605	62066	80189	N	3406	23546	26952	325	5930	15656	21911
	S.E.	3396	5309	16392	17562	N	350	1450	1491	139	1179	5620	5744
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	540	541	9248	10329	N	6940	14452	21392	229	2685	1399	4313
	S.E.	192	238	2600	2617	N	2369	1616	2868	111	1097	346	1156
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	19635	73392	295338	388365	N	54961	205141	260101	5657	33286	77318	116261
	S.E.	4259	11461	26512	29195	N	12906	16328	20812	1306	4368	16551	17168
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-3 (CONTINUED).

STRIPED BASS POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	34	0	34	N	0	0	0	N	0	0	0
	S.E.	N	34	0	34	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	222	122	345	N	15	0	15	N	0	0	0
	S.E.	N	96	73	120	N	15	0	15	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	39529	6712	46241	N	299	300	599	N	0	116	116
	S.E.	N	20422	2847	20619	N	103	140	173	N	71	71	71
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	N	11434	69940	81374	N	2363	10900	13263	N	725	1520	2245
	S.E.	N	2851	22382	22563	N	561	1397	1506	N	447	447	512
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	2708	9030	11738	N	497	1179	1675	N	180	647	827
	S.E.	N	374	2545	2572	N	171	635	658	N	315	315	333
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	423	3296	3719	N	516	860	1376	N	274	0	274
	S.E.	N	158	816	831	N	86	154	177	N	0	0	161
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	54351	89100	143451	N	3690	13238	16928	N	1179	2282	3461
	S.E.	N	20624	22720	30685	N	601	1549	1662	N	552	552	636
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-3 (CONTINUED).

STRIPED BASS POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	104	0	104	N	0	0	0
	S.E.	N	60	0	60	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	2496	3631	6127	N	0	560	560
	S.E.	N	647	3238	3301	N	0	316	316
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	ST. CROP	N	335	0	335	N	83	0	83
	S.E.	N	167	0	167	N	83	0	83
	NO. TOWS	N	4	2	6	N	3	3	6
04JUL83	ST. CROP	N	0	173	173	N	396	0	396
	S.E.	N	0	173	173	N	396	0	396
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	2934	3804	6738	N	479	560	1039
	S.E.	N	670	3242	3311	N	405	316	514
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-3 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS ALBANY SHOAL	STRIPED BASS ALBANY BOTTOM	STRIPED BASS ALBANY CHANNEL	STRIPED BASS ALBANY REGION	POST YOLK-SAC LARVAE COMBINED SHOAL	POST YOLK-SAC LARVAE COMBINED BOTTOM	POST YOLK-SAC LARVAE COMBINED CHANNEL	POST YOLK-SAC LARVAE COMBINED REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	2329	1463	1642	5434
	S.E.	N	0	N	0	620	571	721	1109
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	3017	1243	4286	8546
	S.E.	N	0	N	0	903	539	1449	1790
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	1140	18699	16086	35925
	S.E.	N	0	N	0	489	4439	3930	5949
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	50567	124089	269527	444183
	S.E.	N	0	N	0	22080	24787	37436	50034
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	82460	96504	375382	554347
	S.E.	N	0	N	0	38267	12737	31381	51102
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	12898	28632	121281	162812
	S.E.	N	0	N	0	3935	5530	17676	18934
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	1957	11926	31995	45878
	S.E.	N	0	N	0	553	2663	3576	4493
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	154367	282557	820200	1257124
	S.E.	N	0	N	0	44375	28890	52245	74386
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-4
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	513	0	0	513	52	0	0	52
	S.E.	0	N	0	0	513	0	0	513	52	0	0	52
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	252	0	68	320	856	20	0	876
	S.E.	0	N	0	0	128	0	68	145	473	20	0	473
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	765	0	68	833	908	20	0	928
	S.E.	0	N	0	0	528	0	68	533	476	20	0	476
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-4 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	32	32	N	0	0	0	0	0	0	0
	S.E.	0	0	32	32	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	605	175	331	1111	N	0	63	63	0	0	0	0
	S.E.	278	82	196	350	N	0	35	35	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	605	175	363	1143	N	0	63	63	0	0	0	0
	S.E.	278	82	199	352	N	0	35	35	0	0	0	0
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-4 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	20	0	20	N	0	0	0
	S.E.	N	0	0	0	N	20	0	20	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	20	0	20	N	0	0	0
	S.E.	N	0	0	0	N	20	0	20	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-4 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-4 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS YOUNG-OF-THE-YEAR							
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	565	0	32	597
	S.E.	N	0	N	0	515	0	32	516
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	1713	215	462	2390
	S.E.	N	0	N	0	563	87	210	608
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	2278	215	494	2987
	S.E.	N	0	N	0	764	87	213	797
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-5
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	2155	112	0	2267	301	226	0	527
	S.E.	0	N	0	0	1188	112	0	1194	132	108	0	170
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	282	0	0	282	9	0	0	9
	S.E.	0	N	0	0	85	0	0	85	9	0	0	9
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	153	339	0	493	105	92	0	197
	S.E.	0	N	0	0	142	339	0	368	59	60	0	84
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	32	0	0	32	10	31	0	41
	S.E.	0	N	0	0	23	0	0	23	10	22	0	24
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	13	N	0	13	39	460	0	499	348	258	0	607
	S.E.	13	N	0	13	31	411	0	413	129	114	0	172
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	0	N	0	0	11	0	0	11	9	0	0	9
	S.E.	0	N	0	0	11	0	0	11	9	0	0	9
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	13	N	0	13	2673	911	0	3583	781	607	0	1388
	S.E.	13	N	0	13	1200	545	0	1318	194	169	0	258
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-5 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	329	75	333	737	N	42	0	42	22	168	0	190
	S.E.	259	32	333	423	N	42	0	42	13	65	0	67
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	9	0	0	9
	S.E.	0	0	0	0	N	0	0	0	9	0	0	9
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	13	0	13	N	0	0	0	4	17	0	20
	S.E.	0	13	0	13	N	0	0	0	4	17	0	17
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	3	0	0	3
	S.E.	0	0	0	0	N	0	0	0	3	0	0	3
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	41	56	0	97	N	15	0	15	9	0	0	9
	S.E.	35	36	0	50	N	15	0	15	5	0	0	5
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
170CT83	ST. CROP	0	14	0	14	N	0	0	0	36	0	0	36
	S.E.	0	14	0	14	N	0	0	0	10	0	0	10
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	371	158	333	861	N	57	0	57	82	185	0	267
	S.E.	261	52	333	426	N	44	0	44	20	68	0	71
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-5 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	198	0	198	N	26	0	26	N	38	0	38
	S.E.	N	115	0	115	N	26	0	26	N	0	0	27
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	67	0	67	N	0	0	0	N	117	0	117
	S.E.	N	67	0	67	N	0	0	0	N	0	0	68
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	61	0	61
	S.E.	N	0	0	0	N	0	0	0	N	0	0	32
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	34	0	34	N	13	0	13	N	97	0	97
	S.E.	N	34	0	34	N	13	0	13	N	0	0	29
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	0	0	0	N	14	0	14	N	16	0	16
	S.E.	N	0	0	0	N	14	0	14	N	0	0	16
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	156	0	156	N	29	0	29	N	0	0	0
	S.E.	N	85	0	85	N	29	0	29	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	456	0	456	N	82	0	82	N	330	0	330
	S.E.	N	161	0	161	N	44	0	44	N	0	0	87
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-5 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	399	0	399	N	387	0	387
	S.E.	N	136	0	136	N	238	0	238
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	ST. CROP	N	117	0	117	N	31	0	31
	S.E.	N	84	0	84	N	21	0	21
	NO. TOWS	N	12	6	18	N	15	6	21
05SEP83	ST. CROP	N	27	0	27	N	40	0	40
	S.E.	N	18	0	18	N	40	0	40
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	ST. CROP	N	50	0	50	N	0	0	0
	S.E.	N	28	0	28	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
030CT83	ST. CROP	N	113	0	113	N	0	0	0
	S.E.	N	38	0	38	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
170CT83	ST. CROP	N	21	0	21	N	0	0	0
	S.E.	N	14	0	14	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	727	0	727	N	458	0	458
	S.E.	N	168	0	168	N	243	0	243
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-5 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	N	0	2807	1671	333	4811
	S.E.	N	0	N	0	1223	348	333	1315
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	ST. CROP	N	116	N	116	299	449	0	749
	S.E.	N	88	N	88	86	156	0	178
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	34	N	34	262	623	0	885
	S.E.	N	34	N	34	154	351	0	383
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	ST. CROP	N	0	N	0	44	226	0	270
	S.E.	N	0	N	0	25	58	0	64
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	ST. CROP	N	0	N	0	451	932	0	1383
	S.E.	N	0	N	0	138	431	0	452
	NO. TOWS	N	8	N	8	65	85	50	200
170CT83	ST. CROP	N	24	N	24	56	245	0	301
	S.E.	N	24	N	24	17	95	0	97
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	175	N	175	3919	4146	333	8398
	S.E.	N	97	N	97	1244	683	333	1458
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-6
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	ST. CROP	105	292	156	103	43	162	62	17	69	125	262	78	1473
	S.E.	66	49	38	37	19	67	33	9	47	42	135	30	197
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	116	292	284	29	7	59	1	7	50	47	124	25	1042
	S.E.	30	73	90	13	3	25	1	5	42	24	73	9	151
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	35	1427	184	35	24	197	17	6	10	35	83	16	2069
	S.E.	14	315	62	16	12	57	11	5	7	16	38	13	330
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	27	3040	501	138	27	130	1	0	24	62	98	10	4060
	S.E.	15	1031	145	69	19	51	1	0	13	41	71	6	1048
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	3	377	254	114	1	70	9	0	2	16	51	4	899
	S.E.	2	167	90	55	1	19	7	0	2	8	38	3	202
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
100CT83	ST. CROP	0	38	159	12	15	51	3	0	1	6	26	0	312
	S.E.	0	19	53	9	14	18	3	0	1	4	19	0	65
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	286	5466	1539	432	118	668	94	31	156	291	643	132	9855
	S.E.	76	1095	213	98	33	108	35	12	64	66	178	34	1147
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

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 1 - AUG 7

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	883	0 *	0 *	0 *	883
	SE	590	0 *	0 *	0 *	590
TAPPAN ZEE	ST. CROP	2442	1806 *	112 *	68 *	4427
	SE	675	987 *	112 *	68 *	1203
CROTON-HAVERSTRAW	ST. CROP	1303	867 *	247 *	0 *	2417
	SE	430	453 *	129 *	0 *	638
INDIAN POINT	ST. CROP	865	701 *	250 *	664 *	2478
	SE	364	403 *	114 *	529 *	766
WEST POINT	ST. CROP	362	3 *	38 *	63 *	466
	SE	179	3 *	38 *	35 *	186
CORNWALL	ST. CROP	1353	16 *	168 *	0 *	1538
	SE	634	10 *	65 *	0 *	637
POUGHKEEPSIE	ST. CROP	523	13 *	181 *	0 *	717
	SE	297	7 *	105 *	0 *	315
HYDE PARK	ST. CROP	145	2 *	43 *	0 *	190
	SE	85	2 *	43 *	0 *	95
KINGSTON	ST. CROP	577	7 *	28 *	0 *	612
	SE	410	5 *	20 *	0 *	411
SAUGERTIES	ST. CROP	1046	96 *	271 *	0 *	1413
	SE	419	33 *	92 *	0 *	430
CATSKILL	ST. CROP	2192	130 *	213 *	0 *	2535
	SE	1230	80 *	131 *	0 *	1240
ALBANY	ST. CROP	650	0 *	0 *	0 *	650
	SE	286	0 *	0 *	0 *	286
STRATUM TOTAL	ST. CROP	12342	3642 *	1550 *	794 *	18328
	SE	1895	1162 *	294 *	534 *	2305

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

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

TABLE B-7 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

AUG 8 - AUG 14

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	883	0	0 *	0	883
	SE	590	0	0 *	0	590
TAPPAN ZEE	ST. CROP	2442	3233	223	0	5898
	SE	675	1782	223	0	1919
CROTON-HAVERSTRAW	ST. CROP	1303	451	452	0	2207
	SE	430	197	216	0	520
INDIAN POINT	ST. CROP	865	494	150	665	2173
	SE	364	388	63	665	854
WEST POINT	ST. CROP	362	6 *	76	0	444
	SE	179	6 *	76	0	195
CORNWALL	ST. CROP	1353	32	337	0	1722
	SE	634	20	131	0	647
POUGHKEEPSIE	ST. CROP	523	26 *	362	0	911
	SE	297	15 *	210	0	364
HYDE PARK	ST. CROP	145	3 *	49	0	197
	SE	85	3 *	49	0	98
KINGSTON	ST. CROP	577	15 *	56	0	648
	SE	410	10 *	40	0	413
SAUGERTIES	ST. CROP	1046	193 *	542	0	1780
	SE	419	66 *	185	0	462
CATSKILL	ST. CROP	2192	261 *	426	0	2879
	SE	1230	161 *	262	0	1268
ALBANY	ST. CROP	650	0 *	0	0 *	650
	SE	286	0 *	0	0 *	286
STRATUM TOTAL	ST. CROP	12342	4712 *	2673	665 *	20392
	SE	1895	1843 *	524	665 *	2776

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

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

STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-7 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

AUG 15 - AUG 21

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	971	0 *	0 *	0 *	971
	SE	331	0 *	0 *	0 *	331
TAPPAN ZEE	ST. CROP	2442	1828 *	112 *	0 *	4382
	SE	816	955 *	112 *	0 *	1261
CROTON-HAVERSTRAW	ST. CROP	2381	232 *	226 *	0 *	2839
	SE	919	105 *	108 *	0 *	932
INDIAN POINT	ST. CROP	247	247 *	75 *	333 *	901
	SE	118	194 *	32 *	333 *	404
WEST POINT	ST. CROP	62	3 *	38 *	0 *	103
	SE	25	3 *	38 *	0 *	46
CORNWALL	ST. CROP	491	23 *	168 *	0 *	682
	SE	234	17 *	65 *	0 *	243
POUGHKEEPSIE	ST. CROP	12	17 *	242 *	0 *	271
	SE	12	12 *	166 *	0 *	167
HYDE PARK	ST. CROP	58	1 *	24 *	0 *	84
	SE	44	1 *	24 *	0 *	51
KINGSTON	ST. CROP	418	30 *	115 *	0 *	563
	SE	363	18 *	71 *	0 *	370
SAUGERTIES	ST. CROP	392	125 *	351 *	0 *	867
	SE	216	53 *	149 *	0 *	268
CATSKILL	ST. CROP	1038	141 *	230 *	0 *	1409
	SE	649	87 *	143 *	0 *	670
ALBANY	ST. CROP	211	31 *	22 *	52 *	317
	SE	89	24 *	17 *	39 *	102
STRATUM TOTAL	ST. CROP	8725	2678 *	1604 *	385 *	13391
	SE	1516	986 *	327 *	335 *	1868

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

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

STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-7 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

AUG 22 - AUG 28

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	971	0	0 *	0	971
	SE	331	0	0 *	0	331
TAPPAN ZEE	ST. CROP	2442	423	0	0	2865
	SE	816	127	0	0	826
CROTON-HAVERSTRAW	ST. CROP	2381	13	0	0	2394
	SE	919	13	0	0	919
INDIAN POINT	ST. CROP	247	0	0	0	247
	SE	118	0	0	0	118
WEST POINT	ST. CROP	62	0 *	0	0	62
	SE	25	0 *	0	0	25
CORNWALL	ST. CROP	491	13	0	0	504
	SE	234	13	0	0	234
POUGHKEEPSIE	ST. CROP	12	9 *	123	0	143
	SE	12	9 *	123	0	124
HYDE PARK	ST. CROP	58	0 *	0	0	58
	SE	44	0 *	0	0	44
KINGSTON	ST. CROP	418	45 *	174	0	637
	SE	363	26 *	101	0	377
SAUGERTIES	ST. CROP	392	57 *	159	0	608
	SE	216	40 *	114	0	247
CATSKILL	ST. CROP	1038	21 *	34	0	1094
	SE	649	14 *	24	0	650
ALBANY	ST. CROP	211	63 *	44	105 *	423
	SE	89	47 *	33	79 *	132
STRATUM TOTAL	ST. CROP	8725	643 *	535	105 *	10007
	SE	1516	146 *	200	79 *	1538

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

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

STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-7 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

AUG 29 - SEP 4

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	290	0 *	0 *	0 *	290
	SE	135	0 *	0 *	0 *	135
TAPPAN ZEE	ST. CROP	11957	327 *	339 *	0 *	12623
	SE	3730	170 *	339 *	0 *	3749
CROTON-HAVERSTRAW	ST. CROP	1545	85 *	92 *	0 *	1721
	SE	622	51 *	60 *	0 *	627
INDIAN POINT	ST. CROP	293	0 *	13 *	0 *	306
	SE	149	0 *	13 *	0 *	150
WEST POINT	ST. CROP	199	0 *	0 *	0 *	199
	SE	111	0 *	0 *	0 *	111
CORNWALL	ST. CROP	1651	9 *	17 *	0 *	1676
	SE	598	9 *	17 *	0 *	598
POUGHKEEPSIE	ST. CROP	143	4 *	61 *	0 *	208
	SE	95	4 *	61 *	0 *	113
HYDE PARK	ST. CROP	52	0 *	0 *	0 *	52
	SE	41	0 *	0 *	0 *	41
KINGSTON	ST. CROP	87	34 *	133 *	0 *	253
	SE	61	19 *	75 *	0 *	98
SAUGERTIES	ST. CROP	294	35 *	98 *	0 *	427
	SE	151	25 *	69 *	0 *	168
CATSKILL	ST. CROP	692	24 *	39 *	0 *	756
	SE	356	21 *	34 *	0 *	359
ALBANY	ST. CROP	130	41 *	29 *	68 *	267
	SE	116	33 *	23 *	55 *	134
STRATUM TOTAL	ST. CROP	17332	559 *	820 *	68 *	18779
	SE	3858	185 *	367 *	55 *	3880

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

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

STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-7 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

SEP 5 - SEP 11

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	290	0	0 *	0	290
	SE	135	0	0 *	0	135
TAPPAN ZEE	ST. CROP	11957	230	679	0	12866
	SE	3730	213	679	0	3797
CROTON-HAVERSTRAW	ST. CROP	1545	157	183	0	1885
	SE	622	89	120	0	640
INDIAN POINT	ST. CROP	293	0	26	0	319
	SE	149	0	26	0	152
WEST POINT	ST. CROP	199	0 *	0	0	199
	SE	111	0 *	0	0	111
CORNWALL	ST. CROP	1651	6	33	0	1690
	SE	598	6	33	0	598
POUGHKEEPSIE	ST. CROP	143	0 *	0	0	143
	SE	95	0 *	0	0	95
HYDE PARK	ST. CROP	52	0 *	0	0	52
	SE	41	0 *	0	0	41
KINGSTON	ST. CROP	87	24 *	91	0	201
	SE	61	13 *	48	0	79
SAUGERTIES	ST. CROP	294	13 *	36	0	343
	SE	151	9 *	24	0	153
CATSKILL	ST. CROP	692	27 *	44	0	764
	SE	356	27 *	44	0	360
ALBANY	ST. CROP	130	19 *	13	31 *	193
	SE	116	19 *	13	31 *	122
STRATUM TOTAL	ST. CROP	17332	475 *	1105	31 *	18943
	SE	3858	234 *	694	31 *	3927

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

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

STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-7 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

SEP 12 - SEP 18

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	227	0 *	0 *	0 *	227
	SE	132	0 *	0 *	0 *	132
TAPPAN ZEE	ST. CROP	25468	139 *	339 *	0 *	25946
	SE	10298	124 *	339 *	0 *	10305
CROTON-HAVERSTRAW	ST. CROP	4199	86 *	123 *	0 *	4408
	SE	1527	52 *	82 *	0 *	1530
INDIAN POINT	ST. CROP	1158	0 *	13 *	0 *	1171
	SE	629	0 *	13 *	0 *	629
WEST POINT	ST. CROP	230	0 *	0 *	0 *	230
	SE	165	0 *	0 *	0 *	165
CORNWALL	ST. CROP	1085	5 *	17 *	0 *	1107
	SE	493	5 *	17 *	0 *	493
POUGHKEEPSIE	ST. CROP	12	2 *	31 *	0 *	45
	SE	12	2 *	31 *	0 *	33
HYDE PARK	ST. CROP	0	1 *	12 *	0 *	13
	SE	0	1 *	12 *	0 *	12
KINGSTON	ST. CROP	202	31 *	118 *	0 *	350
	SE	119	12 *	45 *	0 *	128
SAUGERTIES	ST. CROP	523	19 *	52 *	0 *	593
	SE	364	11 *	31 *	0 *	365
CATSKILL	ST. CROP	824	14 *	22 *	0 *	860
	SE	622	14 *	22 *	0 *	622
ALBANY	ST. CROP	81	9 *	7 *	15 *	113
	SE	57	9 *	7 *	15 *	60
STRATUM TOTAL	ST. CROP	34009	305 *	733 *	15 *	35063
	SE	10469	136 *	356 *	15 *	10476

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

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

STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-7 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

SEP 19 - SEP 25

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	227	0	0 *	0	227
	SE	132	0	0 *	0	132
TAPPAN ZEE	ST. CROP	25468	47	0	0	25515
	SE	10298	35	0	0	10298
CROTON-HAVERSTRAW	ST. CROP	4199	14	62	0	4276
	SE	1527	14	44	0	1527
INDIAN POINT	ST. CROP	1158	0	0	0	1158
	SE	629	0	0	0	629
WEST POINT	ST. CROP	230	0 *	0	0	230
	SE	165	0 *	0	0	165
CORNWALL	ST. CROP	1085	5	0	0	1090
	SE	493	5	0	0	493
POUGHKEEPSIE	ST. CROP	12	4 *	62	0	78
	SE	12	4 *	62	0	63
HYDE PARK	ST. CROP	0	1 *	24	0	26
	SE	0	1 *	24	0	24
KINGSTON	ST. CROP	202	38 *	144	0	384
	SE	119	11 *	42	0	127
SAUGERTIES	ST. CROP	523	24 *	68	0	615
	SE	364	14 *	38	0	366
CATSKILL	ST. CROP	824	0 *	0	0	824
	SE	622	0 *	0	0	622
ALBANY	ST. CROP	81	0 *	0	0 *	81
	SE	57	0 *	0	0 *	57
STRATUM TOTAL	ST. CROP	34009	134 *	361	0 *	34505
	SE	10469	42 *	98	0 *	10470

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

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

STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-7 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

SEP 26 - OCT 2

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	25	10 *	30 *	0 *	65
	SE	16	10 *	30 *	0 *	35
TAPPAN ZEE	ST. CROP	3156	53 *	460 *	0 *	3669
	SE	1562	41 *	411 *	0 *	1616
CROTON-HAVERSTRAW	ST. CROP	2124	268 *	290 *	0 *	2682
	SE	885	104 *	135 *	0 *	901
INDIAN POINT	ST. CROP	957	31 *	56 *	0 *	1044
	SE	507	26 *	36 *	0 *	509
WEST POINT	ST. CROP	9	1 *	13 *	0 *	23
	SE	9	1 *	13 *	0 *	16
CORNWALL	ST. CROP	586	9 *	0 *	0 *	595
	SE	203	6 *	0 *	0 *	203
POUGHKEEPSIE	ST. CROP	71	2 *	31 *	0 *	105
	SE	60	2 *	31 *	0 *	67
HYDE PARK	ST. CROP	0	1 *	25 *	0 *	26
	SE	0	1 *	25 *	0 *	25
KINGSTON	ST. CROP	14	22 *	84 *	0 *	121
	SE	15	9 *	33 *	0 *	38
SAUGERTIES	ST. CROP	131	39 *	111 *	0 *	281
	SE	73	16 *	45 *	0 *	87
CATSKILL	ST. CROP	429	0 *	0 *	0 *	429
	SE	330	0 *	0 *	0 *	330
ALBANY	ST. CROP	33	0 *	0 *	0 *	33
	SE	22	0 *	0 *	0 *	22
STRATUM TOTAL	ST. CROP	7535	437 *	1099 *	0 *	9071
	SE	1908	116 *	441 *	0 *	1962

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

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

STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-7 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

OCT 3 - OCT 9

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	25	20	59 *	0	104
	SE	16	20	59 *	0	65
TAPPAN ZEE	ST. CROP	3156	59	920	0	4134
	SE	1562	47	823	0	1766
CROTON-HAVERSTRAW	ST. CROP	2124	522	517	0	3163
	SE	885	193	227	0	934
INDIAN POINT	ST. CROP	957	62	112	0	1131
	SE	507	52	73	0	515
WEST POINT	ST. CROP	9	2 *	27	0	38
	SE	9	2 *	27	0	28
CORNWALL	ST. CROP	586	13	0	0	599
	SE	203	8	0	0	203
POUGHKEEPSIE	ST. CROP	71	0 *	0	0	71
	SE	60	0 *	0	0	60
HYDE PARK	ST. CROP	0	1 *	26	0	27
	SE	0	1 *	26	0	26
KINGSTON	ST. CROP	14	6 *	24	0	45
	SE	15	6 *	24	0	29
SAUGERTIES	ST. CROP	131	54 *	153	0	338
	SE	73	18 *	51	0	91
CATSKILL	ST. CROP	429	0 *	0	0	429
	SE	330	0 *	0	0	330
ALBANY	ST. CROP	33	0 *	0	0 *	33
	SE	22	0 *	0	0 *	22
STRATUM TOTAL	ST. CROP	7535	740 *	1837	0 *	10112
	SE	1908	207 *	861	0 *	2104

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

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

STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

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

TABLE B-7 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

OCT 10 - OCT 16

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	10 *	30 *	0 *	40
	SE	0	10 *	30 *	0 *	31
TAPPAN ZEE	ST. CROP	317	38 *	460 *	0 *	815
	SE	177	32 *	411 *	0 *	449
CROTON-HAVERSTRAW	ST. CROP	1335	268 *	258 *	0 *	1861
	SE	535	103 *	114 *	0 *	556
INDIAN POINT	ST. CROP	99	31 *	70 *	0 *	200
	SE	80	26 *	51 *	0 *	98
WEST POINT	ST. CROP	128	1 *	13 *	0 *	142
	SE	121	1 *	13 *	0 *	121
CORNWALL	ST. CROP	431	34 *	0 *	0 *	465
	SE	176	12 *	0 *	0 *	176
POUGHKEEPSIE	ST. CROP	24	10 *	143 *	0 *	177
	SE	24	6 *	77 *	0 *	81
HYDE PARK	ST. CROP	0	2 *	40 *	0 *	42
	SE	0	2 *	40 *	0 *	40
KINGSTON	ST. CROP	12	3 *	12 *	0 *	27
	SE	12	3 *	12 *	0 *	18
SAUGERTIES	ST. CROP	49	32 *	91 *	0 *	172
	SE	36	13 *	35 *	0 *	52
CATSKILL	ST. CROP	214	0 *	0 *	0 *	214
	SE	168	0 *	0 *	0 *	168
ALBANY	ST. CROP	0	7 *	5 *	11 *	22
	SE	0	7 *	5 *	11 *	14
STRATUM TOTAL	ST. CROP	2610	435 *	1122 *	11 *	4179
	SE	632	113 *	441 *	11 *	779

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

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

STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-7 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

OCT 17 - OCT 23

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	0	0 *	0	0
	SE	0	0	0 *	0	0
TAPPAN ZEE	ST. CROP	317	16	0	0	334
	SE	177	16	0	0	178
CROTON-HAVERSTRAW	ST. CROP	1335	13	0	0	1349
	SE	535	13	0	0	535
INDIAN POINT	ST. CROP	99	0	29	0	128
	SE	80	0	29	0	85
WEST POINT	ST. CROP	128	0 *	0	0	128
	SE	121	0 *	0	0	121
CORNWALL	ST. CROP	431	54	0	0	485
	SE	176	15	0	0	177
POUGHKEEPSIE	ST. CROP	24	20 *	286	0	330
	SE	24	11 *	155	0	157
HYDE PARK	ST. CROP	0	3 *	55	0	58
	SE	0	3 *	55	0	55
KINGSTON	ST. CROP	12	0 *	0	0	12
	SE	12	0 *	0	0	12
SAUGERTIES	ST. CROP	49	10 *	28	0	88
	SE	36	7 *	19	0	42
CATSKILL	ST. CROP	214	0 *	0	0	214
	SE	168	0 *	0	0	168
ALBANY	ST. CROP	0	13 *	9	22 *	44
	SE	0	13 *	9	22 *	27
STRATUM TOTAL	ST. CROP	2610	130 *	407	22 *	3169
	SE	632	32 *	168	22 *	655

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

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

STR BASS ICHTHYO EFFICIENCY = SBS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-8
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	30	42	0	72
	S.E.	0	N	0	0	0	0	0	0	30	42	0	52
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	40	N	0	40	0	0	0	0	0	0	0	0
	S.E.	40	N	0	40	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	119	0	0	119	0	0	0	0
	S.E.	0	N	0	0	119	0	0	119	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	36	0	36
	S.E.	0	N	0	0	0	0	0	0	0	36	0	36
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	159	0	0	159	0	0	0	0
	S.E.	0	N	0	0	159	0	0	159	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	135	0	72	208	43	31	0	74
	S.E.	0	N	0	0	135	0	72	153	43	31	0	53
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	74	74	368	46	0	414	0	41	0	41
	S.E.	0	N	74	74	201	46	0	206	0	41	0	41
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	40	N	74	113	781	46	72	900	73	151	0	224
	S.E.	40	N	74	84	313	46	72	325	52	76	0	92
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-8 (CONTINUED).

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	9	0	0	9	N	0	45	45	0	0	0	0
	S.E.	9	0	0	9	N	0	31	31	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	8	0	24	32	N	0	0	0	0	0	20	20
	S.E.	8	0	24	25	N	0	0	0	0	0	20	20
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	17	0	24	41	N	0	45	45	0	0	20	20
	S.E.	12	0	24	27	N	0	31	31	0	0	20	20
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-8 (CONTINUED).

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	N	0	44	44	N	0	0	0	N	0	0	0
	S.E.	N	0	44	44	N	0	0	0	N	0	0	0
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	44	44	N	0	0	0	N	0	0	0
	S.E.	N	0	44	44	N	0	0	0	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-8 (CONTINUED).

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

- TABLE B-8 (CONTINUED).

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	30	42	0	72
	S.E.	N	0	N	0	30	42	0	52
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	40	0	0	40
	S.E.	N	0	N	0	40	0	0	40
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	119	0	0	119
	S.E.	N	0	N	0	119	0	0	119
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	36	0	36
	S.E.	N	0	N	0	0	36	0	36
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	159	0	44	203
	S.E.	N	0	N	0	159	0	44	165
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	188	31	117	337
	S.E.	N	0	N	0	142	31	79	166
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	376	87	118	580
	S.E.	N	0	N	0	201	62	80	225
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	911	197	279	1387
	S.E.	N	0	N	0	320	89	121	354
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-9
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	9	0	9
	S.E.	0	N	0	0	0	0	0	0	0	9	0	9
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	48	N	0	48	0	0	0	0	0	0	0	0
	S.E.	48	N	0	48	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	20	0	0	20	0	0	0	0
	S.E.	0	N	0	0	20	0	0	20	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	48	N	0	48	20	0	0	20	0	9	0	9
	S.E.	48	N	0	48	20	0	0	20	0	9	0	9
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-9 (CONTINUED).

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-9 (CONTINUED).

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	31	0	31
	S.E.	N	0	0	0	N	0	0	0	N	0	0	31
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
170CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	31	0	31
	S.E.	N	0	0	0	N	0	0	0	N	0	0	31
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-9 (CONTINUED).

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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
22AUG83	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
05SEP83	ST. CROP	N	12	0	12	N	12	0	12
	S.E.	N	12	0	12	N	12	0	12
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	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
030CT83	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
170CT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	12	0	12	N	12	0	12
	S.E.	N	12	0	12	N	12	0	12
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-9 (CONTINUED).

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	N	0	0	9	0	9
	S.E.	N	0	N	0	0	9	0	9
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	ST. CROP	N	103	N	103	48	134	0	182
	S.E.	N	103	N	103	48	108	0	118
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	0	N	0	0	25	0	25
	S.E.	N	0	N	0	0	18	0	18
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	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	49	199
030CT83	ST. CROP	N	0	N	0	20	0	0	20
	S.E.	N	0	N	0	20	0	0	20
	NO. TOWS	N	8	N	8	65	85	50	200
170CT83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	103	N	103	68	168	0	236
	S.E.	N	103	N	103	52	109	0	121
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-10
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

STRIPED BASS YEARLING

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AI	COMBINED
01AUG83	ST. CROP	2	42	13	4	0	11	0	0	0	0	2	2	75
	S.E.	2	21	13	4	0	9	0	0	0	0	2	2	27
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	0	0	0	0	1	16	1	0	0	2	0	0	20
	S.E.	0	0	0	0	1	16	1	0	0	2	0	0	16
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	6	0	2	2	0	0	0	0	0	14	0	23	47
	S.E.	6	0	2	2	0	0	0	0	0	14	0	23	28
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	0	6	2	0	1	11	0	0	0	0	0	0	19
	S.E.	0	4	2	0	1	9	0	0	0	0	0	0	10
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	0	0	0	0	0	5	0	0	0	0	0	0	5
	S.E.	0	0	0	0	0	5	0	0	0	0	0	0	5
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	ST. CROP	0	0	0	0	0	2	0	0	0	0	0	0	2
	S.E.	0	0	0	0	0	2	0	0	0	0	0	0	2
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	8	47	17	6	1	44	1	0	0	16	2	25	167
	S.E.	6	21	14	4	1	21	1	0	0	14	2	23	43
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-11
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

STRIPED BASS OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	36	0	36	0	0	0	0
	S.E.	0	N	0	0	0	36	0	36	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	132	132	0	0	0	0
	S.E.	0	N	0	0	0	0	84	84	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	31	31
	S.E.	0	N	0	0	0	0	0	0	0	0	31	31
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	132	0	0	132	0	0	0	0
	S.E.	0	N	0	0	132	0	0	132	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	132	36	132	301	0	0	31	31
	S.E.	0	N	0	0	132	36	84	160	0	0	31	31
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-11 (CONTINUED).

STRIPED BASS OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-11 (CONTINUED).

STRIPED BASS OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	13	0	13	N	0	0	0
	S.E.	N	0	0	0	N	13	0	13	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	13	0	13	N	0	0	0
	S.E.	N	0	0	0	N	13	0	13	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-11 (CONTINUED).

STRIPED BASS OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-11 (CONTINUED).

WEEK BEGINNING MONDAY		STRIPED BASS ALBANY SHOAL	STRIPED BASS ALBANY BOTTOM	STRIPED BASS ALBANY CHANNEL	STRIPED BASS ALBANY REGION	OLDER COMBINED SHOAL	OLDER COMBINED BOTTOM	OLDER COMBINED CHANNEL	OLDER COMBINED REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	13	0	13
	S.E.	N	0	N	0	0	13	0	13
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	36	0	36
	S.E.	N	0	N	0	0	36	0	36
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	132	132
	S.E.	N	0	N	0	0	0	84	84
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	0	31	31
	S.E.	N	0	N	0	0	0	31	31
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	132	0	0	132
	S.E.	N	0	N	0	132	0	0	132
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	132	50	164	345
	S.E.	N	0	N	0	132	39	90	164
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-12
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

STRIPED BASS OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	10	N	0	10	0	0	0	0	0	0	0	0
	S.E.	10	N	0	10	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	10	N	0	10	0	0	0	0	0	0	0	0
	S.E.	10	N	0	10	0	0	0	0	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-12 . (CONTINUED).

STRIPED BASS OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-12 (CONTINUED).

STRIPED BASS OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-12 (CONTINUED).

STRIPED BASS OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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
22AUG83	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
05SEP83	ST. CROP	N	0	0	0	N	13	0	13
	S.E.	N	0	0	0	N	13	0	13
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	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
030CT83	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
17OCT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	0	0	0	N	13	0	13
	S.E.	N	0	0	0	N	13	0	13
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-12 (CONTINUED).

STRIPED BASS — OLDER

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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	66	85	49	200
22AUG83	ST. CROP	N	0	N	0	10	0	0	10
	S.E.	N	0	N	0	10	0	0	10
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	0	N	0	0	13	0	13
	S.E.	N	0	N	0	0	13	0	13
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	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	49	199
030CT83	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	65	85	50	200
17OCT83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	10	13	0	22
	S.E.	N	0	N	0	10	13	0	16
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-13
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

STRIPED BASS OLDER

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AI	COMBINED
01AUG83	ST. CROP	0	0	0	0	0	2	0	0	0	0	0	0	2
	S.E.	0	0	0	0	0	2	0	0	0	0	0	0	2
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	0	0	0	0	0	0	0	0	0	4	0	0	4
	S.E.	0	0	0	0	0	0	0	0	0	4	0	0	4
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	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. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
100CT83	ST. CROP	0	0	0	0	0	2	0	0	0	0	0	0	2
	S.E.	0	0	0	0	0	2	0	0	0	0	0	0	2
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	0	0	0	0	0	4	0	0	0	4	0	0	7
	S.E.	0	0	0	0	0	3	0	0	0	4	0	0	5
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-14
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE PERCH EGGS

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	589	0	0	589
	S.E.	0	N	0	0	0	0	0	0	589	0	0	589
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	1137	0	0	1137
	S.E.	0	N	0	0	0	0	0	0	1137	0	0	1137
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	31	90	0	121
	S.E.	0	N	0	0	0	0	0	0	31	45	0	55
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	188	0	188	483	0	0	483
	S.E.	0	N	0	0	0	188	0	188	483	0	0	483
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	43	0	43
	S.E.	0	N	0	0	0	0	0	0	0	26	0	26
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	59807	0	0	59807	707	0	0	707
	S.E.	0	N	0	0	59807	0	0	59807	317	0	0	317
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	12205	76	0	12281	558	133	0	691
	S.E.	0	N	0	0	12205	76	0	12205	498	133	0	515
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	636	0	0	636	94	175	0	269
	S.E.	0	N	0	0	636	0	0	636	94	111	0	146
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	72648	264	0	72912	3599	441	0	4040
	S.E.	0	N	0	0	61043	203	0	61043	1493	181	0	1504
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-14 (CONTINUED).

WHITE PERCH - EGGS

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	12	100	49	161	N	457	694	1151	17	139	121	278
	S.E.	12	100	34	106	N	283	292	407	7	76	121	143
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	12	30	165	207	N	3223	772	3994	22	3220	0	3241
	S.E.	12	20	86	89	N	1646	281	1669	13	968	0	968
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	10	448	304	762	N	966	679	1645	274	14918	454	15646
	S.E.	10	180	156	238	N	491	240	546	120	8000	332	8008
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	1436	905	743	3084	N	1930	2894	4824	244	7988	42	8274
	S.E.	1436	511	414	1580	N	818	1226	1474	226	6499	42	6503
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	87	103	190	N	31293	25560	56853	169	4987	15241	20397
	S.E.	0	87	55	103	N	25512	12561	28437	69	1199	14498	14547
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	4741	3988	3243	11972	N	10563	1325	11888	901	20640	158	21699
	S.E.	3988	1869	1393	4620	N	10261	437	10271	770	15525	158	15545
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	144	998	1789	2931	N	9597	2735	12332	23	42690	1114	43826
	S.E.	61	969	848	1289	N	4887	801	4952	23	25927	945	25944
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	214	414	628	N	72	679	751	0	0	50	50
	S.E.	0	111	196	225	N	30	450	451	0	0	50	50
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	29	0	29	0	0	0	0
	S.E.	0	0	0	0	N	20	0	20	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	6355	6770	6809	19934	N	58130	35339	93468	1649	94582	17180	113411
	S.E.	4240	2181	1705	5063	N	27995	12670	30729	814	31966	14534	35125
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-14 (CONTINUED).

WHITE PERCH EGGS

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	146	0	146	N	13143	1092	14234	N	1781	1628	3409
	S.E.	N	74	0	74	N	6032	958	6107	N	988	988	1343
	NO. TOWS	N	9	10	19	N	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	92499	1333	93832	N	16230	242	16472	N	69585	0	69585
	S.E.	N	38676	448	38679	N	7858	111	7859	N	0	0	53839
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	68023	1523	69546	N	18536	1182	19718	N	97300	2270	99570
	S.E.	N	29218	1388	29251	N	4462	573	4498	N	1916	1916	48082
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	40836	5573	46409	N	8152	1091	9243	N	53062	5480	58542
	S.E.	N	15303	3378	15672	N	2691	506	2738	N	5288	5288	50781
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	82453	1673	84126	N	8502	15011	23514	N	13987	1087	15074
	S.E.	N	80304	729	80308	N	6008	12804	14143	N	792	792	11071
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	8178	2369	10548	N	15389	6301	21690	N	695	47	742
	S.E.	N	5118	1390	5304	N	10246	4503	11192	N	47	47	648
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	7113	874	7988	N	0	0	0	N	49236	3413	52648
	S.E.	N	2294	549	2358	N	0	0	0	N	1517	1517	32582
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	N	1475	0	1475	N	78	0	78	N	0	0	0
	S.E.	N	1418	0	1418	N	48	0	48	N	0	0	0
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	21	0	21	N	0	0	0
	S.E.	N	0	0	0	N	21	0	21	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	300724	13345	314069	N	80051	24919	104969	N	285646	13925	299571
	S.E.	N	95215	4038	95301	N	16320	13628	21262	N	5962	5962	94740
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-14 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH EGGS							
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	13275	255	13530	N	0	0	0
	S.E.	N	10502	255	10505	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	94754	706	95460	N	401203	5556	406760
	S.E.	N	94754	706	94757	N	20557	2562	20716
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	184842	8822	193664	N	29671	215	29886
	S.E.	N	175300	8625	175513	N	14761	112	14762
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	33045	0	33045	N	55210	3343	58553
	S.E.	N	7775	0	7775	N	48318	2833	48401
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	20082	364	20446	N	128750	38155	166905
	S.E.	N	11117	210	11119	N	20918	4721	21444
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	29160	2522	31682	N	161907	6407	168314
	S.E.	N	8686	1419	8801	N	74361	4848	74519
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	4068	0	4068	N	253822	10394	264216
	S.E.	N	1381	0	1381	N	100579	5212	100714
	NO. TOWS	N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	188	0	188	N	17765	1125	18890
	S.E.	N	188	0	188	N	2447	1125	2693
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	ST. CROP	N	0	0	0	N	408	0	408
	S.E.	N	0	0	0	N	299	0	299
	NO. TOWS	N	4	2	6	N	3	3	6
04JUL83	ST. CROP	N	134	0	134	N	485	178	663
	S.E.	N	84	0	84	N	243	90	259
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	379548	12670	392218	N	1049222	65373	1114594
	S.E.	N	200201	8776	200393	N	138075	9425	138396
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-14 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH EGGS							
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	24510	N	24510	618	53551	3840	58009
	S.E.	N	4549	N	4549	589	12973	1435	13065
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	1208	N	1208	1170	681952	8774	691896
	S.E.	N	739	N	739	1137	117734	2713	117771
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	301864	N	301864	316	716657	15449	732422
	S.E.	N	29637	N	29637	125	187277	8974	187492
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	27476	N	27476	2163	228793	19165	250121
	S.E.	N	12897	N	12897	1532	73463	7024	73814
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	110949	N	110949	169	401133	97195	498496
	S.E.	N	14225	N	14225	69	89569	23567	92618
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	12668	N	12668	66156	263188	22371	351716
	S.E.	N	2518	N	2518	59946	78056	7063	98672
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	124278	N	124278	12929	492012	20319	525261
	S.E.	N	99241	N	99241	12215	147406	5658	148019
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	23674	N	23674	730	43641	2269	46640
	S.E.	N	22259	N	22259	643	22439	1229	22482
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	458	0	458
	S.E.	N	0	N	0	0	301	0	301
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	619	178	797
	S.E.	N	0	N	0	0	257	90	272
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	626627	N	626627	84251	2882005	189559	3155815
	S.E.	N	107791	N	107791	61214	301408	27894	308823
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-15
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE PERCH YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	452	452	0	0	0	0
	S.E.	0	N	0	0	0	0	452	452	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	726	N	616	1342	3481	0	447	3928	12052	36	1168	13256
	S.E.	366	N	616	717	1744	0	447	1800	1986	36	756	2125
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	365	N	2333	2697	2799	185	4770	7753	4603	610	6966	12180
	S.E.	320	N	2333	2355	1323	185	3316	3575	1297	415	1292	1877
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	14081	2505	2113	18700	1413	2330	1936	5679
	S.E.	0	N	0	0	8658	1245	769	8781	461	807	589	1100
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	3826	200	710	4736	3317	849	2008	6174
	S.E.	0	N	0	0	2365	200	710	2477	675	328	992	1244
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	860	860	2204	1422	1012	4639	5630	3189	234	9052
	S.E.	0	N	860	860	933	255	878	1306	3067	1574	142	3451
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	27921	4403	5808	38132	1735	504	886	3125
	S.E.	0	N	0	0	14854	2542	3732	15525	703	161	463	857
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	82	82	0	138	215	353	47	231	155	434
	S.E.	0	N	82	82	0	138	145	200	47	166	75	188
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	1091	N	3891	4982	54313	8852	15527	78691	28796	7749	13354	49899
	S.E.	486	N	2563	2608	17517	2858	5217	18499	4025	1861	1952	4845
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-15 (CONTINUED).

WHITE PERCH YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	123	47	170	N	100	1468	1568	187	883	1355	2426
	S.E.	0	80	32	86	N	100	615	623	128	349	585	693
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	980	530	2732	4241	N	4624	42893	47518	921	21092	840	22852
	S.E.	482	347	619	858	N	1528	5055	5281	521	6100	337	6132
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	2367	2913	42107	47386	N	8616	92297	100913	6329	47094	40627	94051
	S.E.	1020	1781	7684	7954	N	2403	10410	10683	1758	23877	28372	37124
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	945	975	7902	9822	N	478	15693	16171	4643	23753	14305	42701
	S.E.	235	535	2522	2589	N	202	3505	3511	3775	8556	7397	11924
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	242	2220	17456	19918	N	1773	12619	14392	750	3493	1261	5504
	S.E.	74	1513	2814	3196	N	1632	2129	2683	350	1073	609	1283
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	708	1363	6660	8730	N	770	5914	6684	333	776	648	1757
	S.E.	219	609	1442	1580	N	334	1347	1387	184	451	345	597
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	443	235	3738	4416	N	0	2447	2447	199	353	127	679
	S.E.	123	206	848	881	N	0	557	557	173	120	62	219
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	24	166	352	542	N	66	555	622	52	196	17	265
	S.E.	24	88	121	152	N	43	126	133	52	83	17	100
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	41	19	0	60	N	22	89	111	0	9	21	30
	S.E.	41	19	0	45	N	14	42	44	0	9	21	23
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	5750	8542	80993	95286	N	16450	173975	190425	13415	97649	59201	170264
	S.E.	1183	2509	8748	9177	N	3307	12380	12814	4222	26116	29337	39503
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-15 (CONTINUED).

WHITE PERCH YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	1097	361	1458	N	1444	2382	3825	N	328	342	670
	S.E.	N	329	361	488	N	356	895	963	N	140	140	204
	NO. TOWS	N	9	10	19	N	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	60747	53140	113887	N	13867	8818	22684	N	15743	5924	21668
	S.E.	N	19634	20752	28569	N	5512	1900	5830	N	2004	2004	3691
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	55216	58056	113272	N	17615	14724	32339	N	5635	10265	15900
	S.E.	N	17879	27951	33180	N	5103	4909	7081	N	4153	4153	4683
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	33935	28892	62826	N	23280	20725	44005	N	77169	18993	96162
	S.E.	N	9105	6531	11205	N	10750	6556	12592	N	10316	10316	49082
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	8389	2474	10863	N	4008	3959	7967	N	14762	2701	17463
	S.E.	N	1972	663	2081	N	1876	1156	2204	N	1286	1286	5401
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	2782	2997	5779	N	3363	2526	5889	N	8445	1161	9606
	S.E.	N	527	742	911	N	1419	987	1728	N	339	339	5279
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	2034	935	2969	N	226	2474	2700	N	3148	5497	8645
	S.E.	N	943	470	1054	N	106	1300	1304	N	2464	2464	2705
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	N	227	109	337	N	355	316	671	N	174	445	619
	S.E.	N	110	109	155	N	193	115	224	N	206	206	222
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	57	0	57	N	0	0	0	N	73	0	73
	S.E.	N	37	0	37	N	0	0	0	N	0	0	73
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	43	41	84
	S.E.	N	0	0	0	N	0	0	0	N	41	41	59
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	164483	146966	311448	N	64158	55924	120081	N	125522	45369	170891
	S.E.	N	28164	35439	45267	N	13330	8689	15912	N	11644	11644	50091
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-15 (CONTINUED).

WHITE PERCH — YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	731	255	986	N	782	171	953
	S.E.	N	207	128	243	N	782	171	801
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	5390	8722	14112	N	1739	1918	3658
	S.E.	N	2281	5343	5810	N	757	351	834
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	53089	17960	71049	N	12253	2045	14298
	S.E.	N	27323	6025	27979	N	4155	363	4171
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	40618	12444	53062	N	43207	9464	52672
	S.E.	N	8811	8597	12310	N	16407	1321	16460
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	5230	852	6083	N	8361	3159	11521
	S.E.	N	2684	532	2736	N	2787	648	2861
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	8844	6749	15592	N	36379	1423	37802
	S.E.	N	6425	5046	8170	N	29891	1017	29908
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	3296	5866	9162	N	28226	15884	44110
	S.E.	N	1212	734	1417	N	10464	7904	13113
	NO. TOWS	N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	443	1538	1982	N	4926	1577	6502
	S.E.	N	354	751	830	N	2436	385	2467
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	ST. CROP	N	0	0	0	N	0	414	414
	S.E.	N	0	0	0	N	0	414	414
	NO. TOWS	N	4	2	6	N	3	3	6
04JUL83	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	117642	54387	172029	N	135874	36055	171929
	S.E.	N	29656	12870	32329	N	36115	8141	37021
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-16
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE PERCH — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	1106	N	5961	7068	7766	445	37398	45609	7248	1555	10300	19103
	S.E.	667	N	5961	5999	4618	187	17777	18368	2059	1215	1939	3078
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	530	530	25755	9290	29759	64804	15513	20275	34233	70020
	S.E.	0	N	272	272	10077	6089	11847	16703	2458	4591	23428	24000
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	1534	N	4431	5965	12567	1315	11288	25170	15553	7021	21986	44560
	S.E.	807	N	3262	3360	9219	665	7170	11698	3642	3769	6228	8140
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	75	N	4984	5059	9993	28206	21235	59433	12793	8188	26100	47082
	S.E.	42	N	2289	2289	4511	10943	7986	14278	4023	2472	19039	19616
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	221	221	35138	68358	76840	180336	25725	24281	57010	107016
	S.E.	0	N	156	156	13736	44037	47162	65971	16225	5249	21684	27586
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	160	N	77	238	51885	27180	25013	104079	35914	27571	34747	98232
	S.E.	0	N	77	77	19473	11368	14751	26945	9370	8890	8785	15621
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	3334	466	3816	7615	6650	5625	4265	16541
	S.E.	0	N	0	0	3334	351	1774	3792	599	2745	1030	2992
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	70	70	137	0	0	137	0	60	805	865
	S.E.	0	N	70	70	137	0	0	137	0	60	428	432
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	2876	N	16275	19151	146574	135260	205350	487183	119397	94576	189446	403419
	S.E.	1047	N	7178	7254	28412	47179	54923	77780	19777	12530	38762	45284
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-16 (CONTINUED).

WHITE PERCH POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	59	59	0	9	0	9
	S.E.	0	0	0	0	N	0	33	33	0	9	0	9
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	1581	10874	40631	53086	N	4413	58947	63360	8479	5290	5341	19110
	S.E.	378	8849	4568	9966	N	1315	8932	9028	2559	2339	3358	4826
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	5769	9013	67286	82068	N	4757	61348	66106	7084	7503	22104	36691
	S.E.	1696	2323	9064	9509	N	1451	13331	13409	3648	2027	5824	7165
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	1467	6667	76615	84749	N	20242	109615	129857	12318	19143	52678	84138
	S.E.	500	1962	13236	13390	N	5490	22036	22710	4046	7638	23090	24655
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	2990	36815	78978	118783	N	4899	75263	80162	3928	16275	4239	24442
	S.E.	1384	9406	14893	17669	N	1742	21033	21105	2184	11190	2130	11598
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	15774	73169	189351	278294	N	6371	71267	77638	4663	19766	71968	96397
	S.E.	2770	52794	38124	65179	N	3744	10899	11525	3697	4604	25601	26273
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	5602	15991	77069	98663	N	10609	53013	63622	3537	13585	33786	50908
	S.E.	791	3362	7408	8173	N	2098	3490	4072	936	2328	4669	5300
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	2549	10953	57583	71084	N	6981	33148	40129	1167	30674	55391	87232
	S.E.	603	2624	9389	9768	N	936	3755	3870	639	7824	9434	12273
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	545	429	10262	11237	N	23594	52137	75731	1016	10226	15567	26809
	S.E.	148	350	3470	3491	N	6871	5482	8790	336	3538	3257	4821
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	36277	163911	597775	797963	N	81866	514796	596662	42192	122471	261073	425736
	S.E.	3724	54603	45919	71442	N	10175	36886	38264	7487	17132	36874	41343
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-16 (CONTINUED).

WHITE PERCH POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	8044	23082	31125	N	445	510	955	N	156	271	427
	S.E.	N	5425	11051	12311	N	141	147	203	N	46	46	93
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	18281	31427	49709	N	1246	8495	9740	N	2779	2101	4879
	S.E.	N	5819	5665	8121	N	662	3091	3161	N	748	748	1839
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	49106	72615	121721	N	4231	15875	20106	N	27347	20356	47703
	S.E.	N	18500	27956	33522	N	1559	3741	4053	N	7182	7182	9642
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	23576	59415	82992	N	12258	11190	23449	N	1970	4185	6156
	S.E.	N	5852	21596	22375	N	5313	3910	6596	N	2525	2525	2626
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	39685	96372	136058	N	14870	102069	116939	N	52999	89307	142306
	S.E.	N	19291	41353	45631	N	4965	38337	38657	N	31148	31148	33053
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	N	47089	119996	167085	N	33812	153870	187682	N	114349	174492	288841
	S.E.	N	16495	34163	37937	N	12642	15132	19718	N	67691	67691	75349
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	41460	100240	141700	N	54101	68528	122628	N	50940	80673	131613
	S.E.	N	8355	15101	17259	N	12622	26621	29462	N	22186	22186	29379
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	13324	70903	84226	N	14361	60359	74720	N	62865	30412	93277
	S.E.	N	4315	14532	15159	N	1263	12790	12852	N	17526	17526	18578
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	240566	574050	814616	N	135323	420897	556220	N	313405	401797	715202
	S.E.	N	34241	68692	76753	N	19404	51086	54647	N	80063	80063	89897
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-16 (CONTINUED).

WHITE PERCH — POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	234	500	734	N	233	94	327
	S.E.	N	143	96	172	N	132	94	162
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	367	3034	3401	N	404	676	1080
	S.E.	N	127	2061	2065	N	91	354	365
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	857	4619	5476	N	417	770	1187
	S.E.	N	539	3570	3611	N	78	562	568
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	483	483	N	0	283	283
	S.E.	N	0	260	260	N	0	283	283
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	70020	33328	103348	N	41648	20084	61732
	S.E.	N	29447	5729	29999	N	25344	12652	28327
	NO. TOWS	N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	134636	237780	372416	N	141748	310748	452496
	S.E.	N	19938	63770	66814	N	14783	99921	101008
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	ST. CROP	N	111912	17316	129228	N	324518	58915	383434
	S.E.	N	37423	16977	41093	N	66687	12612	67869
	NO. TOWS	N	4	2	6	N	3	3	6
04JUL83	ST. CROP	N	32326	34541	66867	N	122590	52424	175015
	S.E.	N	20252	15267	25361	N	65575	35813	74717
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	350351	331601	681952	N	631559	443994	1075553
	S.E.	N	55458	68101	87826	N	98021	107640	145583
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-16 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				POST YOLK-SAC LARVAE			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	9	59	68
	S.E.	N	0	N	0	0	9	33	34
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	26180	31688	183036	240903
	S.E.	N	0	N	0	5718	10794	24278	27178
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	54121	73914	260994	389028
	S.E.	N	0	N	0	11126	10340	32088	35501
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	43440	136345	390846	570632
	S.E.	N	0	N	0	10748	22211	46421	52572
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	29780	132187	286354	448322
	S.E.	N	0	N	0	6574	20139	39855	45136
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	81301	411167	807818	1300285
	S.E.	N	0	N	0	21755	82569	96255	128670
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	6951	N	6951	97098	573523	1220591	1891212
	S.E.	N	3501	N	3501	21645	48837	142873	152533
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	87087	N	87087	13699	724716	479875	1218291
	S.E.	N	38711	N	38711	3499	89571	45516	100533
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	147796	N	147796	1698	427571	327480	756749
	S.E.	N	13927	N	13927	392	70868	47439	85281
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	241833	N	241833	347316	2511120	3957053	6815490
	S.E.	N	41289	N	41289	35629	152873	198399	252986
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-17
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE PERCH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	43	0	0	43
	S.E.	0	N	0	0	0	0	0	0	43	0	0	43
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	137	0	0	137	0	0	0	0
	S.E.	0	N	0	0	137	0	0	137	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	137	0	0	137	43	0	0	43
	S.E.	0	N	0	0	137	0	0	137	43	0	0	43
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-17 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	23	0	107	130	N	11	41	52	0	0	0	0
	S.E.	15	0	62	64	N	11	29	30	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	23	0	107	130	N	11	41	52	0	0	0	0
	S.E.	15	0	62	64	N	11	29	30	0	0	0	0
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-17 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	37	37	N	20	0	20	N	0	0	0
	S.E.	N	0	37	37	N	20	0	20	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	37	37	N	20	0	20	N	0	0	0
	S.E.	N	0	37	37	N	20	0	20	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-17 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-17 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	43	0	0	43
	S.E.	N	0	N	0	43	0	0	43
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	160	30	185	376
	S.E.	N	0	N	0	138	22	78	160
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	203	30	185	419
	S.E.	N	0	N	0	145	22	78	166
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-18
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE PERCH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	8	0	0	8	0	0	0	0
	S.E.	0	N	0	0	8	0	0	8	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	43	0	0	43	0	0	0	0
	S.E.	0	N	0	0	33	0	0	33	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	11	N	0	11	38	0	0	38	8	9	0	18
	S.E.	11	N	0	11	29	0	0	29	8	9	0	13
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	11	N	0	11	88	0	0	88	8	9	0	18
	S.E.	11	N	0	11	45	0	0	45	8	9	0	13
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-18 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	4	0	0	4
	S.E.	0	0	0	0	N	0	0	0	4	0	0	4
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	13	0	13	N	0	0	0	4	16	0	20
	S.E.	0	13	0	13	N	0	0	0	4	16	0	17
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	10	0	0	10
	S.E.	0	0	0	0	N	0	0	0	7	0	0	7
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	0	0	0	0	N	15	0	15	12	0	0	12
	S.E.	0	0	0	0	N	15	0	15	9	0	0	9
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
170CT83	ST. CROP	5	0	0	5	N	0	0	0	31	52	0	83
	S.E.	5	0	0	5	N	0	0	0	26	21	0	34
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	5	13	0	18	N	15	0	15	62	68	0	130
	S.E.	5	13	0	14	N	15	0	15	29	27	0	39
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-18 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	66	0	66	N	104	0	104
	S.E.	N	0	0	0	N	38	0	38	N	0	0	42
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	403	0	403	N	15	0	15	N	13	0	13
	S.E.	N	267	0	267	N	15	0	15	N	0	0	13
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	292	0	292	N	0	0	0	N	137	0	137
	S.E.	N	201	0	201	N	0	0	0	N	0	0	111
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	410	0	410	N	195	0	195	N	320	0	320
	S.E.	N	221	0	221	N	123	0	123	N	0	0	103
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	179	0	179	N	272	83	355	N	250	0	250
	S.E.	N	115	0	115	N	187	83	205	N	0	0	116
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
170CT83	ST. CROP	N	447	0	447	N	121	66	186	N	129	0	129
	S.E.	N	216	0	216	N	45	66	80	N	0	0	85
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	1731	0	1731	N	669	149	817	N	952	0	952
	S.E.	N	470	0	470	N	232	106	255	N	0	0	213
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-18 (CONTINUED).

WHITE PERCH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	504	0	504	N	313	0	313
	S.E.	N	150	0	150	N	108	0	108
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	ST. CROP	N	13	0	13	N	73	0	73
	S.E.	N	13	0	13	N	34	0	34
	NO. TOWS	N	12	6	18	N	15	6	21
05SEP83	ST. CROP	N	440	0	440	N	54	0	54
	S.E.	N	425	0	425	N	30	0	30
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	ST. CROP	N	231	0	231	N	36	0	36
	S.E.	N	58	0	58	N	26	0	26
	NO. TOWS	N	12	6	18	N	15	6	21
030CT83	ST. CROP	N	235	0	235	N	115	0	115
	S.E.	N	59	0	59	N	63	0	63
	NO. TOWS	N	12	6	18	N	15	6	21
17OCT83	ST. CROP	N	274	0	274	N	244	0	244
	S.E.	N	53	0	53	N	53	0	53
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	1698	0	1698	N	835	0	835
	S.E.	N	461	0	461	N	145	0	145
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-19
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE PERCH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	TP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	ST. CROP	12	295	219	153	58	82	13	44	96	694	197	336	2199
	S.E.	10	88	97	72	36	59	7	20	44	163	80	229	339
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	5	284	150	68	74	78	62	6	138	230	260	163	1517
	S.E.	3	94	43	49	42	44	30	3	48	113	118	163	271
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	0	161	2295	0	43	336	4	29	74	486	230	2	3660
	S.E.	0	42	2265	0	20	249	3	14	41	259	100	2	2296
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	5	322	86	52	13	62	3	2	126	238	590	0	1498
	S.E.	3	135	61	43	7	29	3	1	93	81	254	0	323
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	0	115	344	61	58	46	282	2	34	133	65	6	1146
	S.E.	0	48	185	52	27	22	215	1	17	103	53	6	316
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
100CT83	ST. CROP	0	45	321	66	22	67	1	0	24	45	191	0	783
	S.E.	0	42	280	54	18	38	1	0	21	26	68	0	301
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	21	1223	3415	399	267	671	366	82	493	1826	1533	507	10802
	S.E.	11	202	2292	122	68	265	217	24	123	352	319	281	2399
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-20
COMBINED STANDING CROP (IN THOUSANDS) OF JUVENILES
IN HUDSON RIVER ESTUARY
DETERMINED BY THE BEACH SEINE AND FALL SHOALS SURVEYS.
WHITE PERCH YOUNG-OF-THE-YEAR
AUG 1 - AUG 7

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	112	0 *	0 *	0 *	112
	SE	95	0 *	0 *	0 *	95
TAPPAN ZEE	ST. CROP	2734	109 *	0 *	0 *	2843
	SE	813	109 *	0 *	0 *	820
CROTON-HAVERSTRAW	ST. CROP	2027	0 *	0 *	0 *	2027
	SE	896	0 *	0 *	0 *	896
INDIAN POINT	ST. CROP	1416	17 *	0 *	107 *	1541
	SE	662	12 *	0 *	62 *	665
WEST POINT	ST. CROP	537	1 *	10 *	41 *	589
	SE	336	1 *	10 *	29 *	337
CORNWALL	ST. CROP	756	0 *	0 *	0 *	756
	SE	545	0 *	0 *	0 *	545
POUGHKEEPSIE	ST. CROP	118	0 *	0 *	37 *	155
	SE	64	0 *	0 *	37 *	74
HYDE PARK	ST. CROP	404	4 *	80 *	0 *	488
	SE	181	3 *	54 *	0 *	189
KINGSTON	ST. CROP	893	20 *	77 *	0 *	990
	SE	406	8 *	31 *	0 *	407
SAUGERTIES	ST. CROP	6429	122 *	342 *	0 *	6893
	SE	1505	36 *	102 *	0 *	1509
CATSKILL	ST. CROP	1822	105 *	172 *	0 *	2100
	SE	739	36 *	59 *	0 *	742
ALBANY	ST. CROP	3109	16 *	11 *	26 *	3162
	SE	2120	11 *	8 *	18 *	2120
STRATUM TOTAL	ST. CROP	20357	394 *	693 *	212 *	21655
	SE	3135	122 *	134 *	80 *	3142

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

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

TABLE B-20 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

AUG 8 - AUG 14

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	112	0	0 *	0	112
	SE	95	0	0 *	0	95
TAPPAN ZEE	ST. CROP	2734	12	0	0	2746
	SE	813	12	0	0	813
CROTON-HAVERSTRAW	ST. CROP	2027	0	0	0	2027
	SE	896	0	0	0	896
INDIAN POINT	ST. CROP	1416	0	0	0	1416
	SE	662	0	0	0	662
WEST POINT	ST. CROP	537	0 *	0	0	537
	SE	336	0 *	0	0	336
CORNWALL	ST. CROP	756	0	0	0	756
	SE	545	0	0	0	545
POUGHKEEPSIE	ST. CROP	118	0 *	0	0	118
	SE	64	0 *	0	0	64
HYDE PARK	ST. CROP	404	7 *	123	0	534
	SE	181	4 *	71	0	195
KINGSTON	ST. CROP	893	40 *	155	0	1087
	SE	406	16 *	62	0	411
SAUGERTIES	ST. CROP	6429	243 *	684	0	7357
	SE	1505	73 *	204	0	1521
CATSKILL	ST. CROP	1822	211 *	345	0	2377
	SE	739	73 *	119	0	752
ALBANY	ST. CROP	3109	32 *	22	53 *	3215
	SE	2120	22 *	15	37 *	2121
STRATUM TOTAL	ST. CROP	20357	544 *	1329	53 *	22283
	SE	3135	107 *	255	37 *	3148

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-20 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

AUG 15 - AUG 21

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	42	0 *	0 *	0 *	42
	SE	28	0 *	0 *	0 *	28
TAPPAN ZEE	ST. CROP	2629	6 *	0 *	0 *	2635
	SE	870	6 *	0 *	0 *	870
CROTON-HAVERSTRAW	ST. CROP	1387	0 *	0 *	0 *	1387
	SE	400	0 *	0 *	0 *	400
INDIAN POINT	ST. CROP	631	0 *	0 *	0 *	631
	SE	453	0 *	0 *	0 *	453
WEST POINT	ST. CROP	683	0 *	0 *	0 *	683
	SE	390	0 *	0 *	0 *	390
CORNWALL	ST. CROP	723	3 *	0 *	0 *	726
	SE	407	3 *	0 *	0 *	407
POUGHKEEPSIE	ST. CROP	578	26 *	368 *	0 *	972
	SE	280	17 *	244 *	0 *	371
HYDE PARK	ST. CROP	53	4 *	75 *	0 *	132
	SE	26	3 *	50 *	0 *	56
KINGSTON	ST. CROP	1275	23 *	87 *	0 *	1385
	SE	441	11 *	41 *	0 *	443
SAUGERTIES	ST. CROP	2131	125 *	351 *	0 *	2607
	SE	1048	39 *	111 *	0 *	1054
CATSKILL	ST. CROP	2405	130 *	212 *	0 *	2747
	SE	1093	48 *	78 *	0 *	1097
ALBANY	ST. CROP	1509	23 *	16 *	38 *	1587
	SE	1509	18 *	13 *	30 *	1510
STRATUM TOTAL	ST. CROP	14047	340 *	1110 *	38 *	15534
	SE	2507	68 *	287 *	30 *	2525

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-20 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

AUG 22 - AUG 28

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	42	0	0 *	0	42
	SE	28	0	0 *	0	28
TAPPAN ZEE	ST. CROP	2629	0	0	0	2629
	SE	870	0	0	0	870
CROTON-HAVERSTRAW	ST. CROP	1387	0	0	0	1387
	SE	400	0	0	0	400
INDIAN POINT	ST. CROP	631	0	0	0	631
	SE	453	0	0	0	453
WEST POINT	ST. CROP	683	0 *	0	0	683
	SE	390	0 *	0	0	390
CORNWALL	ST. CROP	723	6	0	0	730
	SE	407	6	0	0	407
POUGHKEEPSIE	ST. CROP	578	52 *	736	0	1366
	SE	280	35 *	488	0	563
HYDE PARK	ST. CROP	53	2 *	28	0	82
	SE	26	2 *	28	0	38
KINGSTON	ST. CROP	1275	5 *	19	0	1299
	SE	441	5 *	19	0	441
SAUGERTIES	ST. CROP	2131	6 *	18	0	2155
	SE	1048	6 *	18	0	1048
CATSKILL	ST. CROP	2405	49 *	80	0	2534
	SE	1093	23 *	37	0	1094
ALBANY	ST. CROP	1509	14 *	10	23 *	1557
	SE	1509	14 *	10	23 *	1510
STRATUM TOTAL	ST. CROP	14047	135 *	890	23 *	15095
	SE	2507	45 *	491	23 *	2555

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-20 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

AUG 29 - SEP 4

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
TAPPAN ZEE	ST. CROP	1490	32 *	0 *	0 *	1522
	SE	391	25 *	0 *	0 *	391
CROTON-HAVERSTRAW	ST. CROP	21251	0 *	0 *	0 *	21251
	SE	20965	0 *	0 *	0 *	20965
INDIAN POINT	ST. CROP	0	0 *	13 *	0 *	13
	SE	0	0 *	13 *	0 *	13
WEST POINT	ST. CROP	400	0 *	0 *	0 *	400
	SE	189	0 *	0 *	0 *	189
CORNWALL	ST. CROP	3106	6 *	16 *	0 *	3129
	SE	2304	6 *	16 *	0 *	2304
POUGHKEEPSIE	ST. CROP	39	45 *	634 *	0 *	719
	SE	26	30 *	428 *	0 *	429
HYDE PARK	ST. CROP	266	1 *	14 *	0 *	281
	SE	129	1 *	14 *	0 *	130
KINGSTON	ST. CROP	685	29 *	111 *	0 *	825
	SE	379	24 *	92 *	0 *	391
SAUGERTIES	ST. CROP	4497	109 *	308 *	0 *	4914
	SE	2398	106 *	297 *	0 *	2419
CATSKILL	ST. CROP	2131	43 *	70 *	0 *	2244
	SE	922	22 *	35 *	0 *	923
ALBANY	ST. CROP	18	35 *	25 *	58 *	136
	SE	18	27 *	19 *	44 *	58
STRATUM TOTAL	ST. CROP	33884	300 *	1191 *	58 *	35433
	SE	21256	120 *	531 *	44 *	21263

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-20 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

SEP 5 - SEP 11

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	0	0 *	0	0
	SE	0	0	0 *	0	0
TAPPAN ZEE	ST. CROP	1490	64	0	0	1554
	SE	391	50	0	0	394
CROTON-HAVERSTRAW	ST. CROP	21251	0	0	0	21251
	SE	20965	0	0	0	20965
INDIAN POINT	ST. CROP	0	0	26	0	26
	SE	0	0	26	0	26
WEST POINT	ST. CROP	400	0 *	0	0	400
	SE	189	0 *	0	0	189
CORNWALL	ST. CROP	3106	6	33	0	3145
	SE	2304	6	33	0	2304
POUGHKEEPSIE	ST. CROP	39	38 *	533	0	611
	SE	26	26 *	368	0	369
HYDE PARK	ST. CROP	266	0 *	0	0	266
	SE	129	0 *	0	0	129
KINGSTON	ST. CROP	685	53 *	203	0	941
	SE	379	43 *	165	0	416
SAUGERTIES	ST. CROP	4497	213 *	597	0	5307
	SE	2398	205 *	576	0	2475
CATSKILL	ST. CROP	2131	36 *	60	0	2227
	SE	922	20 *	33	0	923
ALBANY	ST. CROP	18	56 *	39	93 *	206
	SE	18	39 *	28	65 *	83
STRATUM TOTAL	ST. CROP	33884	465 *	1491	93 *	35934
	SE	21256	221 *	705	65 *	21269

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-20 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

SEP 12 - SEP 18

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	42	0 *	0 *	0 *	42
	SE	28	0 *	0 *	0 *	28
TAPPAN ZEE	ST. CROP	2980	32 *	0 *	0 *	3012
	SE	1254.	25 *	0 *	0 *	1255
CROTON-HAVERSTRAW	ST. CROP	800	0 *	0 *	0 *	800
	SE	562	0 *	0 *	0 *	562
INDIAN POINT	ST. CROP	478	0 *	13 *	0 *	491
	SE	395	0 *	13 *	0 *	395
WEST POINT	ST. CROP	117	0 *	0 *	0 *	117
	SE	67	0 *	0 *	0 *	67
CORNWALL	ST. CROP	575	10 *	16 *	0 *	602
	SE	269	8 *	16 *	0 *	269
POUGHKEEPSIE	ST. CROP	26	46 *	641 *	0 *	713
	SE	26	27 *	386 *	0 *	387
HYDE PARK	ST. CROP	16	10 *	182 *	0 *	208
	SE	8	6 *	114 *	0 *	115
KINGSTON	ST. CROP	1164	88 *	339 *	0 *	1591
	SE	858	41 *	159 *	0 *	874
SAUGERTIES	ST. CROP	2203	162 *	455 *	0 *	2820
	SE	745	117 *	328 *	0 *	823
CATSKILL	ST. CROP	5465	30 *	50 *	0 *	5545
	SE	2348	19 *	31 *	0 *	2348
ALBANY	ST. CROP	0	28 *	20 *	47 *	94
	SE	0	20 *	14 *	33 *	41
STRATUM TOTAL	ST. CROP	13866	406 *	1716 *	47 *	16035
	SE	2988	132 *	544 *	33 *	3040

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-20 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

SEP 19 - SEP 25

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	42	0	0 *	0	42
	SE	28	0	0 *	0	28
TAPPAN ZEE	ST. CROP	2980	0	0	0	2980
	SE	1254	0	0	0	1254
CROTON-HAVERSTRAW	ST. CROP	800	0	0	0	800
	SE	562	0	0	0	562
INDIAN POINT	ST. CROP	478	0	0	0	478
	SE	395	0	0	0	395
WEST POINT	ST. CROP	117	0 *	0	0	117
	SE	67	0 *	0	0	67
CORNWALL	ST. CROP	575	15	0	0	590
	SE	269	10	0	0	269
POUGHKEEPSIE	ST. CROP	26	53 *	749	0	829
	SE	26	29 *	403	0	405
HYDE PARK	ST. CROP	16	20 *	364	0	400
	SE	8	12 *	229	0	229
KINGSTON	ST. CROP	1164	123 *	475	0	1762
	SE	858	40 *	153	0	873
SAUGERTIES	ST. CROP	2203	111 *	313	0	2627
	SE	745	28 *	79	0	750
CATSKILL	ST. CROP	5465	24 *	40	0	5529
	SE	2348	17 *	29	0	2348
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	13866	347 *	1941	0 *	16154
	SE	2988	61 *	496	0 *	3029

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-20 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

SEP 26 - OCT 2

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	8 *	25 *	0 *	34
	SE	0	8 *	25 *	0 *	27
TAPPAN ZEE	ST. CROP	1069	28 *	0 *	0 *	1097
	SE	440	22 *	0 *	0 *	441
CROTON-HAVERSTRAW	ST. CROP	3183	6 *	9 *	0 *	3199
	SE	1715	6 *	9 *	0 *	1715
INDIAN POINT	ST. CROP	563	0 *	0 *	0 *	563
	SE	480	0 *	0 *	0 *	480
WEST POINT	ST. CROP	537	1 *	13 *	0 *	551
	SE	245	1 *	13 *	0 *	246
CORNWALL	ST. CROP	423	17 *	0 *	0 *	439
	SE	199	12 *	0 *	0 *	200
POUGHKEEPSIE	ST. CROP	2615	38 *	538 *	0 *	3191
	SE	1987	22 *	307 *	0 *	2011
HYDE PARK	ST. CROP	18	23 *	436 *	83 *	561
	SE	8	16 *	289 *	83 *	301
KINGSTON	ST. CROP	319	110 *	423 *	0 *	852
	SE	161	42 *	163 *	0 *	233
SAUGERTIES	ST. CROP	1228	112 *	316 *	0 *	1656
	SE	952	28 *	80 *	0 *	956
CATSKILL	ST. CROP	601	51 *	83 *	0 *	735
	SE	488	30 *	49 *	0 *	491
ALBANY	ST. CROP	54	27 *	19 *	46 *	146
	SE	54	21 *	15 *	35 *	69
STRATUM TOTAL	ST. CROP	10610	423 *	1863 *	129 *	13025
	SE	2931	73 *	463 *	90 *	2969

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-20 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

OCT 3 - OCT 9

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	17	50 *	0	67
	SE	0	17	50 *	0	53
TAPPAN ZEE	ST. CROP	1069	56	0	0	1126
	SE	440	44	0	0	442
CROTON-HAVERSTRAW	ST. CROP	3183	12	19	0	3215
	SE	1715	12	19	0	1715
INDIAN POINT	ST. CROP	563	0	0	0	563
	SE	480	0	0	0	480
WEST POINT	ST. CROP	537	2 *	27	0	566
	SE	245	2 *	27	0	247
CORNWALL	ST. CROP	423	18	0	0	441
	SE	199	13	0	0	200
POUGHKEEPSIE	ST. CROP	2615	23 *	327	0	2965
	SE	1987	15 *	210	0	1999
HYDE PARK	ST. CROP	18	27 *	507	166	719
	SE	8	19 *	350	166	388
KINGSTON	ST. CROP	319	96 *	371	0	786
	SE	161	45 *	173	0	241
SAUGERTIES	ST. CROP	1228	113 *	319	0	1660
	SE	952	29 *	80	0	956
CATSKILL	ST. CROP	601	78 *	127	0	806
	SE	488	42 *	69	0	495
ALBANY	ST. CROP	54	55 *	38	91 *	238
	SE	54	42 *	30	70 *	102
STRATUM TOTAL	ST. CROP	10610	499 *	1785	258 *	13151
	SE	2931	97 *	460	181 *	2974

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-20 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

OCT 10 - OCT 16

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	8 *	25 *	0 *	34
	SE	0	8 *	25 *	0 *	27
TAPPAN ZEE	ST. CROP	421	28 *	0 *	0 *	449
	SE	386	22 *	0 *	0 *	386
CROTON-HAVERSTRAW	ST. CROP	2970	6 *	9 *	0 *	2985
	SE	2589	6 *	9 *	0 *	2590
INDIAN POINT	ST. CROP	609	4 *	0 *	0 *	614
	SE	500	4 *	0 *	0 *	500
WEST POINT	ST. CROP	200	1 *	13 *	0 *	214
	SE	164	1 *	13 *	0 *	165
CORNWALL	ST. CROP	625	32 *	52 *	0 *	709
	SE	352	26 *	21 *	0 *	353
POUGHKEEPSIE	ST. CROP	13	41 *	572 *	0 *	626
	SE	13	22 *	302 *	0 *	303
HYDE PARK	ST. CROP	3	20 *	366 *	149 *	538
	SE	3	12 *	217 *	149 *	263
KINGSTON	ST. CROP	226	73 *	281 *	0 *	580
	SE	195	39 *	149 *	0 *	248
SAUGERTIES	ST. CROP	415	123 *	345 *	0 *	884
	SE	238	27 *	76 *	0 *	251
CATSKILL	ST. CROP	1767	121 *	198 *	0 *	2086
	SE	628	39 *	64 *	0 *	632
ALBANY	ST. CROP	0	142 *	100 *	236 *	477
	SE	0	70 *	50 *	117 *	146
STRATUM TOTAL	ST. CROP	7249	600 *	1963 *	385 *	10196
	SE	2783	103 *	418 *	190 *	2822

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-20 (CONTINUED).

WHITE PERCH YOUNG-OF-THE-YEAR

OCT 17 - OCT 23

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	0	0 *	0	0
	SE	0	0	0 *	0	0
TAPPAN ZEE	ST. CROP	421	0	0	0	421
	SE	386	0	0	0	386
CROTON-HAVERSTRAW	ST. CROP	2970	0	0	0	2970
	SE	2589	0	0	0	2589
INDIAN POINT	ST. CROP	609	8	0	0	618
	SE	500	8	0	0	500
WEST POINT	ST. CROP	200	0 *	0	0	200
	SE	164	0 *	0	0	164
CORNWALL	ST. CROP	625	47	104	0	776
	SE	352	39	43	0	356
POUGHKEEPSIE	ST. CROP	13	58 *	816	0	888
	SE	13	28 *	395	0	396
HYDE PARK	ST. CROP	3	12 *	225	131	372
	SE	3	5 *	84	131	156
KINGSTON	ST. CROP	226	50 *	192	0	467
	SE	195	33 *	126	0	234
SAUGERTIES	ST. CROP	415	132 *	372	0	920
	SE	238	25 *	72	0	250
CATSKILL	ST. CROP	1767	165 *	269	0	2201
	SE	628	36 *	58	0	631
ALBANY	ST. CROP	0	228 *	161	381 *	770
	SE	0	99 *	69	165 *	204
STRATUM TOTAL	ST. CROP	7249	701 *	2140	512 *	10601
	SE	2783	123 *	440	211 *	2828

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-21
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE PERCH YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	384	N	247	631	887	106	325	1317	145	45	0	189
	S.E.	384	N	247	457	887	106	325	950	92	45	0	102
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	126	1086	0	1212
	S.E.	0	N	0	0	0	0	0	0	94	742	0	748
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	180	N	0	180	0	0	167	167	270	765	0	1035
	S.E.	180	N	0	180	0	0	167	167	171	765	0	784
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	72	N	0	72	0	204	0	204	0	99	0	99
	S.E.	36	N	0	36	0	118	0	118	0	67	0	67
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	38	N	0	38	0	0	0	0	0	0	0	0
	S.E.	38	N	0	38	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	1911	0	0	1911	0	0	0	0
	S.E.	0	N	0	0	1728	0	0	1728	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	136	0	0	136	0	0	0	0
	S.E.	0	N	0	0	136	0	0	136	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	159	0	0	159	47	17	40	105
	S.E.	0	N	0	0	159	0	0	159	47	17	40	64
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	128	101	868	1096	52	53	31	136
	S.E.	0	N	0	0	128	58	868	879	52	24	31	65
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	46	0	0	46
	S.E.	0	N	0	0	0	0	0	0	46	0	0	46
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	673	N	247	921	3221	410	1359	4989	686	2064	72	2822
	S.E.	427	N	247	494	1958	169	941	2179	232	1069	51	1095
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-21 (CONTINUED).

WHITE PERCH YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	437	65	502	N	1355	18	1372	23	226	0	249
	S.E.	0	215	47	220	N	1117	18	1117	11	66	0	67
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	15	104	119	N	41	52	93	0	145	0	145
	S.E.	0	15	66	68	N	41	29	50	0	47	0	47
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	86	136	163	385	N	456	102	558	0	297	0	297
	S.E.	39	73	82	116	N	128	52	138	0	82	0	82
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	47	0	47	N	143	99	241	0	126	0	126
	S.E.	0	30	0	30	N	48	46	66	0	59	0	59
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	76	0	76	0	40	0	40
	S.E.	0	0	0	0	N	56	0	56	0	40	0	40
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	12	0	12
	S.E.	0	0	0	0	N	0	0	0	0	12	0	12
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	9	0	0	9	N	0	23	23	0	29	0	29
	S.E.	9	0	0	9	N	0	23	23	0	15	0	15
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	10	25	0	34	N	14	26	39	0	56	0	56
	S.E.	10	25	0	26	N	14	26	29	0	29	0	29
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	9	0	30	39	N	0	27	27	0	20	0	20
	S.E.	9	0	30	31	N	0	27	27	0	13	0	13
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	16	19	53	88	N	23	33	56	0	0	0	0
	S.E.	10	19	36	42	N	15	33	36	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	129	679	415	1223	N	2108	377	2485	23	950	0	974
	S.E.	43	232	124	266	N	1128	94	1132	11	141	0	141
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-21 (CONTINUED).

WHITE PERCH YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	18	0	18	N	0	0	0	N	0	0	0
	S.E.	N	18	0	18	N	0	0	0	N	0	0	0
	NO. TOWS	N	9	10	19	N	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	32	0	32	N	0	0	0
	S.E.	N	0	0	0	N	16	0	16	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	124	0	124	N	25	0	25	N	90	0	90
	S.E.	N	46	0	46	N	17	0	17	N	0	0	90
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	12	0	12	N	40	0	40	N	0	0	0
	S.E.	N	12	0	12	N	28	0	28	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	39	0	39	N	0	0	0	N	0	0	0
	S.E.	N	27	0	27	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	143	0	143	N	30	0	30	N	0	0	0
	S.E.	N	65	0	65	N	19	0	19	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	60	0	60	N	0	0	0	N	0	0	0
	S.E.	N	60	0	60	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	143	0	143
	S.E.	N	0	0	0	N	0	0	0	N	0	0	110
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	143	0	143	N	85	49	134	N	0	0	0
	S.E.	N	78	0	78	N	63	49	80	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	85	85	N	16	83	99	N	0	0	0
	S.E.	N	0	85	85	N	16	55	57	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	539	85	624	N	228	131	360	N	234	0	234
	S.E.	N	131	85	156	N	77	73	106	N	0	0	142
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-21 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH YEARLING							
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	60	0	60	N	0	0	0
	S.E.	N	60	0	60	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	35	0	35	N	0	0	0
	S.E.	N	35	0	35	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	104	0	104	N	0	0	0
	S.E.	N	60	0	60	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	250	0	250	N	0	0	0
	S.E.	N	65	0	65	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	ST. CROP	N	241	0	241	N	0	0	0
	S.E.	N	185	0	185	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
04JUL83	ST. CROP	N	0	0	0	N	79	0	79
	S.E.	N	0	0	0	N	79	0	79
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	690	0	690	N	79	0	79
	S.E.	N	217	0	217	N	79	0	79
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-21 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YEARLING			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	50	N	50	1438	2235	654	4328
	S.E.	N	50	N	50	970	1147	411	1557
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	126	1319	156	1601
	S.E.	N	0	N	0	94	745	72	754
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	536	1954	431	2921
	S.E.	N	0	N	0	252	792	193	853
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	72	670	99	840
	S.E.	N	0	N	0	36	161	46	171
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	38	155	0	192
	S.E.	N	0	N	0	38	75	0	84
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	1911	220	0	2132
	S.E.	N	0	N	0	1728	77	0	1730
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	145	193	23	360
	S.E.	N	0	N	0	136	86	23	163
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	216	505	66	787
	S.E.	N	0	N	0	166	135	48	219
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	189	643	1004	1836
	S.E.	N	0	N	0	139	220	871	909
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	62	138	253	453
	S.E.	N	0	N	0	47	85	112	148
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	50	N	50	4732	8032	2686	15450
	S.E.	N	50	N	50	2018	1617	993	2770
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-22
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE PERCH — YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	344	0	54	399	0	0	0	0
	S.E.	0	N	0	0	314	0	54	319	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	34	N	0	34	37	0	0	37	9	0	0	9
	S.E.	34	N	0	34	37	0	0	37	9	0	0	9
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	65	0	0	65	0	0	0	0
	S.E.	0	N	0	0	39	0	0	39	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	31	0	31
	S.E.	0	N	0	0	0	0	0	0	0	22	0	22
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	77	N	0	77	76	395	0	471	93	0	0	93
	S.E.	77	N	0	77	54	367	0	371	47	0	0	47
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	0	N	0	0	31	0	0	31	9	0	0	9
	S.E.	0	N	0	0	17	0	0	17	9	0	0	9
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	111	N	0	111	554	395	54	1003	110	31	0	141
	S.E.	84	N	0	84	324	367	54	492	48	22	0	53
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-22 (CONTINUED).

WHITE PERCH YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	28	45	0	73	N	0	0	0	0	0	0	0
	S.E.	28	45	0	53	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	42	0	42	17	52	0	69
	S.E.	0	0	0	0	N	42	0	42	17	52	0	54
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	29	0	29	N	0	0	0	4	33	0	37
	S.E.	0	29	0	29	N	0	0	0	4	20	0	21
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	45	83	0	128
	S.E.	0	0	0	0	N	0	0	0	28	83	0	88
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	31	173	0	203	N	117	0	117	95	69	0	163
	S.E.	31	137	0	140	N	117	0	117	36	43	0	56
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	19	0	0	19	N	51	0	51	81	405	0	486
	S.E.	19	0	0	19	N	21	0	21	28	231	0	233
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	77	247	0	324	N	210	0	210	241	641	0	883
	S.E.	46	147	0	154	N	126	0	126	57	256	0	262
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-22 (CONTINUED).

WHITE PERCH YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	129	0	129	N	278	160	438
	S.E.	N	0	0	0	N	35	0	35	N	160	160	193
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	67	0	67	N	252	0	252	N	279	0	279
	S.E.	N	67	0	67	N	118	0	118	N	0	0	179
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	21	0	21	N	13	0	13
	S.E.	N	0	0	0	N	21	0	21	N	0	0	13
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	395	0	395	N	506	0	506	N	883	73	955
	S.E.	N	163	0	163	N	152	0	152	N	73	73	279
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	408	168	577	N	220	573	794	N	684	0	684
	S.E.	N	162	168	233	N	90	480	488	N	0	0	242
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	262	0	262	N	237	0	237	N	350	72	423
	S.E.	N	66	0	66	N	108	0	108	N	72	72	148
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	1133	168	1301	N	1365	573	1939	N	2487	305	2792
	S.E.	N	248	168	300	N	242	480	537	N	190	190	478
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-22 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH YEARLING							
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	290	0	290	N	141	0	141
	S.E.	N	81	0	81	N	55	0	55
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	ST. CROP	N	184	0	184	N	68	0	68
	S.E.	N	184	0	184	N	68	0	68
	NO. TOWS	N	12	6	18	N	15	6	21
05SEP83	ST. CROP	N	57	83	140	N	105	0	105
	S.E.	N	57	83	100	N	81	0	81
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	ST. CROP	N	449	0	449	N	36	0	36
	S.E.	N	81	0	81	N	19	0	19
	NO. TOWS	N	12	6	18	N	15	6	21
030CT83	ST. CROP	N	661	122	782	N	1116	35	1150
	S.E.	N	90	122	151	N	393	35	394
	NO. TOWS	N	12	6	18	N	15	6	21
170CT83	ST. CROP	N	465	138	603	N	105	0	105
	S.E.	N	96	138	168	N	47	0	47
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	2107	342	2449	N	1572	35	1606
	S.E.	N	260	201	329	N	413	35	415
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-22 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE PERCH				YEARLING			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	395	N	395	372	1278	215	1865
	S.E.	N	351	N	351	315	384	169	525
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	ST. CROP	N	88	N	88	97	1033	0	1130
	S.E.	N	88	N	88	54	318	0	323
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	109	N	109	69	367	83	518
	S.E.	N	109	N	109	39	153	83	178
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	ST. CROP	N	23	N	23	45	2407	73	2524
	S.E.	N	23	N	23	28	370	73	378
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	ST. CROP	N	262	N	262	372	4105	898	5375
	S.E.	N	177	N	177	115	675	524	862
	NO. TOWS	N	8	N	8	65	85	50	200
170CT83	ST. CROP	N	152	N	152	140	2027	210	2377
	S.E.	N	87	N	87	39	325	155	362
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	1030	N	1030	1094	11217	1477	13788
	S.E.	N	427	N	427	346	985	583	1196
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-23
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE PERCH YEARLING

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AI	COMBINED
01AUG83	ST. CROP	5	547	534	79	12	126	16	1	24	269	87	136	1835
	S.E.	5	209	349	43	6	113	11	1	20	91	55	121	455
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	5	346	494	57	22	87	13	0	7	39	87	2	1158
	S.E.	3	165	131	23	6	36	13	0	7	25	49	2	223
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	0	114	2240	35	6	23	3	1	7	57	14	0	2499
	S.E.	0	42	1878	25	4	11	3	1	3	29	14	0	1879
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	0	170	136	33	6	44	0	0	26	94	51	0	561
	S.E.	0	69	128	21	4	21	0	0	13	43	28	0	158
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	0	15	58	42	4	32	6	1	7	23	2	0	190
	S.E.	0	9	37	31	3	15	6	1	5	15	2	0	53
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	ST. CROP	0	6	88	9	4	36	0	0	4	31	14	2	194
	S.E.	0	4	82	8	1	23	0	0	4	20	14	2	89
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	9	1198	3550	256	53	348	37	4	75	513	254	140	6437
	S.E.	5	278	1921	67	10	124	18	2	26	110	81	121	1955
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-24
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE PERCH — OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	91	N	0	91	0	481	0	481	1306	1133	0	2439
	S.E.	45	N	0	45	0	278	0	278	686	644	0	941
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	235	N	0	235	0	0	0	0	30	1351	0	1382
	S.E.	235	N	0	235	0	0	0	0	30	787	0	787
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	68	0	68	409	0	0	409
	S.E.	0	N	0	0	0	68	0	68	338	0	0	338
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	224	N	0	224	0	62	0	62	0	28	0	28
	S.E.	224	N	0	224	0	62	0	62	0	28	0	28
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	75	0	0	75
	S.E.	0	N	0	0	0	0	0	0	46	0	0	46
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	357	164	0	522	0	24	0	24
	S.E.	0	N	0	0	357	56	0	362	0	24	0	24
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	77	N	0	77	286	266	70	623	291	75	0	366
	S.E.	0	N	0	0	286	130	70	322	188	47	0	194
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	1242	264	70	1576	381	590	0	970
	S.E.	0	N	0	0	673	173	70	699	178	180	0	253
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	926	332	72	1330	138	490	0	628
	S.E.	0	N	0	0	483	206	72	530	47	205	0	210
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	93	N	0	93	1674	368	0	2042	0	360	0	360
	S.E.	0	N	0	0	200	368	0	419	0	116	0	116
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	718	N	0	718	4486	2006	212	6704	2630	4051	0	6680
	S.E.	328	N	0	328	967	560	123	1125	811	1061	0	1335
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-24 (CONTINUED).

WHITE PERCH OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	79	400	79	558	N	48	88	137	33	235	0	268
	S.E.	34	208	59	219	N	48	61	78	20	51	0	54
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	10	131	22	163	N	225	131	355	29	477	0	506
	S.E.	10	114	22	117	N	110	58	125	18	100	0	102
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	21	115	0	136	N	774	158	932	60	524	0	584
	S.E.	12	94	0	95	N	307	68	314	26	72	0	77
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	28	43	71	N	238	50	288	15	75	143	234
	S.E.	0	28	43	51	N	168	35	172	15	50	143	153
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	36	33	69	N	422	26	447	0	182	0	182
	S.E.	0	36	33	49	N	192	26	193	0	95	0	95
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	10	39	37	86	N	468	0	468	0	561	0	561
	S.E.	10	39	37	55	N	277	0	277	0	126	0	126
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	112	112	N	16	213	229	0	96	20	116
	S.E.	0	0	64	64	N	16	133	134	0	53	20	56
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	67	143	300	511	N	0	121	121	0	145	0	145
	S.E.	37	88	131	162	N	0	62	62	0	56	0	56
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	46	130	35	210	N	10	69	79	43	39	0	82
	S.E.	29	70	35	83	N	10	38	40	43	39	0	58
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	31	203	32	266	N	0	41	41	8	18	0	26
	S.E.	19	135	32	140	N	0	41	41	8	12	0	14
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	264	1225	693	2182	N	2201	897	3098	188	2353	163	2704
	S.E.	64	316	178	368	N	501	196	538	59	230	145	278
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-24 (CONTINUED).

WHITE PERCH OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	57	0	57	N	45	0	45	N	0	34	34
	S.E.	N	40	0	40	N	19	0	19	N	34	34	34
	NO. TOWS	N	9	10	19	N	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	474	0	474	N	1751	0	1751	N	1621	0	1621
	S.E.	N	122	0	122	N	1034	0	1034	N	0	0	394
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	675	0	675	N	272	33	305	N	88	0	88
	S.E.	N	274	0	274	N	135	33	139	N	0	0	67
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	251	0	251	N	97	0	97	N	0	40	40
	S.E.	N	107	0	107	N	47	0	47	N	40	40	40
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	441	62	503	N	179	0	179	N	0	0	0
	S.E.	N	317	43	320	N	134	0	134	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	771	0	771	N	15	94	109	N	34	0	34
	S.E.	N	305	0	305	N	15	49	52	N	0	0	34
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	103	42	144	N	303	0	303	N	115	0	115
	S.E.	N	103	42	111	N	162	0	162	N	0	0	55
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	N	120	44	164	N	79	55	134	N	375	53	428
	S.E.	N	120	44	128	N	57	55	80	N	53	53	164
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	61	51	112	N	0	39	39	N	71	0	71
	S.E.	N	61	51	79	N	0	39	39	N	0	0	41
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	37	110	146	N	0	40	40	N	30	0	30
	S.E.	N	37	59	70	N	0	40	40	N	0	0	30
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	2988	309	3298	N	2741	261	3002	N	2333	127	2461
	S.E.	N	571	108	582	N	1067	99	1071	N	75	75	443
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-24 (CONTINUED).

WHITE PERCH — OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	214	0	214
	S.E.	N	0	0	0	N	214	0	214
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	1391	0	1391	N	70	0	70
	S.E.	N	801	0	801	N	70	0	70
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	385	0	385	N	0	0	0
	S.E.	N	235	0	235	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	75	0	75	N	0	0	0
	S.E.	N	46	0	46	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	719	0	719	N	0	0	0
	S.E.	N	403	0	403	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	338	0	338	N	141	0	141
	S.E.	N	154	0	154	N	71	0	71
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	352	0	352	N	0	0	0
	S.E.	N	352	0	352	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	181	0	181	N	81	0	81
	S.E.	N	181	0	181	N	81	0	81
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	ST. CROP	N	244	508	752	N	497	144	640
	S.E.	N	244	508	564	N	248	144	287
	NO. TOWS	N	4	2	6	N	3	3	6
04JUL83	ST. CROP	N	0	0	0	N	89	0	89
	S.E.	N	0	0	0	N	89	0	89
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	3687	508	4194	N	1091	144	1234
	S.E.	N	1050	508	1166	N	363	144	390
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-24 (CONTINUED).

WHITE PERCH OLDER

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	1509	2613	201	4323
	S.E.	N	0	N	0	689	767	92	1035
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	305	7490	152	7947
	S.E.	N	0	N	0	238	1594	62	1613
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	490	2901	191	3582
	S.E.	N	0	N	0	339	516	75	622
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	77	N	77	239	932	277	1448
	S.E.	N	77	N	77	224	241	159	365
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	75	1978	121	2174
	S.E.	N	0	N	0	46	573	60	578
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	147	N	147	367	2703	131	3201
	S.E.	N	74	N	74	358	476	62	599
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	77	N	77	654	1403	457	2514
	S.E.	N	77	N	77	342	438	170	582
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	464	N	464	1690	2441	643	4775
	S.E.	N	233	N	233	697	457	184	854
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	1153	1874	918	3944
	S.E.	N	0	N	0	488	466	539	864
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	1805	1105	223	3133
	S.E.	N	0	N	0	201	421	88	475
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	765	N	765	8287	25441	3314	37041
	S.E.	N	268	N	268	1307	2192	642	2631
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-25
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE PERCH — OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	26	N	0	26	1322	469	168	1960	85	192	0	277
	S.E.	26	N	0	26	523	469	168	723	41	119	0	125
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	471	N	87	558	508	197	0	705	0	20	0	20
	S.E.	139	N	87	164	210	115	0	240	0	13	0	13
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	11	N	0	11	262	117	0	380	48	0	0	48
	S.E.	11	N	0	11	105	77	0	130	40	0	0	40
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	36	N	0	36	0	0	0	0	36	0	0	36
	S.E.	25	N	0	25	0	0	0	0	21	0	0	21
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	13	N	0	13	385	87	0	472	393	254	0	647
	S.E.	13	N	0	13	236	87	0	251	130	162	0	208
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	70	N	0	70	269	20	0	289	17	0	0	17
	S.E.	46	N	0	46	109	20	0	111	17	0	0	17
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	628	N	87	714	2746	891	168	3805	580	466	0	1046
	S.E.	152	N	87	175	629	498	168	820	145	202	0	248
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-25 (CONTINUED).

WHITE PERCH OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	22	0	0	22
	S.E.	0	0	0	0	N	0	0	0	13	0	0	13
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	81	0	81	94	514	0	609
	S.E.	0	0	0	0	N	50	0	50	26	198	0	199
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	6	13	0	19	N	0	0	0	12	209	0	221
	S.E.	6	13	0	14	N	0	0	0	8	150	0	150
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	35	0	35
	S.E.	0	0	0	0	N	0	0	0	0	35	0	35
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	0	19	0	19	N	0	0	0	12	0	0	12
	S.E.	0	19	0	19	N	0	0	0	8	0	0	8
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	28	0	28	N	0	0	0	8	0	0	8
	S.E.	0	28	0	28	N	0	0	0	8	0	0	8
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	6	60	0	66	N	81	0	81	148	758	0	906
	S.E.	6	36	0	37	N	50	0	50	32	250	0	253
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-25 (CONTINUED).

WHITE PERCH OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	178	0	178	N	329	0	329	N	503	427	930
	S.E.	N	104	0	104	N	95	0	95	N	427	427	447
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	1137	0	1137	N	724	0	724	N	3572	0	3572
	S.E.	N	332	0	332	N	283	0	283	N	0	0	823
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	170	179	349	N	50	75	125	N	799	0	799
	S.E.	N	136	179	225	N	27	75	79	N	0	0	202
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	136	0	136	N	25	0	25	N	56	0	56
	S.E.	N	136	0	136	N	16	0	16	N	0	0	39
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	0	0	0	N	31	0	31	N	61	0	61
	S.E.	N	0	0	0	N	19	0	19	N	0	0	32
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	1620	179	1799	N	1159	75	1233	N	4991	427	5418
	S.E.	N	397	179	436	N	301	75	310	N	427	427	960
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-25 (CONTINUED).

WHITE PERCH OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	487	34	521	N	639	242	881
	S.E.	N	118	34	123	N	111	204	232
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	ST. CROP	N	926	0	926	N	2425	0	2425
	S.E.	N	191	0	191	N	398	0	398
	NO. TOWS	N	12	6	18	N	15	6	21
05SEP83	ST. CROP	N	1104	385	1489	N	1257	0	1257
	S.E.	N	327	210	388	N	382	0	382
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	ST. CROP	N	361	0	361	N	428	0	428
	S.E.	N	90	0	90	N	193	0	193
	NO. TOWS	N	12	6	18	N	15	6	21
03OCT83	ST. CROP	N	30	87	118	N	53	0	53
	S.E.	N	20	55	59	N	23	0	23
	NO. TOWS	N	12	6	18	N	15	6	21
17OCT83	ST. CROP	N	10	0	10	N	14	0	14
	S.E.	N	10	0	10	N	14	0	14
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	2920	506	3426	N	4815	242	5057
	S.E.	N	407	219	462	N	596	204	630
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-25 (CONTINUED).

WHITE PERCH OLDER

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	893	N	893	1455	3690	872	6017
	S.E.	N	383	N	383	525	667	504	987
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	ST. CROP	N	4309	N	4309	1073	13906	87	15067
	S.E.	N	728	N	728	253	1284	87	1312
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	1385	N	1385	340	5104	639	6082
	S.E.	N	523	N	523	113	784	286	842
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	ST. CROP	N	0	N	0	72	1041	0	1113
	S.E.	N	0	N	0	33	259	0	261
	NO. TOWS	N	8	N	8	64	86	49	199
03OCT83	ST. CROP	N	26	N	26	804	560	87	1451
	S.E.	N	26	N	26	270	193	55	336
	NO. TOWS	N	8	N	8	65	85	50	200
17OCT83	ST. CROP	N	0	N	0	364	72	0	436
	S.E.	N	0	N	0	120	38	0	126
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	6614	N	6614	4107	24373	1685	30165
	S.E.	N	976	N	976	664	1677	588	1898
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-26
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE PERCH OLDER

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AI	COMBINED
01AUG83	ST. CROP	0	668	161	46	4	89	13	3	19	80	55	17	1156
	S.E.	0	361	83	22	2	32	11	1	7	36	31	17	376
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	8	165	284	118	14	25	1	3	7	23	79	2	729
	S.E.	4	53	167	40	10	13	1	2	5	16	49	2	188
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	2	293	962	7	1	21	1	2	10	53	0	2	1356
	S.E.	2	93	289	5	1	12	1	1	8	31	0	2	306
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	0	191	23	2	0	4	4	0	3	70	43	2	343
	S.E.	0	55	10	2	0	2	4	0	3	30	37	2	74
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	2	4	4	42	1	8	14	2	28	12	2	4	121
	S.E.	2	3	3	23	1	4	11	1	23	8	2	3	36
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
100CT83	ST. CROP	0	81	12	22	2	25	1	0	10	23	0	0	177
	S.E.	0	27	6	13	1	21	1	0	7	23	0	0	45
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	11	1403	1446	238	22	171	35	10	77	261	179	27	3881
	S.E.	5	382	345	53	10	42	16	3	28	63	68	18	528
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-27
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

AMERICAN SHAD EGGS

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-27 (CONTINUED).

AMERICAN SHAD EGGS

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	43	43	N	0	0	0	0	0	0	0
	S.E.	0	0	43	43	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	12	0	12
	S.E.	0	0	0	0	N	0	0	0	0	12	0	12
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	43	43	N	0	0	0	0	12	0	12
	S.E.	0	0	43	43	N	0	0	0	0	12	0	12
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-27 (CONTINUED).

AMERICAN SHAD EGGS

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	4087	123	4210	N	25861	15435	41295
	S.E.	N	0	0	0	N	1664	87	1666	N	10982	10982	22628
	NO. TOWS	N	9	10	19	N	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	2284	0	2284	N	84	143	227	N	16689	167	16857
	S.E.	N	1271	0	1271	N	51	100	113	N	167	167	11204
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	1236	0	1236	N	395	71	466	N	23957	2872	26830
	S.E.	N	649	0	649	N	178	48	185	N	2619	2619	13222
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	184	148	331	N	144	154	298	N	13962	71	14032
	S.E.	N	168	105	198	N	61	154	166	N	71	71	13505
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	40	0	40	N	141	57	198	N	584	0	584
	S.E.	N	30	0	30	N	97	57	112	N	0	0	278
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	281	0	281	N	0	0	0
	S.E.	N	0	0	0	N	169	0	169	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	98	0	98
	S.E.	N	0	0	0	N	0	0	0	N	0	0	98
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	3744	148	3892	N	5131	549	5680	N	81151	18545	99696
	S.E.	N	1438	105	1441	N	1686	217	1700	N	11291	11291	31541
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-27 (CONTINUED).

AMERICAN SHAD EGGS

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	30179	0	30179	N	0	0	0
	S.E.	N	15367	0	15367	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	99639	2824	102463	N	568304	35430	603735
	S.E.	N	97077	2824	97118	N	496879	18741	497232
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	26798	3843	30641	N	10490	0	10490
	S.E.	N	8413	3269	9026	N	5554	0	5554
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	37159	0	37159	N	12860	2229	15089
	S.E.	N	19140	0	19140	N	8774	1467	8896
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	159	0	159	N	7730	980	8710
	S.E.	N	40	0	40	N	1819	375	1858
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	1032	99	1131	N	6222	297	6518
	S.E.	N	370	99	383	N	1383	297	1414
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	0	0	0	N	772	80	853
	S.E.	N	0	0	0	N	268	80	280
	NO. TOWS	N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	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	194965	6766	201732	N	606379	39016	645395
	S.E.	N	100486	4321	100578	N	496993	18804	497348
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-27 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				EGGS			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	13923	N	13923	0	74050	15558	89608
	S.E.	N	6362	N	6362	0	25900	10982	28132
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	23998	N	23998	0	710998	38608	749606
	S.E.	N	8583	N	8583	0	506472	18954	506826
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	537982	N	537982	0	600871	6786	607657
	S.E.	N	184682	N	184682	0	185412	4189	185459
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	157962	N	157962	0	222269	2602	224871
	S.E.	N	80703	N	80703	0	84491	1480	84504
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	60755	N	60755	0	69409	1037	70446
	S.E.	N	37386	N	37386	0	37431	380	37433
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	4934	N	4934	0	12468	396	12864
	S.E.	N	2643	N	2643	0	3011	313	3027
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	4275	N	4275	0	5145	80	5226
	S.E.	N	4275	N	4275	0	4285	80	4286
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	803829	N	803829	0	1695211	65067	1760278
	S.E.	N	205323	N	205323	0	547840	22357	548296
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-28
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

AMERICAN SHAD YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-28 (CONTINUED).

AMERICAN SHAD YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	25	25	24	13	212	249
	S.E.	0	0	0	0	N	0	25	25	19	13	212	213
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	23	23	50	143	0	192
	S.E.	0	0	0	0	N	0	23	23	43	64	0	77
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	144	144
	S.E.	0	0	0	0	N	0	0	0	0	0	89	89
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	0	0	N	0	48	48	74	156	356	585
	S.E.	0	0	0	0	N	0	34	34	47	65	230	243
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-28 (CONTINUED).

AMERICAN SHAD YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	151	57	209	N	657	156	813	N	1068	346	1413
	S.E.	N	90	57	107	N	175	85	195	N	346	346	782
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	358	1663	2021	N	950	2152	3102	N	7462	4234	11696
	S.E.	N	114	437	452	N	393	726	826	N	1309	1309	4378
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	1499	526	2025	N	559	1820	2380	N	9961	1900	11861
	S.E.	N	522	400	658	N	312	713	778	N	1237	1237	6723
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	106	490	596	N	476	284	761	N	6054	1224	7278
	S.E.	N	48	205	210	N	132	186	228	N	360	360	1869
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	90	90	N	354	541	894
	S.E.	N	0	0	0	N	0	60	60	N	402	402	471
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	2114	2737	4851	N	2642	4503	7146	N	24898	8244	33143
	S.E.	N	544	630	832	N	548	1040	1175	N	1911	1911	8288
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-28 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YOLK-SAC LARVAE			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	66	0	66	N	0	0	0
	S.E.	N	66	0	66	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	1608	138	1746	N	780	0	780
	S.E.	N	813	138	824	N	463	0	463
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	6098	1854	7952	N	4130	899	5029
	S.E.	N	2337	1394	2722	N	1040	350	1098
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	5541	2159	7700	N	16830	20327	37157
	S.E.	N	2581	1301	2890	N	5452	16409	17291
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	4473	5153	9626	N	35980	4384	40364
	S.E.	N	1720	2202	2794	N	31902	1067	31920
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	1335	1950	3285	N	2908	3757	6665
	S.E.	N	537	1950	2023	N	656	923	1133
	NO. TOWS	N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	0	197	197	N	0	0	0
	S.E.	N	0	197	197	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	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	19122	11451	30573	N	60628	29368	89995
	S.E.	N	4005	3513	5327	N	32391	16473	36340
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-28 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD ALBANY SHOAL	AMERICAN SHAD ALBANY BOTTOM	AMERICAN SHAD ALBANY CHANNEL	AMERICAN SHAD ALBANY REGION	YOLK-SAC LARVAE COMBINED SHOAL	YOLK-SAC LARVAE COMBINED BOTTOM	YOLK-SAC LARVAE COMBINED CHANNEL	YOLK-SAC LARVAE COMBINED REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	66	0	66
	S.E.	N	0	N	0	0	66	0	66
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	615	N	615	0	4879	698	5576
	S.E.	N	561	N	561	0	1311	386	1367
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	23854	N	23854	24	42865	11040	53929
	S.E.	N	17237	N	17237	19	17924	2131	18050
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	33085	N	33085	50	67619	26755	94424
	S.E.	N	6465	N	6465	43	11056	16527	19884
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	123749	N	123749	0	170838	11680	182517
	S.E.	N	54404	N	54404	0	63118	2490	63167
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	21466	N	21466	0	26063	6338	32401
	S.E.	N	10776	N	10776	0	10812	2195	11033
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	197	197
	S.E.	N	0	N	0	0	0	197	197
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	202769	N	202769	74	312329	56707	369110
	S.E.	N	58439	N	58439	47	67424	16997	69534
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-29
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

AMERICAN SHAD POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	216	216
	S.E.	0	N	0	0	0	0	0	0	0	0	183	183
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	75	0	0	75
	S.E.	0	N	0	0	0	0	0	0	75	0	0	75
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	75	0	216	291
	S.E.	0	N	0	0	0	0	0	0	75	0	183	198
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-29 (CONTINUED).

AMERICAN SHAD POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	14	0	0	14	N	0	25	25	15	0	743	758
	S.E.	14	0	0	14	N	0	25	25	15	0	309	310
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	19	85	104	N	16	1231	1247	374	237	2743	3355
	S.E.	0	19	59	62	N	16	745	745	122	51	1828	1833
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	39	39	N	91	1217	1307	566	19	8185	8770
	S.E.	0	0	39	39	N	91	521	529	439	19	3253	3283
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	15	91	107	319	10	686	1014
	S.E.	0	0	0	0	N	15	56	58	259	10	234	349
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	47	23	59	130	N	38	1917	1955	367	169	1206	1742
	S.E.	39	23	41	61	N	18	626	627	303	130	582	669
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	16	0	101	117	N	289	3108	3398	268	446	3483	4196
	S.E.	16	0	55	57	N	146	873	885	255	183	1411	1446
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	10	0	10	60	264	0	324
	S.E.	0	0	0	0	N	10	0	10	60	128	0	142
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	78	42	284	404	N	459	7589	8049	1967	1144	17047	20159
	S.E.	45	30	98	112	N	174	1408	1419	660	265	4050	4112
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-29 (CONTINUED).

AMERICAN SHAD POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	193	957	1150	N	29	897	926	N	738	2373	3110
	S.E.	N	106	356	372	N	19	268	269	N	688	688	810
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	3855	12556	16411	N	956	47752	48708	N	10209	29991	40200
	S.E.	N	775	2923	3024	N	313	16908	16911	N	10436	10436	11252
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	791	9967	10758	N	6973	18874	25847	N	6455	66846	73301
	S.E.	N	316	4687	4698	N	2632	10392	10720	N	15973	15973	16125
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	8895	8895	N	240	14279	14519	N	3863	27288	31151
	S.E.	N	0	3074	3074	N	240	4705	4711	N	9541	9541	9892
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	N	549	10374	10923	N	531	6449	6980	N	5083	3030	8114
	S.E.	N	213	4416	4421	N	169	3411	3416	N	1443	1443	3215
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	312	5343	5655	N	3017	1102	4119	N	8878	1485	10363
	S.E.	N	128	2806	2809	N	1639	649	1762	N	583	583	2682
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	59	602	662	N	140	1317	1457	N	254	2442	2696
	S.E.	N	39	409	411	N	44	509	511	N	1940	1940	1945
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	5760	48694	54453	N	11885	90670	102555	N	35480	133455	168935
	S.E.	N	881	8223	8270	N	3130	20698	20933	N	21488	21488	22504
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-29 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				POST YOLK-SAC LARVAE			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	229	129	358	N	0	145	145
	S.E.	N	140	129	191	N	0	73	73
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	6796	16356	23152	N	2091	19826	21917
	S.E.	N	4263	7193	8361	N	436	16668	16674
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	2098	34234	36332	N	861	5265	6126
	S.E.	N	789	15582	15602	N	432	1981	2027
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	1796	234742	236538	N	1174	199167	200341
	S.E.	N	624	165751	165752	N	825	95211	95214
	NO. TOWS	N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	3615	3680	7295	N	13107	21569	34677
	S.E.	N	692	136	705	N	623	16882	16894
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	ST. CROP	N	12908	2085	14993	N	22195	6890	29085
	S.E.	N	6288	1069	6378	N	2534	648	2616
	NO. TOWS	N	4	2	6	N	3	3	6
04JUL83	ST. CROP	N	48	3459	3506	N	1121	4479	5601
	S.E.	N	48	3459	3459	N	653	699	956
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	27490	294684	322174	N	40549	257342	297890
	S.E.	N	7696	166676	166854	N	2880	98147	98189
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-29 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				POST YOLK-SAC LARVAE			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	11684	N	11684	29	12873	5270	18172
	S.E.	N	11684	N	11684	21	11694	889	11727
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	1476	N	1476	374	25655	130540	156568
	S.E.	N	820	N	820	122	6118	27144	27826
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	732	N	732	566	18019	144627	163212
	S.E.	N	496	N	496	439	3600	25351	25609
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	463	N	463	319	7560	485363	493242
	S.E.	N	463	N	463	259	2858	191471	191492
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	686	N	686	489	23801	48285	72576
	S.E.	N	577	N	577	315	3090	17860	18128
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	7461	N	7461	284	55506	23596	79386
	S.E.	N	3363	N	3363	255	8178	3599	8938
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	215	N	215	60	2112	12299	14471
	S.E.	N	128	N	128	60	693	4080	4139
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	22716	N	22716	2121	145526	849981	997628
	S.E.	N	12220	N	12220	666	16499	195934	196628
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-30
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	59	59
	S.E.	0	N	0	0	0	0	0	0	0	0	38	38
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	59	59
	S.E.	0	N	0	0	0	0	0	0	0	0	38	38
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-30 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	122	528	650	24	596	1183	1804
	S.E.	0	0	0	0	N	53	380	384	24	259	499	563
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	222	0	855	1077	N	35	796	831	277	6490	573	7340
	S.E.	80	0	404	411	N	17	180	180	202	1769	261	1799
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	222	0	855	1077	N	157	1324	1481	301	7086	1756	9144
	S.E.	80	0	404	411	N	55	420	424	204	1788	563	1885
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-30 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	189	840	1028	N	2103	125	2228	N	7239	205	7444
	S.E.	N	55	526	529	N	1615	86	1617	N	103	103	5298
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	1844	11937	13781	N	1729	10785	12514	N	0	168	168
	S.E.	N	641	3559	3616	N	717	3964	4028	N	168	168	168
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	2032	12777	14809	N	3832	10911	14742	N	7239	373	7612
	S.E.	N	643	3597	3654	N	1767	3964	4340	N	197	197	5300
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-30 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	ST. CROP	N	4255	0	4255	N	7854	144	7997
	S.E.	N	1701	0	1701	N	2048	144	2053
	NO. TOWS	N	4	2	6	N	3	3	6
04JUL83	ST. CROP	N	0	0	0	N	1586	3998	5583
	S.E.	N	0	0	0	N	1586	3998	4301
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	4255	0	4255	N	9440	4141	13581
	S.E.	N	1701	0	1701	N	2590	4000	4766
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-30 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	144	N	144	24	22502	3025	25552
	S.E.	N	72	N	72	24	6151	842	6208
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	500	11683	29172	41354
	S.E.	N	0	N	0	218	2563	6682	7160
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	144	N	144	524	34185	32197	66906
	S.E.	N	72	N	72	219	6663	6735	9476
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-31
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

AMERICAN SHAD — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	100	N	622	722	1434	303	778	2514	254	0	0	254
	S.E.	31	N	389	391	403	227	778	905	77	0	0	77
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	312	68	0	380	65	43	0	108
	S.E.	0	N	0	0	87	36	0	95	19	23	0	30
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	11	N	0	11	55	0	0	55	74	0	0	74
	S.E.	11	N	0	11	34	0	0	34	40	0	0	40
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	12	N	0	12	53	0	0	53	28	0	0	28
	S.E.	12	N	0	12	22	0	0	22	15	0	0	15
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
03OCT83	ST. CROP	12	N	0	12	9	49	37	95	34	37	0	70
	S.E.	12	N	0	12	9	49	37	62	20	28	0	34
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	118	N	339	456	108	69	0	177	0	81	0	81
	S.E.	58	N	339	344	44	49	0	66	0	68	0	68
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	253	N	960	1213	1970	489	814	3274	456	161	0	617
	S.E.	69	N	516	521	417	241	778	915	92	77	0	120
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	31	0	665	696	N	16	0	16	143	142	68	353
	S.E.	17	0	665	666	N	16	0	16	137	51	68	161
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	12	0	0	12	N	489	0	489	87	352	0	439
	S.E.	12	0	0	12	N	407	0	407	31	251	0	252
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	7	27	0	34	N	0	0	0	4	0	0	4
	S.E.	7	17	0	18	N	0	0	0	4	0	0	4
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	120	120	7	0	0	7
	S.E.	0	0	0	0	N	0	120	120	7	0	0	7
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	79	0	0	79	N	15	0	15	54	0	0	54
	S.E.	53	0	0	53	N	15	0	15	20	0	0	20
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	16	14	0	31	N	16	0	16	92	104	0	196
	S.E.	7	14	0	16	N	16	0	16	38	43	0	57
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	145	42	665	851	N	536	120	656	385	598	68	1052
	S.E.	58	22	665	668	N	408	120	426	147	259	68	306
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	63	0	63	N	177	0	177	N	864	0	864
	S.E.	N	63	0	63	N	133	0	133	N	0	0	451
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	1752	1264	3016	N	1420	431	1851	N	2459	946	3405
	S.E.	N	612	678	914	N	484	431	648	N	129	129	540
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	66	0	66	N	42	0	42	N	125	0	125
	S.E.	N	41	0	41	N	21	0	21	N	0	0	29
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	96	0	96	N	13	0	13	N	139	0	139
	S.E.	N	39	0	39	N	13	0	13	N	0	0	39
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. CROP	N	108	0	108	N	44	0	44	N	340	0	340
	S.E.	N	74	0	74	N	31	0	31	N	0	0	123
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	192	0	192	N	89	0	89	N	201	0	201
	S.E.	N	91	0	91	N	46	0	46	N	0	0	80
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	2278	1264	3541	N	1786	431	2217	N	4128	946	5074
	S.E.	N	629	678	925	N	505	431	664	N	129	129	721
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	1513	389	1901	N	3557	151	3708
	S.E.	N	425	102	437	N	495	151	517
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	ST. CROP	N	4731	357	5088	N	5858	926	6784
	S.E.	N	1154	313	1195	N	1583	721	1740
	NO. TOWS	N	12	6	18	N	15	6	21
05SEP83	ST. CROP	N	674	206	881	N	2104	0	2104
	S.E.	N	239	206	316	N	1129	0	1129
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	ST. CROP	N	110	0	110	N	251	183	435
	S.E.	N	45	0	45	N	94	183	206
	NO. TOWS	N	12	6	18	N	15	6	21
030CT83	ST. CROP	N	802	133	935	N	633	35	668
	S.E.	N	235	133	270	N	231	35	233
	NO. TOWS	N	12	6	18	N	15	6	21
170CT83	ST. CROP	N	94	0	94	N	264	0	264
	S.E.	N	42	0	42	N	103	0	103
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	7925	1085	9010	N	12668	1295	13963
	S.E.	N	1276	410	1340	N	2025	760	2163
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	2945	N	2945	1962	9579	2672	14213
	S.E.	N	1166	N	1166	434	1437	1112	1868
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	ST. CROP	N	2828	N	2828	476	20001	3924	24401
	S.E.	N	1040	N	1040	95	2457	1132	2706
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	4221	N	4221	151	7261	206	7618
	S.E.	N	3302	N	3302	54	3498	206	3505
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	ST. CROP	N	22	N	22	99	631	304	1034
	S.E.	N	22	N	22	30	121	219	252
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	ST. CROP	N	0	N	0	188	2029	204	2421
	S.E.	N	0	N	0	62	365	142	397
	NO. TOWS	N	8	N	8	65	85	50	200
170CT83	ST. CROP	N	42	N	42	333	1169	339	1841
	S.E.	N	42	N	42	82	201	339	402
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	10059	N	10059	3209	40670	7649	51528
	S.E.	N	3653	N	3653	461	4531	1656	4846
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-32
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

AMERICAN SHAD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	ST. CROP	5	114	23	369	74	275	363	124	343	960	1552	774	4975
	S.E.	3	45	13	323	41	121	200	43	146	211	693	220	872
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	0	17	0	11	34	266	435	82	183	388	815	495	2726
	S.E.	0	10	0	7	13	111	71	35	74	90	233	150	331
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	3	30	88	77	24	257	404	42	165	575	700	776	3145
	S.E.	2	17	84	69	11	186	107	12	68	155	274	242	470
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	5	66	67	39	21	146	143	17	172	778	244	202	1900
	S.E.	3	36	57	28	17	71	18	10	83	251	64	61	298
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	0	70	6	42	22	154	43	35	122	337	179	85	1096
	S.E.	0	34	4	42	11	69	17	10	50	87	42	37	146
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	ST. CROP	5	57	15	1	17	41	61	8	119	203	295	49	871
	S.E.	3	26	12	1	12	11	30	3	35	70	86	22	126
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	17	354	200	540	192	1139	1449	308	1104	3242	3786	2382	14712
	S.E.	6	75	103	334	51	267	241	59	205	390	790	368	1103
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-33
COMBINED STANDING CROP (IN THOUSANDS) OF JUVENILES
IN HUDSON RIVER ESTUARY
DETERMINED BY THE BEACH SEINE AND FALL SHOALS SURVEYS.
AMERICAN SHAD YOUNG-OF-THE-YEAR
AUG 1 - AUG 7

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	5	37 *	111 *	220 *	373
	SE	3	23 *	70 *	138 *	156
TAPPAN ZEE	ST. CROP	114	538 *	151 *	389 *	1191
	SE	45	151 *	114 *	389 *	435
CROTON-HAVERSTRAW	ST. CROP	23	95 *	0 *	30 *	148
	SE	13	29 *	0 *	19 *	37
INDIAN POINT	ST. CROP	369	95 *	0 *	760 *	1224
	SE	323	37 *	0 *	534 *	625
WEST POINT	ST. CROP	74	2 *	23 *	398 *	497
	SE	41	1 *	15 *	90 *	100
CORNWALL	ST. CROP	275	158 *	3316 *	320 *	4069
	SE	121	127 *	910 *	164 *	941
POUGHKEEPSIE	ST. CROP	363	62 *	871 *	5969 *	7265
	SE	200	23 *	321 *	1779 *	1819
HYDE PARK	ST. CROP	124	48 *	889 *	5393 *	6453
	SE	43	21 *	396 *	1982 *	2022
KINGSTON	ST. CROP	343	83 *	321 *	84 *	831
	SE	146	44 *	168 *	84 *	241
SAUGERTIES	ST. CROP	960	183 *	513 *	194 *	1850
	SE	211	51 *	144 *	51 *	266
CATSKILL	ST. CROP	1552	866 *	1416 *	2075 *	5910
	SE	693	350 *	573 *	2075 *	2288
ALBANY	ST. CROP	774	398 *	280 *	663 *	2114
	SE	220	157 *	111 *	262 *	393
STRATUM TOTAL	ST. CROP	4975	2565 *	7891 *	16494 *	31924
	SE	872	442 *	1223 *	3459 *	3797

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

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

TABLE B-33 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

AUG 8 - AUG 14

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	5	75	223 *	440	742
	SE	3	23	70 *	276	285
TAPPAN ZEE	ST. CROP	114	1075	303	778	2269
	SE	45	302	227	778	866
CROTON-HAVERSTRAW	ST. CROP	23	191	0	0	214
	SE	13	58	0	0	59
INDIAN POINT	ST. CROP	369	23	0	665	1057
	SE	323	13	0	665	740
WEST POINT	ST. CROP	74	1 *	14	0	90
	SE	41	1 *	14	0	44
CORNWALL	ST. CROP	275	107	142	68	592
	SE	121	103	51	68	180
POUGHKEEPSIE	ST. CROP	363	4 *	57	0	425
	SE	200	4 *	57	0	208
HYDE PARK	ST. CROP	124	9 *	165	0	298
	SE	43	7 *	124	0	132
KINGSTON	ST. CROP	343	167 *	641	0	1151
	SE	146	87 *	335	0	376
SAUGERTIES	ST. CROP	960	365 *	1026	389	2739
	SE	211	103 *	289	102	386
CATSKILL	ST. CROP	1552	1198 *	1959	151	4861
	SE	693	167 *	273	151	778
ALBANY	ST. CROP	774	795 *	559	1326 *	3455
	SE	220	315 *	221	525 *	687
STRATUM TOTAL	ST. CROP	4975	4011 *	5090	3816 *	17892
	SE	872	501 *	630	1199 *	1687

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-33 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

AUG 15 - AUG 21

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	37 *	111 *	220 *	369
	SE	0	12 *	35 *	138 *	143
TAPPAN ZEE	ST. CROP	17	655 *	185 *	389 *	1246
	SE	10	184 *	132 *	389 *	450
CROTON-HAVERSTRAW	ST. CROP	0	120 *	22 *	0 *	141
	SE	0	36 *	12 *	0 *	38
INDIAN POINT	ST. CROP	11	16 *	0 *	333 *	360
	SE	7	11 *	0 *	333 *	333
WEST POINT	ST. CROP	34	17 *	230 *	0 *	280
	SE	13	14 *	192 *	0 *	193
CORNWALL	ST. CROP	266	86 *	247 *	34 *	633
	SE	111	63 *	151 *	34 *	200
POUGHKEEPSIE	ST. CROP	436	59 *	829 *	632 *	1956
	SE	71	22 *	308 *	339 *	464
HYDE PARK	ST. CROP	82	40 *	745 *	215 *	1083
	SE	35	16 *	288 *	215 *	361
KINGSTON	ST. CROP	183	321 *	1234 *	473 *	2210
	SE	74	94 *	362 *	64 *	387
SAUGERTIES	ST. CROP	388	753 *	2118 *	373 *	3632
	SE	90	191 *	536 *	207 *	612
CATSKILL	ST. CROP	815	1586 *	2593 *	538 *	5532
	SE	233	350 *	572 *	436 *	834
ALBANY	ST. CROP	495	780 *	548 *	1299 *	3122
	SE	150	298 *	209 *	497 *	634
STRATUM TOTAL	ST. CROP	2726	4470 *	8861 *	4506 *	20563
	SE	331	545 *	1023 *	963 *	1543

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-33 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

AUG 22 - AUG 28

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	0	0 *	0	0
	SE	0	0	0 *	0	0
TAPPAN ZEE	ST. CROP	17	234	68	0	319
	SE	10	65	36	0	76
CROTON-HAVERSTRAW	ST. CROP	0	49	43	0	92
	SE	0	14	23	0	27
INDIAN POINT	ST. CROP	11	9	0	0	20
	SE	7	9	0	0	12
WEST POINT	ST. CROP	34	33 *	445	0	512
	SE	13	28 *	370	0	372
CORNWALL	ST. CROP	266	65	352	0	684
	SE	111	23	251	0	275
POUGHKEEPSIE	ST. CROP	436	114 *	1601	1264	3414
	SE	71	40 *	559	678	883
HYDE PARK	ST. CROP	82	71 *	1325	431	1909
	SE	35	24 *	451	431	625
KINGSTON	ST. CROP	183	475 *	1826	946	3429
	SE	74	101 *	390	129	429
SAUGERTIES	ST. CROP	388	1142 *	3209	357	5096
	SE	90	278 *	783	313	892
CATSKILL	ST. CROP	815	1974 *	3227	926	6941
	SE	233	533 *	872	721	1273
ALBANY	ST. CROP	495	764 *	537	1273 *	3068
	SE	150	281 *	198	468 *	600
STRATUM TOTAL	ST. CROP	2726	4929 *	12632	5196 *	25484
	SE	331	678 *	1511	1225 *	2086

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-33 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

AUG 29 - SEP 4

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	3	4 *	12 *	0 *	19
	SE	2	4 *	12 *	0 *	13
TAPPAN ZEE	ST. CROP	30	138 *	34 *	0 *	202
	SE	17	45 *	18 *	0 *	52
CROTON-HAVERSTRAW	ST. CROP	88	52 *	22 *	0 *	162
	SE	84	22 *	12 *	0 *	88
INDIAN POINT	ST. CROP	77	7 *	14 *	0 *	98
	SE	69	7 *	9 *	0 *	69
WEST POINT	ST. CROP	24	17 *	222 *	0 *	263
	SE	11	14 *	185 *	0 *	186
CORNWALL	ST. CROP	257	34 *	176 *	0 *	468
	SE	186	13 *	125 *	0 *	225
POUGHKEEPSIE	ST. CROP	404	59 *	830 *	632 *	1926
	SE	107	21 *	298 *	339 *	465
HYDE PARK	ST. CROP	42	37 *	682 *	215 *	977
	SE	12	13 *	235 *	215 *	320
KINGSTON	ST. CROP	165	249 *	960 *	473 *	1847
	SE	68	53 *	206 *	64 *	232
SAUGERTIES	ST. CROP	575	652 *	1833 *	282 *	3343
	SE	155	168 *	472 *	260 *	586
CATSKILL	ST. CROP	700	1341 *	2193 *	463 *	4697
	SE	274	457 *	747 *	361 *	986
ALBANY	ST. CROP	776	952 *	669 *	1586 *	3984
	SE	242	586 *	412 *	977 *	1236
STRATUM TOTAL	ST. CROP	3145	3542 *	7647 *	3651 *	17986
	SE	470	766 *	1090 *	1148 *	1821

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-33 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

SEP 5 - SEP 11

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	3	8	24 *	0	35
	SE	2	8	24 *	0	26
TAPPAN ZEE	ST. CROP	30	41	0	0	72
	SE	17	25	0	0	31
CROTON-HAVERSTRAW	ST. CROP	88	56	0	0	144
	SE	84	30	0	0	90
INDIAN POINT	ST. CROP	77	5	27	0	110
	SE	69	5	17	0	71
WEST POINT	ST. CROP	24	0 *	0	0	24
	SE	11	0 *	0	0	11
CORNWALL	ST. CROP	257	3	0	0	260
	SE	186	3	0	0	186
POUGHKEEPSIE	ST. CROP	404	4 *	60	0	469
	SE	107	3 *	37	0	113
HYDE PARK	ST. CROP	42	2 *	40	0	84
	SE	12	1 *	19	0	23
KINGSTON	ST. CROP	165	24 *	93	0	283
	SE	68	6 *	21	0	71
SAUGERTIES	ST. CROP	575	163 *	457	206	1402
	SE	155	58 *	162	206	310
CATSKILL	ST. CROP	700	709 *	1159	0	2568
	SE	274	381 *	622	0	779
ALBANY	ST. CROP	776	1140 *	802	1900 *	4618
	SE	242	892 *	627	1486 *	1859
STRATUM TOTAL	ST. CROP	3145	2155 *	2662	2106 *	10069
	SE	470	972 *	900	1500 *	2056

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-33 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

SEP 12 - SEP 18

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	5	9 *	25 *	0 *	39
	SE	3	9 *	25 *	0 *	27
TAPPAN ZEE	ST. CROP	66	40 *	0 *	0 *	107
	SE	36	21 *	0 *	0 *	42
CROTON-HAVERSTRAW	ST. CROP	67	38 *	0 *	0 *	106
	SE	57	21 *	0 *	0 *	61
INDIAN POINT	ST. CROP	39	3 *	14 *	0 *	55
	SE	28	3 *	9 *	0 *	29
WEST POINT	ST. CROP	21	0 *	0 *	60 *	81
	SE	17	0 *	0 *	60 *	63
CORNWALL	ST. CROP	146	4 *	0 *	0 *	149
	SE	71	4 *	0 *	0 *	71
POUGHKEEPSIE	ST. CROP	143	5 *	74 *	0 *	223
	SE	18	3 *	37 *	0 *	41
HYDE PARK	ST. CROP	17	1 *	26 *	0 *	44
	SE	10	1 *	16 *	0 *	19
KINGSTON	ST. CROP	172	26 *	98 *	0 *	296
	SE	83	7 *	25 *	0 *	87
SAUGERTIES	ST. CROP	778	95 *	266 *	103 *	1242
	SE	251	34 *	96 *	103 *	290
CATSKILL	ST. CROP	244	397 *	649 *	92 *	1381
	SE	64	206 *	337 *	92 *	411
ALBANY	ST. CROP	202	573 *	403 *	955 *	2133
	SE	61	449 *	316 *	748 *	930
STRATUM TOTAL	ST. CROP	1900	1190 *	1555 *	1210 *	5855
	SE	298	496 *	475 *	763 *	1069

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-33 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

SEP 19 - SEP 25

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	5	9	27 *	0	40
	SE	3	9	27 *	0	28
TAPPAN ZEE	ST. CROP	66	40	0	0	106
	SE	36	17	0	0	40
CROTON-HAVERSTRAW	ST. CROP	67	21	0	0	88
	SE	57	11	0	0	58
INDIAN POINT	ST. CROP	39	0	0	0	39
	SE	28	0	0	0	28
WEST POINT	ST. CROP	21	0 *	0	120	141
	SE	17	0 *	0	120	122
CORNWALL	ST. CROP	146	5	0	0	150
	SE	71	5	0	0	71
POUGHKEEPSIE	ST. CROP	143	6 *	88	0	237
	SE	18	3 *	36	0	41
HYDE PARK	ST. CROP	17	1 *	12	0	29
	SE	10	1 *	12	0	16
KINGSTON	ST. CROP	172	27 *	103	0	302
	SE	83	7 *	29	0	88
SAUGERTIES	ST. CROP	778	27 *	75	0	879
	SE	251	11 *	31	0	253
CATSKILL	ST. CROP	244	85 *	138	183	651
	SE	64	32 *	52	183	204
ALBANY	ST. CROP	202	6 *	4	10 *	222
	SE	61	6 *	4	10 *	62
STRATUM TOTAL	ST. CROP	1900	225 *	447	314 *	2886
	SE	298	42 *	82	220 *	382

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

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

TABLE B-33 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

SEP 26 - OCT 2

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	9 *	27 *	0 *	36
	SE	0	9 *	27 *	0 *	29
TAPPAN ZEE	ST. CROP	70	23 *	25 *	18 *	136
	SE	34	12 *	25 *	18 *	47
CROTON-HAVERSTRAW	ST. CROP	6	23 *	18 *	0 *	47
	SE	4	13 *	14 *	0 *	19
INDIAN POINT	ST. CROP	42	30 *	0 *	0 *	72
	SE	42	20 *	0 *	0 *	47
WEST POINT	ST. CROP	22	1 *	7 *	60 *	89
	SE	11	1 *	7 *	60 *	62
CORNWALL	ST. CROP	154	23 *	0 *	0 *	176
	SE	69	10 *	0 *	0 *	70
POUGHKEEPSIE	ST. CROP	43	7 *	93 *	0 *	142
	SE	17	4 *	52 *	0 *	55
HYDE PARK	ST. CROP	35	1 *	27 *	0 *	64
	SE	10.	1 *	20 *	0 *	23
KINGSTON	ST. CROP	122	46 *	178 *	0 *	346
	SE	50	16 *	60 *	0 *	80
SAUGERTIES	ST. CROP	337	110 *	309 *	66 *	823
	SE	87	34 *	95 *	66 *	149
CATSKILL	ST. CROP	179	149 *	244 *	109 *	681
	SE	42	55 *	90 *	109 *	157
ALBANY	ST. CROP	85	3 *	2 *	5 *	95
	SE	37	3 *	2 *	5 *	38
STRATUM TOTAL	ST. CROP	1096	424 *	930 *	259 *	2709
	SE	146	73 *	159 *	142 *	269

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-33 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

OCT 3 - OCT 9

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	9	28 *	0	37
	SE	0	9	28 *	0	29
TAPPAN ZEE	ST. CROP	70	7	49	37	163
	SE	34	7	49	37	70
CROTON-HAVERSTRAW	ST. CROP	6	25	37	0	68
	SE	4	15	28	0	32
INDIAN POINT	ST. CROP	42	59	0	0	102
	SE	42	40	0	0	58
WEST POINT	ST. CROP	22	1 *	13	0	36
	SE	11	1 *	13	0	17
CORNWALL	ST. CROP	154	40	0	0	194
	SE	69	15	0	0	71
POUGHKEEPSIE	ST. CROP	43	7 *	99	0	148
	SE	17	5 *	67	0	70
HYDE PARK	ST. CROP	35	2 *	41	0	79
	SE	10	2 *	29	0	31
KINGSTON	ST. CROP	122	66 *	253	0	441
	SE	50	24 *	91	0	107
SAUGERTIES	ST. CROP	337	194 *	544	133	1208
	SE	87	57 *	159	133	232
CATSKILL	ST. CROP	179	213 *	349	35	776
	SE	42	78 *	127	35	159
ALBANY	ST. CROP	85	0 *	0	0 *	85
	SE	37	0 *	0	0 *	37
STRATUM TOTAL	ST. CROP	1096	624 *	1413	204 *	3336
	SE	146	110 *	244	142 *	336

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-33 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

OCT 10 - OCT 16

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	5	49 *	145 *	120 *	318
	SE	3	26 *	78 *	120 *	145
TAPPAN ZEE	ST. CROP	57	44 *	59 *	18 *	178
	SE	26	20 *	49 *	18 *	62
CROTON-HAVERSTRAW	ST. CROP	15	13 *	59 *	0 *	87
	SE	12	7 *	48 *	0 *	50
INDIAN POINT	ST. CROP	1	36 *	7 *	0 *	44
	SE	1	23 *	7 *	0 *	24
WEST POINT	ST. CROP	17	1 *	14 *	0 *	32
	SE	12	1 *	14 *	0 *	19
CORNWALL	ST. CROP	41	54 *	52 *	0 *	147
	SE	11	22 *	21 *	0 *	33
POUGHKEEPSIE	ST. CROP	61	10 *	137 *	0 *	208
	SE	30	5 *	75 *	0 *	81
HYDE PARK	ST. CROP	8	3 *	62 *	0 *	74
	SE	3	2 *	36 *	0 *	36
KINGSTON	ST. CROP	119	52 *	201 *	0 *	372
	SE	35	20 *	76 *	0 *	85
SAUGERTIES	ST. CROP	203	108 *	304 *	66 *	682
	SE	70	33 *	94 *	66 *	139
CATSKILL	ST. CROP	295	151 *	247 *	17 *	710
	SE	86	56 *	92 *	17 *	139
ALBANY	ST. CROP	49	6 *	4 *	10 *	68
	SE	22	6 *	4 *	10 *	25
STRATUM TOTAL	ST. CROP	871	527 *	1292 *	231 *	2921
	SE	126	83 *	204 *	140 *	289

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-33 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

OCT 17 - OCT 23

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	5	88	262 *	240	594
	SE	3	43	128 *	240	275
TAPPAN ZEE	ST. CROP	57	81	69	0	207
	SE	26	33	49	0	65
CROTON-HAVERSTRAW	ST. CROP	15	0	81	0	97
	SE	12	0	68	0	69
INDIAN POINT	ST. CROP	1	12	14	0	28
	SE	1	5	14	0	15
WEST POINT	ST. CROP	17	1 *	15	0	33
	SE	12	1 *	15	0	19
CORNWALL	ST. CROP	41	69	104	0	214
	SE	11	29	43	0	53
POUGHKEEPSIE	ST. CROP	61	13 *	176	0	249
	SE	30	6 *	83	0	89
HYDE PARK	ST. CROP	8	4 *	83	0	96
	SE	3	2 *	43	0	43
KINGSTON	ST. CROP	119	39 *	149	0	307
	SE	35	16 *	60	0	71
SAUGERTIES	ST. CROP	203	23 *	64	0	290
	SE	70	10 *	28	0	76
CATSKILL	ST. CROP	295	89 *	145	0	529
	SE	86	35 *	57	0	109
ALBANY	ST. CROP	49	11 *	8	19 *	87
	SE	22	11 *	8	19 *	32
STRATUM TOTAL	ST. CROP	871	430 *	1172	259 *	2731
	SE	126	74 *	205	240 *	349

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-34
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

AMERICAN SHAD YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-34 (CONTINUED).

AMERICAN SHAD YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	22	22	N	0	0	0	0	0	0	0
	S.E.	0	0	22	22	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	5	0	0	5
	S.E.	0	0	0	0	N	0	0	0	5	0	0	5
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	22	22	N	0	0	0	5	0	0	5
	S.E.	0	0	22	22	N	0	0	0	5	0	0	5
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-34 (CONTINUED).

AMERICAN SHAD YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-34 (CONTINUED).

AMERICAN SHAD YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-34 (CONTINUED).

AMERICAN SHAD YEARLING

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	0	22	22
	S.E.	N	0	N	0	0	0	22	22
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	5	0	0	5
	S.E.	N	0	N	0	5	0	0	5
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	5	0	22	27
	S.E.	N	0	N	0	5	0	22	23
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-35
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

AMERICAN SHAD — YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED).

AMERICAN SHAD YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	13	0	13	N	0	0	0	0	0	0	0
	S.E.	0	13	0	13	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
03OCT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	13	0	13	N	0	0	0	0	0	0	0
	S.E.	0	13	0	13	N	0	0	0	0	0	0	0
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED).

AMERICAN SHAD YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
170CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED).

AMERICAN SHAD YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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
22AUG83	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
05SEP83	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
19SEP83	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
030CT83	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
170CT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				YEARLING			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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	66	85	49	200
22AUG83	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	87	49	200
05SEP83	ST. CROP	N	0	N	0	0	13	0	13
	S.E.	N	0	N	0	0	13	0	13
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	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	49	199
030CT83	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	65	85	50	200
170CT83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	0	13	0	13
	S.E.	N	0	N	0	0	13	0	13
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-36
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

AMERICAN SHAD — YEARLING

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	TP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
	S.E.	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	2	0	0	0	0	0	0	0	0	0	0	0	2
	S.E.	2	0	0	0	0	0	0	0	0	0	0	0	2
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	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. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	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. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	2	2	0	0	0	0	0	0	0	0	0	0	3
	S.E.	2	2	0	0	0	0	0	0	0	0	0	0	2
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-37
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

AMERICAN SHAD OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-37 (CONTINUED).

AMERICAN SHAD OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	13	0	13	0	0	0	0
	S.E.	0	0	0	0	N	13	0	13	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	0	0	0	.0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	13	0	13	0	0	0	0
	S.E.	0	0	0	0	N	13	0	13	0	0	0	0
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-37 (CONTINUED).

AMERICAN SHAD OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-37 (CONTINUED).

WEEK BEGINNING MONDAY		AMERICAN SHAD				OLDER			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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
22AUG83	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
05SEP83	ST. CROP	N	0	0	0	N	14	0	14
	S.E.	N	0	0	0	N	14	0	14
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	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
030CT83	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
170CT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	0	0	0	N	14	0	14
	S.E.	N	0	0	0	N	14	0	14
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-37 (CONTINUED).

AMERICAN SHAD YOLDER

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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	66	85	49	200
22AUG83	ST. CROP	N	0	N	0	0	13	0	13
	S.E.	N	0	N	0	0	13	0	13
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	0	N	0	0	14	0	14
	S.E.	N	0	N	0	0	14	0	14
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	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	49	199
030CT83	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	65	85	50	200
170CT83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	0	27	0	27
	S.E.	N	0	N	0	0	19	0	19
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-38
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

AMERICAN SHAD OLDER

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	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. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
	S.E.	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
	S.E.	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-39
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

ATLANTIC TOMCOD POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	43	N	8302	8344	0	0	0	0	0	0	0	0
	S.E.	43	N	7572	7572	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	78	N	0	78	0	0	0	0	32	72	0	103
	S.E.	78	N	0	78	0	0	0	0	32	72	0	78
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	136	0	136	0	0	0	0
	S.E.	0	N	0	0	0	136	0	136	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	121	N	8302	8422	0	136	0	136	32	72	0	103
	S.E.	89	N	7572	7572	0	136	0	136	32	72	0	78
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-39 (CONTINUED).

ATLANTIC TOMCOD POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-39 (CONTINUED).

ATLANTIC TOMCOD POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-39 (CONTINUED).

ATLANTIC TOMCOD POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-39 (CONTINUED).

ATLANTIC TOMCOD POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	43	0	8302	8344
	S.E.	N	0	N	0	43	0	7572	7572
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	110	72	0	182
	S.E.	N	0	N	0	84	72	0	111
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	136	0	136
	S.E.	N	0	N	0	0	136	0	136
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	153	208	8302	8662
	S.E.	N	0	N	0	95	154	7572	7574
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-40
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	376	N	49093	49469	0	0	0	0	0	0	0	0
	S.E.	325	N	46520	46521	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	394	N	0	394	0	737	0	737	184	1238	36	1458
	S.E.	285	N	0	285	0	388	0	388	148	1004	36	1016
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	289	30864	0	31154	92	934	0	1026
	S.E.	0	N	0	0	145	26839	0	26839	64	934	0	937
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	8689	N	0	8689	188	6327	6004	12518	0	2945	46	2992
	S.E.	8120	N	0	8120	188	5164	4909	7128	0	1321	46	1322
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	5966	N	243	6209	0	33540	3267	36807	39	68	0	107
	S.E.	5966	N	243	5971	0	33540	3267	33699	39	68	0	79
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	5089	5089	2383	255	209	2847	53	139	0	193
	S.E.	0	N	5089	5089	2383	188	209	2399	53	110	0	122
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	4221	N	29026	33247	0	19677	4040	23718	0	172	0	172
	S.E.	0	N	23490	23490	0	5100	3748	6329	0	100	0	100
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	33688	N	77	33765	17147	18446	3838	39431	0	6675	162	6837
	S.E.	0	N	77	77	10588	2605	1538	11012	0	2372	162	2378
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	4190	N	0	4190	135	17571	0	17706	43	6667	280	6990
	S.E.	0	N	0	0	135	8093	0	8094	43	2428	280	2445
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	18425	N	881	19306	0	20240	0	20240	0	3113	0	3113
	S.E.	0	N	881	881	0	3914	0	3914	0	633	0	633
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	75949	N	84410	160359	20142	147657	17358	185157	411	21954	524	22888
	S.E.	10086	N	52370	53332	10856	44562	7158	46420	180	3947	329	3965
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-40 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	12	0	0	12	N	0	18	18	0	0	0	0
	S.E.	12	0	0	12	N	0	18	18	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	22	1991	216	2229	N	840	52	893	0	111	0	111
	S.E.	22	1559	197	1571	N	454	29	455	0	86	0	86
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	3021	43	3064	N	1902	683	2585	0	169	0	169
	S.E.	0	1012	43	1013	N	773	274	820	0	84	0	84
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	2741	433	3173	N	3637	75	3712	0	11	0	11
	S.E.	0	1374	364	1421	N	1962	57	1963	0	11	0	11
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	4809	0	4809	N	1515	46	1560	0	371	0	371
	S.E.	0	3081	0	3081	N	733	32	734	0	225	0	225
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	1967	115	2082	N	1762	175	1937	0	111	19	130
	S.E.	0	1142	66	1144	N	451	92	460	0	44	19	48
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	2916	509	3426	N	1133	333	1466	0	93	0	93
	S.E.	0	1050	194	1068	N	359	178	400	0	27	0	27
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	17	4024	230	4271	N	261	1223	1484	0	212	19	232
	S.E.	11	1918	186	1927	N	153	393	422	0	78	19	80
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	16	1426	110	1551	N	5736	2768	8504	0	59	0	59
	S.E.	10	636	63	639	N	1305	639	1453	0	36	0	36
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	66	22895	1655	24617	N	16784	5373	22158	0	1137	39	1175
	S.E.	28	4618	503	4645	N	2692	827	2817	0	275	27	276
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-40 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	62	0	62	N	0	0	0	N	0	0	0
	S.E.	N	31	0	31	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	432	0	432	N	28	0	28	N	0	0	0
	S.E.	N	283	0	283	N	18	0	18	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	46	0	46	N	0	0	0	N	0	0	0
	S.E.	N	46	0	46	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	341	0	341	N	73	0	73	N	0	0	0
	S.E.	N	148	0	148	N	29	0	29	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	391	0	391	N	21	0	21	N	0	0	0
	S.E.	N	317	0	317	N	21	0	21	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	215	0	215	N	0	0	0	N	0	0	0
	S.E.	N	157	0	157	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	59	0	59	N	0	0	0	N	0	0	0
	S.E.	N	39	0	39	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	1546	0	1546	N	122	0	122	N	0	0	0
	S.E.	N	481	0	481	N	40	0	40	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-40 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-40 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	376	0	49093	49469
	S.E.	N	0	N	0	325	0	46520	46521
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	590	1975	53	2619
	S.E.	N	0	N	0	322	1077	40	1124
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	403	34803	268	35474
	S.E.	N	0	N	0	160	26904	199	26905
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	8877	14824	6776	30477
	S.E.	N	0	N	0	8123	5488	4917	10967
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	6005	40043	4018	50066
	S.E.	N	0	N	0	5966	33626	3297	34310
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	2436	7502	5344	15282
	S.E.	N	0	N	0	2383	3186	5093	6463
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	4221	24102	33376	61698
	S.E.	N	0	N	0	0	5257	23787	24361
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	50835	29264	4920	85018
	S.E.	N	0	N	0	10588	3694	1571	11323
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	4386	28950	1752	35088
	S.E.	N	0	N	0	142	8668	518	8684
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	18441	30633	3759	52832
	S.E.	N	0	N	0	10	4223	1090	4361
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	96568	212096	109359	418023
	S.E.	N	0	N	0	14819	45058	52867	71026
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-41
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	121	121	11	58	0	70	0	21	0	21
	S.E.	0	N	121	121	11	40	0	41	0	14	0	14
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	161	N	0	161	318	434	0	752	0	20	0	20
	S.E.	65	N	0	65	126	208	0	243	0	13	0	13
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	147	N	0	147	22	97	0	119	0	11	0	11
	S.E.	67	N	0	67	22	58	0	62	0	11	0	11
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	82	N	0	82	10	107	0	118	0	11	0	11
	S.E.	42	N	0	42	10	56	0	57	0	11	0	11
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	49	N	0	49	0	0	0	0	0	9	0	9
	S.E.	16	N	0	16	0	0	0	0	0	9	0	9
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	19	N	85	104	0	20	0	20	0	0	0	0
	S.E.	19	N	85	87	0	20	0	20	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	457	N	206	663	362	717	0	1078	0	72	0	72
	S.E.	105	N	148	181	129	227	0	261	0	26	0	26
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-41 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	22	53	166	242	N	205	2303	2508	4	185	0	190
	S.E.	22	37	166	172	N	59	1152	1153	4	126	0	127
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	337	0	337	4	0	0	4
	S.E.	0	0	0	0	N	41	0	41	4	0	0	4
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	143	261	404	N	138	158	296	0	33	0	33
	S.E.	0	86	261	275	N	93	158	183	0	33	0	33
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	28	0	28	0	52	0	52
	S.E.	0	0	0	0	N	28	0	28	0	35	0	35
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	0	121	0	121	N	63	0	63	32	177	0	209
	S.E.	0	121	0	121	N	42	0	42	13	68	0	69
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	0	0	0	N	33	0	33	8	383	0	391
	S.E.	0	0	0	0	N	33	0	33	8	174	0	174
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	22	317	427	767	N	804	2461	3265	49	830	0	879
	S.E.	22	153	309	346	N	132	1162	1170	17	230	0	231
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-41 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	38	0	38	N	0	0	0	N	0	0	0
	S.E.	N	38	0	38	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	31	0	31	N	0	0	0	N	0	0	0
	S.E.	N	31	0	31	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	306	0	306	N	26	0	26	N	0	0	0
	S.E.	N	224	0	224	N	16	0	16	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	208	0	208	N	31	0	31	N	29	0	29
	S.E.	N	124	0	124	N	20	0	20	N	0	0	29
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	729	0	729	N	26	0	26	N	0	0	0
	S.E.	N	320	0	320	N	26	0	26	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	1312	0	1312	N	82	0	82	N	29	0	29
	S.E.	N	413	0	413	N	36	0	36	N	0	0	29
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-41 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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
22AUG83	ST. CROP	N	0	0	0	N	13	0	13
	S.E.	N	0	0	0	N	13	0	13
	NO. TOWS	N	12	6	18	N	15	6	21
05SEP83	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
19SEP83	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
030CT83	ST. CROP	N	16	0	16	N	0	0	0
	S.E.	N	16	0	16	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
170CT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	16	0	16	N	13	0	13
	S.E.	N	16	0	16	N	13	0	13
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-42
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AI	COMBINED
01AUG83	ST. CROP	0	4	12	0	0	0	0	0	0	0	0	0	15
	S.E.	0	4	8	0	0	0	0	0	0	0	0	0	9
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	0	6	4	0	0	0	0	0	0	0	0	0	10
	S.E.	0	3	3	0	0	0	0	0	0	0	0	0	4
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	0	8	10	0	0	0	0	0	0	0	0	0	17
	S.E.	0	4	10	0	0	0	0	0	0	0	0	0	10
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	0	8	0	0	0	0	0	0	0	0	0	0	8
	S.E.	0	4	0	0	0	0	0	0	0	0	0	0	4
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	0	13	0	0	0	0	0	0	0	0	0	0	13
	S.E.	0	11	0	0	0	0	0	0	0	0	0	0	11
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	ST. CROP	0	6	0	0	0	0	0	0	0	0	0	0	6
	S.E.	0	4	0	0	0	0	0	0	0	0	0	0	4
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	0	44	25	0	0	0	0	0	0	0	0	0	69
	S.E.	0	14	13	0	0	0	0	0	0	0	0	0	19
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-43
COMBINED STANDING CROP (IN THOUSANDS) OF JUVENILES
IN HUDSON RIVER ESTUARY
DETERMINED BY THE BEACH SEINE AND FALL SHOALS SURVEYS.
ATLANTIC TOMCOD YOUNG-OF-THE-YEAR
AUG 1 - AUG 7

REGION		STRATUM SHORE ZONE	STRATUM SHOAL (10'-20')	STRATUM BOTTOM	STRATUM CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	6909 *	20538 *	355 *	27801
	SE	0	0 *	0 *	355 *	355
TAPPAN ZEE	ST. CROP	4	4 *	10149 *	0 *	10157
	SE	4	4 *	1977 *	0 *	1977
CROTON-HAVERSTRAW	ST. CROP	12	0 *	1567 *	0 *	1578
	SE	8	0 *	324 *	0 *	324
INDIAN POINT	ST. CROP	0	14 *	739 *	138 *	892
	SE	0	12 *	336 *	115 *	356
WEST POINT	ST. CROP	0	203 *	2701 *	2535 *	5438
	SE	0	47 *	620 *	895 *	1090
CORNWALL	ST. CROP	0	2 *	122 *	0 *	124
	SE	0	2 *	81 *	0 *	81
POUGHKEEPSIE	ST. CROP	0	2 *	27 *	0 *	29
	SE	0	1 *	18 *	0 *	18
HYDE PARK	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
KINGSTON	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
SAUGERTIES	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
CATSKILL	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	15	7134 *	35843 *	3028 *	46020
	SE	9	48 *	2125 *	970 *	2337

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

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

TABLE B-43 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

AUG 8 - AUG 14

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	0	0 *	86	86
	SE	0	0	0 *	86	86
TAPPAN ZEE	ST. CROP	4	9	58	0	71
	SE	4	9	40	0	41
CROTON-HAVERSTRAW	ST. CROP	12	0	21	0	32
	SE	8	0	14	0	16
INDIAN POINT	ST. CROP	0	17	53	166	236
	SE	0	17	37	166	171
WEST POINT	ST. CROP	0	14 *	187	2303	2504
	SE	0	4 *	54	1152	1153
CORNWALL	ST. CROP	0	3	185	0	189
	SE	0	3	126	0	127
POUGHKEEPSIE	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
HYDE PARK	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
KINGSTON	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
SAUGERTIES	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
CATSKILL	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	15	43 *	504	2555 *	3117
	SE	9	20 *	148	1167 *	1176

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-43 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

AUG 15 - AUG 21

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	60 *	179 *	43 *	282
	SE	0	24 *	72 *	43 *	87
TAPPAN ZEE	ST. CROP	6	123 *	246 *	0 *	376
	SE	3	52 *	124 *	0 *	134
CROTON-HAVERSTRAW	ST. CROP	4	0 *	21 *	0 *	24
	SE	3	0 *	13 *	0 *	14
INDIAN POINT	ST. CROP	0	8 *	26 *	83 *	118
	SE	0	8 *	18 *	83 *	86
WEST POINT	ST. CROP	0	18 *	246 *	1151 *	1416
	SE	0	3 *	46 *	576 *	578
CORNWALL	ST. CROP	0	3 *	93 *	0 *	96
	SE	0	3 *	63 *	0 *	63
POUGHKEEPSIE	ST. CROP	0	1 *	17 *	0 *	19
	SE	0	1 *	17 *	0 *	17
HYDE PARK	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
KINGSTON	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
SAUGERTIES	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
CATSKILL	ST. CROP	0	2 *	4 *	0 *	6
	SE	0	2 *	4 *	0 *	4
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	10	217 *	832 *	1277 *	2337
	SE	4	58 *	166 *	583 *	609

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-43 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

AUG 22 - AUG 28

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	120	358 *	0	478
	SE	0	49	145 *	0	153
TAPPAN ZEE	ST. CROP	6	238	434	0	678
	SE	3	95	208	0	228
CROTON-HAVERSTRAW	ST. CROP	4	0	20	0	24
	SE	3	0	13	0	13
INDIAN POINT	ST. CROP	0	0	0	0	0
	SE	0	0	0	0	0
WEST POINT	ST. CROP	0	23 *	306	0	329
	SE	0	3 *	37	0	37
CORNWALL	ST. CROP	0	3	0	0	3
	SE	0	3	0	0	3
POUGHKEEPSIE	ST. CROP	0	2 *	35	0	37
	SE	0	2 *	35	0	35
HYDE PARK	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
KINGSTON	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
SAUGERTIES	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
CATSKILL	ST. CROP	0	4 *	7	0	12
	SE	0	4 *	7	0	8
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	10	392 *	1160	0 *	1562
	SE	4	107 *	258	0 *	280

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-43 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

AUG 29 - SEP 4

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	115 *	343 *	0 *	458
	SE	0	49 *	147 *	0 *	155
TAPPAN ZEE	ST. CROP	8	127 *	266 *	0 *	401
	SE	4	56 *	133 *	0 *	144
CROTON-HAVERSTRAW	ST. CROP	10	0 *	16 *	0 *	25
	SE	10	0 *	12 *	0 *	16
INDIAN POINT	ST. CROP	0	0 *	72 *	130 *	202
	SE	0	0 *	43 *	130 *	137
WEST POINT	ST. CROP	0	16 *	216 *	79 *	311
	SE	0	5 *	61 *	79 *	100
CORNWALL	ST. CROP	0	2 *	16 *	0 *	18
	SE	0	2 *	16 *	0 *	16
POUGHKEEPSIE	ST. CROP	0	2 *	31 *	0 *	34
	SE	0	2 *	31 *	0 *	31
HYDE PARK	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
KINGSTON	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
SAUGERTIES	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
CATSKILL	ST. CROP	0	2 *	4 *	0 *	6
	SE	0	2 *	4 *	0 *	4
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	17	265 *	963 *	210 *	1454
	SE	10	74 *	215 *	153 *	274

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-43 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

SEP 5 - SEP 11

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	110	327 *	0	437
	SE	0	50	149 *	0	157
TAPPAN ZEE	ST. CROP	8	16	97	0	121
	SE	4	16	58	0	60
CROTON-HAVERSTRAW	ST. CROP	10	0	11	0	21
	SE	10	0	11	0	15
INDIAN POINT	ST. CROP	0	0	143	261	404
	SE	0	0	86	261	275
WEST POINT	ST. CROP	0	9 *	126	158	293
	SE	0	6 *	84	158	179
CORNWALL	ST. CROP	0	0	33	0	33
	SE	0	0	33	0	33
POUGHKEEPSIE	ST. CROP	0	2 *	28	0	30
	SE	0	2 *	28	0	28
HYDE PARK	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
KINGSTON	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
SAUGERTIES	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
CATSKILL	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	17	138 *	765	419 *	1339
	SE	10	53 *	205	305 *	371

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-43 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

SEP 12 - SEP 18

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	86 *	255 *	0 *	340
	SE	0	41 *	121 *	0 *	128
TAPPAN ZEE	ST. CROP	8	12 *	102 *	0 *	122
	SE	4	12 *	57 *	0 *	58
CROTON-HAVERSTRAW	ST. CROP	0	0 *	11 *	0 *	11
	SE	0	0 *	11 *	0 *	11
INDIAN POINT	ST. CROP	0	0 *	72 *	130 *	202
	SE	0	0 *	43 *	130 *	137
WEST POINT	ST. CROP	0	6 *	76 *	79 *	160
	SE	0	4 *	55 *	79 *	96
CORNWALL	ST. CROP	0	0 *	42 *	0 *	42
	SE	0	0 *	34 *	0 *	34
POUGHKEEPSIE	ST. CROP	0	11 *	154 *	0 *	165
	SE	0	8 *	116 *	0 *	117
HYDE PARK	ST. CROP	0	1 *	12 *	0 *	13
	SE	0	0 *	8 *	0 *	8
KINGSTON	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
SAUGERTIES	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
CATSKILL	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	8	115 *	723 *	210 *	1055
	SE	4	43 *	194 *	153 *	251

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-43 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

SEP 19 - SEP 25

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	61	182 *	0	243
	SE	0	31	93 *	0	99
TAPPAN ZEE	ST. CROP	8	8	107	0	123
	SE	4	8	56	0	57
CROTON-HAVERSTRAW	ST. CROP	0	0	11	0	11
	SE	0	0	11	0	11
INDIAN POINT	ST. CROP	0	0	0	0	0
	SE	0	0	0	0	0
WEST POINT	ST. CROP	0	2 *	26	0	28
	SE	0	2 *	26	0	26
CORNWALL	ST. CROP	0	0	52	0	52
	SE	0	0	35	0	35
POUGHKEEPSIE	ST. CROP	0	20 *	280	0	299
	SE	0	15 *	204	0	205
HYDE PARK	ST. CROP	0	1 *	24	0	25
	SE	0	1 *	15	0	15
KINGSTON	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
SAUGERTIES	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
CATSKILL	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	8	92 *	681	0 *	781
	SE	4	36 *	236	0 *	239

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-43 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

SEP 26 - OCT 2

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	49 *	146 *	0 *	195
	SE	0	22 *	64 *	0 *	68
TAPPAN ZEE	ST. CROP	13	4 *	54 *	0 *	71
	SE	11	4 *	28 *	0 *	30
CROTON-HAVERSTRAW	ST. CROP	0	0 *	10 *	0 *	10
	SE	0	0 *	10 *	0 *	10
INDIAN POINT	ST. CROP	0	0 *	61 *	0 *	61
	SE	0	0 *	61 *	0 *	61
WEST POINT	ST. CROP	0	3 *	41 *	0 *	44
	SE	0	2 *	32 *	0 *	32
CORNWALL	ST. CROP	0	12 *	115 *	0 *	126
	SE	0	5 *	51 *	0 *	51
POUGHKEEPSIE	ST. CROP	0	17 *	235 *	0 *	252
	SE	0	11 *	159 *	0 *	159
HYDE PARK	ST. CROP	0	1 *	26 *	0 *	28
	SE	0	1 *	17 *	0 *	17
KINGSTON	ST. CROP	0	3 *	11 *	0 *	13
	SE	0	3 *	11 *	0 *	11
SAUGERTIES	ST. CROP	0	2 *	5 *	0 *	7
	SE	0	2 *	5 *	0 *	6
CATSKILL	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	13	91 *	703 *	0 *	807
	SE	11	25 *	195 *	0 *	197

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-43 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

OCT 3 - OCT 9

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	37	109 *	0	146
	SE	0	12	35 *	0	37
TAPPAN ZEE	ST. CROP	13	0	0	0	13
	SE	11	0	0	0	11
CROTON-HAVERSTRAW	ST. CROP	0	0	9	0	9
	SE	0	0	9	0	9
INDIAN POINT	ST. CROP	0	0	121	0	121
	SE	0	0	121	0	121
WEST POINT	ST. CROP	0	4 *	57	0	61
	SE	0	3 *	38	0	38
CORNWALL	ST. CROP	0	24	177	0	201
	SE	0	10	68	0	68
POUGHKEEPSIE	ST. CROP	0	14 *	190	0	204
	SE	0	8 *	113	0	113
HYDE PARK	ST. CROP	0	2 *	29	0	30
	SE	0	1 *	18	0	18
KINGSTON	ST. CROP	0	6 *	21	0	27
	SE	0	6 *	21	0	22
SAUGERTIES	ST. CROP	0	4 *	11	0	15
	SE	0	4 *	11	0	12
CATSKILL	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	13	89 *	726	0 *	828
	SE	11	19 *	189	0 *	190

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-43 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

OCT 10 - OCT 16

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	26 *	76 *	30 *	132
	SE	0	13 *	39 *	30 *	51
TAPPAN ZEE	ST. CROP	6	0 *	10 *	0 *	16
	SE	4	0 *	10 *	0 *	11
CROTON-HAVERSTRAW	ST. CROP	0	0 *	5 *	0 *	5
	SE	0	0 *	5 *	0 *	5
INDIAN POINT	ST. CROP	0	0 *	61 *	0 *	61
	SE	0	0 *	61 *	0 *	61
WEST POINT	ST. CROP	0	3 *	43 *	0 *	47
	SE	0	3 *	34 *	0 *	34
CORNWALL	ST. CROP	0	15 *	280 *	0 *	295
	SE	0	8 *	121 *	0 *	121
POUGHKEEPSIE	ST. CROP	0	30 *	428 *	0 *	459
	SE	0	14 *	203 *	0 *	203
HYDE PARK	ST. CROP	0	1 *	26 *	0 *	28
	SE	0	1 *	21 *	0 *	21
KINGSTON	ST. CROP	0	3 *	11 *	0 *	13
	SE	0	3 *	11 *	0 *	11
SAUGERTIES	ST. CROP	0	2 *	5 *	0 *	7
	SE	0	2 *	5 *	0 *	6
CATSKILL	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	6	80 *	945 *	30 *	1061
	SE	4	22 *	251 *	30 *	253

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS=

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-43 (CONTINUED).

ATLANTIC TOMCOD YOUNG-OF-THE-YEAR

OCT 17 - OCT 23

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	14	43 *	60	117
	SE	0	14	43 *	60	75
TAPPAN ZEE	ST. CROP	6	0	20	0	26
	SE	4	0	20	0	20
CROTON-HAVERSTRAW	ST. CROP	0	0	0	0	0
	SE	0	0	0	0	0
INDIAN POINT	ST. CROP	0	0	0	0	0
	SE	0	0	0	0	0
WEST POINT	ST. CROP	0	2 *	30	0	32
	SE	0	2 *	30	0	30
CORNWALL	ST. CROP	0	6	383	0	389
	SE	0	6	174	0	174
POUGHKEEPSIE	ST. CROP	0	47 *	666	0	713
	SE	0	21 *	293	0	293
HYDE PARK	ST. CROP	0	1 *	24	0	25
	SE	0	1 *	24	0	24
KINGSTON	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
SAUGERTIES	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
CATSKILL	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	6	71 *	1165	60 *	1302
	SE	4	26 *	346	60 *	352

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-44
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

ALEWIFE/BLUEBACK HERRING EGGS

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	105	105	0	0	0	0
	S.E.	0	N	0	0	0	0	105	105	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	105	105	0	0	0	0
	S.E.	0	N	0	0	0	0	105	105	0	0	0	0
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-44 (CONTINUED).

ALEWIFE/BLUEBACK HERRING EGGS

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	18	23	41	N	0	0	0	0	0	0	0
	S.E.	0	18	23	29	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	19	19	0	9	0	9
	S.E.	0	0	0	0	N	0	19	19	0	9	0	9
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	465	465	N	0	15	15	5	287	51	343
	S.E.	0	0	443	443	N	0	15	15	5	80	51	95
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	130	130	5	420	0	425
	S.E.	0	0	0	0	N	0	130	130	5	237	0	237
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	399	23	422	0	53	311	364
	S.E.	0	0	0	0	N	377	23	378	0	35	250	252
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	64	0	64
	S.E.	0	0	0	0	N	0	0	0	0	52	0	52
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	68	19	86
	S.E.	0	0	0	0	N	0	0	0	0	39	19	43
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	18	488	506	N	399	187	586	10	901	381	1292
	S.E.	0	18	444	444	N	377	134	401	7	261	256	366
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-44 (CONTINUED).

ALEWIFE/BLUEBACK HERRING EGGS

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	1767	0	1767	N	3087	367	3454	N	1617	1300	2917
	S.E.	N	1767	0	1767	N	1962	285	1983	N	726	726	1537
	NO. TOWS	N	9	10	19	N	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	14266	517	14783	N	36876	830	37706	N	90958	335	91293
	S.E.	N	5435	423	5451	N	30225	472	30228	N	335	335	71619
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	57737	2221	59958	N	72453	3740	76194	N	435763	6290	442053
	S.E.	N	29777	2023	29846	N	49357	2612	49426	N	5629	5629	202532
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	50196	8476	58672	N	21258	8531	29789	N	4856012	64387	4920398
	S.E.	N	19768	4451	20262	N	5973	5575	8170	N	62625	62625	4835699
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	2374	0	2374	N	1261	6015	7276	N	2897	330	3227
	S.E.	N	1521	0	1521	N	692	5656	5698	N	234	234	2320
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	181	0	181	N	728	161	889	N	103725	0	103725
	S.E.	N	119	0	119	N	359	99	372	N	0	0	102283
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	69	42	111	N	0	0	0	N	471	1357	1828
	S.E.	N	69	42	81	N	0	0	0	N	1357	1357	1391
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	126590	11256	137846	N	135663	19643	155307	N	5491443	73999	5565442
	S.E.	N	36227	4908	36558	N	58222	8379	58822	N	62897	62897	4841550
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-44 (CONTINUED).

ALEWIFE/BLUEBACK HERRING EGGS

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	5900	382	6282	N	173	72	245
	S.E.	N	3458	382	3479	N	90	72	115
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	1893154	3779	1896933	N	8140137	47648	8187785
	S.E.	N	1892877	3412	1892880	N	4912898	37088	4913038
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	64089	6920	71009	N	500644	4327	504972
	S.E.	N	32289	2927	32422	N	266686	1226	266689
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	668529	258	668787	N	700461	47786	748247
	S.E.	N	185573	258	185573	N	573067	26303	573671
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	10066	122	10188	N	112331	23860	136190
	S.E.	N	4232	122	4234	N	50062	1900	50098
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	44170	1011	45181	N	391073	3533	394607
	S.E.	N	25761	387	25764	N	197141	1740	197149
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	0	0	0	N	80309	2767	83076
	S.E.	N	0	0	0	N	63688	1935	63718
	NO. TOWS	N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	0	0	0	N	2221	0	2221
	S.E.	N	0	0	0	N	415	0	415
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	ST. CROP	N	0	0	0	N	78	0	78
	S.E.	N	0	0	0	N	78	0	78
	NO. TOWS	N	4	2	6	N	3	3	6
04JUL83	ST. CROP	N	0	0	0	N	89	0	89
	S.E.	N	0	0	0	N	89	0	89
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	2685909	12471	2698379	N	9927516	129994	10057509
	S.E.	N	1902408	4538	1902413	N	4957976	45599	4958185
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-44 (CONTINUED).

ALEWIFE/BLUEBACK HERRING EGGS

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	132437	N	132437	0	144998	2145	147143
	S.E.	N	26228	N	26228	0	26621	872	26635
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	14399	N	14399	0	10189800	53127	10242926
	S.E.	N	12132	N	12132	0	5265527	37252	5265658
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	28718447	N	28718447	5	29849421	24030	29873456
	S.E.	N	9475770	N	9475770	5	9481914	7271	9481916
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	371089	N	371089	5	6667965	129568	6797538
	S.E.	N	266814	N	266814	5	4880012	68299	4880490
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	854060	N	854060	0	983441	30661	1014102
	S.E.	N	339672	N	339672	0	343380	5978	343432
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	51588	N	51588	0	591529	4810	596339
	S.E.	N	24950	N	24950	0	224973	1788	224980
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	181153	N	181153	0	262070	4184	266254
	S.E.	N	146352	N	146352	0	159609	2364	159627
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	25301	N	25301	0	27523	0	27523
	S.E.	N	22291	N	22291	0	22294	0	22294
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	78	0	78
	S.E.	N	0	N	0	0	78	0	78
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	89	0	89
	S.E.	N	0	N	0	0	89	0	89
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	30348476	N	30348476	10	48716913	248524	48965447
	S.E.	N	9486841	N	9486841	7	11901352	78426	11901610
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-45
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

ALEWIFE/BLUEBACK HERRING YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	171	0	0	171	0	0	0	0
	S.E.	0	N	0	0	171	0	0	171	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	37	N	308	345	0	0	149	149	984	36	172	1191
	S.E.	37	N	308	310	0	0	149	149	211	36	102	237
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	167	167	118	42	85	246
	S.E.	0	N	0	0	0	0	167	167	75	42	85	121
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	71	0	0	71
	S.E.	0	N	0	0	0	0	0	0	44	0	0	44
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	124	0	0	124	75	72	73	220
	S.E.	0	N	0	0	124	0	0	124	46	29	73	91
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	93	93
	S.E.	0	N	0	0	0	0	0	0	0	0	54	54
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	30	30
	S.E.	0	N	0	0	0	0	0	0	0	0	30	30
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	37	N	308	345	295	0	316	611	1248	150	453	1852
	S.E.	37	N	308	310	211	0	224	308	233	63	164	292
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-45 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	21	111	132	N	91	1184	1275	782	2566	6473	9821
	S.E.	0	21	67	71	N	63	381	386	316	676	2744	2844
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	930	188	5467	6585	N	331	5898	6230	165	1539	2391	4096
	S.E.	232	77	948	979	N	222	955	980	62	373	627	732
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	84	40	414	539	N	87	1741	1828	115	449	406	969
	S.E.	29	26	146	151	N	28	279	280	50	103	173	208
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	67	80	148	N	18	1623	1640	203	2985	939	4127
	S.E.	0	67	54	87	N	18	449	449	87	1013	365	1080
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	40	114	1723	1877	N	172	1632	1803	83	3001	1828	4912
	S.E.	21	52	398	402	N	133	566	582	31	1023	688	1233
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	10	61	1459	1530	N	126	1782	1908	133	186	1598	1917
	S.E.	10	41	388	390	N	82	448	455	42	95	652	660
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	24	32	56	N	0	62	62	0	10	0	10
	S.E.	0	24	32	40	N	0	46	46	0	10	0	10
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	29	0	29
	S.E.	0	0	0	0	N	0	0	0	0	21	0	21
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	8	0	0	8	N	0	0	0	0	0	0	0
	S.E.	8	0	0	8	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	1072	516	9287	10875	N	824	13922	14746	1481	10765	13635	25881
	S.E.	235	128	1112	1144	N	280	1364	1392	342	1639	2997	3434
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-45 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	1853	5959	7812	N	1745	3052	4797	N	264	1235	1499
	S.E.	N	452	1679	1739	N	380	1160	1220	N	809	809	818
	NO. TOWS	N	9	10	19	N	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	5095	11848	16943	N	3095	7584	10679	N	9366	5884	15250
	S.E.	N	1246	3608	3817	N	1057	2959	3142	N	2225	2225	3653
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	2789	15611	18400	N	7756	9147	16902	N	7540	22778	30318
	S.E.	N	797	6533	6581	N	2191	2769	3531	N	15336	15336	15933
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	25911	26099	52010	N	21046	24836	45882	N	44359	61024	105383
	S.E.	N	10446	8322	13355	N	9768	8015	12635	N	21612	21612	34930
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	7919	3702	11621	N	9703	11941	21643	N	50242	7439	57681
	S.E.	N	2069	831	2229	N	4986	3112	5878	N	3493	3493	17716
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	2414	7040	9455	N	4272	9609	13880	N	36535	2135	38670
	S.E.	N	759	1745	1903	N	2357	4421	5010	N	988	988	28781
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	169	48	217	N	71	1810	1882	N	1614	4078	5692
	S.E.	N	115	48	125	N	49	607	609	N	440	440	759
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	N	24	95	119	N	0	0	0	N	0	53	53
	S.E.	N	24	95	98	N	0	0	0	N	53	53	53
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	39	39	N	0	0	0
	S.E.	N	0	0	0	N	0	39	39	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	46175	70402	116577	N	47688	68018	115705	N	149920	104627	254547
	S.E.	N	10788	11468	15744	N	11484	10565	15605	N	26857	26857	51291
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-45 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	655	0	655	N	0	0	0
	S.E.	N	655	0	655	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	10839	7337	18177	N	8283	5235	13518
	S.E.	N	4756	1974	5150	N	7078	3133	7740
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	42049	27260	69309	N	70578	5118	75696
	S.E.	N	19069	9866	21470	N	27709	2924	27863
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	30066	21053	51119	N	406304	237544	643848
	S.E.	N	6559	16020	17311	N	117819	78396	141517
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	98018	2635	100653	N	324227	206339	530566
	S.E.	N	48816	1618	48843	N	37533	20838	42930
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	24408	16958	41365	N	59159	18394	77553
	S.E.	N	12398	5929	13742	N	46604	6132	47005
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	1032	2281	3313	N	16857	9753	26610
	S.E.	N	489	2281	2333	N	5288	4520	6957
	NO. TOWS	N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	63	0	63	N	493	462	955
	S.E.	N	63	0	63	N	281	327	431
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	ST. CROP	N	0	0	0	N	0	103	103
	S.E.	N	0	0	0	N	0	103	103
	NO. TOWS	N	4	2	6	N	3	3	6
04JUL83	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	207131	77524	284655	N	885901	482949	1368850
	S.E.	N	54467	20021	58031	N	135306	81589	158002
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-45 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	952	7195	18015	26163
	S.E.	N	0	N	0	359	1120	3535	3726
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	6646	N	6646	2116	45419	52274	99809
	S.E.	N	3324	N	3324	322	9748	6540	11743
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	4512	N	4512	317	135843	82727	218887
	S.E.	N	1357	N	1357	95	34020	19789	39357
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	836758	N	836758	274	1367514	373197	1740985
	S.E.	N	357906	N	357906	97	378126	83687	387276
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	88501	N	88501	322	581967	237313	819601
	S.E.	N	39377	N	39377	138	75327	21456	78324
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	186976	N	186976	143	314137	59068	373349
	S.E.	N	65175	N	65175	43	86064	9854	86626
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	75640	N	75640	0	95417	18096	113513
	S.E.	N	40590	N	40590	0	40941	5119	41260
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	6785	N	6785	0	7394	611	8005
	S.E.	N	4999	N	4999	0	5008	345	5020
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	8	0	142	150
	S.E.	N	0	N	0	8	0	110	111
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	1205818	N	1205818	4133	2554888	841443	3400463
	S.E.	N	368212	N	368212	522	398767	89634	408717
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-46
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

ALEWIFE/BLUEBACK HERRING POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	196	N	262	458	683	0	781	1464	6813	148	831	7792
	S.E.	196	N	262	327	162	0	422	452	1610	94	336	1648
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	95	N	0	95	868	64	2725	3657	5757	1832	4451	12040
	S.E.	53	N	0	53	434	64	1762	1816	1820	1761	904	2689
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	230	230	2324	298	835	3457	1214	451	2567	4232
	S.E.	0	N	230	230	568	184	289	663	489	199	2289	2350
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	575	N	4192	4766	25072	696	10167	35935	3837	1496	14555	19888
	S.E.	311	N	3832	3845	24833	375	9895	26734	1374	645	837	1733
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	944	N	26041	26985	2662	818	30068	33549	28791	330	7632	36754
	S.E.	644	N	15887	15900	865	508	12127	12169	11684	118	3246	12127
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	2721	59	3035	5815	42568	6039	294017	342624
	S.E.	0	N	0	0	2301	59	1852	2955	25627	4138	111911	114882
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	82	82	477	888	2736	4101	81069	3666	9966	94701
	S.E.	0	N	82	82	477	413	2475	2554	33600	2389	3364	33853
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	128	0	0	128	45	1430	0	1476
	S.E.	0	N	0	0	128	0	0	128	45	1430	0	1431
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	93	N	0	93	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	1902	N	30806	32708	34934	2824	50347	88105	170094	15392	334020	519506
	S.E.	743	N	16346	16363	24970	782	16059	29699	43935	5335	112039	120464
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-46 (CONTINUED).

ALEWIFE/BLUEBACK HERRING POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	18	18	78	417	1620	2116
	S.E.	0	0	0	0	N	0	18	18	32	91	1025	1029
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	430	499	4845	5774	N	1160	31844	33004	561	2861	2580	6002
	S.E.	166	347	1266	1324	N	592	6352	6380	267	730	560	957
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	1138	3001	27526	31665	N	2812	20721	23532	13131	5208	5801	24139
	S.E.	93	1924	5991	6293	N	1073	3434	3598	6912	2477	1598	7514
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	1414	1767	24549	27730	N	316	7273	7589	4041	2391	16307	22739
	S.E.	699	1134	12590	12660	N	79	2867	2868	2353	542	8905	9226
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	1632	8401	166582	176615	N	40782	302140	342923	48762	15930	232866	297558
	S.E.	839	5643	78911	79117	N	15249	157949	158683	11658	4521	106427	107159
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	15261	39078	579201	633540	N	4743	1052411	1057153	110917	41117	214916	366950
	S.E.	8827	11764	338472	338792	N	1615	417590	417593	89066	26535	73771	118655
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	54894	58288	207198	320380	N	11647	201694	213341	60942	12326	301373	374640
	S.E.	28735	23315	61771	72006	N	6502	53907	54298	37048	2404	84477	92275
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	14153	14044	106013	134209	N	16561	132567	149128	15690	29005	95121	139816
	S.E.	3863	778	18998	19403	N	1781	15060	15165	8023	8507	22417	25283
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	969	1420	7686	10075	N	8883	130707	139590	10473	6252	45932	62657
	S.E.	569	1008	2351	2621	N	1847	32367	32420	1673	1244	8097	8361
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	108	108	N	235	1010	1245	8702	24237	3324	36263
	S.E.	0	0	74	74	N	91	442	451	6720	10483	943	12488
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	89889	126500	1123708	1340097	N	87139	1880384	1967523	273297	139744	919839	1332880
	S.E.	30333	26843	353792	356103	N	16897	451188	451504	98015	30350	156708	187311
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-46 (CONTINUED).

ALEWIFE/BLUEBACK HERRING POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	78	559	638	N	0	0	0	N	0	0	0
	S.E.	N	58	209	217	N	0	0	0	N	0	0	0
	NO. TOWS	N	9	10	19	N	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	1866	4192	6058	N	872	7336	8208	N	581	727	1308
	S.E.	N	481	1236	1326	N	290	4045	4056	N	191	191	318
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	9688	177304	186991	N	6094	9057	15151	N	3696	7128	10824
	S.E.	N	3097	67888	67959	N	2038	2775	3443	N	2377	2377	2730
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	25638	100193	125831	N	5672	50136	55807	N	4593	70549	75142
	S.E.	N	8996	25783	27307	N	2300	12851	13055	N	18440	18440	18539
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	109632	1467639	1577271	N	313571	3029207	3342777	N	521452	2456351	2977803
	S.E.	N	43376	529734	531507	N	78381	1026532	1029520	N	502633	502633	511414
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	103768	927146	1030913	N	55750	429019	484769	N	19226	286777	306003
	S.E.	N	66610	336243	342777	N	19871	182476	183554	N	90105	90105	90384
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	52447	1046239	1098686	N	17747	649768	667515	N	118016	1044360	1162376
	S.E.	N	30197	260012	261760	N	9491	203141	203363	N	510793	510793	511639
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	N	42626	135645	178272	N	24624	203215	227840	N	163545	156619	320164
	S.E.	N	10433	19374	22004	N	3498	38647	38805	N	59936	59936	89816
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	19565	159313	178878	N	42586	75347	117932	N	50066	202272	252338
	S.E.	N	2969	26780	26944	N	15715	15426	22021	N	60903	60903	63606
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	5268	63167	68435	N	14549	50506	65055	N	13645	177911	191556
	S.E.	N	2266	9746	10006	N	7785	21204	22588	N	120824	120824	120909
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	370578	4081396	4451974	N	481465	4503591	4985056	N	894820	4402693	5297513
	S.E.	N	86278	683920	689341	N	83414	1063344	1066611	N	737505	737505	747376
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-46 (CONTINUED).

ALEWIFE/BLUEBACK HERRING POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	62	373	435	N	75	0	75
	S.E.	N	62	373	378	N	75	0	75
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	10368	5718	16086	N	1096	215	1310
	S.E.	N	3439	2642	4337	N	461	112	474
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	16793	26478	43271	N	171	521	691
	S.E.	N	8169	12134	14628	N	171	333	374
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	137769	1870772	2008541	N	222764	135104	357868
	S.E.	N	37557	441054	442650	N	60222	11886	61384
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	13383	331657	345040	N	16793	107875	124668
	S.E.	N	4171	21338	21742	N	10648	42366	43684
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	43554	557740	601294	N	107035	2529059	2636094
	S.E.	N	14979	220546	221054	N	44273	1023094	1024051
	NO. TOWS	N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	276574	536242	812817	N	415312	839533	1254845
	S.E.	N	58857	179446	188852	N	71842	158682	174187
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	ST. CROP	N	97322	149289	246612	N	653080	232639	885720
	S.E.	N	41548	22367	47187	N	131542	61246	145101
	NO. TOWS	N	4	2	6	N	3	3	6
04JUL83	ST. CROP	N	19349	72371	91720	N	54506	1194692	1249198
	S.E.	N	5197	45230	45528	N	34446	762326	763103
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	615173	3550641	4165814	N	1470832	5039639	6510471
	S.E.	N	83357	527756	534298	N	171323	1287916	1299261
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-46 (CONTINUED).

ALEWIFE/BLUEBACK HERRING POST YOLK-SAC LARVAE

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	78	496	2197	2771
	S.E.	N	0	N	0	32	108	1046	1052
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	362	N	362	8682	8487	53770	70939
	S.E.	N	362	N	362	1660	1238	7791	8061
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	48	N	48	20988	43905	260645	325538
	S.E.	N	48	N	48	7162	6456	68435	69111
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	8993	58089	299637	366719
	S.E.	N	0	N	0	2566	12581	39607	41636
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	18373	N	18373	79877	1390866	9689575	11160319
	S.E.	N	10734	N	10734	27482	149558	1350670	1359203
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	8656	N	8656	158576	303661	3992743	4454980
	S.E.	N	5075	N	5075	90269	76707	671954	682316
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	28526	N	28526	161124	455686	6834482	7451292
	S.E.	N	14104	N	14104	53482	69707	1221282	1224438
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	185189	N	185189	111389	1172035	2217740	3501163
	S.E.	N	53484	N	53484	34764	127136	252883	285170
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	189251	N	189251	11615	1069856	1003185	2084656
	S.E.	N	78292	N	78292	1772	160498	100172	189201
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	30393	N	30393	8794	162182	1563089	1734065
	S.E.	N	6385	N	6385	6720	38083	773518	774484
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	460797	N	460797	570116	4665263	25917064	31152443
	S.E.	N	96804	N	96804	114374	276922	2108552	2129732
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-47
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

ALEWIFE/BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	21	21	0	0	0	0
	S.E.	0	0	0	0	N	0	21	21	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	19	19	0	38	133	171
	S.E.	0	0	0	0	N	0	19	19	0	30	80	85
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	24	20	133	176	N	18	252	270	907	5414	647	6968
	S.E.	24	20	83	89	N	18	104	106	463	1528	294	1623
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	24	20	133	176	N	18	292	310	907	5452	779	7139
	S.E.	24	20	83	89	N	18	108	110	463	1528	305	1625
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	415	0	415	N	194	0	194	N	37	0	37
	S.E.	N	263	0	263	N	168	0	168	N	0	0	37
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	3112	7925	11037	N	807	3871	4677	N	0	0	0
	S.E.	N	2817	3864	4782	N	204	1152	1170	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	3527	7925	11452	N	1001	3871	4871	N	37	0	37
	S.E.	N	2829	3864	4789	N	265	1152	1182	N	0	0	37
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	ST. CROP	N	48	0	48	N	793	0	793
	S.E.	N	48	0	48	N	471	0	471
	NO. TOWS	N	4	2	6	N	3	3	6
04JUL83	ST. CROP	N	0	0	0	N	238	95	333
	S.E.	N	0	0	0	N	238	95	256
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	48	0	48	N	1031	95	1126
	S.E.	N	48	0	48	N	528	95	537
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).

ALEWIFE/BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	21	21
	S.E.	N	0	N	0	0	0	21	21
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	143	N	143	0	1667	152	1819
	S.E.	N	72	N	72	0	574	82	580
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	931	9609	12922	23462
	S.E.	N	0	N	0	463	3220	4046	5192
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	143	N	143	931	11276	13095	25302
	S.E.	N	72	N	72	463	3271	4047	5224
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-48
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	425	335	0	760	4558	835	0	5393
	S.E.	0	N	0	0	364	335	0	495	1652	410	0	1702
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	1676	4007	0	5683	179	1058	0	1237
	S.E.	0	N	0	0	418	1546	0	1602	56	523	0	526
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	164	N	186	350	352	663	244	1259	500	375	74	949
	S.E.	86	N	114	143	140	334	164	398	251	165	74	309
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	44	119	0	162	9	106	0	115
	S.E.	0	N	0	0	26	50	0	56	9	61	0	62
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
03OCT83	ST. CROP	128	N	88	216	65	291	164	520	50	261	0	311
	S.E.	54	N	88	103	34	103	84	137	33	138	0	142
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	21	N	0	21	887	1152	39	2078	474	1983	0	2457
	S.E.	21	N	0	21	229	712	39	749	207	629	0	662
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	313	N	274	587	3448	6566	447	10461	5769	4617	74	10461
	S.E.	104	N	144	178	618	1770	188	1885	1685	942	74	1932
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-48 (CONTINUED).

BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	53	1002	333	1388	N	79	193	272	653	3768	0	4421
	S.E.	21	293	333	444	N	59	193	202	536	996	0	1131
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	33	74	0	107	N	156	0	156	282	742	0	1024
	S.E.	19	36	0	41	N	137	0	137	110	455	0	468
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	128	0	128	N	92	0	92	248	233	0	481
	S.E.	0	81	0	81	N	38	0	38	130	213	0	250
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	33	40	0	73	N	182	0	182	7	868	599	1474
	S.E.	16	25	0	30	N	133	0	133	4	406	599	724
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	148	299	0	447	N	257	0	257	257	454	0	711
	S.E.	98	147	0	176	N	190	0	190	80	125	0	148
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
170CT83	ST. CROP	301	2893	0	3194	N	4866	274	5140	2121	8505	136	10762
	S.E.	111	1141	0	1146	N	2086	274	2104	1187	2257	68	2551
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	569	4436	333	5337	N	5632	467	6099	3567	14570	735	18872
	S.E.	151	1191	333	1245	N	2105	335	2131	1316	2554	603	2935
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-48 (CONTINUED).

BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	14604	7110	21713	N	15287	649	15935	N	41461	5708	47170
	S.E.	N	5594	6237	8378	N	4474	345	4487	N	1692	1692	4063
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	7881	3138	11019	N	4383	1275	5658	N	5994	2722	8716
	S.E.	N	1418	754	1606	N	832	88	837	N	652	652	2283
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	2754	0	2754	N	3984	4329	8312	N	11274	5304	16578
	S.E.	N	1361	0	1361	N	890	1958	2151	N	3407	3407	4137
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	7155	1157	8312	N	5325	420	5745	N	18580	93	18673
	S.E.	N	2347	703	2450	N	1624	263	1645	N	63	63	4446
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	8078	3033	11111	N	10314	5033	15347	N	36706	0	36706
	S.E.	N	3559	1910	4039	N	2257	2492	3363	N	0	0	12478
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
170CT83	ST. CROP	N	11058	148	11206	N	32942	144	33087	N	17676	174	17850
	S.E.	N	4915	148	4917	N	11627	84	11627	N	115	115	2560
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	51529	14586	66115	N	72234	11851	84085	N	131692	14001	145693
	S.E.	N	8803	6606	11006	N	12822	3201	13216	N	3862	3862	14862
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-48 (CONTINUED).

WEEK BEGINNING MONDAY		BLUEBACK HERRING				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	50302	6887	57188	N	65603	1839	67442
	S.E.	N	5367	2324	5849	N	8720	999	8777
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	ST. CROP	N	3696	597	4292	N	34738	672	35410
	S.E.	N	1403	597	1524	N	7493	543	7513
	NO. TOWS	N	12	6	18	N	15	6	21
05SEP83	ST. CROP	N	16899	600	17498	N	13537	0	13537
	S.E.	N	3261	272	3272	N	4909	0	4909
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	ST. CROP	N	6476	469	6945	N	9656	2997	12653
	S.E.	N	2131	191	2139	N	3153	2997	4350
	NO. TOWS	N	12	6	18	N	15	6	21
030CT83	ST. CROP	N	36942	2232	39174	N	19266	32	19297
	S.E.	N	7280	1439	7421	N	5950	32	5951
	NO. TOWS	N	12	6	18	N	15	6	21
170CT83	ST. CROP	N	16521	1026	17547	N	13226	131	13357
	S.E.	N	2071	740	2199	N	2588	131	2591
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	130834	11810	142645	N	156027	5671	161697
	S.E.	N	10160	2912	10569	N	14433	3208	14786
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-48 (CONTINUED).

WEEK BEGINNING MONDAY		BLUEBACK HERRING				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	74334	N	74334	5689	267608	22718	296015
	S.E.	N	26871	N	26871	1775	29886	6959	30737
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	ST. CROP	N	21628	N	21628	2171	84355	8405	94930
	S.E.	N	4879	N	4879	437	9607	1285	9703
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	34106	N	34106	1263	84045	10736	96044
	S.E.	N	11092	N	11092	327	12889	3944	13483
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	ST. CROP	N	22	N	22	93	48528	5736	54356
	S.E.	N	22	N	22	32	6525	3154	7248
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	ST. CROP	N	0	N	0	647	112868	10582	124098
	S.E.	N	0	N	0	145	16186	3456	16551
	NO. TOWS	N	8	N	8	65	85	50	200
170CT83	ST. CROP	N	3721	N	3721	3804	114544	2071	120419
	S.E.	N	1045	N	1045	1232	13770	829	13850
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	133810	N	133810	13667	711948	60248	785863
	S.E.	N	29495	N	29495	2233	40568	9392	41701
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-49
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

BLUEBACK HERRING YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS											
		YK	TZ	CH	TP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	ST. CROP	5	318	319	240	557	1209	949	1847	5141	3416	3479	4499	21976
	S.E.	3	168	146	112	267	564	396	1070	4280	1182	1941	1289	5186
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	0	0	75	41	320	905	9245	877	634	4200	7306	1035	24637
	S.E.	0	0	38	32	267	413	8703	831	387	1817	3577	585	9657
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	2	4	106	0	230	951	2658	2248	4752	7272	952	2310	21484
	S.E.	2	4	106	0	129	409	1620	1190	3191	3248	417	1001	5113
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	2	27	2	0	3118	366	2783	26	4466	2598	1428	444	15260
	S.E.	2	16	2	0	3074	109	2522	10	3962	1026	765	202	5762
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	0	0	0	0	201	543	862	1193	1524	2253	437	1209	8222
	S.E.	0	0	0	0	129	359	400	859	448	1551	212	585	2009
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	ST. CROP	0	2	0	4	727	387	1078	193	3415	252	197	116	6371
	S.E.	0	2	0	4	710	229	1039	141	1252	215	126	51	1814
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	8	350	501	284	5154	4362	17575	6383	19932	19990	13798	9614	97950
	S.E.	4	169	184	116	3182	921	9281	2003	6790	4331	4169	1841	13668
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-50
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

BLUEBACK HERRING YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	33	33
	S.E.	0	N	0	0	0	0	0	0	0	0	33	33
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	77	77	0	0	0	0	0	0	0	0
	S.E.	0	N	77	77	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	72	72	129	0	0	129	0	21	0	21
	S.E.	0	N	72	72	129	0	0	129	0	21	0	21
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	44	0	0	44
	S.E.	0	N	0	0	0	0	0	0	44	0	0	44
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	149	149	129	0	0	129	44	21	33	97
	S.E.	0	N	106	106	129	0	0	129	44	21	33	58
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-50 (CONTINUED).

BLUEBACK HERRING YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	87	87	N	0	42	42	10	0	0	10
	S.E.	0	0	52	52	N	0	29	29	6	0	0	6
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	15	0	0	15
	S.E.	0	0	0	0	N	0	0	0	15	0	0	15
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	10	0	0	10
	S.E.	0	0	0	0	N	0	0	0	10	0	0	10
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	6	0	0	6
	S.E.	0	0	0	0	N	0	0	0	6	0	0	6
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	7	0	0	7	N	0	0	0	0	0	0	0
	S.E.	7	0	0	7	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	27	27	N	0	0	0	0	0	0	0
	S.E.	0	0	27	27	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	7	0	115	122	N	0	42	42	41	0	0	41
	S.E.	7	0	58	59	N	0	29	29	20	0	0	20
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-50 (CONTINUED).

BLUEBACK HERRING YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	41	41	N	0	0	0
	S.E.	N	0	0	0	N	0	41	41	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	N	25	0	25	N	20	0	20	N	0	0	0
	S.E.	N	25	0	25	N	20	0	20	N	0	0	0
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	25	0	25	N	20	41	61	N	0	0	0
	S.E.	N	25	0	25	N	20	41	46	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-50 (CONTINUED).

BLUEBACK HERRING — YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	82	0	82
	S.E.	N	0	0	0	N	82	0	82
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	82	0	82
	S.E.	N	0	0	0	N	82	0	82
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-50 (CONTINUED).

BLUEBACK HERRING YEARLING

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	33	33
	S.E.	N	0	N	0	0	0	33	33
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	10	0	129	139
	S.E.	N	0	N	0	6	0	59	60
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	15	0	0	15
	S.E.	N	0	N	0	15	0	0	15
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	10	82	0	92
	S.E.	N	0	N	0	10	82	0	82
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	6	0	0	6
	S.E.	N	0	N	0	6	0	0	6
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	7	0	118	125
	S.E.	N	0	N	0	7	0	87	88
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	129	65	72	266
	S.E.	N	0	N	0	129	38	72	152
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	44	0	27	71
	S.E.	N	0	N	0	44	0	27	51
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	220	147	380	746
	S.E.	N	0	N	0	137	90	135	212
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-51
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

BLUEBACK HERRING — YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	37	N	0	37	0	306	0	306	0	0	0	0
	S.E.	37	N	0	37	0	306	0	306	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	37	N	0	37	0	306	0	306	0	0	0	0
	S.E.	37	N	0	37	0	306	0	306	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-51 (CONTINUED).

BLUEBACK HERRING YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	12	0	0	12	N	0	0	0	0	0	0	0
	S.E.	12	0	0	12	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
170CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	12	0	0	12	N	0	0	0	0	0	0	0
	S.E.	12	0	0	12	N	0	0	0	0	0	0	0
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-51 (CONTINUED).

BLUEBACK HERRING YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	202	202	N	0	0	0	N	0	0	0
	S.E.	N	0	202	202	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	202	202	N	0	0	0	N	0	0	0
	S.E.	N	0	202	202	N	0	0	0	N	0	0	0
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-51 (CONTINUED).

BLUEBACK HERRING — YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	15	0	15	N	0	0	0
	S.E.	N	15	0	15	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	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
05SEP83	ST. CROP	N	0	0	0	N	33	0	33
	S.E.	N	0	0	0	N	23	0	23
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	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
03OCT83	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
17OCT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	15	0	15	N	33	0	33
	S.E.	N	15	0	15	N	23	0	23
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-51 (CONTINUED).

BLUEBACK HERRING YEARLING

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	21	N	21	0	36	0	36
	S.E.	N	21	N	21	0	26	0	26
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	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	87	49	200
05SEP83	ST. CROP	N	86	N	86	0	119	0	119
	S.E.	N	64	N	64	0	68	0	68
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	ST. CROP	N	0	N	0	12	0	202	214
	S.E.	N	0	N	0	12	0	202	203
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	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	65	85	50	200
170CT83	ST. CROP	N	0	N	0	37	306	0	343
	S.E.	N	0	N	0	37	306	0	308
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	107	N	107	49	461	202	712
	S.E.	N	67	N	67	39	314	202	376
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-52
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

BLUEBACK HERRING YEARLING

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
	S.E.	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	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. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	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. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
	S.E.	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-53
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

BLUEBACK HERRING — OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	35	N	0	35	0	47	0	47	0	0	0	0
	S.E.	35	N	0	35	0	47	0	47	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	16	0	16
	S.E.	0	N	0	0	0	0	0	0	0	16	0	16
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	35	N	0	35	0	47	0	47	0	16	0	16
	S.E.	35	N	0	35	0	47	0	47	0	16	0	16
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-53 (CONTINUED).

BLUEBACK HERRING OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	44	0	52	96	N	0	43	43	0	0	0	0
	S.E.	1	0	36	36	N	0	30	30	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	14	43	58	N	0	0	0	0	0	0	0
	S.E.	0	14	30	33	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	21	21	N	16	0	16	0	36	0	36
	S.E.	0	0	21	21	N	16	0	16	0	36	0	36
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	185	185	N	0	0	0	0	0	0	0
	S.E.	0	0	144	144	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	35	35	N	0	0	0	0	0	0	0
	S.E.	0	0	35	35	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	10	0	0	10	N	0	0	0	0	0	0	0
	S.E.	10	0	0	10	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	54	14	335	403	N	16	43	58	0	36	0	36
	S.E.	10	14	157	158	N	16	30	33	0	36	0	36
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-53 (CONTINUED).

BLUEBACK HERRING OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	12	0	12	N	75	0	75
	S.E.	N	0	0	0	N	12	0	12	N	0	0	75
	NO. TOWS	N	9	10	19	N	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	10	0	10	N	0	0	0
	S.E.	N	0	0	0	N	10	0	10	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	82	0	82
	S.E.	N	0	0	0	N	0	0	0	N	0	0	59
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	26	0	26	N	0	0	0	N	0	0	0
	S.E.	N	18	0	18	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	37	0	37	N	0	0	0	N	0	0	0
	S.E.	N	37	0	37	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	63	0	63	N	22	0	22	N	157	0	157
	S.E.	N	41	0	41	N	16	0	16	N	0	0	95
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-53 (CONTINUED).

BLUEBACK HERRING — OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	75	0	75
	S.E.	N	0	0	0	N	75	0	75
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	81	0	81
	S.E.	N	0	0	0	N	81	0	81
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	144	0	144	N	0	0	0
	S.E.	N	103	0	103	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	625	0	625	N	0	0	0
	S.E.	N	577	0	577	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	251	0	251	N	0	0	0
	S.E.	N	175	0	175	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	60	0	60	N	0	0	0
	S.E.	N	60	0	60	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	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	1080	0	1080	N	156	0	156
	S.E.	N	615	0	615	N	110	0	110
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-53 (CONTINUED).

BLUEBACK HERRING — OLDER

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	80	134	94	307
	S.E.	N	0	N	0	35	89	46	107
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	276	N	276	0	377	43	420
	S.E.	N	175	N	175	0	191	30	194
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	214	21	235
	S.E.	N	0	N	0	0	108	21	109
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	77	N	77	0	247	185	431
	S.E.	N	77	N	77	0	130	144	194
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	625	35	660
	S.E.	N	0	N	0	0	577	35	578
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	251	0	251
	S.E.	N	0	N	0	0	175	0	175
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	10	60	0	70
	S.E.	N	0	N	0	10	60	0	61
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	16	0	16
	S.E.	N	0	N	0	0	16	0	16
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	37	0	37
	S.E.	N	0	N	0	0	37	0	37
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	353	N	353	89	1961	378	2427
	S.E.	N	191	N	191	36	665	160	685
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-54
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

BLUEBACK HERRING OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	0	N	0	0	11	0	0	11	0	0	0	0
	S.E.	0	N	0	0	11	0	0	11	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	0	0	11	0	0	11	0	0	0	0
	S.E.	0	N	0	0	11	0	0	11	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

BLUEBACK HERRING OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
03OCT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	15	0	15	N	0	0	0	0	0	0	0
	S.E.	0	15	0	15	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	15	0	15	N	0	0	0	0	0	0	0
	S.E.	0	15	0	15	N	0	0	0	0	0	0	0
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

BLUEBACK HERRING OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

BLUEBACK HERRING — OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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
22AUG83	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
05SEP83	ST. CROP	N	0	0	0	N	13	0	13
	S.E.	N	0	0	0	N	13	0	13
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	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
03OCT83	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
17OCT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	0	0	0	N	13	0	13
	S.E.	N	0	0	0	N	13	0	13
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

BLUEBACK HERRING OLDER

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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	66	85	49	200
22AUG83	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	87	49	200
05SEP83	ST. CROP	N	0	N	0	0	13	0	13
	S.E.	N	0	N	0	0	13	0	13
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	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	49	199
030CT83	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	65	85	50	200
170CT83	ST. CROP	N	0	N	0	11	15	0	26
	S.E.	N	0	N	0	11	15	0	19
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	11	29	0	39
	S.E.	N	0	N	0	11	20	0	23
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-55
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

ALEWIFE

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	29	0	0	29	133	9	0	143
	S.E.	0	N	0	0	16	0	0	16	75	9	0	75
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	8	41	0	49
	S.E.	0	N	0	0	0	0	0	0	8	21	0	23
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	1434	N	0	1434	0	0	0	0	0	0	0	0
	S.E.	1434	N	0	1434	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	23	N	0	23	10	0	0	10	10	63	0	73
	S.E.	15	N	0	15	10	0	0	10	10	52	0	53
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
03OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	33	0	33
	S.E.	0	N	0	0	0	0	0	0	0	22	0	22
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	11	N	0	11	45	16	0	60	0	93	0	93
	S.E.	11	N	0	11	22	16	0	27	0	67	0	67
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	1468	N	0	1468	84	16	0	100	151	239	0	391
	S.E.	1434	N	0	1434	29	16	0	33	76	90	0	118
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

YOUNG-OF-THE-YEAR

TABLE B-55 (CONTINUED).

ALEWIFE YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	6	0	166	172	N	0	0	0	34	0	0	34
	S.E.	6	0	166	166	N	0	0	0	17	0	0	17
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	5	18	0	23	N	0	0	0	59	86	0	145
	S.E.	5	18	0	19	N	0	0	0	35	86	0	93
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	15	0	15	4	17	0	20
	S.E.	0	0	0	0	N	15	0	15	4	17	0	17
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	7	0	0	7	N	26	0	26	7	17	0	24
	S.E.	7	0	0	7	N	26	0	26	5	17	0	18
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	67	0	0	67	N	15	0	15	35	0	0	35
	S.E.	60	0	0	60	N	15	0	15	26	0	0	26
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
170CT83	ST. CROP	5	14	0	19	N	66	0	66	261	20	0	281
	S.E.	5	14	0	15	N	66	0	66	256	20	0	257
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	90	32	166	289	N	122	0	122	401	140	0	540
	S.E.	61	23	166	179	N	74	0	74	260	91	0	276
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-55 (CONTINUED).

ALEWIFE YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	451	477	928	N	398	0	398	N	888	71	959
	S.E.	N	242	477	535	N	149	0	149	N	45	45	191
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	309	0	309	N	122	0	122	N	444	33	477
	S.E.	N	223	0	223	N	55	0	55	N	33	33	224
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	141	0	141	N	58	87	145	N	565	301	867
	S.E.	N	107	0	107	N	27	87	91	N	301	301	361
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	92	0	92	N	77	65	143	N	95	0	95
	S.E.	N	59	0	59	N	41	65	77	N	0	0	39
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	187	0	187	N	46	250	296	N	1377	0	1377
	S.E.	N	83	0	83	N	21	250	251	N	0	0	634
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
170CT83	ST. CROP	N	32	0	32	N	207	0	207	N	375	0	375
	S.E.	N	32	0	32	N	93	0	93	N	0	0	69
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	1212	477	1690	N	908	402	1310	N	3745	405	4150
	S.E.	N	362	477	599	N	192	272	333	N	307	307	791
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-55 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE YOUNG-OF-THE-YEAR							
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	763	259	1022	N	657	0	657
	S.E.	N	191	193	272	N	170	0	170
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	ST. CROP	N	292	119	411	N	1179	140	1319
	S.E.	N	114	119	165	N	403	140	427
	NO. TOWS	N	12	6	18	N	15	6	21
05SEP83	ST. CROP	N	241	0	241	N	157	0	157
	S.E.	N	164	0	164	N	63	0	63
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	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
030CT83	ST. CROP	N	1054	81	1135	N	87	0	87
	S.E.	N	239	81	252	N	63	0	63
	NO. TOWS	N	12	6	18	N	15	6	21
170CT83	ST. CROP	N	208	46	254	N	88	0	88
	S.E.	N	45	46	64	N	36	0	36
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	2557	505	3062	N	2168	140	2308
	S.E.	N	368	245	442	N	448	140	470
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-55 (CONTINUED).

ALEWIFE YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	1462	N	1462	202	4629	973	5804
	S.E.	N	546	N	546	78	692	543	883
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	ST. CROP	N	510	N	510	72	3000	293	3365
	S.E.	N	260	N	260	37	594	187	624
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	319	N	319	1438	1514	388	3340
	S.E.	N	134	N	134	1434	318	314	1502
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	ST. CROP	N	0	N	0	58	370	65	494
	S.E.	N	0	N	0	22	102	65	123
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	ST. CROP	N	0	N	0	102	2798	331	3231
	S.E.	N	0	N	0	66	687	263	738
	NO. TOWS	N	8	N	8	65	85	50	200
170CT83	ST. CROP	N	0	N	0	322	1119	46	1486
	S.E.	N	0	N	0	257	165	46	309
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	2291	N	2291	2194	13430	2096	17720
	S.E.	N	619	N	619	1461	1201	710	2020
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-56
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

ALEWIFE YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	ST. CROP	0	9	0	44	62	12	3	3	10	98	49	0	291
	S.E.	0	8	0	32	58	12	2	2	7	46	30	0	88
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	0	0	0	0	22	12	6	22	7	23	10	2	104
	S.E.	0	0	0	0	9	12	6	18	7	12	8	2	29
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	2	0	44	24	3	7	4	4	0	281	4	0	373
	S.E.	2	0	44	24	3	7	4	2	0	197	4	0	204
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	0	4	0	0	4	20	24	9	84	86	28	16	273
	S.E.	0	3	0	0	4	20	21	9	41	35	24	16	68
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	0	0	0	0	12	2	20	9	14	103	16	4	179
	S.E.	0	0	0	0	6	2	20	5	7	84	12	4	88
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	ST. CROP	0	0	0	5	2	0	6	2	9	37	8	0	68
	S.E.	0	0	0	5	1	0	6	1	5	37	5	0	39
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	2	13	44	73	104	53	62	50	124	628	114	21	1289
	S.E.	2	8	44	41	60	27	30	21	43	225	41	16	253
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-57
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

ALEWIFE YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	71	0	0	71
	S.E.	0	N	0	0	0	0	0	0	71	0	0	71
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	24	N	0	24	119	0	0	119	47	0	0	47
	S.E.	24	N	0	24	119	0	0	119	47	0	0	47
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	73	73	0	0	0	0
	S.E.	0	N	0	0	0	0	73	73	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	20	0	20
	S.E.	0	N	0	0	0	0	0	0	0	20	0	20
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	24	N	0	24	119	0	73	192	118	20	0	138
	S.E.	24	N	0	24	119	0	73	140	85	20	0	88
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-57 (CONTINUED).

ALEWIFE YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	22	0	68	90	N	0	39	39	0	0	0	0
	S.E.	22	0	50	55	N	0	27	27	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	81	81	N	0	0	0	0	0	0	0
	S.E.	0	0	81	81	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	18	0	18	6	0	0	6
	S.E.	0	0	0	0	N	18	0	18	6	0	0	6
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	12	0	12	0	0	0	0
	S.E.	0	0	0	0	N	12	0	12	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	22	0	148	171	N	30	39	69	6	0	0	6
	S.E.	22	0	95	97	N	22	27	35	6	0	0	6
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-57 (CONTINUED).

ALEWIFE YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	30	0	30
	S.E.	N	0	0	0	N	0	0	0	N	0	0	30
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	30	0	30
	S.E.	N	0	0	0	N	0	0	0	N	0	0	30
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-57 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE YEARLING							
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	162	0	162
	S.E.	N	0	0	0	N	162	0	162
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	162	0	162
	S.E.	N	0	0	0	N	162	0	162
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-57 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE YEARLING							
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	94	0	107	200
	S.E.	N	0	N	0	75	0	57	94
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	0	81	81
	S.E.	N	0	N	0	0	0	81	81
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	196	18	0	214
	S.E.	N	0	N	0	130	18	0	132
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	204	73	277
	S.E.	N	0	N	0	0	165	73	181
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	20	0	20
	S.E.	N	0	N	0	0	20	0	20
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	289	242	260	792
	S.E.	N	0	N	0	150	168	123	256
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-58
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

WEEK BEGINNING MONDAY		ALEWIFE				YEARLING							
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	10	N	0	10	0	0	0	0	0	0	0	0
	S.E.	10	N	0	10	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	18	N	0	18	0	31	0	31	0	0	0	0
	S.E.	18	N	0	18	0	31	0	31	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	28	N	0	28	0	31	0	31	0	0	0	0
	S.E.	21	N	0	21	0	31	0	31	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-58 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE YEARLING											
		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	15	0	15
	S.E.	0	0	0	0	N	0	0	0	0	15	0	15
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	15	0	15	0	0	0	0
	S.E.	0	0	0	0	N	15	0	15	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
03OCT83	ST. CROP	5	0	0	5	N	0	0	0	0	31	0	31
	S.E.	5	0	0	5	N	0	0	0	0	20	0	20
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	14	0	14	N	0	0	0	0	0	0	0
	S.E.	0	14	0	14	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	5	14	0	19	N	15	0	15	0	46	0	46
	S.E.	5	14	0	15	N	15	0	15	0	25	0	25
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-58 (CONTINUED).

ALEWIFE YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	38	0	38	N	31	0	31	N	50	0	50
	S.E.	N	38	0	38	N	20	0	20	N	0	0	28
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
170CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	38	0	38	N	31	0	31	N	50	0	50
	S.E.	N	38	0	38	N	20	0	20	N	0	0	28
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-58 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE				YEARLING			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	12	0	12	N	39	30	68
	S.E.	N	12	0	12	N	21	30	36
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	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
05SEP83	ST. CROP	N	71	0	71	N	20	0	20
	S.E.	N	59	0	59	N	20	0	20
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	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
03OCT83	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
17OCT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	84	0	84	N	59	30	88
	S.E.	N	60	0	60	N	29	30	41
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-58 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE				YEARLING			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	N	0	0	185	30	214
	S.E.	N	0	N	0	0	58	30	65
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	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	87	49	200
05SEP83	ST. CROP	N	22	N	22	10	113	0	123
	S.E.	N	22	N	22	10	66	0	67
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	ST. CROP	N	0	N	0	0	15	0	15
	S.E.	N	0	N	0	0	15	0	15
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	ST. CROP	N	0	N	0	5	31	0	36
	S.E.	N	0	N	0	5	20	0	21
	NO. TOWS	N	8	N	8	65	85	50	200
170CT83	ST. CROP	N	0	N	0	18	45	0	63
	S.E.	N	0	N	0	18	34	0	38
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	22	N	22	33	389	30	452
	S.E.	N	22	N	22	21	98	30	104
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-59
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

ALEWIFE YEARLING

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
	S.E.	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	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. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	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. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
	S.E.	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-60
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

ALEWIFE

OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	94	0	94	0	0	0	0
	S.E.	0	N	0	0	0	94	0	94	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	94	0	94	0	0	0	0
	S.E.	0	N	0	0	0	94	0	94	0	0	0	0
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-60 (CONTINUED).

ALEWIFE OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	10	0	10	0	0	0	0
	S.E.	0	0	0	0	N	10	0	10	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	0	0	N	10	0	10	0	0	0	0
	S.E.	0	0	0	0	N	10	0	10	0	0	0	0
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-60 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE				OLDER							
		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-60 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE				OLDER			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-60 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE				OLDER			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	94	0	94
	S.E.	N	0	N	0	0	94	0	94
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	10	0	10
	S.E.	N	0	N	0	0	10	0	10
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	0	104	0	104
	S.E.	N	0	N	0	0	95	0	95
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-61
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

ALEWIFE

OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-61 (CONTINUED).

ALEWIFE — OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
03OCT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-61 (CONTINUED).

ALEWIFE — OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
170CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-61 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE				OLDER			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	17	0	17	N	0	0	0
	S.E.	N	17	0	17	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	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
05SEP83	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
19SEP83	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
03OCT83	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
17OCT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	17	0	17	N	0	0	0
	S.E.	N	17	0	17	N	0	0	0
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-61 (CONTINUED).

WEEK BEGINNING MONDAY		ALEWIFE				OLDER			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	N	0	0	17	0	17
	S.E.	N	0	N	0	0	17	0	17
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	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	87	49	200
05SEP83	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	63	87	49	199
19SEP83	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	49	199
03OCT83	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	65	85	50	200
17OCT83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	0	17	0	17
	S.E.	N	0	N	0	0	17	0	17
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-62
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

ALEWIFE

OLDER

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AI	COMBINED
01AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	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. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	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. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	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. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-63
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

BAY ANCHOVY — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	6785	N	29528	36313	38021	3672	19660	61354	38769	4852	3587	47208
	S.E.	2060	N	21321	21420	10068	2174	15155	18324	10552	1814	1798	10857
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	4244	N	7753	11997	42699	94296	53380	190375	39982	46658	15601	102240
	S.E.	1238	N	2501	2790	7068	22550	16715	28946	5059	8268	8865	13136
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	14355	N	43742	58097	127157	110145	233499	470801	56797	49115	68879	174792
	S.E.	3318	N	13134	13547	14741	18643	103573	106265	10532	14277	6074	18752
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	6470	N	6803	13273	118377	19227	18071	155674	31018	44711	4508	80237
	S.E.	3100	N	3036	4339	32303	7008	3003	33191	7661	14723	2634	16804
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
03OCT83	ST. CROP	4605	N	20098	24704	78731	26197	55034	159961	29441	26921	19631	75993
	S.E.	959	N	1947	2170	12356	13012	12460	21845	4636	9518	12000	16002
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	2533	N	27070	29603	20987	9082	1694	31763	21295	13837	1455	36586
	S.E.	1419	N	10464	10560	2580	3559	898	4487	5670	4279	940	7165
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	38991	N	134995	173986	425972	262619	381337	1069928	217302	186094	113661	517057
	S.E.	5415	N	27493	28021	39641	33044	106778	118596	18979	24518	16448	35098
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-63 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	1166	3247	72670	77083	N	5281	7409	12690	2325	11282	1404	15010
	S.E.	473	1352	42051	42076	N	2090	3603	4165	651	2667	692	2832
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	523	3064	7860	11447	N	3118	1936	5054	2237	4480	2200	8917
	S.E.	176	1504	7404	7557	N	920	1936	2144	791	1961	981	2331
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	881	1527	6832	9240	N	4492	24667	29159	895	3287	4842	9024
	S.E.	337	679	3839	3913	N	1068	18262	18293	416	3121	3078	4404
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	3709	6571	446	10726	N	2241	1565	3807	672	5104	6911	12687
	S.E.	1799	4787	446	5134	N	1883	1565	2448	142	2228	6911	7262
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	173	2924	2842	5939	N	1012	3593	4605	2465	9232	9614	21311
	S.E.	71	1044	1788	2072	N	818	837	1170	308	1821	5064	5390
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
170CT83	ST. CROP	219	16682	2057	18959	N	3604	0	3604	20155	10563	4449	35167
	S.E.	58	10324	2057	10527	N	1820	0	1820	14399	2595	1710	14731
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	6671	34015	92708	133394	N	19748	39171	58919	28749	43949	29418	102116
	S.E.	1901	11625	42959	44545	N	3725	18799	19164	14446	5976	9340	18211
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-63 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	787	159	946	N	157	195	352	N	1423	8061	9483
	S.E.	N	749	159	765	N	29	123	126	N	5044	5044	5061
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	4643	0	4643	N	0	0	0	N	43	0	43
	S.E.	N	2000	0	2000	N	0	0	0	N	0	0	43
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	20719	19726	40445	N	0	0	0	N	1071	2455	3526
	S.E.	N	5644	10809	12194	N	0	0	0	N	2455	2455	2482
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	22458	45256	67714	N	1030	2918	3948	N	203	918	1121
	S.E.	N	10764	25793	27949	N	295	2053	2074	N	577	577	580
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	19308	22964	42272	N	735	2358	3093	N	13226	2121	15347
	S.E.	N	10493	10283	14692	N	162	367	401	N	595	595	12821
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
170CT83	ST. CROP	N	10340	3846	14186	N	735	867	1602	N	277	232	508
	S.E.	N	4611	3846	6004	N	735	502	890	N	193	193	206
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	78256	91950	170206	N	2656	6338	8995	N	16243	13787	30029
	S.E.	N	16842	30044	34443	N	809	2148	2296	N	5674	5674	14019
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-63 (CONTINUED).

BAY ANCHOVY — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	1595	1541	3135	N	888	405	1293
	S.E.	N	395	559	685	N	215	214	303
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	ST. CROP	N	40	0	40	N	0	1750	1750
	S.E.	N	29	0	29	N	0	1750	1750
	NO. TOWS	N	12	6	18	N	15	6	21
05SEP83	ST. CROP	N	12	0	12	N	131	0	131
	S.E.	N	12	0	12	N	69	0	69
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	ST. CROP	N	339	1201	1540	N	696	0	696
	S.E.	N	204	759	786	N	279	0	279
	NO. TOWS	N	12	6	18	N	15	6	21
030CT83	ST. CROP	N	0	957	957	N	248	126	375
	S.E.	N	0	617	617	N	76	63	99
	NO. TOWS	N	12	6	18	N	15	6	21
170CT83	ST. CROP	N	135	0	135	N	162	0	162
	S.E.	N	61	0	61	N	85	0	85
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	2120	3699	5819	N	2126	2281	4407
	S.E.	N	450	1127	1213	N	377	1764	1804
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-63 (CONTINUED).

BAY ANCHOVY — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	41	N	41	87065	33224	144619	264909
	S.E.	N	27	N	27	14752	4718	49951	52297
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	ST. CROP	N	0	N	0	89685	156343	90480	336507
	S.E.	N	0	N	0	8817	24245	20660	33051
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	0	N	0	200085	190500	404641	795227
	S.E.	N	0	N	0	18426	24387	106852	111138
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	ST. CROP	N	44	N	44	160245	102624	88597	351466
	S.E.	N	44	N	44	33392	20332	27312	47691
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	ST. CROP	N	0	N	0	115415	99803	139338	354557
	S.E.	N	0	N	0	13235	23219	20957	33963
	NO. TOWS	N	8	N	8	65	85	50	200
170CT83	ST. CROP	N	0	N	0	65189	65416	41670	172275
	S.E.	N	0	N	0	15753	13016	11551	23474
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	84	N	84	717686	647911	909345	2274941
	S.E.	N	51	N	51	46618	48237	125132	141979
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-64
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

BAY ANCHOVY YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AI	COMBINED
01AUG83	ST. CROP	93	32	0	0	0	0	0	0	0	0	0	0	126
	S.E.	50	18	0	0	0	0	0	0	0	0	0	0	53
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	0	8	2	0	0	0	0	0	0	0	0	0	9
	S.E.	0	8	2	0	0	0	0	0	0	0	0	0	8
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	2	1568	0	0	6	0	0	0	0	0	0	0	1575
	S.E.	2	1437	0	0	6	0	0	0	0	0	0	0	1437
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	0	133	0	0	0	0	0	0	0	0	0	0	133
	S.E.	0	79	0	0	0	0	0	0	0	0	0	0	79
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	0	13	4	0	0	0	0	0	0	0	0	0	17
	S.E.	0	7	4	0	0	0	0	0	0	0	0	0	8
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
100CT83	ST. CROP	44	42	236	0	0	5	0	0	0	0	0	0	327
	S.E.	16	36	236	0	0	4	0	0	0	0	0	0	240
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	139	1795	242	0	6	5	0	0	0	0	0	0	2186
	S.E.	53	1440	236	0	6	4	0	0	0	0	0	0	1460
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-65
COMBINED STANDING CROP (IN THOUSANDS) OF JUVENILES
IN HUDSON RIVER ESTUARY
DETERMINED BY THE BEACH SEINE AND FALL SHOALS SURVEYS.
BAY ANCHOVY YOUNG-OF-THE-YEAR
AUG 1 - AUG 7

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	93	2544 *	7563 *	10445 *	20645
	SE	50	1545 *	4592 *	7542 *	8964
TAPPAN ZEE	ST. CROP	32	14258 *	1836 *	9830 *	25956
	SE	18	3776 *	1087 *	7578 *	8536
CROTON-HAVERSTRAW	ST. CROP	0	14538 *	2426 *	1794 *	18758
	SE	0	3957 *	907 *	899 *	4158
INDIAN POINT	ST. CROP	0	437 *	1624 *	36335 *	38396
	SE	0	177 *	676 *	21026 *	21037
WEST POINT	ST. CROP	0	180 *	2400 *	3704 *	6285
	SE	0	71 *	950 *	1801 *	2038
CORNWALL	ST. CROP	0	872 *	5641 *	702 *	7215
	SE	0	244 *	1334 *	346 *	1399
POUGHKEEPSIE	ST. CROP	0	26 *	359 *	80 *	465
	SE	0	24 *	342 *	80 *	352
HYDE PARK	ST. CROP	0	4 *	73 *	98 *	175
	SE	0	1 *	14 *	61 *	63
KINGSTON	ST. CROP	0	137 *	528 *	4030 *	4696
	SE	0	40 *	153 *	2522 *	2527
SAUGERTIES	ST. CROP	0	192 *	541 *	770 *	1503
	SE	0	48 *	134 *	280 *	314
CATSKILL	ST. CROP	0	150 *	245 *	202 *	597
	SE	0	36 *	59 *	107 *	128
ALBANY	ST. CROP	0	5 *	4 *	9 *	19
	SE	0	4 *	3 *	6 *	7
STRATUM TOTAL	ST. CROP	126	33344 *	23240 *	67999 *	124709
	SE	53	5692 *	5137 *	23812 *	25016

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

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

TABLE B-65 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

AUG 8 - AUG 14

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	93	5089	15126 *	20889	41197
	SE	50	1545	4592 *	15083	15842
TAPPAN ZEE	ST. CROP	32	28516	3672	19660	51881
	SE	18	7551	2174	15155	17071
CROTON-HAVERSTRAW	ST. CROP	0	29077	4852	3587	37516
	SE	0	7914	1814	1798	8316
INDIAN POINT	ST. CROP	0	874	3247	72670	76791
	SE	0	355	1352	42051	42075
WEST POINT	ST. CROP	0	360 *	4801	7409	12570
	SE	0	142 *	1900	3603	4075
CORNWALL	ST. CROP	0	1743	11282	1404	14429
	SE	0	488	2667	692	2799
POUGHKEEPSIE	ST. CROP	0	51 *	719	159	929
	SE	0	49 *	684	159	704
HYDE PARK	ST. CROP	0	8 *	146	195	349
	SE	0	1 *	27	123	126
KINGSTON	ST. CROP	0	275 *	1056	8061	9392
	SE	0	79 *	306	5044	5054
SAUGERTIES	ST. CROP	0	385 *	1082	1541	3007
	SE	0	95 *	268	559	627
CATSKILL	ST. CROP	0	299 *	489	405	1194
	SE	0	72 *	118	214	255
ALBANY	ST. CROP	0	11 *	8	18 *	37
	SE	0	7 *	5	12 *	15
STRATUM TOTAL	ST. CROP	126	66688 *	46480	135999 *	249292
	SE	53	11066 *	6504	47624 *	49323

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-65 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

AUG 15 - AUG 21

REGION		STRATUM SHORE ZONE	STRATUM SHOAL (10'-20')	STRATUM BOTTOM	STRATUM CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	4136 *	12293 *	13187 *	29617
	SE	0	1237 *	3676 *	8426 *	9276
TAPPAN ZEE	ST. CROP	8	30270 *	48984 *	36520 *	115782
	SE	8	6426 *	12362 *	15935 *	21167
CROTON-HAVERSTRAW	ST. CROP	2	29532 *	25755 *	9594 *	64882
	SE	2	5854 *	5041 *	5331 *	9387
INDIAN POINT	ST. CROP	0	633 *	3155 *	40265 *	44054
	SE	0	243 *	1428 *	24728 *	24770
WEST POINT	ST. CROP	0	286 *	3818 *	4673 *	8777
	SE	0	103 *	1368 *	2769 *	3091
CORNWALL	ST. CROP	0	1711 *	7881 *	1802 *	11393
	SE	0	541 *	2314 *	837 *	2519
POUGHKEEPSIE	ST. CROP	0	177 *	2480 *	80 *	2736
	SE	0	89 *	1255 *	80 *	1261
HYDE PARK	ST. CROP	0	4 *	73 *	98 *	175
	SE	0	1 *	14 *	61 *	63
KINGSTON	ST. CROP	0	141 *	544 *	4030 *	4716
	SE	0	44 *	169 *	2522 *	2528
SAUGERTIES	ST. CROP	0	197 *	554 *	770 *	1522
	SE	0	51 *	144 *	280 *	318
CATSKILL	ST. CROP	0	150 *	245 *	1077 *	1472
	SE	0	36 *	59 *	982 *	984
ALBANY	ST. CROP	0	5 *	4 *	9 *	19
	SE	0	4 *	3 *	6 *	7
STRATUM TOTAL	ST. CROP	9	67242 *	105787 *	112105 *	285144
	SE	8	8802 *	14235 *	31314 *	35507

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-65 (CONTINUED).

BAY ANCHOVY — YOUNG-OF-THE-YEAR

AUG 22 - AUG 28

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	3183	9461 *	5485	18129
	SE	0	929	2760 *	1769	3407
TAPPAN ZEE	ST. CROP	8	32024	94296	53380	179708
	SE	8	5301	22550	16715	28566
CROTON-HAVERSTRAW	ST. CROP	2	29986	46658	15601	92247
	SE	2	3794	8268	8865	12702
INDIAN POINT	ST. CROP	0	392	3064	7860	11317
	SE	0	132	1504	7404	7556
WEST POINT	ST. CROP	0	213 *	2834	1936	4983
	SE	0	63 *	836	1936	2110
CORNWALL	ST. CROP	0	1678	4480	2200	8358
	SE	0	593	1961	981	2271
POUGHKEEPSIE	ST. CROP	0	302 *	4240	0	4542
	SE	0	130 *	1827	0	1831
HYDE PARK	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
KINGSTON	ST. CROP	0	8 *	32	0	41
	SE	0	8 *	32	0	33
SAUGERTIES	ST. CROP	0	10 *	27	0	37
	SE	0	7 *	19	0	21
CATSKILL	ST. CROP	0	0 *	0	1750	1750
	SE	0	0 *	0	1750	1750
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	9	67797 *	165094	88211 *	321111
	SE	8	6614 *	24385	20584 *	32590

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-65 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

AUG 29 - SEP 4

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	2	6975 *	20731 *	18215 *	45922
	SE	2	1709 *	5079 *	5530 *	7700
TAPPAN ZEE	ST. CROP	1568	63696 *	102221 *	143439 *	310923
	SE	1437	8178 *	20597 *	60144 *	64113
CROTON-HAVERSTRAW	ST. CROP	0	36292 *	47886 *	42240 *	126419
	SE	0	5847 *	11272 *	7469 *	14732
INDIAN POINT	ST. CROP	0	527 *	2295 *	7346 *	10168
	SE	0	192 *	1091 *	5622 *	5730
WEST POINT	ST. CROP	6	259 *	3459 *	13302 *	17026
	SE	6	68 *	904 *	10099 *	10140
CORNWALL	ST. CROP	0	1175 *	3884 *	3521 *	8579
	SE	0	453 *	2541 *	2030 *	3284
POUGHKEEPSIE	ST. CROP	0	825 *	11582 *	9863 *	22269
	SE	0	249 *	3491 *	5405 *	6439
HYDE PARK	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
KINGSTON	ST. CROP	0	108 *	414 *	1227 *	1749
	SE	0	40 *	153 *	1227 *	1237
SAUGERTIES	ST. CROP	0	6 *	18 *	0 *	24
	SE	0	5 *	14 *	0 *	15
CATSKILL	ST. CROP	0	22 *	36 *	875 *	933
	SE	0	12 *	19 *	875 *	875
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	1575	109884 *	192526 *	240028 *	544013
	SE	1437	10213 *	24449 *	62233 *	67654

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-65 (CONTINUED).

BAY ANCHOVY — YOUNG-OF-THE-YEAR

SEP 5 - SEP 11

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	2	10766	32001 *	30945	73714
	SE	2	2489	7397 *	9292	12135
TAPPAN ZEE	ST. CROP	1568	95368	110145	233499	440579
	SE	1437	11056	18643	103573	105827
CROTON-HAVERSTRAW	ST. CROP	0	42598	49115	68879	160592
	SE	0	7899	14277	6074	17410
INDIAN POINT	ST. CROP	0	661	1527	6832	9019
	SE	0	252	679	3839	3907
WEST POINT	ST. CROP	6	306 *	4083	24667	29063
	SE	6	73 *	971	18262	18288
CORNWALL	ST. CROP	0	671	3287	4842	8800
	SE	0	312	3121	3078	4395
POUGHKEEPSIE	ST. CROP	0	1347 *	18923	19726	39996
	SE	0	367 *	5154	10809	11981
HYDE PARK	ST. CROP	0	0 *	0	0	0
	SE	0	0 *	0	0	0
KINGSTON	ST. CROP	0	207 *	796	2455	3457
	SE	0	71 *	274	2455	2471
SAUGERTIES	ST. CROP	0	3 *	8	0	11
	SE	0	3 *	8	0	9
CATSKILL	ST. CROP	0	44 *	72	0	117
	SE	0	23 *	38	0	45
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	1575	151971 *	219958	391845 *	765349
	SE	1437	13825 *	25375	106448 *	110310

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-65 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

SEP 12 - SEP 18

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	7809 *	23212 *	17879 *	48900
	SE	0	2407 *	7154 *	5720 *	9470
TAPPAN ZEE	ST. CROP	133	92075 *	64686 *	125785 *	282678
	SE	79	17642 *	12826 *	53288 *	57579
CROTON-HAVERSTRAW	ST. CROP	0	32931 *	46913 *	36694 *	116538
	SE	0	6822 *	14500 *	4354 *	16605
INDIAN POINT	ST. CROP	0	1721 *	4049 *	3639 *	9409
	SE	0	801 *	2733 *	2143 *	3564
WEST POINT	ST. CROP	0	230 *	3060 *	13116 *	16406
	SE	0	101 *	1341 *	9914 *	10005
CORNWALL	ST. CROP	0	588 *	4196 *	5876 *	10660
	SE	0	209 *	2675 *	4994 *	5669
POUGHKEEPSIE	ST. CROP	0	1404 *	19717 *	32491 *	53611
	SE	0	534 *	7493 *	18301 *	19783
HYDE PARK	ST. CROP	0	26 *	480 *	1459 *	1965
	SE	0	7 *	138 *	1026 *	1035
KINGSTON	ST. CROP	0	123 *	473 *	1686 *	2283
	SE	0	41 *	156 *	1516 *	1525
SAUGERTIES	ST. CROP	0	42 *	119 *	601 *	762
	SE	0	26 *	73 *	380 *	387
CATSKILL	ST. CROP	0	139 *	228 *	0 *	367
	SE	0	59 *	96 *	0 *	113
ALBANY	ST. CROP	0	6 *	4 *	10 *	20
	SE	0	6 *	4 *	10 *	12
STRATUM TOTAL	ST. CROP	133	137094 *	167138 *	239235 *	543600
	SE	79	19093 *	22328 *	57944 *	64966

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-65 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

SEP 19 - SEP 25

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	4852	14423 *	4813	24088
	SE	0	2325	6911 *	2148	7601
TAPPAN ZEE	ST. CROP	133	88783	19227	18071	126213
	SE	79	24227	7008	3003	25399
CROTON-HAVERSTRAW	ST. CROP	0	23263	44711	4508	72483
	SE	0	5746	14723	2634	16022
INDIAN POINT	ST. CROP	0	2781	6571	446	9799
	SE	0	1349	4787	446	4994
WEST POINT	ST. CROP	0	153 *	2037	1565	3756
	SE	0	128 *	1712	1565	2323
CORNWALL	ST. CROP	0	504	5104	6911	12519
	SE	0	107	2228	6911	7262
POUGHKEEPSIE	ST. CROP	0	1460 *	20511	45256	67227
	SE	0	700 *	9831	25793	27612
HYDE PARK	ST. CROP	0	52 *	960	2918	3930
	SE	0	15 *	275	2053	2071
KINGSTON	ST. CROP	0	39 *	151	918	1108
	SE	0	10 *	38	577	579
SAUGERTIES	ST. CROP	0	82 *	230	1201	1513
	SE	0	49 *	138	759	773
CATSKILL	ST. CROP	0	235 *	383	0	618
	SE	0	94 *	154	0	180
ALBANY	ST. CROP	0	12 *	8	20 *	40
	SE	0	12 *	8	20 *	24
STRATUM TOTAL	ST. CROP	133	122216 *	114318	86626 *	323293
	SE	79	25055 *	21005	27228 *	42548

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-65 (CONTINUED).

BAY ANCHOVY — YOUNG-OF-THE-YEAR

SEP 26 - OCT 2

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	4153 *	12345 *	9516 *	26014
	SE	0	1522 *	4524 *	1763 *	5088
TAPPAN ZEE	ST. CROP	13	73915 *	22712 *	36552 *	133193
	SE	7	16747 *	10010 *	7731 *	20987
CROTON-HAVERSTRAW	ST. CROP	4	22672 *	35816 *	12070 *	70562
	SE	4	4611 *	12120 *	7317 *	14890
INDIAN POINT	ST. CROP	0	1456 *	4748 *	1644 *	7847
	SE	0	701 *	2916 *	1117 *	3200
WEST POINT	ST. CROP	0	111 *	1479 *	2579 *	4169
	SE	0	92 *	1228 *	1201 *	1720
CORNWALL	ST. CROP	0	1176 *	7168 *	8262 *	16607
	SE	0	169 *	2024 *	5987 *	6322
POUGHKEEPSIE	ST. CROP	0	1358 *	19073 *	34110 *	54540
	SE	0	691 *	9707 *	18038 *	20496
HYDE PARK	ST. CROP	0	44 *	823 *	2638 *	3506
	SE	0	11 *	213 *	1210 *	1229
KINGSTON	ST. CROP	0	1296 *	4987 *	1520 *	7802
	SE	0	1241 *	4775 *	586 *	4968
SAUGERTIES	ST. CROP	0	41 *	115 *	1079 *	1235
	SE	0	25 *	69 *	688 *	692
CATSKILL	ST. CROP	0	159 *	260 *	63 *	482
	SE	0	60 *	98 *	32 *	119
ALBANY	ST. CROP	0	6 *	4 *	10 *	20
	SE	0	6 *	4 *	10 *	12
STRATUM TOTAL	ST. CROP	17	106388 *	109529 *	110043 *	325976
	SE	8	17510 *	19969 *	21968 *	34467

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-65 (CONTINUED).

BAY ANCHOVY — YOUNG-OF-THE-YEAR

OCT 3 - OCT 9

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	0	3454	10267 *	14219	27939
	SE	0	719	2137 *	1378	2643
TAPPAN ZEE	ST. CROP	13	59048	26197	55034	140292
	SE	7	9267	13012	12460	20259
CROTON-HAVERSTRAW	ST. CROP	4	22081	26921	19631	68637
	SE	4	3477	9518	12000	15706
INDIAN POINT	ST. CROP	0	130	2924	2842	5896
	SE	0	53	1044	1788	2071
WEST POINT	ST. CROP	0	69 *	920	3593	4582
	SE	0	56 *	744	837	1121
CORNWALL	ST. CROP	0	1849	9232	9614	20695
	SE	0	231	1821	5064	5386
POUGHKEEPSIE	ST. CROP	0	1256 *	17634	22964	41854
	SE	0	682 *	9583	10283	14073
HYDE PARK	ST. CROP	0	37 *	686	2358	3081
	SE	0	8 *	151	367	397
KINGSTON	ST. CROP	0	2552 *	9822	2121	14496
	SE	0	2472 *	9512	595	9846
SAUGERTIES	ST. CROP	0	0 *	0	957	957
	SE	0	0 *	0	617	617
CATSKILL	ST. CROP	0	84 *	137	126	347
	SE	0	26 *	42	63	80
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	17	90559 *	104740	133459 *	328774
	SE	8	10252 *	21255	20912 *	31531

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-65 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

OCT 10 - OCT 16

REGION		STRATUM SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	44	2677 *	7956 *	16685 *	27361
	SE	16	892 *	2650 *	4390 *	5205
TAPPAN ZEE	ST. CROP	42	37394 *	17639 *	28364 *	83439
	SE	36	5601 *	8285 *	6679 *	12026
CROTON-HAVERSTRAW	ST. CROP	236	19026 *	20379 *	10543 *	50184
	SE	236	3865 *	6898 *	6470 *	10220
INDIAN POINT	ST. CROP	0	147 *	9803 *	2450 *	12400
	SE	0	49 *	5684 *	1923 *	6001
WEST POINT	ST. CROP	0	157 *	2098 *	1796 *	4052
	SE	0	90 *	1199 *	418 *	1273
CORNWALL	ST. CROP	5	8483 *	9898 *	7031 *	25417
	SE	4	5515 *	2208 *	3387 *	6838
POUGHKEEPSIE	ST. CROP	0	964 *	13539 *	13405 *	27908
	SE	0	491 *	6897 *	7065 *	9886
HYDE PARK	ST. CROP	0	37 *	686 *	1612 *	2335
	SE	0	23 *	418 *	435 *	604
KINGSTON	ST. CROP	0	1303 *	5014 *	1177 *	7494
	SE	0	1243 *	4783 *	394 *	4957
SAUGERTIES	ST. CROP	0	16 *	46 *	478 *	541
	SE	0	7 *	21 *	309 *	310
CATSKILL	ST. CROP	0	69 *	113 *	63 *	245
	SE	0	27 *	44 *	32 *	61
ALBANY	ST. CROP	0	0 *	0 *	0 *	0
	SE	0	0 *	0 *	0 *	0
STRATUM TOTAL	ST. CROP	327	70273 *	87171 *	83604 *	241375
	SE	240	8906 *	15248 *	13093 *	21985

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-65 (CONTINUED).

BAY ANCHOVY YOUNG-OF-THE-YEAR

OCT 17 - OCT 23

REGION		STRATUM: SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	REGIONAL TOTALS
YONKERS	ST. CROP	44	1899	5646 *	19151	26740
	SE	16	1064	3163 *	7403	8121
TAPPAN ZEE	ST. CROP	42	15740	9082	1694	26558
	SE	36	1935	3559	898	4150
CROTON-HAVERSTRAW	ST. CROP	236	15971	13837	1455	31499
	SE	236	4252	4279	940	6110
INDIAN POINT	ST. CROP	0	165	16682	2057	18904
	SE	0	44	10324	2057	10527
WEST POINT	ST. CROP	0	246 *	3276	0	3522
	SE	0	124 *	1654	0	1659
CORNWALL	ST. CROP	5	15117	10563	4449	30134
	SE	4	10799	2595	1710	11238
POUGHKEEPSIE	ST. CROP	0	672 *	9443	3846	13962
	SE	0	300 *	4211	3846	5711
HYDE PARK	ST. CROP	0	37 *	686	867	1590
	SE	0	37 *	686	502	851
KINGSTON	ST. CROP	0	53 *	205	232	491
	SE	0	14 *	54	193	201
SAUGERTIES	ST. CROP	0	33 *	92	0	124
	SE	0	15 *	41	0	44
CATSKILL	ST. CROP	0	55 *	89	0	144
	SE	0	29 *	47	0	55
ALBANY	ST. CROP	0	0 *	0	0 *	0
	SE	0	0 *	0	0 *	0
STRATUM TOTAL	ST. CROP	327	49988 *	69602	33750 *	153666
	SE	240	11819 *	13238	8873 *	19843

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

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

ADJUSTED ICHTHYO EFFICIENCY = STDS= 1

*--ESTIMATED VALUE

N--NO SAMPLE TAKEN

#--STD ERROR COULD NOT BE CALCULATED

TABLE B-66
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

BAY ANCHOVY — YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	76	N	308	384	0	0	0	0	0	72	0	72
	S.E.	38	N	308	310	0	0	0	0	0	72	0	72
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	457	N	10803	11259	297	62	1832	2191	0	0	0	0
	S.E.	200	N	6122	6125	297	62	1832	1857	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	1191	N	15122	16313	1719	58	113	1890	0	0	0	0
	S.E.	287	N	7146	7152	1447	58	113	1452	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	3234	N	26930	30164	478	194	3363	4035	0	0	0	0
	S.E.	1113	N	20708	20738	478	194	1942	2009	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	812	N	11592	12404	1983	1148	733	3864	53	29	0	82
	S.E.	406	N	11592	11599	1807	1019	733	2201	53	29	0	61
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	28778	N	21835	50612	4056	296	4666	9019	0	0	0	0
	S.E.	0	N	12653	12653	2038	169	4301	4762	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	5615	N	41041	46656	5227	2254	23222	30703	224	397	1332	1953
	S.E.	0	N	9668	9668	3982	352	7504	8502	138	153	491	532
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	18264	N	30250	48515	7470	2561	1236	11267	2690	698	1568	4956
	S.E.	0	N	20480	20480	4749	1117	418	4897	810	314	845	1212
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	278	N	7835	8112	80917	9339	5132	95389	2518	10162	510	13190
	S.E.	0	N	2708	2708	51917	3029	3072	52096	777	4186	196	4262
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	58704	N	165715	224419	102148	15913	40297	158358	5486	11358	3410	20254
	S.E.	1236	N	36499	36519	52379	3415	9596	53361	1133	4202	997	4464
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-66 (CONTINUED).

BAY ANCHOVY YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	22	22	N	0	0	0	0	0	0	0
	S.E.	0	0	22	22	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	47	415	462	N	0	0	0	0	0	0	0
	S.E.	0	47	188	194	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	79	79	331	489	N	0	0	0	0	0	0	0
	S.E.	79	79	126	169	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	46	434	1344	1824	N	223	116	339	0	26	0	26
	S.E.	15	152	493	516	N	110	50	121	0	14	0	14
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	124	560	2113	2797	N	223	116	339	0	26	0	26
	S.E.	80	177	543	577	N	110	50	121	0	14	0	14
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-66 (CONTINUED).

BAY ANCHOVY YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-66 (CONTINUED).

BAY ANCHOVY — YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-66 (CONTINUED).

BAY ANCHOVY — YEARLING

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	76	72	330	479
	S.E.	N	0	N	0	38	72	309	319
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	754	62	12635	13450
	S.E.	N	0	N	0	358	62	6390	6401
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	2910	58	15235	18203
	S.E.	N	0	N	0	1475	58	7147	7298
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	3713	194	30292	34199
	S.E.	N	0	N	0	1212	194	20799	20835
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	2848	1177	12325	16350
	S.E.	N	0	N	0	1853	1020	11615	11806
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	32834	296	26501	59631
	S.E.	N	0	N	0	2038	169	13364	13520
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	11065	2698	66011	79774
	S.E.	N	0	N	0	3985	387	12249	12887
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	28504	3339	33385	65227
	S.E.	N	0	N	0	4818	1163	20502	21093
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	83759	20185	14936	118881
	S.E.	N	0	N	0	51923	5171	4129	52343
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	166462	28080	211651	406193
	S.E.	N	0	N	0	52406	5418	37756	64817
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-67
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

BAY ANCHOVY

YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	3887	N	26254	30141	20567	6428	16006	43001	4158	10200	6214	20572
	S.E.	994	N	6188	6267	3522	1737	4280	5808	868	3696	1364	4034
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	3987	486	319	4791	713	607	58	1378
	S.E.	0	N	0	0	1206	114	319	1252	156	122	58	206
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	1063	N	335	1398	8562	1132	3628	13322	705	300	593	1597
	S.E.	318	N	206	379	1465	160	1460	2074	158	82	593	619
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	159	N	0	159	242	160	0	402	584	65	0	649
	S.E.	105	N	0	105	119	69	0	138	213	21	0	214
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	584	N	274	859	731	248	841	1820	304	114	0	418
	S.E.	144	N	185	234	106	72	280	308	94	38	0	102
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	283	N	515	798	224	207	39	470	83	129	0	212
	S.E.	112	N	316	335	62	115	39	136	61	38	0	72
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	5977	N	27378	33355	34313	8661	20832	63806	6547	11414	6865	24826
	S.E.	1064	N	6202	6293	4004	1754	4542	6304	928	3700	1488	4094
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-67 (CONTINUED).

BAY ANCHOVY YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	723	1434	8797	10954	N	365	1933	2298	350	393	0	743
	S.E.	440	1160	5995	6121	N	124	1933	1937	168	107	0	199
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	53	52	0	106	N	0	0	0	1334	0	0	1334
	S.E.	18	36	0	40	N	0	0	0	563	0	0	563
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	123	263	0	386	N	351	4858	5209	547	695	299	1540
	S.E.	36	91	0	98	N	86	1498	1501	154	235	155	321
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	46	0	0	46	N	327	361	688	116	375	0	491
	S.E.	15	0	0	15	N	144	361	389	56	138	0	149
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	39	112	0	151	N	108	394	502	89	563	55	707
	S.E.	33	79	0	86	N	36	394	395	24	48	55	77
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
170CT83	ST. CROP	29	42	0	71	N	86	0	86	162	231	0	394
	S.E.	18	29	0	34	N	39	0	39	80	82	0	115
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	1014	1903	8797	11713	N	1237	7546	8783	2598	2258	353	5209
	S.E.	444	1167	5995	6123	N	215	2503	2512	616	308	164	708
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-67 (CONTINUED).

BAY ANCHOVY YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	1345	1260	2605	N	29	0	29	N	23	55	78
	S.E.	N	1177	1049	1576	N	19	0	19	N	55	55	59
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	2325	0	2325	N	0	0	0	N	0	0	0
	S.E.	N	1460	0	1460	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	1398	2864	4262	N	0	0	0	N	75	43	118
	S.E.	N	426	2864	2896	N	0	0	0	N	43	43	61
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	963	202	1165	N	39	0	39	N	0	0	0
	S.E.	N	423	202	468	N	27	0	27	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	1657	168	1825	N	13	74	87	N	0	0	0
	S.E.	N	747	168	765	N	13	74	75	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
170CT83	ST. CROP	N	759	0	759	N	0	0	0	N	0	0	0
	S.E.	N	389	0	389	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	8446	4495	12940	N	81	74	155	N	98	98	196
	S.E.	N	2142	3061	3736	N	36	74	82	N	70	70	85
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-67 (CONTINUED).

BAY ANCHOVY YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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
22AUG83	ST. CROP	N	0	0	0	N	0	35	35
	S.E.	N	0	0	0	N	0	35	35
	NO. TOWS	N	12	6	18	N	15	6	21
05SEP83	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
19SEP83	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
030CT83	ST. CROP	N	0	0	0	N	13	0	13
	S.E.	N	0	0	0	N	13	0	13
	NO. TOWS	N	12	6	18	N	15	6	21
17OCT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	0	0	0	N	13	35	48
	S.E.	N	0	0	0	N	13	35	37
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-67 (CONTINUED).

WEEK BEGINNING MONDAY		BAY ANCHOVY				YEARLING			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	N	0	29686	20217	60518	110420
	S.E.	N	0	N	0	3790	4409	9962	11534
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	ST. CROP	N	0	N	0	6087	3470	412	9969
	S.E.	N	0	N	0	1340	1470	326	2016
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	0	N	0	11000	4213	12619	27831
	S.E.	N	0	N	0	1515	536	3605	3947
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	ST. CROP	N	0	N	0	1147	1929	564	3639
	S.E.	N	0	N	0	272	474	414	685
	NO. TOWS	N	8	N	8	64	86	49	199
03OCT83	ST. CROP	N	0	N	0	1747	2828	1805	6381
	S.E.	N	0	N	0	206	758	552	960
	NO. TOWS	N	8	N	8	65	85	50	200
17OCT83	ST. CROP	N	0	N	0	782	1454	554	2789
	S.E.	N	0	N	0	164	419	318	551
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	50449	34110	76471	161030
	S.E.	N	0	N	0	4313	4781	10627	12425
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-68
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

BAY ANCHOVY YEARLING

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	ST. CROP	84	210	0	0	0	0	0	0	0	0	0	0	294
	S.E.	73	65	0	0	0	0	0	0	0	0	0	0	98
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	0	9	0	0	0	0	0	0	0	0	0	0	9
	S.E.	0	5	0	0	0	0	0	0	0	0	0	0	5
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	2	15	0	0	0	0	0	0	0	0	0	0	17
	S.E.	2	9	0	0	0	0	0	0	0	0	0	0	9
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	3	0	0	0	0	0	0	0	0	0	0	0	3
	S.E.	3	0	0	0	0	0	0	0	0	0	0	0	3
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	ST. CROP	15	0	0	0	0	0	0	0	0	0	0	0	15
	S.E.	15	0	0	0	0	0	0	0	0	0	0	0	15
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	104	235	0	0	0	0	0	0	0	0	0	0	339
	S.E.	75	65	0	0	0	0	0	0	0	0	0	0	99
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-69
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

BAY ANCHOVY OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	422	N	0	422	0	0	0	0	0	0	0	0
	S.E.	422	N	0	422	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	67	N	8269	8336	0	0	1499	1499	0	0	0	0
	S.E.	67	N	3888	3889	0	0	1499	1499	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	158	N	0	158	0	0	0	0	0	0	0	0
	S.E.	158	N	0	158	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	51	0	51	0	0	0	0
	S.E.	0	N	0	0	0	51	0	51	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	647	N	8269	8916	0	51	1499	1550	0	0	0	0
	S.E.	455	N	3888	3915	0	51	1499	1500	0	0	0	0
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-69 (CONTINUED).

BAY ANCHOVY OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	33	33	N	0	0	0	0	0	0	0
	S.E.	0	0	33	33	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	33	33	N	0	0	0	0	0	0	0
	S.E.	0	0	33	33	N	0	0	0	0	0	0	0
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-69 (CONTINUED).

BAY ANCHOVY OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-69 (CONTINUED).

BAY ANCHOVY — OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-69 (CONTINUED).

BAY ANCHOVY — OLDER

WEEK BEGINNING MONDAY		ALBANY SHOAL	ALBANY BOTTOM	ALBANY CHANNEL	ALBANY REGION	COMBINED SHOAL	COMBINED BOTTOM	COMBINED CHANNEL	COMBINED REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	422	0	0	422
	S.E.	N	0	N	0	422	0	0	422
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	67	0	9768	9835
	S.E.	N	0	N	0	67	0	4167	4168
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	158	0	0	158
	S.E.	N	0	N	0	158	0	0	158
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	51	0	51
	S.E.	N	0	N	0	0	51	0	51
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	0	33	33
	S.E.	N	0	N	0	0	0	33	33
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	647	51	9801	10499
	S.E.	N	0	N	0	455	51	4168	4193
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-70
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

BAY ANCHOVY — OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	76	0	0	76	0	0	0	0
	S.E.	0	N	0	0	76	0	0	76	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	98	98	0	0	0	0	0	0	0	0
	S.E.	0	N	98	98	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	10	0	0	10	0	0	0	0
	S.E.	0	N	0	0	10	0	0	10	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	0	N	93	93	40	0	0	40	20	0	0	20
	S.E.	0	N	93	93	40	0	0	40	20	0	0	20
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	192	192	126	0	0	126	20	0	0	20
	S.E.	0	N	136	136	86	0	0	86	20	0	0	20
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).

BAY ANCHOVY OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	100	0	100
	S.E.	0	0	0	0	N	0	0	0	0	100	0	100
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	154	154	0	0	0	0
	S.E.	0	0	0	0	N	0	154	154	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
170CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	154	154	0	100	0	100
	S.E.	0	0	0	0	N	0	154	154	0	100	0	100
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).

BAY ANCHOVY OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
170CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).

BAY ANCHOVY — OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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
22AUG83	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
05SEP83	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
19SEP83	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
030CT83	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
17OCT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).

BAY ANCHOVY — OLDER

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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	66	85	49	200
22AUG83	ST. CROP	N	0	N	0	76	0	0	76
	S.E.	N	0	N	0	76	0	0	76
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	0	N	0	0	100	98	198
	S.E.	N	0	N	0	0	100	98	140
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	ST. CROP	N	0	N	0	10	0	154	164
	S.E.	N	0	N	0	10	0	154	154
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	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	65	85	50	200
170CT83	ST. CROP	N	0	N	0	60	0	93	153
	S.E.	N	0	N	0	45	0	93	103
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	146	100	346	592
	S.E.	N	0	N	0	89	100	205	245
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-71
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

BAY ANCHOVY — OLDER

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	ST. CROP	0	8	0	0	0	0	0	0	0	0	0	0	8
	S.E.	0	6	0	0	0	0	0	0	0	0	0	0	6
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	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. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	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. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	0	8	0	0	0	0	0	0	0	0	0	0	8
	S.E.	0	6	0	0	0	0	0	0	0	0	0	0	6
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-72
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

WEEK BEGINNING MONDAY		WEAKFISH				YOUNG-OF-THE-YEAR							
		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	394	N	1415	1808	1377	62	387	1826	255	284	0	539
	S.E.	109	N	1269	1274	362	62	290	468	90	161	0	185
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	95	N	0	95	2571	251	0	2821	78	187	0	265
	S.E.	95	N	0	95	558	94	0	565	35	50	0	61
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	167	N	175	343	233	135	146	514	305	59	148	512
	S.E.	69	N	109	129	55	56	103	130	117	32	148	192
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	79	N	0	79	64	21	0	85	21	77	0	97
	S.E.	66	N	0	66	39	21	0	44	14	35	0	38
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	233	N	0	233	52	364	45	461	35	31	0	66
	S.E.	64	N	0	64	22	258	45	263	16	21	0	26
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	167	N	762	929	100	154	0	254	0	12	0	12
	S.E.	82	N	762	767	46	88	0	99	0	12	0	12
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	1135	N	2352	3487	4397	986	579	5961	694	649	148	1491
	S.E.	203	N	1484	1498	670	301	311	798	154	177	148	278
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-72 (CONTINUED).

WEAKFISH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	54	209	2640	2903	N	188	114	303	19	151	0	170
	S.E.	21	111	1937	1941	N	87	114	144	19	81	0	83
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	90	0	90	N	336	0	336	125	17	0	142
	S.E.	0	50	0	50	N	92	0	92	125	17	0	126
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	73	133	0	206	N	31	158	189	15	200	63	278
	S.E.	31	61	0	69	N	19	158	159	7	93	63	112
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	42	0	42	28	18	0	46
	S.E.	0	0	0	0	N	42	0	42	19	18	0	26
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	11	303	0	314	N	15	0	15	13	17	0	30
	S.E.	11	303	0	303	N	15	0	15	13	17	0	21
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	53	0	53	N	16	0	16	17	117	0	134
	S.E.	0	26	0	26	N	16	0	16	12	97	0	98
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	138	788	2640	3566	N	628	273	901	217	520	63	800
	S.E.	39	333	1937	1966	N	137	195	238	129	159	63	215
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-72 (CONTINUED).

WEAKFISH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	68	0	68	N	0	0	0	N	0	0	0
	S.E.	N	68	0	68	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	104	0	104	N	0	0	0	N	0	0	0
	S.E.	N	68	0	68	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
170CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	172	0	172	N	0	0	0	N	0	0	0
	S.E.	N	96	0	96	N	0	0	0	N	0	0	0
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-72 (CONTINUED).

WEEK BEGINNING MONDAY		WEAKFISH				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	34	34	N	0	0	0
	S.E.	N	0	34	34	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	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
05SEP83	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
19SEP83	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
03OCT83	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
17OCT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	0	34	34	N	0	0	0
	S.E.	N	0	34	34	N	0	0	0
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-72 (CONTINUED).

WEEK BEGINNING MONDAY		WEAKFISH				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	N	0	2099	894	4590	7582
	S.E.	N	0	N	0	390	237	2337	2381
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	ST. CROP	N	0	N	0	2869	881	0	3750
	S.E.	N	0	N	0	580	151	0	600
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	0	N	0	794	558	691	2042
	S.E.	N	0	N	0	150	130	271	336
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	ST. CROP	N	0	N	0	192	225	0	417
	S.E.	N	0	N	0	80	92	0	122
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	ST. CROP	N	0	N	0	344	833	45	1222
	S.E.	N	0	N	0	72	405	45	414
	NO. TOWS	N	8	N	8	65	85	50	200
170CT83	ST. CROP	N	0	N	0	284	353	762	1399
	S.E.	N	0	N	0	95	135	762	780
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	6581	3743	6089	16413
	S.E.	N	0	N	0	729	535	2474	2634
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-73
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

WEAKFISH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	ST. CROP	0	21	0	0	0	0	0	0	0	0	0	0	21
	S.E.	0	21	0	0	0	0	0	0	0	0	0	0	21
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
	S.E.	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	0	2	0	0	0	0	0	0	0	0	0	0	2
	S.E.	0	2	0	0	0	0	0	0	0	0	0	0	2
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	24	6	0	0	0	0	0	0	0	0	0	0	30
	S.E.	6	3	0	0	0	0	0	0	0	0	0	0	7
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	2	0	0	0	0	0	0	0	0	0	0	0	2
	S.E.	2	0	0	0	0	0	0	0	0	0	0	0	2
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	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. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	26	30	0	0	0	0	0	0	0	0	0	0	56
	S.E.	7	21	0	0	0	0	0	0	0	0	0	0	22
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-74
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE CATFISH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-74 (CONTINUED).

WHITE CATFISH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	9	0	9
	S.E.	0	0	0	0	N	0	0	0	0	9	0	9
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	20	20	0	0	0	0
	S.E.	0	0	0	0	N	0	20	20	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	0	0	N	0	20	20	0	9	0	9
	S.E.	0	0	0	0	N	0	20	20	0	9	0	9
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-74 (CONTINUED).

WHITE CATFISH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-74 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-74 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	9	0	9
	S.E.	N	0	N	0	0	9	0	9
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	20	20
	S.E.	N	0	N	0	0	0	20	20
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	0	9	20	30
	S.E.	N	0	N	0	0	9	20	22
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-75
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE CATFISH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-75 (CONTINUED).

WHITE CATFISH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	4	0	0	4
	S.E.	0	0	0	0	N	0	0	0	4	0	0	4
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	4	17	0	21
	S.E.	0	0	0	0	N	0	0	0	4	17	0	17
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
170CT83	ST. CROP	0	0	0	0	N	16	0	16	9	20	0	29
	S.E.	0	0	0	0	N	16	0	16	6	20	0	21
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	16	0	16	17	37	0	54
	S.E.	0	0	0	0	N	16	0	16	8	26	0	27
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-75 (CONTINUED).

WHITE CATFISH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	38	0	38	N	13	0	13	N	75	0	75
	S.E.	N	38	0	38	N	13	0	13	N	0	0	26
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	72	0	72	N	30	0	30	N	26	0	26
	S.E.	N	44	0	44	N	30	0	30	N	0	0	26
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	10	0	10	N	0	0	0
	S.E.	N	0	0	0	N	10	0	10	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	21	0	21
	S.E.	N	0	0	0	N	0	0	0	N	0	0	21
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	71	168	239	N	15	0	15	N	62	0	62
	S.E.	N	44	168	174	N	15	0	15	N	0	0	24
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
170CT83	ST. CROP	N	31	0	31	N	0	0	0	N	12	0	12
	S.E.	N	31	0	31	N	0	0	0	N	0	0	12
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	212	168	380	N	68	0	68	N	195	0	195
	S.E.	N	79	168	186	N	37	0	37	N	0	0	50
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-75 (CONTINUED).

WHITE CATFISH — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	114	0	114	N	406	0	406
	S.E.	N	52	0	52	N	84	0	84
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	ST. CROP	N	0	0	0	N	42	0	42
	S.E.	N	0	0	0	N	23	0	23
	NO. TOWS	N	12	6	18	N	15	6	21
05SEP83	ST. CROP	N	24	0	24	N	0	0	0
	S.E.	N	16	0	16	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
19SEP83	ST. CROP	N	64	0	64	N	36	0	36
	S.E.	N	29	0	29	N	26	0	26
	NO. TOWS	N	12	6	18	N	15	6	21
030CT83	ST. CROP	N	60	50	110	N	144	0	144
	S.E.	N	28	50	57	N	70	0	70
	NO. TOWS	N	12	6	18	N	15	6	21
170CT83	ST. CROP	N	106	0	106	N	12	0	12
	S.E.	N	36	0	36	N	12	0	12
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	368	50	418	N	641	0	641
	S.E.	N	76	50	91	N	115	0	115
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-75 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	341	N	341	0	987	0	987
	S.E.	N	160	N	160	0	194	0	194
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	ST. CROP	N	82	N	82	4	252	0	256
	S.E.	N	56	N	56	4	85	0	85
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	0	N	0	4	51	0	55
	S.E.	N	0	N	0	4	25	0	26
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	ST. CROP	N	66	N	66	0	186	0	186
	S.E.	N	47	N	47	0	64	0	64
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	ST. CROP	N	25	N	25	0	377	218	595
	S.E.	N	25	N	25	0	95	175	199
	NO. TOWS	N	8	N	8	65	85	50	200
170CT83	ST. CROP	N	63	N	63	9	261	0	270
	S.E.	N	31	N	31	6	65	0	65
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	577	N	577	17	2113	218	2348
	S.E.	N	180	N	180	8	250	175	306
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-76
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE CATFISH YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	0	0	0	0	1	0	0	0	0	0	0	0	1
	S.E.	0	0	0	0	1	0	0	0	0	0	0	0	1
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	0	6	0	2	0	0	0	0	0	0	0	0	8
	S.E.	0	4	0	2	0	0	0	0	0	0	0	0	5
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	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. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	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. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	0	6	0	2	1	0	0	0	0	0	0	0	8
	S.E.	0	4	0	2	1	0	0	0	0	0	0	0	5
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-77
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE CATFISH YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	24	N	0	24	0	0	0	0	33	0	0	33
	S.E.	24	N	0	24	0	0	0	0	33	0	0	33
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	15	0	15
	S.E.	0	N	0	0	0	0	0	0	0	15	0	15
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	24	N	0	24	0	0	0	0	33	15	0	48
	S.E.	24	N	0	24	0	0	0	0	33	15	0	36
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-77 (CONTINUED).

WHITE CATFISH YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	11	72	0	83	N	0	0	0	0	13	0	13
	S.E.	11	72	0	73	N	0	0	0	0	13	0	13
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	47	0	47	N	15	0	15	0	0	0	0
	S.E.	0	47	0	47	N	15	0	15	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	14	0	14	0	0	0	0
	S.E.	0	0	0	0	N	14	0	14	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	40	0	40	N	32	0	32	0	38	0	38
	S.E.	0	25	0	25	N	21	0	21	0	38	0	38
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	21	21	0	19	0	19
	S.E.	0	0	0	0	N	0	21	21	0	13	0	13
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	10	0	0	10	N	0	0	0	0	18	0	18
	S.E.	10	0	0	10	N	0	0	0	0	12	0	12
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	9	10	0	18
	S.E.	0	0	0	0	N	0	0	0	9	10	0	13
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	23	0	0	23	N	0	0	0	0	0	0	0
	S.E.	10	0	0	10	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	44	158	0	202	N	60	21	81	9	97	0	105
	S.E.	17	89	0	91	N	29	21	36	9	44	0	45
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-77 (CONTINUED).

WHITE CATFISH YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	21	0	21	N	0	0	0	N	0	0	0
	S.E.	N	21	0	21	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	14	0	14	N	0	0	0	N	0	0	0
	S.E.	N	14	0	14	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	27	0	27	N	0	0	0	N	37	0	37
	S.E.	N	27	0	27	N	0	0	0	N	0	0	37
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	68	0	68	N	0	0	0	N	0	0	0
	S.E.	N	44	0	44	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	130	0	130	N	0	0	0	N	37	0	37
	S.E.	N	58	0	58	N	0	0	0	N	0	0	37
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-77 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH				YEARLING			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	81	0	81
	S.E.	N	0	0	0	N	81	0	81
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	81	0	81
	S.E.	N	0	0	0	N	81	0	81
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-77 (CONTINUED).

WHITE CATFISH YEARLING

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	57	0	0	57
	S.E.	N	0	N	0	41	0	0	41
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	21	0	21
	S.E.	N	0	N	0	0	21	0	21
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	11	84	0	95
	S.E.	N	0	N	0	11	73	0	74
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	61	0	61
	S.E.	N	0	N	0	0	49	0	49
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	14	0	14
	S.E.	N	0	N	0	0	14	0	14
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	123	0	123
	S.E.	N	0	N	0	0	52	0	52
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	99	21	120
	S.E.	N	0	N	0	0	50	21	54
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	10	99	0	108
	S.E.	N	0	N	0	10	82	0	82
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	9	77	0	86
	S.E.	N	0	N	0	9	45	0	46
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	23	0	0	23
	S.E.	N	0	N	0	10	0	0	10
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	109	578	21	708
	S.E.	N	0	N	0	45	149	21	157
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-78
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE CATFISH — YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	8	0	0	8
	S.E.	0	N	0	0	0	0	0	0	8	0	0	8
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	8	0	0	8
	S.E.	0	N	0	0	0	0	0	0	8	0	0	8
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-78 (CONTINUED).

WHITE CATFISH YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	24	33	0	57
	S.E.	0	0	0	0	N	0	0	0	15	33	0	36
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	10	0	0	10	N	0	0	0	4	0	0	4
	S.E.	10	0	0	10	N	0	0	0	4	0	0	4
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
170CT83	ST. CROP	0	0	0	0	N	33	0	33	20	183	0	203
	S.E.	0	0	0	0	N	33	0	33	13	116	0	117
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	10	0	0	10	N	33	0	33	48	216	0	264
	S.E.	10	0	0	10	N	33	0	33	20	121	0	122
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-78 (CONTINUED).

WHITE CATFISH YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	34	0	34	N	39	0	39	N	96	0	96
	S.E.	N	34	0	34	N	39	0	39	N	0	0	39
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	0	0	0	N	15	250	265	N	0	0	0
	S.E.	N	0	0	0	N	15	250	250	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
170CT83	ST. CROP	N	97	0	97	N	30	0	30	N	12	35	47
	S.E.	N	40	0	40	N	30	0	30	N	35	35	37
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	131	0	131	N	84	250	334	N	108	35	143
	S.E.	N	52	0	52	N	52	250	255	N	35	35	54
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-78 (CONTINUED).

WHITE CATFISH YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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
22AUG83	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
05SEP83	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
19SEP83	ST. CROP	N	50	0	50	N	50	0	50
	S.E.	N	21	0	21	N	22	0	22
	NO. TOWS	N	12	6	18	N	15	6	21
030CT83	ST. CROP	N	0	0	0	N	43	0	43
	S.E.	N	0	0	0	N	33	0	33
	NO. TOWS	N	12	6	18	N	15	6	21
170CT83	ST. CROP	N	74	0	74	N	0	0	0
	S.E.	N	30	0	30	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	124	0	124	N	93	0	93
	S.E.	N	37	0	37	N	39	0	39
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-78 (CONTINUED).

WEEK BEGINNING MONDAY		WHITE CATFISH YEARLING							
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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	66	85	49	200
22AUG83	ST. CROP	N	0	N	0	8	0	0	8
	S.E.	N	0	N	0	8	0	0	8
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	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	63	87	49	199
19SEP83	ST. CROP	N	22	N	22	24	325	0	349
	S.E.	N	22	N	22	15	82	0	84
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	ST. CROP	N	463	N	463	15	522	250	786
	S.E.	N	382	N	382	11	384	250	458
	NO. TOWS	N	8	N	8	65	85	50	200
170CT83	ST. CROP	N	109	N	109	20	537	35	592
	S.E.	N	88	N	88	13	160	35	165
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	595	N	595	66	1384	285	1735
	S.E.	N	393	N	393	24	424	252	494
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-79
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE CATFISH YEARLING

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AI	COMBINED
01AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	0	4	0	0	0	0	0	0	0	0	0	0	4
	S.E.	0	4	0	0	0	0	0	0	0	0	0	0	4
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	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. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	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. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	0	4	0	0	0	0	0	0	0	0	0	0	4
	S.E.	0	4	0	0	0	0	0	0	0	0	0	0	4
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-80
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE CATFISH OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	35	N	0	35	0	0	0	0	33	0	0	33
	S.E.	35	N	0	35	0	0	0	0	33	0	0	33
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	71	0	71	0	121	0	121
	S.E.	0	N	0	0	0	71	0	71	0	70	0	70
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	68	0	68	29	0	0	29
	S.E.	0	N	0	0	0	68	0	68	29	0	0	29
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	24	0	24
	S.E.	0	N	0	0	0	0	0	0	0	24	0	24
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	35	N	0	35	0	139	0	139	62	145	0	207
	S.E.	35	N	0	35	0	98	0	98	44	74	0	86
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-80 (CONTINUED).

WHITE CATFISH OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	12	0	0	12	N	0	0	0	0	0	0	0
	S.E.	12	0	0	12	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	21	36	0	57	N	13	0	13	0	0	0	0
	S.E.	21	36	0	41	N	13	0	13	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	19	0	19	N	14	0	14	0	16	0	16
	S.E.	0	19	0	19	N	14	0	14	0	16	0	16
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	10	0	0	10	N	0	0	0	0	0	0	0
	S.E.	10	0	0	10	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	42	55	0	97	N	28	0	28	0	16	0	16
	S.E.	26	41	0	48	N	20	0	20	0	16	0	16
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-80 (CONTINUED).

WHITE CATFISH OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	12	0	12	N	0	0	0
	S.E.	N	0	0	0	N	12	0	12	N	0	0	0
	NO. TOWS	N	9	10	19	N	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	43	0	43	N	32	0	32	N	0	0	0
	S.E.	N	29	0	29	N	23	0	23	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	30	0	30
	S.E.	N	0	0	0	N	0	0	0	N	0	0	30
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	28	0	28	N	0	0	0
	S.E.	N	0	0	0	N	28	0	28	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	12	0	12	N	15	0	15	N	0	0	0
	S.E.	N	12	0	12	N	15	0	15	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	55	0	55	N	87	0	87	N	30	0	30
	S.E.	N	31	0	31	N	41	0	41	N	0	0	30
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-80 (CONTINUED).

WHITE CATFISH — OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-80 (CONTINUED).

WHITE CATFISH OLDER

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	68	12	0	80
	S.E.	N	0	N	0	48	12	0	49
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	12	267	0	278
	S.E.	N	0	N	0	12	106	0	107
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	50	147	0	197
	S.E.	N	0	N	0	36	83	0	91
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	28	0	28
	S.E.	N	0	N	0	0	28	0	28
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	101	0	101
	S.E.	N	0	N	0	0	42	0	42
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	10	0	0	10
	S.E.	N	0	N	0	10	0	0	10
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	139	554	0	693
	S.E.	N	0	N	0	62	145	0	157
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-81
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE CATFISH — OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	8	0	0	8
	S.E.	0	N	0	0	0	0	0	0	8	0	0	8
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	12	0	12
	S.E.	0	N	0	0	0	0	0	0	0	12	0	12
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	8	12	0	20
	S.E.	0	N	0	0	0	0	0	0	8	12	0	15
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-81 (CONTINUED).

WHITE CATFISH OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	4	0	0	4
	S.E.	0	0	0	0	N	0	0	0	4	0	0	4
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	5	0	0	5	N	0	0	0	0	0	0	0
	S.E.	5	0	0	5	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
170CT83	ST. CROP	0	0	0	0	N	0	0	0	12	0	0	12
	S.E.	0	0	0	0	N	0	0	0	9	0	0	9
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	5	0	0	5	N	0	0	0	17	0	0	17
	S.E.	5	0	0	5	N	0	0	0	10	0	0	10
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-81 (CONTINUED).

WHITE CATFISH OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	13	0	13
	S.E.	N	0	0	0	N	0	0	0	N	0	0	13
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	38	0	38
	S.E.	N	0	0	0	N	0	0	0	N	0	0	28
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. CROP	N	0	0	0	N	15	0	15	N	0	0	0
	S.E.	N	0	0	0	N	15	0	15	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	15	0	15	N	51	0	51
	S.E.	N	0	0	0	N	15	0	15	N	0	0	30
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-81 (CONTINUED).

WHITE CATFISH — OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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
22AUG83	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
05SEP83	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
19SEP83	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
03OCT83	ST. CROP	N	0	0	0	N	12	0	12
	S.E.	N	0	0	0	N	12	0	12
	NO. TOWS	N	12	6	18	N	15	6	21
17OCT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	0	0	0	N	12	0	12
	S.E.	N	0	0	0	N	12	0	12
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-81 (CONTINUED).

WHITE CATFISH — OLDER

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	N	0	12	13	0	25
	S.E.	N	0	N	0	9	13	0	15
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	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	87	49	200
05SEP83	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	63	87	49	199
19SEP83	ST. CROP	N	0	N	0	0	38	0	38
	S.E.	N	0	N	0	0	28	0	28
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	ST. CROP	N	0	N	0	5	40	0	45
	S.E.	N	0	N	0	5	23	0	24
	NO. TOWS	N	8	N	8	65	85	50	200
170CT83	ST. CROP	N	0	N	0	12	0	0	12
	S.E.	N	0	N	0	9	0	0	9
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	30	91	0	121
	S.E.	N	0	N	0	13	38	0	41
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-82
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

WHITE CATFISH OLDER

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	0	0	4	0	0	0	0	0	0	0	0	0	4
	S.E.	0	0	4	0	0	0	0	0	0	0	0	0	4
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	0	0	2	0	0	0	0	0	0	0	0	14	16
	S.E.	0	0	2	0	0	0	0	0	0	0	0	11	12
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	0	4	0	0	0	0	0	0	2	0	0	0	6
	S.E.	0	4	0	0	0	0	0	0	2	0	0	0	4
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	0	2	0	0	0	0	0	0	2	0	0	0	4
	S.E.	0	2	0	0	0	0	0	0	2	0	0	0	3
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
100CT83	ST. CROP	0	4	0	0	0	0	0	0	0	0	0	0	4
	S.E.	0	3	0	0	0	0	0	0	0	0	0	0	3
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	0	9	6	0	0	0	0	0	3	0	0	14	33
	S.E.	0	5	4	0	0	0	0	0	2	0	0	11	13
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-83
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

SPOTTAIL SHINER — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-83 (CONTINUED).

SPOTTAIL SHINER YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	4	0	0	4
	S.E.	0	0	0	0	N	0	0	0	4	0	0	4
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
170CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	4	0	0	4
	S.E.	0	0	0	0	N	0	0	0	4	0	0	4
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-83 (CONTINUED).

SPOTTAIL SHINER YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	52	0	52
	S.E.	N	0	0	0	N	0	0	0	N	0	0	52
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	15	0	15
	S.E.	N	0	0	0	N	0	0	0	N	0	0	15
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	28	0	28
	S.E.	N	0	0	0	N	0	0	0	N	0	0	28
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	95	0	95
	S.E.	N	0	0	0	N	0	0	0	N	0	0	61
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-83 (CONTINUED).

SPOTTAIL SHINER — YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	12	0	12	N	38	0	38
	S.E.	N	12	0	12	N	20	0	20
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	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
05SEP83	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
19SEP83	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
030CT83	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
170CT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	12	0	12	N	38	0	38
	S.E.	N	12	0	12	N	20	0	20
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-83 (CONTINUED).

WEEK BEGINNING MONDAY		SPOTTAIL SHINER				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	98	N	98	0	200	0	200
	S.E.	N	58	N	58	0	81	0	81
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	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	87	49	200
05SEP83	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	63	87	49	199
19SEP83	ST. CROP	N	0	N	0	4	0	0	4
	S.E.	N	0	N	0	4	0	0	4
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	ST. CROP	N	0	N	0	0	15	0	15
	S.E.	N	0	N	0	0	15	0	15
	NO. TOWS	N	8	N	8	65	85	50	200
170CT83	ST. CROP	N	0	N	0	0	28	0	28
	S.E.	N	0	N	0	0	28	0	28
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	98	N	98	4	243	0	246
	S.E.	N	58	N	58	4	87	0	87
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-84
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

SPOTTAIL SHINER YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	TP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	ST. CROP	0	0	61	77	32	69	26	45	193	336	535	495	1868
	S.E.	0	0	48	57	23	31	17	15	82	79	213	247	356
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	0	4	25	13	47	98	52	27	83	25	75	367	816
	S.E.	0	3	25	13	37	37	28	17	40	19	34	104	136
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	0	34	40	0	9	92	129	12	43	197	65	293	915
	S.E.	0	34	40	0	5	24	47	3	28	106	35	174	222
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	0	2	0	4	6	114	51	7	50	123	63	307	726
	S.E.	0	2	0	4	3	42	18	4	24	71	31	210	229
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	0	0	17	4	47	29	169	184	136	117	138	549	1390
	S.E.	0	0	17	4	31	15	62	176	62	70	78	254	340
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
100CT83	ST. CROP	0	0	19	5	12	5	40	8	161	178	199	83	710
	S.E.	0	0	17	3	7	4	34	6	110	81	83	77	182
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	0	40	163	103	152	407	467	284	665	975	1074	2094	6425
	S.E.	0	34	72	59	54	70	93	177	160	186	249	465	629
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-85
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-85 (CONTINUED).

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	38	0	38	0	0	0	0
	S.E.	0	0	0	0	N	38	0	38	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	9	0	9
	S.E.	0	0	0	0	N	0	0	0	0	9	0	9
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	0	0	N	38	0	38	0	9	0	9
	S.E.	0	0	0	0	N	38	0	38	0	9	0	9
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-85 (CONTINUED).

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	27	0	27
	S.E.	N	0	0	0	N	0	0	0	N	0	0	27
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	12	0	12	N	0	0	0	N	0	0	0
	S.E.	N	12	0	12	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	34	0	34	N	0	0	0	N	0	0	0
	S.E.	N	34	0	34	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	35	0	35
	S.E.	N	0	0	0	N	0	0	0	N	0	0	35
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	46	0	46	N	0	0	0	N	63	0	63
	S.E.	N	36	0	36	N	0	0	0	N	0	0	45
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-85 (CONTINUED).

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	181	0	181	N	0	0	0
	S.E.	N	181	0	181	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	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	181	0	181	N	0	0	0
	S.E.	N	181	0	181	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-85 (CONTINUED).

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	27	0	27
	S.E.	N	0	N	0	0	27	0	27
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	38	0	38
	S.E.	N	0	N	0	0	38	0	38
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	12	0	12
	S.E.	N	0	N	0	0	12	0	12
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	34	0	34
	S.E.	N	0	N	0	0	34	0	34
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	191	0	191
	S.E.	N	0	N	0	0	182	0	182
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	35	0	35
	S.E.	N	0	N	0	0	35	0	35
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	0	337	0	337
	S.E.	N	0	N	0	0	194	0	194
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-86
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
03OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-86 (CONTINUED).

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	19	0	19	0	0	0	0
	S.E.	0	0	0	0	N	19	0	19	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	4	0	0	4
	S.E.	0	0	0	0	N	0	0	0	4	0	0	4
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	19	0	19	4	0	0	4
	S.E.	0	0	0	0	N	19	0	19	4	0	0	4
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-86 (CONTINUED).

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	13	0	13
	S.E.	N	0	0	0	N	0	0	0	N	0	0	13
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	47	0	47
	S.E.	N	0	0	0	N	0	0	0	N	0	0	47
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	96	0	96
	S.E.	N	0	0	0	N	0	0	0	N	0	0	96
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
170CT83	ST. CROP	N	0	0	0	N	15	0	15	N	42	0	42
	S.E.	N	0	0	0	N	15	0	15	N	0	0	42
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	15	0	15	N	198	0	198
	S.E.	N	0	0	0	N	15	0	15	N	0	0	115
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-86 (CONTINUED).

SPOTTAIL SHINER — YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	68	0	68	N	40	0	40
	S.E.	N	25	0	25	N	21	0	21
	NO. TOWS	N	12	6	18	N	15	6	21
22AUG83	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
05SEP83	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
19SEP83	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
03OCT83	ST. CROP	N	0	0	0	N	16	0	16
	S.E.	N	0	0	0	N	16	0	16
	NO. TOWS	N	12	6	18	N	15	6	21
17OCT83	ST. CROP	N	0	0	0	N	13	0	13
	S.E.	N	0	0	0	N	13	0	13
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	68	0	68	N	69	0	69
	S.E.	N	25	0	25	N	29	0	29
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-86 (CONTINUED).

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	59	N	59	0	199	0	199
	S.E.	N	29	N	29	0	49	0	49
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	ST. CROP	N	0	N	0	0	47	0	47
	S.E.	N	0	N	0	0	47	0	47
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	ST. CROP	N	0	N	0	0	96	0	96
	S.E.	N	0	N	0	0	96	0	96
	NO. TOWS	N	8	N	8	63	87	49	199
19SEP83	ST. CROP	N	0	N	0	4	0	0	4
	S.E.	N	0	N	0	4	0	0	4
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	ST. CROP	N	0	N	0	0	16	0	16
	S.E.	N	0	N	0	0	16	0	16
	NO. TOWS	N	8	N	8	65	85	50	200
17OCT83	ST. CROP	N	42	N	42	0	111	0	111
	S.E.	N	42	N	42	0	62	0	62
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	101	N	101	4	469	0	472
	S.E.	N	51	N	51	4	134	0	134
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-87
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

SPOTTAIL SHINER YEARLING

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AI	COMBINED
01AUG83	ST. CROP	0	0	31	0	11	39	0	0	17	35	0	0	133
	S.E.	0	0	27	0	6	31	0	0	17	17	0	0	48
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	ST. CROP	0	0	6	6	9	11	0	1	0	0	4	0	36
	S.E.	0	0	6	6	4	11	0	1	0	0	4	0	15
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	ST. CROP	0	2	0	0	1	16	9	3	0	53	0	270	353
	S.E.	0	2	0	0	1	10	6	2	0	33	0	270	272
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	0	4	0	0	2	12	0	1	24	51	63	70	227
	S.E.	0	4	0	0	1	12	0	1	17	23	28	47	63
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	ST. CROP	0	0	2	0	2	2	38	0	17	20	61	39	180
	S.E.	0	0	2	0	1	2	20	0	11	14	34	28	52
	NO. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	ST. CROP	0	0	4	0	0	4	3	1	49	131	57	6	254
	S.E.	0	0	4	0	0	2	3	1	44	88	35	6	104
	NO. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	0	6	42	6	25	83	50	6	107	289	185	384	1183
	S.E.	0	4	28	6	7	36	21	2	51	99	57	275	307
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-88
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

SPOTTAIL SHINER — OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-88 (CONTINUED).

SPOTTAIL SHINER OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	15	0	15
	S.E.	0	0	0	0	N	0	0	0	0	15	0	15
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	15	0	15
	S.E.	0	0	0	0	N	0	0	0	0	15	0	15
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-88 (CONTINUED).

SPOTTAIL SHINER OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	21	0	21	N	42	0	42	N	0	44	44
	S.E.	N	21	0	21	N	17	0	17	N	44	44	44
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	21	0	21	N	42	0	42	N	0	44	44
	S.E.	N	21	0	21	N	17	0	17	N	44	44	44
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-88 (CONTINUED).

SPOTTAIL SHINER OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-88 (CONTINUED).

SPOTTAIL SHINER OLDER

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	63	44	107
	S.E.	N	0	N	0	0	27	44	51
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	15	0	15
	S.E.	N	0	N	0	0	15	0	15
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	0	78	44	121
	S.E.	N	0	N	0	0	31	44	53
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-89
STANDING CROP (IN THOUSANDS) BY WEEK AND REGION,
BEACH SEINE SURVEY, HUDSON RIVER ESTUARY, 1983.

SPOTTAIL SHINER — OLDER

WEEK BEGINNING MONDAY		REGIONS YK	TZ	CH	TP	WP	CW	PK	HP	KG	SG	CS	AI	COMBINED
01AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	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. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	ST. CROP	0	0	0	0	0	0	3	0	0	0	0	0	3
	S.E.	0	0	0	0	0	0	3	0	0	0	0	0	3
	NO. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	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. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
100CT83	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. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	ST. CROP	0	0	0	0	0	0	3	0	0	0	0	0	3
	S.E.	0	0	0	0	0	0	3	0	0	0	0	0	3
	NO. HAULS	30	144	84	32	30	37	30	29	31	54	60	42	603

TABLE B-90
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

ATLANTIC STURGEON YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-90 (CONTINUED).

ATLANTIC STURGEON YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	28	0	28	0	0	0	0
	S.E.	0	0	0	0	N	28	0	28	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	0	0	N	28	0	28	0	0	0	0
	S.E.	0	0	0	0	N	28	0	28	0	0	0	0
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-90 (CONTINUED).

ATLANTIC STURGEON YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-90 (CONTINUED).

ATLANTIC STURGEON YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-90 (CONTINUED).

ATLANTIC STURGEON YEARLING

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	28	0	28
	S.E.	N	0	N	0	0	28	0	28
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	0	28	0	28
	S.E.	N	0	N	0	0	28	0	28
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-91
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

ATLANTIC STURGEON YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-91 (CONTINUED).

ATLANTIC STURGEON YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
170CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-91 (CONTINUED).

ATLANTIC STURGEON YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	13	0	13	N	0	0	0
	S.E.	N	0	0	0	N	13	0	13	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	13	0	13	N	0	0	0
	S.E.	N	0	0	0	N	13	0	13	N	0	0	0
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-91 (CONTINUED).

ATLANTIC STURGEON YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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
22AUG83	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
05SEP83	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
19SEP83	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
030CT83	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
17OCT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-91 (CONTINUED).

ATLANTIC STURGEON YEARLING

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	N	0	0	13	0	13
	S.E.	N	0	N	0	0	13	0	13
	NO. TOWS	N	8	N	8	66	85	49	200
22AUG83	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	87	49	200
05SEP83	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	63	87	49	199
19SEP83	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	49	199
03OCT83	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	65	85	50	200
17OCT83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	0	N	0	0	13	0	13
	S.E.	N	0	N	0	0	13	0	13
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-92
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-92 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	53	0	53	0	0	0	0
	S.E.	0	0	0	0	N	40	0	40	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	27	0	27	0	0	0	0
	S.E.	0	0	0	0	N	27	0	27	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	10	0	10	0	0	0	0
	S.E.	0	0	0	0	N	10	0	10	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	0	0	N	90	0	90	0	0	0	0
	S.E.	0	0	0	0	N	49	0	49	0	0	0	0
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-92 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-92 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-92 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	53	0	53
	S.E.	N	0	N	0	0	40	0	40
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	27	0	27
	S.E.	N	0	N	0	0	27	0	27
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	10	0	10
	S.E.	N	0	N	0	0	10	0	10
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	0	90	0	90
	S.E.	N	0	N	0	0	49	0	49
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-93
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
170CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-93 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
170CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-93 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	216	0	216	N	30	0	30	N	0	0	0
	S.E.	N	94	0	94	N	19	0	19	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	216	0	216	N	30	0	30	N	0	0	0
	S.E.	N	94	0	94	N	19	0	19	N	0	0	0
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-93 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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
22AUG83	ST. CROP	N	15	0	15	N	67	0	67
	S.E.	N	15	0	15	N	53	0	53
	NO. TOWS	N	12	6	18	N	15	6	21
05SEP83	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
19SEP83	ST. CROP	N	14	0	14	N	12	0	12
	S.E.	N	14	0	14	N	12	0	12
	NO. TOWS	N	12	6	18	N	15	6	21
030CT83	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
17OCT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	29	0	29	N	79	0	79
	S.E.	N	21	0	21	N	55	0	55
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-93 (CONTINUED).

ATLANTIC STURGEON OLDER

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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	66	85	49	200
22AUG83	ST. CROP	N	290	N	290	0	619	0	619
	S.E.	N	124	N	124	0	167	0	167
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	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	63	87	49	199
19SEP83	ST. CROP	N	0	N	0	0	26	0	26
	S.E.	N	0	N	0	0	18	0	18
	NO. TOWS	N	8	N	8	64	86	49	199
030CT83	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	65	85	50	200
170CT83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	290	N	290	0	645	0	645
	S.E.	N	124	N	124	0	168	0	168
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-94
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

SHORTNOSE STURGEON YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-94 (CONTINUED).

SHORTNOSE STURGEON YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-94 (CONTINUED).

SHORTNOSE STURGEON YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	14	0	14	N	0	0	0
	S.E.	N	0	0	0	N	14	0	14	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	20	0	20	N	0	0	0
	S.E.	N	0	0	0	N	20	0	20	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	34	0	34	N	0	0	0
	S.E.	N	0	0	0	N	25	0	25	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-94 (CONTINUED).

WEEK BEGINNING MONDAY		SHORTNOSE STURGEON				YOUNG-OF-THE-YEAR			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-94 (CONTINUED).

WEEK BEGINNING MONDAY		SHORTNOSE STURGEON				YOUNG-OF-THE-YEAR			
		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	14	0	14
	S.E.	N	0	N	0	0	14	0	14
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	20	0	20
	S.E.	N	0	N	0	0	20	0	20
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	0	34	0	34
	S.E.	N	0	N	0	0	25	0	25
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-95
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

SHORTNOSE STURGEON YEARLING

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
030CT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-95 (CONTINUED).

SHORTNOSE STURGEON YEARLING

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
030CT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-95 (CONTINUED).

SHORTNOSE STURGEON YEARLING

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-95 (CONTINUED).

SHORTNOSE STURGEON — YEARLING

WEEK BEGINNING MONDAY		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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
22AUG83	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
05SEP83	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
19SEP83	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
030CT83	ST. CROP	N	14	0	14	N	0	0	0
	S.E.	N	14	0	14	N	0	0	0
	NO. TOWS	N	12	6	18	N	15	6	21
17OCT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	14	0	14	N	0	0	0
	S.E.	N	14	0	14	N	0	0	0
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-95 (CONTINUED).

SHORTNOSE STURGEON — YEARLING

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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	66	85	49	200
22AUG83	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	87	49	200
05SEP83	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	63	87	49	199
19SEP83	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	49	199
030CT83	ST. CROP	N	0	N	0	0	14	0	14
	S.E.	N	0	N	0	0	14	0	14
	NO. TOWS	N	8	N	8	65	85	50	200
170CT83	ST. CROP	N	22	N	22	0	22	0	22
	S.E.	N	22	N	22	0	22	0	22
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	22	N	22	0	37	0	37
	S.E.	N	22	N	22	0	26	0	26
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

TABLE B-96
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
ICHTHYOPLANKTON SURVEY, HUDSON RIVER ESTUARY, 1983.

SHORTNOSE STURGEON OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	52	146

N -- STRATUM NOT SAMPLED

TABLE B-96 (CONTINUED).

SHORTNOSE STURGEON OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-96 (CONTINUED).

SHORTNOSE STURGEON OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	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	10	11	21	N	6	7	13
09MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	N	0	0	0	N	28	0	28	N	0	0	0
	S.E.	N	0	0	0	N	28	0	28	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	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	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	N	0	0	0	N	28	0	28	N	0	0	0
	S.E.	N	0	0	0	N	28	0	28	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-96 (CONTINUED).

SHORTNOSE STURGEON — OLDER

WEEK BEGINNING MONDAY		SAUGERTIES SHOAL	SAUGERTIES BOTTOM	SAUGERTIES CHANNEL	SAUGERTIES REGION	CATSKILL SHOAL	CATSKILL BOTTOM	CATSKILL CHANNEL	CATSKILL REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	6
13JUN83	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
20JUN83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	3	3	6
27JUN83	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
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-96 (CONTINUED).

SHORTNOSE STURGEON OLDER

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	66	107	194
09MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	69	104	194
16MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	5	N	5	21	67	106	194
23MAY83	ST. CROP	N	0	N	0	0	28	0	28
	S.E.	N	0	N	0	0	28	0	28
	NO. TOWS	N	3	N	3	19	68	99	186
30MAY83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
06JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	19	68	99	186
13JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
20JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	63	108	187
27JUN83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
04JUL83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187
TOTAL	ST. CROP	N	0	N	0	0	28	0	28
	S.E.	N	0	N	0	0	28	0	28
	NO. TOWS	N	36	N	36	184	656	1048	1888

N -- STRATUM NOT SAMPLED

TABLE B-97
STANDING CROP (IN THOUSANDS) BY WEEK, REGION AND STRATUM,
FALL SHOALS SURVEY, HUDSON RIVER ESTUARY, 1983.

SHORTNOSE STURGEON OLDER

WEEK BEGINNING MONDAY		YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26
03OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-97 (CONTINUED).

SHORTNOSE STURGEON OLDER

WEEK BEGINNING MONDAY		INDIAN POINT				WEST POINT				CORNWALL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	2	13
03OCT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-97 (CONTINUED).

SHORTNOSE STURGEON OLDER

WEEK BEGINNING MONDAY		POUGHKEEPSIE				HYDE PARK				KINGSTON			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
030CT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-97 (CONTINUED).

WEEK BEGINNING MONDAY		SHORTNOSE STURGEON				OLDER			
		SAUGERTIES				CATSKILL			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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
22AUG83	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
05SEP83	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
19SEP83	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
03OCT83	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
17OCT83	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	13	6	19	N	14	6	20
TOTAL	ST. CROP	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	0
	NO. TOWS	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-97 (CONTINUED).

SHORTNOSE STURGEON OLDER

WEEK BEGINNING MONDAY		ALBANY				COMBINED			
		SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	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	66	85	49	200
22AUG83	ST. CROP	N	25	N	25	0	25	0	25
	S.E.	N	25	N	25	0	25	0	25
	NO. TOWS	N	8	N	8	64	87	49	200
05SEP83	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	63	87	49	199
19SEP83	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	49	199
030CT83	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	65	85	50	200
170CT83	ST. CROP	N	0	N	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0
	NO. TOWS	N	8	N	8	64	86	50	200
TOTAL	ST. CROP	N	25	N	25	0	25	0	25
	S.E.	N	25	N	25	0	25	0	25
	NO. TOWS	N	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED