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**ENVIRONMENTAL SCIENTISTS,  
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1557

1983 YEAR CLASS REPORT  
FOR THE HUDSON RIVER ESTUARY  
MONITORING PROGRAM

VOLUME 2.  
APPENDICES A AND B (PART 1)

Prepared under contract with  
CONSOLIDATED EDISON COMPANY  
OF NEW YORK, INC.

4 Irving Place  
New York, N.Y. 10003

Jointly financed by

Central Hudson Gas and Electric Corporation  
Consolidated Edison Company of New York, Inc.  
New York Power Authority  
Niagara Mohawk Power Corporation  
Orange and Rockland Utilities, Inc.

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R-175

1557

April 1985

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<sup>3</sup>) 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<sup>3</sup>) strained in tow i of stratum k within region r during week (or biweek) w

Equation 4. Density estimate (number per 1000 m<sup>3</sup>) 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<sup>3</sup>) of stratum k within region r

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

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

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

and

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

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

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

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

and

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

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

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

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

and

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

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

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

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

and

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

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

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

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

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

and

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



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

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

$C_{rw}$  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:

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

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

$\beta$  = 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  $\beta$  = 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

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

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

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

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

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

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

where MSE = mean square error from regression analysis of variance  
n = number of weekly CSC values used in the regression  
 $t_w$  = midpoint of sampling interval (days after 1 August) for week w  
 $\bar{t}$  = mean of the n values of  $t_w$   
 $t_I$  = 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  $N_I$  =  $N_0$  for 1 August CSC index, and  $N_{45}$  for 15 September CSC index, from Equation 20 (with t = days after 1 August)

$t_{.05(n-2)}$  = Student's t-value for n-2 degrees of freedom (n as in Equation 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:

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

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			COM- BINED 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	--
	<sup>a</sup> 44	<sup>a</sup> 45	<sup>a</sup> 46	<sup>a</sup> 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.

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

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-1 (CONTINUED).

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

WEEK BEGINNING MONDAY	YOLK-SAC LARVAE																	
	STRIPPED BASS						YONKERS						CROTON-HAVERSTRAW					
	SHOAL	BOTTOM	CHANNEL	REGION	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	0	0	0		
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0		
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	6	3	6	15		
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	147	0	36	183		
	S.E.	0	N	0	0	0	0	0	0	0	0	0	94	0	36	101		
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	6	3	6	15		
16MAY83	ST. CROP	134	N	1037	1170	3835	1170	4780	8740	1902	0	3225	1902	0	3225	5127		
	S.E.	134	N	1037	1045	1964	1045	2619	3275	1017	0	805	1017	0	805	1297		
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	6	3	6	15		
23MAY83	ST. CROP	0	N	0	0	32160	0	4615	46688	9913	1977	11552	3939	1977	11552	17468		
	S.E.	0	N	0	0	16258	0	1227	17171	5387	843	5985	1627	843	5985	6259		
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	5	4	4	13		
30MAY83	ST. CROP	109	N	1824	1934	1115	1934	9312	12493	2065	1054	422	3241	1054	422	4717		
	S.E.	109	N	1317	1321	1115	1321	4120	4741	2065	555	216	1356	555	216	1481		
	NO. TOWS	3	N	3	6	3	6	4	10	3	5	3	5	5	3	13		
06JUN83	ST. CROP	0	N	0	0	238	0	864	2227	1125	3660	810	1126	3660	810	5596		
	S.E.	0	N	0	0	238	0	542	847	606	778	477	424	778	477	1006		
	NO. TOWS	3	N	3	6	3	6	4	11	4	4	4	4	4	4	12		
13JUN83	ST. CROP	0	N	226	226	4764	226	18493	24695	1438	10258	4519	10814	10258	4519	25592		
	S.E.	0	N	110	110	3722	110	14440	14922	527	3154	2177	5761	3154	2177	6920		
	NO. TOWS	1	N	8	9	3	9	6	14	5	6	6	4	6	6	16		
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	23	0	23		
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	23	0	23		
	NO. TOWS	1	N	8	9	3	9	6	14	5	6	6	4	6	5	15		
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0		
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0		
	NO. TOWS	1	N	8	9	3	9	6	13	4	6	6	4	6	6	16		
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0		
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0		
	NO. TOWS	1	N	8	9	3	9	6	14	5	6	6	4	6	6	16		
TOTAL	ST. CROP	243	N	3087	3330	42112	3330	38064	94843	14666	16973	20564	21169	16973	20564	58706		
	S.E.	173	N	1680	1689	16833	1689	15302	23483	5825	3402	6441	6237	3402	6441	9590		
	NO. TOWS	22	N	50	72	30	72	45	117	42	46	52	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	
	ST. GROU P.	S.E. NO. TOWS	0	0	0	0	0	0	N	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02MAY83			0	0	0	0	0	0	N	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			4	7	25	36	36	36	N	N	4	4	30	30	34	34	5	5	12	12	6	6	23	23
09MAY83			12	0	0	12	12	12	N	N	0	0	355	355	355	355	0	0	29	29	271	271	300	300
			12	0	0	12	12	12	N	N	0	0	111	111	111	111	0	0	21	21	71	71	74	74
			4	8	24	36	36	36	N	N	4	4	30	30	34	34	5	5	13	13	5	5	23	23
16MAY83			182	165	2036	2383	2383	2383	N	N	21	21	1956	1956	1978	1978	14	14	97	97	506	506	617	617
			37	94	422	434	434	434	N	N	21	21	305	305	305	305	6	6	25	25	178	178	180	180
			4	7	25	36	36	36	N	N	7	7	30	30	37	37	5	5	10	10	5	5	20	20
23MAY83			1201	532	6471	8205	8205	8205	N	N	78	78	2287	2287	2365	2365	138	138	852	852	2340	2340	3331	3331
			971	257	2651	2835	2835	2835	N	N	30	30	428	428	430	430	73	73	233	233	1692	1692	1709	1709
			3	6	13	22	22	22	N	N	7	7	23	23	30	30	5	5	9	9	6	6	20	20
30MAY83			353	2849	11100	14302	14302	14302	N	N	2225	2225	14029	14029	16254	16254	82	82	8320	8320	4724	4724	13125	13125
			152	1715	2962	3426	3426	3426	N	N	1856	1856	4508	4508	4875	4875	45	45	3549	3549	2737	2737	4482	4482
			3	6	15	24	24	24	N	N	6	6	23	23	29	29	5	5	9	9	6	6	20	20
06JUN83			377	12352	14939	27668	27668	27668	N	N	2448	2448	14497	14497	16945	16945	532	532	4203	4203	5319	5319	10054	10054
			82	5667	5118	7636	7636	7636	N	N	1066	1066	2840	2840	3034	3034	284	284	1427	1427	2620	2620	2996	2996
			4	6	14	24	24	24	N	N	7	7	23	23	30	30	5	5	9	9	5	5	19	19
13JUN83			2624	29602	64297	96523	96523	96523	N	N	6900	6900	38493	38493	45393	45393	702	702	20312	20312	8512	8512	29526	29526
			629	18131	14133	22997	22997	22997	N	N	2701	2701	6613	6613	7144	7144	531	531	5928	5928	4272	4272	7326	7326
			5	5	16	26	26	26	N	N	8	8	25	25	33	33	3	3	12	12	13	13	28	28
20JUN83			23	523	1598	2144	2144	2144	N	N	3609	3609	8659	8659	12268	12268	104	104	557	557	210	210	870	870
			16	493	663	826	826	826	N	N	1141	1141	1527	1527	1907	1907	80	80	131	131	91	91	179	179
			5	5	17	27	27	27	N	N	8	8	25	25	33	33	3	3	12	12	13	13	28	28
27JUN83			0	0	60	60	60	60	N	N	277	277	1615	1615	1893	1893	0	0	104	104	163	163	267	267
			0	0	60	60	60	60	N	N	106	106	376	376	391	391	0	0	48	48	84	84	97	97
			5	6	16	27	27	27	N	N	8	8	25	25	33	33	3	3	12	12	13	13	28	28
04JUL83			0	0	0	0	0	0	N	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	N	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			5	5	16	26	26	26	N	N	8	8	25	25	33	33	3	3	12	12	13	13	28	28
TOTAL			4771	46023	100503	151297	151297	151297	N	N	15559	15559	81892	81892	97451	97451	1572	1572	34473	34473	22045	22045	58091	58091
			1171	19082	15568	24655	24655	24655	N	N	3633	3633	8654	8654	9385	9385	613	613	7061	7061	5959	5959	9260	9260
			42	61	181	284	284	284	N	N	67	67	259	259	326	326	42	42	110	110	85	85	237	237

N -- STRATUM NOT SAMPLED



TABLE B-2 (CONTINUED).

STRIPED BASS YOLK-SAC LARVAE

WEEK  
BEGINNING  
MONDAY

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

N -- STRATUM NOT SAMPLED

TABLE B-2 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPED BASS			YOLK-SAC LARVAE			
	SAUGERTIES			CATSKILL			
	SHOAL	BOTTOM	CHANNEL	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	0	0	0
	S.E.	N	0	0	N	0	0
	NO. TOWS	N	3	3	N	3	6
09MAY83	ST. CROP	N	0	0	N	0	0
	S.E.	N	0	0	N	0	0
	NO. TOWS	N	3	3	N	3	6
16MAY83	ST. CROP	N	0	0	N	0	0
	S.E.	N	0	0	N	0	0
	NO. TOWS	N	4	3	N	3	7
23MAY83	ST. CROP	N	0	0	N	0	0
	S.E.	N	0	0	N	0	0
	NO. TOWS	N	5	3	N	3	8
30MAY83	ST. CROP	N	229	0	N	0	0
	S.E.	N	140	0	N	0	0
	NO. TOWS	N	5	3	N	3	8
06JUN83	ST. CROP	N	0	0	N	0	0
	S.E.	N	0	0	N	0	0
	NO. TOWS	N	5	3	N	3	8
13JUN83	ST. CROP	N	4280	2033	N	1804	1884
	S.E.	N	1668	533	N	704	709
	NO. TOWS	N	4	2	N	3	6
20JUN83	ST. CROP	N	950	1968	N	328	1152
	S.E.	N	687	1968	N	328	427
	NO. TOWS	N	3	2	N	3	6
27JUN83	ST. CROP	N	0	0	N	0	0
	S.E.	N	0	0	N	0	0
	NO. TOWS	N	4	2	N	3	6
01JUL83	ST. CROP	N	0	0	N	0	0
	S.E.	N	0	0	N	0	0
	NO. TOWS	N	4	2	N	3	6
TOTAL	ST. CROP	N	5458	4001	N	2132	3037
	S.E.	N	1809	2039	N	777	827
	NO. TOWS	N	40	26	N	30	60

N -- STRATIUM NOT SAMPLED

TABLE B-2 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPED BASS						YOLK-SAC LARVAE					
	ALBANY			COMBINED			ALBANY			COMBINED		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	N	0	0	0	0	0	0	0	0
	S.E.	N	0	N	0	0	0	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.

WEEK BEGINNING MONDAY	STRIPED BASS												POST YOY K-SAC LARVAE					
	YONKERS						TAPPAN ZEE						CROTON-HAVERSTRAW					
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION		
02MAY83	ST. CROP	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	S.E.	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	NO. TOWS	N	3	6	3	3	4	3	10	6	3	6	6	3	6	15		
09MAY83	ST. CROP	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	S.E.	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	NO. TOWS	N	3	6	3	4	3	10	6	3	6	15	6	3	6	15		
16MAY83	ST. CROP	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	S.E.	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	NO. TOWS	N	3	6	3	4	3	10	6	3	6	15	6	3	6	15		
23MAY83	ST. CROP	N	0	0	2053	1299	1394	4746	262	128	103	492	262	128	103	492		
	S.E.	N	0	0	594	556	710	1080	175	128	103	240	175	128	103	240		
	NO. TOWS	N	3	6	3	4	4	11	5	4	4	13	5	4	4	13		
30MAY83	ST. CROP	N	1177	1664	1672	445	2491	4608	78	681	331	1090	78	681	331	1090		
	S.E.	N	618	787	651	104	1320	1475	78	525	231	579	78	525	231	579		
	NO. TOWS	N	3	6	3	3	4	10	5	5	3	13	5	5	3	13		
06JUN83	ST. CROP	N	0	780	357	4232	101	4691	549	7163	1616	9328	549	7163	1616	9328		
	S.E.	N	0	494	357	1681	101	1722	291	3305	1498	3640	291	3305	1498	3640		
	NO. TOWS	N	3	6	3	4	4	11	4	4	12	12	4	4	4	12		
13JUN83	ST. CROP	N	0	221	38397	9521	42027	89945	6733	9727	30160	46620	6733	9727	30160	46620		
	S.E.	N	0	156	21828	3975	25368	33702	2138	4238	12699	13558	2138	4238	12699	13558		
	NO. TOWS	N	1	8	3	5	6	14	4	6	6	16	4	6	6	16		
20JUN83	ST. CROP	N	160	486	10269	4258	16495	31022	59126	17794	25161	102081	59126	17794	25161	102081		
	S.E.	N	0	123	4420	1367	10932	11871	37988	6368	4644	38797	37988	6368	4644	38797		
	NO. TOWS	N	1	9	3	5	6	14	4	6	5	15	4	6	5	15		
27JUN83	ST. CROP	N	0	0	2839	480	5104	8423	4216	2409	4053	10678	4216	2409	4053	10678		
	S.E.	N	0	0	1658	196	1650	2347	1088	792	585	1467	1088	792	585	1467		
	NO. TOWS	N	1	8	3	4	6	13	4	6	6	16	4	6	6	16		
01JUL83	ST. CROP	N	0	0	664	90	256	1010	525	60	2310	2895	525	60	2310	2895		
	S.E.	N	0	0	501	56	125	520	77	41	1600	1603	77	41	1600	1603		
	NO. TOWS	N	1	8	3	5	6	14	4	6	6	16	4	6	6	16		
TOTAL	ST. CROP	N	1337	1814	56251	20324	67869	144444	71488	37961	63735	173184	71488	37961	63735	173184		
	S.E.	N	618	722	22359	4567	27714	35900	38066	8388	13713	41321	38066	8388	13713	41321		
	NO. TOWS	N	22	50	30	42	45	117	48	46	52	146	48	46	52	146		

N -- STRATUM NOT SAMPLED

TABLE B-3 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPED BASS												POST YOLK-SAC LARVAE			
	INDIAN POINT				WEST POINT				CORNWALL							
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	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	N	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	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	N	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	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	0	0	0
	S.E.	14	22	0	27	N	15	71	73	0	0	0	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	0	0	69
	S.E.	45	0	242	247	N	14	96	97	0	45	0	45	0	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	0	0	275
	S.E.	164	2415	3486	4244	N	276	892	934	6	188	0	188	0	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).

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

N -- STRATUM NOT SAMPLED

TABLE B-3 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED

TABLE B-3 (CONTINUED).

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

N -- STRATUM NOT SAMPLED



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

WEEK BEGINNING MONDAY	YOUNG-OF-THE-YEAR															
	STRIPED BASS						CROTON-HAVERSTRAW									
	YONKERS			TAPPAN ZEE			SHOALS			CHANNEL			REGION			
	SHOAL	BOTTOM	CHANNEL	REGION	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	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	6	3	6	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	6	3	6	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	6	3	6	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	4	5	4	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	5	5	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	4	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	4	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	6	4	6	6	16
27JUN83	ST. CROP	0	N	0	0	513	0	0	513	0	0	0	52	0	0	52
	S.E.	0	N	0	0	513	0	0	513	0	0	0	52	0	0	52
	NO. TOWS	1	N	8	9	3	4	6	13	3	4	4	4	6	6	16
04JUL83	ST. CROP	0	N	0	0	252	0	68	320	0	0	0	856	20	0	876
	S.E.	0	N	0	0	128	0	68	145	0	0	0	473	20	0	473
	NO. TOWS	1	N	8	9	3	5	6	14	3	5	6	4	6	6	16
TOTAL	ST. CROP	0	N	0	0	765	0	68	833	0	0	0	908	20	0	928
	S.E.	0	N	0	0	528	0	68	533	0	0	0	476	20	0	476
	NO. TOWS	22	N	50	72	30	42	45	117	30	48	46	48	52	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	N	BOTTOM	CHANNEL	REGION	SHOAL	N	BOTTOM	CHANNEL	REGION	SHOAL	N	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP S.E. NO. TOWS	0 0 4	0 0 7	0 0 25	0 0 36	N N N	0 0 4	0 0 30	0 0 34	0 0 5	0 0 5	0 0 12	0 0 6	0 0 23	0 0 5	0 0 5	0 0 13	0 0 5	0 0 23
09MAY83	ST. CROP S.E. NO. TOWS	0 0 4	0 0 8	0 0 24	0 0 36	N N N	0 0 4	0 0 30	0 0 34	0 0 5	0 0 5	0 0 13	0 0 5	0 0 23	0 0 5	0 0 5	0 0 13	0 0 5	0 0 23
16MAY83	ST. CROP S.E. NO. TOWS	0 0 4	0 0 7	0 0 25	0 0 36	N N N	0 0 7	0 0 30	0 0 37	0 0 5	0 0 5	0 0 10	0 0 5	0 0 20	0 0 5	0 0 5	0 0 10	0 0 5	0 0 20
23MAY83	ST. CROP S.E. NO. TOWS	0 0 3	0 0 6	0 0 13	0 0 22	N N N	0 0 7	0 0 23	0 0 30	0 0 5	0 0 5	0 0 9	0 0 6	0 0 20	0 0 5	0 0 5	0 0 9	0 0 6	0 0 20
30MAY83	ST. CROP S.E. NO. TOWS	0 0 3	0 0 6	0 0 15	0 0 24	N N N	0 0 6	0 0 23	0 0 29	0 0 5	0 0 5	0 0 9	0 0 6	0 0 20	0 0 5	0 0 5	0 0 9	0 0 6	0 0 20
06JUN83	ST. CROP S.E. NO. TOWS	0 0 4	0 0 6	0 0 14	0 0 24	N N N	0 0 7	0 0 23	0 0 30	0 0 5	0 0 5	0 0 9	0 0 5	0 0 19	0 0 5	0 0 5	0 0 9	0 0 5	0 0 19
13JUN83	ST. CROP S.F. NO. TOWS	0 0 5	0 0 5	0 0 16	0 0 26	N N N	0 0 8	0 0 25	0 0 33	0 0 3	0 0 3	0 0 12	0 0 13	0 0 28	0 0 3	0 0 3	0 0 12	0 0 13	0 0 28
20JUN83	ST. CROP S.E. NO. TOWS	0 0 5	0 0 5	0 0 17	0 0 27	N N N	0 0 8	0 0 25	0 0 33	0 0 3	0 0 3	0 0 12	0 0 13	0 0 28	0 0 3	0 0 3	0 0 12	0 0 13	0 0 28
27JUN83	ST. CROP S.E. NO. TOWS	0 0 5	0 0 6	32 32 16	32 32 27	N N N	0 0 8	0 0 25	0 0 33	0 0 3	0 0 3	0 0 12	0 0 13	0 0 28	0 0 3	0 0 3	0 0 12	0 0 13	0 0 28
04JUL83	ST. CROP S.E. NO. TOWS	605 278 5	175 82 5	331 196 16	1111 350 26	N N N	0 0 8	63 35 25	63 35 33	0 0 3	0 0 3	0 0 12	0 0 13	0 0 28	0 0 3	0 0 3	0 0 12	0 0 13	0 0 28
TOTAL	ST. CROP S.E. NO. TOWS	605 278 42	175 82 61	363 199 181	1143 352 284	N N N	0 0 67	63 35 259	63 35 326	0 0 42	0 0 42	0 0 110	0 0 85	0 0 237	0 0 42	0 0 42	0 0 110	0 0 85	0 0 237

N -- STRATUM NOT SAMPLED

TABLE B-4 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

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

N -- STRATUM NOT SAMPLED

TABLE B-4 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPED BASS			YOUNG-OF-THE-YEAR			CATSKILL			
	SAUGERTIES			SHOAL			BOTTOM CHANNEL			
	SHOAL	BOTTOM	CHANNEL	REGION	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	N	0	0	0	0	0	N	0	0	0
	N	0	0	0	0	0	N	0	0	0
	N	3	3	6	3	6	N	3	3	6
09MAY83	N	0	0	0	0	0	N	0	0	0
	N	0	0	0	0	0	N	0	0	0
	N	3	3	6	3	6	N	3	3	6
16MAY83	N	0	0	0	0	0	N	0	0	0
	N	0	0	0	0	0	N	0	0	0
	N	4	3	7	3	7	N	3	3	6
23MAY83	N	0	0	0	0	0	N	0	0	0
	N	0	0	0	0	0	N	0	0	0
	N	5	3	8	3	8	N	3	3	6
30MAY83	N	0	0	0	0	0	N	0	0	0
	N	0	0	0	0	0	N	0	0	0
	N	5	3	8	3	8	N	3	3	6
06JUN83	N	0	0	0	0	0	N	0	0	0
	N	0	0	0	0	0	N	0	0	0
	N	5	3	8	3	8	N	3	3	6
13JUN83	N	0	0	0	0	0	N	0	0	0
	N	0	0	0	0	0	N	0	0	0
	N	4	2	6	2	6	N	3	3	6
20JUN83	N	0	0	0	0	0	N	0	0	0
	N	0	0	0	0	0	N	0	0	0
	N	3	2	5	2	5	N	3	3	6
27JUN83	N	0	0	0	0	0	N	0	0	0
	N	0	0	0	0	0	N	0	0	0
	N	4	2	6	2	6	N	3	3	6
04JUL83	N	0	0	0	0	0	N	0	0	0
	N	0	0	0	0	0	N	0	0	0
	N	4	2	6	2	6	N	3	3	6
TOTAL	N	0	0	0	0	0	N	0	0	0
	N	0	0	0	0	0	N	0	0	0
	N	40	26	66	26	66	N	30	30	60

N -- STRATIUM NOT SAMPLED

TABLE B-4 (CONTINUED).

STRIPED BASS YOUNG-OF-THE-YEAR

WEEK BEGINNING MONDAY	ALBANY			COMBINED			REGION
	SHOAL	BOTTOM	CHANNEL	SHOAL	BOTTOM	CHANNEL	
02MAY83	ST. CROP	0	N	0	0	0	0
	S.E.	0	N	0	0	0	0
	NO. TOWS	5	N	5	21	66	107
09MAY83	ST. CROP	0	N	0	0	0	0
	S.E.	0	N	0	0	0	0
	NO. TOWS	5	N	5	21	69	104
16MAY83	ST. CROP	0	N	0	0	0	0
	S.E.	0	N	0	0	0	0
	NO. TOWS	5	N	5	21	67	106
23MAY83	ST. CROP	0	N	0	0	0	0
	S.E.	0	N	0	0	0	0
	NO. TOWS	3	N	3	19	68	99
30MAY83	ST. CROP	0	N	0	0	0	0
	S.E.	0	N	0	0	0	0
	NO. TOWS	3	N	3	19	68	99
06JUN83	ST. CROP	0	N	0	0	0	0
	S.E.	0	N	0	0	0	0
	NO. TOWS	3	N	3	19	68	99
13JUN83	ST. CROP	0	N	0	0	0	0
	S.E.	0	N	0	0	0	0
	NO. TOWS	3	N	3	16	63	108
20JUN83	ST. CROP	0	N	0	0	0	0
	S.E.	0	N	0	0	0	0
	NO. TOWS	3	N	3	16	63	108
27JUN83	ST. CROP	0	N	0	0	0	0
	S.E.	0	N	0	0	0	0
	NO. TOWS	3	N	3	565	0	32
04JUL83	ST. CROP	0	N	0	215	462	2390
	S.E.	0	N	0	87	210	608
	NO. TOWS	3	N	3	16	62	109
TOTAL	ST. CROP	0	N	0	2278	494	2987
	S.E.	0	N	0	764	87	797
	NO. TOWS	36	N	36	184	656	1048

N -- STRATUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	YOUNG-OF-THE-YEAR											
	STRIPED BASS				YONKERS				CROTON-HAVERSTRAW			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	2155	0	2267	301	226	0	527
	S.E.	0	N	0	0	1188	0	1194	132	108	0	170
	NO. TOWS	7	N	5	12	32	7	46	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	282	0	282	9	0	0	9
	S.E.	0	N	0	0	85	0	85	9	0	0	9
	NO. TOWS	7	N	5	12	29	9	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	153	0	493	105	92	0	197
	S.E.	0	N	0	0	142	0	368	59	60	0	84
	NO. TOWS	7	N	5	12	29	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	32	0	32	10	31	0	41
	S.E.	0	N	0	0	23	0	23	10	22	0	24
	NO. TOWS	6	N	5	11	31	8	47	15	8	3	26
03OCT83	ST. CROP	13	N	0	13	39	0	499	348	258	0	607
	S.E.	13	N	0	13	31	0	413	129	114	0	172
	NO. TOWS	6	N	5	11	31	7	46	17	8	3	28
17OCT83	ST. CROP	0	N	0	0	11	0	11	9	0	0	9
	S.E.	0	N	0	0	11	0	11	9	0	0	9
	NO. TOWS	7	N	5	12	30	8	46	16	7	3	26
TOTAL	ST. CROP	13	N	0	13	2673	911	3583	781	607	0	1388
	S.E.	13	N	0	13	1200	545	1318	194	169	0	258
	NO. TOWS	40	N	30	70	182	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	168	0	190
	S.E.	259	32	333	423	N	42	0	42	65	0	67
	NO. TOWS	6	5	3	14	N	4	3	7	6	3	14
22AUG83	ST. CROP	0	0	0	0	N	0	0	0	0	0	9
	S.E.	0	0	0	0	N	0	0	0	0	0	9
	NO. TOWS	7	5	2	14	N	5	3	8	5	3	13
05SEP83	ST. CROP	0	13	0	13	N	0	0	0	17	0	20
	S.E.	0	13	0	13	N	0	0	0	17	0	17
	NO. TOWS	6	6	3	15	N	5	3	8	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	0	0	0	0	0	3
	S.E.	0	0	0	0	N	0	0	0	0	0	3
	NO. TOWS	6	5	3	14	N	5	3	8	5	2	13
03OCT83	ST. CROP	41	56	0	97	N	15	0	15	0	0	9
	S.E.	35	36	0	50	N	15	0	15	0	0	5
	NO. TOWS	6	5	3	14	N	4	2	6	6	4	15
17OCT83	ST. CROP	0	14	0	14	N	0	0	0	0	0	36
	S.E.	0	14	0	14	N	0	0	0	0	0	10
	NO. TOWS	6	6	3	15	N	5	3	8	5	3	13
TOTAL	ST. CROP	371	158	333	861	N	57	0	57	185	0	267
	S.E.	261	52	333	426	N	44	0	44	68	0	71
	NO. TOWS	37	32	17	86	N	28	17	45	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
	ST. GROU P	S.E. NO. TOWS	ST. GROU P	S.E. NO. TOWS	ST. GROU P	S.E. NO. TOWS	ST. GROU P	S.E. NO. TOWS	ST. GROU P	S.E. NO. TOWS	ST. GROU P	S.E. NO. TOWS
08AUG83	N	198	0	198	N	26	0	26	N	38	0	38
	N	115	0	115	N	26	0	26	N	0	0	27
	N	5	3	8	N	6	4	10	N	9	6	15
22AUG83	N	67	0	67	N	0	0	0	N	117	0	117
	N	67	0	67	N	0	0	0	N	0	0	68
	N	5	3	8	N	6	4	10	N	9	6	15
05SEP83	N	0	0	0	N	0	0	0	N	61	0	61
	N	0	0	0	N	0	0	0	N	0	0	32
	N	5	3	8	N	6	4	10	N	9	6	15
19SEP83	N	34	0	34	N	13	0	13	N	97	0	97
	N	34	0	34	N	13	0	13	N	0	0	29
	N	5	3	8	N	6	4	10	N	9	6	15
03OCT83	N	0	0	0	N	14	0	14	N	16	0	16
	N	0	0	0	N	14	0	14	N	0	0	16
	N	5	3	8	N	6	4	10	N	9	6	15
17OCT83	N	156	0	156	N	29	0	29	N	0	0	0
	N	85	0	85	N	29	0	29	N	0	0	0
	N	5	3	8	N	6	4	10	N	9	6	15
TOTAL	N	456	0	456	N	82	0	82	N	330	0	330
	N	161	0	161	N	44	0	44	N	0	0	87
	N	30	18	48	N	36	24	60	N	54	36	90

N -- STRATIUM NOT SAMPLED



TABLE B-5 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPIED BASS			YOUNG-OF-THE-YEAR			CATSKILL		
	SAUGERTIES			SHOAL			BOTTOM CHANNEL		
	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
03OCT83	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
17OCT83	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).

WEEK BEGINNING MONDAY	STRIPED BASS		YOUNG-OF-THE-YEAR						
			ALBANY			COMBINED			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	
08AUG83	ST. CROP	N	0	N	0	2807	1671	333	4811
	S.E. NO. TOWS	N	0	N	0	1223	348	333	1315
22AUG83	ST. CROP	N	116	N	116	299	449	0	749
	S.E. NO. TOWS	N	88	N	88	86	156	0	178
05SEP83	ST. CROP	N	34	N	34	262	623	0	885
	S.E. NO. TOWS	N	34	N	34	154	351	0	383
19SEP83	ST. CROP	N	0	N	0	63	87	49	199
	S.E. NO. TOWS	N	8	N	8	64	86	0	270
03OCT83	ST. CROP	N	0	N	0	44	226	0	64
	S.E. NO. TOWS	N	8	N	8	25	58	49	199
17OCT83	ST. CROP	N	0	N	0	451	932	0	1383
	S.E. NO. TOWS	N	8	N	8	138	431	0	452
TOTAL	ST. CROP	N	24	N	24	56	245	0	301
	S.E. NO. TOWS	N	8	N	8	17	95	0	97
		N	175	N	175	3919	4146	333	8398
		N	97	N	97	1244	683	333	1458
		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.

WEEK BEGINNING MONDAY	YOUNG-OF-THE-YEAR STRIPED BASS												
	YK	IZ	CH	IP	WP	REGIONS			KG	SG	CS	AI	COMBINED
	ST. CROP S.E. NO. HAULS					CW	PK	HP					
01AUG83	105 66 5	292 49 24	156 38 14	103 37 5	43 19 5	162 67 6	62 33 5	17 9 5	69 47 5	125 42 9	262 135 10	78 30 7	1473 197 100
15AUG83	116 30 5	292 73 24	284 90 14	29 13 5	7 3 5	59 25 6	1 1 5	7 5 5	50 42 5	47 24 9	124 73 10	25 9 7	1042 151 100
29AUG83	35 14 5	1427 315 24	184 62 14	35 16 5	24 12 5	197 57 6	17 11 5	6 5 5	10 7 5	35 16 9	83 38 10	16 13 7	2069 330 100
12SEP83	27 15 5	3040 1031 24	501 145 14	138 69 5	27 19 5	130 51 6	1 1 5	0 0 5	24 13 5	62 41 9	98 71 10	10 6 7	4060 1048 100
26SEP83	3 2 5	377 167 24	254 90 14	114 55 5	1 1 5	70 19 7	9 7 5	0 0 5	2 2 5	16 8 9	51 38 10	4 3 7	899 202 101
10OCT83	0 0 5	38 19 24	159 53 14	12 9 7	15 14 5	51 18 6	3 3 5	0 0 4	1 1 6	6 4 9	26 19 10	0 0 7	312 65 102
TOTAL	286 76 30	5466 1095 144	1539 213 84	432 98 32	118 33 30	668 108 37	94 35 30	31 12 29	156 64 31	291 66 54	643 178 60	132 34 42	9855 1147 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 AUG 1 - AUG 7  
 YOUNG-OF-THE-YEAR

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

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

2.136 VAR(SBR) = 0.081  
 0.255 VAR(SBE) = 0.002  
 0.5

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

STRIPED BASS TABLE B-7 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 AUG 8 - AUG 14

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

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

2.136 VAR(SBR) = 0.081  
 0.255 VAR(SBE) = 0.002  
 0.5

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

TABLE B-7 (CONTINUED).  
 STRIPED BASS YOUNG-OF-THE-YEAR  
 AUG 15 - AUG 21

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

STRIPED BASS TABLE B-7 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 AUG 22 - AUG 28

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

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

2.136 VAR(SBR) = 0.081  
 0.255 VAR(SBE) = 0.002  
 0.5

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

STRIPED BASS (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 AUG 29 - SEP 4

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

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

2.136 VAR(SBR) = 0.081  
 0.255 VAR(SBE) = 0.002  
 0.5

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



STRIPED BASS (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 5 - SEP 11

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

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

2.136 VAR(SBR) = 0.081  
 0.255 VAR(SBE) = 0.002  
 0.5

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

STRIPED BASS (CONTINUED). YOUNG-OF-THE-YEAR  
 SEP 12 - SEP 18

REGION	STRATUM				REGIONAL TOTALS
	SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL	
YONKERS	ST. CROP SE	0 * 0 *	0 * 0 *	0 * 0 *	227 132
TAPPAN ZEE	ST. CROP SE	139 * 124 *	339 * 339 *	0 * 0 *	25946 10305
CROTON-HAVERSTRAW	ST. CROP SE	86 * 52 *	123 * 82 *	0 * 0 *	4408 1530
INDIAN POINT	ST. CROP SE	0 * 0 *	13 * 13 *	0 * 0 *	1171 629
WEST POINT	ST. CROP SE	0 * 0 *	0 * 0 *	0 * 0 *	230 165
CORNWALL	ST. CROP SE	5 * 5 *	17 * 17 *	0 * 0 *	1107 493
POUGHKEEPSIE	ST. CROP SE	2 * 2 *	31 * 31 *	0 * 0 *	45 33
HYDE PARK	ST. CROP SE	1 * 1 *	12 * 12 *	0 * 0 *	13 12
KINGSTON	ST. CROP SE	31 * 12 *	118 * 45 *	0 * 0 *	350 128
SAUGERTIES	ST. CROP SE	19 * 11 *	52 * 31 *	0 * 0 *	593 365
CATSKILL	ST. CROP SE	14 * 14 *	22 * 22 *	0 * 0 *	860 622
ALBANY	ST. CROP SE	9 * 9 *	7 * 7 *	15 * 15 *	113 60
STRATUM TOTAL	ST. CROP SE	305 * 136 *	733 * 356 *	15 * 15 *	35063 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					REGIONAL TOTALS
	SHORE ZONE	SHOAL (10'-20')	BOTTOM	CHANNEL		
YONKERS	ST. CROP SE	227 132	0 0	0 0	0 0	227 132
TAPPAN ZEE	ST. CROP SE	25468 10298	47 35	0 0	0 0	25515 10298
CROTON-HAVERSTRAW	ST. CROP SE	4199 1527	14 14	62 44	0 0	4276 1527
INDIAN POINT	ST. CROP SE	1158 629	0 0	0 0	0 0	1158 629
WEST POINT	ST. CROP SE	230 165	0 0	0 0	0 0	230 165
CORNWALL	ST. CROP SE	1085 493	5 5	0 0	0 0	1090 493
POUGHKEEPSIE	ST. CROP SE	12 12	4 4	62 62	0 0	78 63
HYDE PARK	ST. CROP SE	0 0	1 1	24 24	0 0	26 24
KINGSTON	ST. CROP SE	202 119	38 11	144 42	0 0	384 127
SAUGERTIES	ST. CROP SE	523 364	24 14	68 38	0 0	615 366
GATSKILL	ST. CROP SE	824 622	0 0	0 0	0 0	824 622
ALBANY	ST. CROP SE	81 57	0 0	0 0	0 0	81 57
STRATUM TOTAL	ST. CROP SE	34009 10469	134 42	361 98	0 0	34505 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 SEP 26 - OCT 2  
 YOUNG-OF-THE-YEAR

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

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

STRIPED BASS (CONTINUED).  
YOUNG-OF-THE-YEAR  
OCT 3 - OCT 9

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

STRIPED BASS NIGHT/DAY CATCH RATIO = SBR= 2.136 VAR(SBR) = 0.081  
 STRIPED BASS BEACH SEINE EFFICIENCY = SBE= 0.255 VAR(SBE) = 0.002  
 STRIPED BASS ICHTHYO EFFICIENCY = SBS= 0.5 #---STD ERROR COULD NOT BE CALCULATED

STRIPED BASS (CONTINUED).  
YOUNG-OF-THE-YEAR  
OCT 10 - OCT 16

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

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

2.136 VAR(SBR) = 0.081  
0.255 VAR(SBE) = 0.002  
0.5

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

STRIPED BASS (CONTINUED).  
YOUNG-OF-THE-YEAR  
OCT 17 - OCT 23

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

WEEK BEGINNING MONDAY	STRIPED BASS											
	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
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	42	0	72
	S.F.	0	N	0	0	0	0	0	0	42	0	52
	NO. TOWS	3	N	3	6	3	4	3	10	3	6	15
23MAY83	ST. CROP	40	N	0	40	0	0	0	0	0	0	0
	S.E.	40	N	0	40	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	4	10	5	3	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	119	0	0	0
	S.E.	0	N	0	0	119	0	0	119	0	0	0
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	36	0	36
	S.E.	0	N	0	0	0	0	0	0	36	0	36
	NO. TOWS	1	N	8	9	3	5	6	14	6	6	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	159	0	0	0
	S.E.	0	N	0	0	159	0	0	159	0	0	0
	NO. TOWS	1	N	8	9	3	5	6	14	6	5	15
27JUN83	ST. CROP	0	N	0	0	0	0	72	208	31	0	74
	S.F.	0	N	0	0	135	0	72	153	31	0	53
	NO. TOWS	1	N	8	9	3	4	6	13	6	6	16
04JUL83	ST. CROP	0	N	74	74	46	0	0	414	41	0	41
	S.E.	0	N	74	74	46	0	0	206	41	0	41
	NO. TOWS	1	N	8	9	5	6	6	14	6	6	16
TOTAL	ST. CROP	40	N	74	113	46	72	72	900	151	0	224
	S.E.	40	N	74	84	46	72	72	325	76	0	92
	NO. TOWS	22	N	50	72	42	45	45	117	46	52	146

N -- STRATUM NOT SAMPLED



TABLE B-8 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-8 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-8 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-8 (CONTINUED).

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

WEEK BEGINNING MONDAY	STRIPED BASS											
	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	9	0	9
	S.E.	0	N	0	0	0	0	0	0	9	0	9
	NO. TOWS	7	N	5	12	7	46	16	3	27		
22AUG83	ST. CROP	48	N	0	48	0	0	0	0	0	0	0
	S.E.	48	N	0	48	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	9	46	16	3	27		
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	8	45	16	2	26		
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	8	47	15	3	26		
03OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	7	46	17	3	28		
17OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	8	46	16	7	26		
TOTAL	ST. CROP	48	N	0	48	0	0	0	0	9	0	9
	S.E.	48	N	0	48	0	0	0	0	9	0	9
	NO. TOWS	40	N	30	70	47	276	96	17	160		

N -- STRATUM NOT SAMPLED

TABLE B-9 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-9 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPED BASS											
	POUGHKEEPSIE				HYDE PARK				KINGSTON			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. GROU	0	0	0	N	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. GROU	0	0	0	N	0	0	0	N	31	0	31
	S.E.	0	0	0	N	0	0	0	N	0	0	31
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. GROU	0	0	0	N	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. GROU	0	0	0	N	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. GROU	0	0	0	N	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. GROU	0	0	0	N	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. GROU	0	0	0	N	0	0	0	N	31	0	31
	S.E.	0	0	0	N	0	0	0	N	0	0	31
	NO. TOWS	30	18	48	N	36	24	60	N	54	36	90

N -- STRAIUM NOT SAMPLED

TABLE B-9 (CONTINUED).

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

N -- STRATUM NOT SAMPLED



TABLE B-9 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPIED BASS			YEARLING				
	ALBANY			COMBINED				
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	N	0	0	9	0	9
	S.E.	0	N	0	0	9	0	9
	NO. TOWS	8	N	8	66	85	49	200
22AUG83	ST. CROP	103	N	103	48	134	0	182
	S.E.	103	N	103	48	108	0	118
	NO. TOWS	8	N	8	64	87	49	200
05SEP83	ST. CROP	0	N	0	0	25	0	25
	S.E.	0	N	0	0	18	0	18
	NO. TOWS	8	N	8	63	87	49	199
19SEP83	ST. CROP	0	N	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0
	NO. TOWS	8	N	8	64	86	49	199
03OCT83	ST. CROP	0	N	0	20	0	0	20
	S.E.	0	N	0	20	0	0	20
	NO. TOWS	8	N	8	65	85	50	200
17OCT83	ST. CROP	0	N	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0
	NO. TOWS	8	N	8	64	86	50	200
TOTAL	ST. CROP	103	N	103	68	168	0	236
	S.E.	103	N	103	52	109	0	121
	NO. TOWS	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.

WEEK BEGINNING MONDAY	STRIPED BASS											YEARLING		
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED	
01AUG83	2	42	13	4	0	11	0	0	0	0	2	2	75	
	2	21	13	4	0	9	0	0	0	0	2	2	27	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
15AUG83	0	0	0	0	1	16	1	0	0	2	0	0	20	
	0	0	0	0	1	16	1	0	0	2	0	0	16	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
29AUG83	6	0	2	2	0	0	0	0	0	14	0	23	47	
	6	0	2	2	0	0	0	0	0	14	0	23	28	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
12SEP83	0	6	2	0	1	11	0	0	0	0	0	0	19	
	0	4	2	0	1	9	0	0	0	0	0	0	10	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
26SEP83	0	0	0	0	0	5	0	0	0	0	0	0	5	
	0	0	0	0	0	5	0	0	0	0	0	0	5	
	5	24	14	5	5	7	5	5	5	9	10	7	101	
10OCT83	0	0	0	0	0	2	0	0	0	0	0	0	2	
	0	0	0	0	0	2	0	0	0	0	0	0	2	
	5	24	14	7	5	6	5	4	6	9	10	7	102	
TOTAL	8	47	17	6	1	44	1	0	0	16	2	25	167	
	6	21	14	4	1	21	1	0	0	14	2	23	43	
	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.

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

N -- STRATUM NOT SAMPLED

TABLE B-11 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-11 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-11 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED

TABLE B-11 (CONTINUED).

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

WEEK BEGINNING MONDAY	STRIPED BASS											
	YONKERS					OLDER						
	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
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	27
22AUG83	ST. CROP	10	N	0	10	0	0	0	0	0	0	0
	S.E.	10	N	0	10	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	26
03OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	28
17OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	26
TOTAL	ST. CROP	10	N	0	10	0	0	0	0	0	0	0
	S.E.	10	N	0	10	0	0	0	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	160

N -- STRATUM NOT SAMPLED



TABLE B-12 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-12 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPIED BASS											
	POUGHKEEPSIE				HYDE PARK				KINGSTON			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
01AUG83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	30	18	48	N	36	24	60	N	54	36	90

N -- STRATIUM NOT SAMPLED

TABLE B-12 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-12 (CONTINUED).

WEEK BEGINNING MONDAY	STRIPED BASS			ALBANY			OLDER		
	ST. CROP S.E. NO. TOWS	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83		N	0	N	0	0	0	0	0
		N	0	N	0	0	0	0	0
		N	8	N	8	66	85	49	200
22AUG83		N	0	N	0	10	0	0	10
		N	0	N	0	10	0	0	10
		N	8	N	8	64	87	49	200
05SEP83		N	0	N	0	0	13	0	13
		N	0	N	0	0	13	0	13
		N	8	N	8	63	87	49	199
19SEP83		N	0	N	0	0	0	0	0
		N	0	N	0	0	0	0	0
		N	8	N	8	64	86	49	199
03OCT83		N	0	N	0	0	0	0	0
		N	0	N	0	0	0	0	0
		N	8	N	8	65	85	50	200
17OCT83		N	0	N	0	0	0	0	0
		N	0	N	0	0	0	0	0
		N	8	N	8	64	86	50	200
TOTAL		N	0	N	0	10	13	0	22
		N	0	N	0	10	13	0	16
		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.

WEEK BEGINNING MONDAY	STRIPED BASS										OLDER				
	YK	TZ	CH	1P	WP	REGIONS		HP	KG	SG	CS	AI	COMBINED		
						CW	PK								
01AUG83	0	0	0	0	0	2	0	0	0	0	0	0	2		
	0	0	0	0	0	2	0	0	0	0	0	0	2		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
15AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
29AUG83	0	0	0	0	0	0	0	0	0	4	0	0	4		
	0	0	0	0	0	0	0	0	0	4	0	0	4		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
12SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
26SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	24	14	5	5	7	5	5	5	9	10	7	101		
10OCT83	0	0	0	0	0	2	0	0	0	0	0	0	2		
	0	0	0	0	0	2	0	0	0	0	0	0	2		
	5	24	14	7	5	6	5	4	6	9	10	7	102		
TOTAL	0	0	0	0	0	4	0	0	0	4	0	0	7		
	0	0	0	0	0	3	0	0	0	4	0	0	5		
	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.

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

N -- STRATUM NOT SAMPLED

TABLE B-14 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE PERCH												EGGS			
	INDIAN POINT						WEST POINT						CORNWALL			
	SHOAL	BOTTOM	CHANNEL	REGION	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).

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

N -- STRATUM NOT SAMPLED



TABLE B-14 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-14 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE PERCH			ALBANY			EGGS		
	ST. CROP S.E. NO. TOWS	SIHOAL	BOTTOM CHANNEL	REGION	SIHOAL	COMBINED		REGION	
						BOTTOM	CHANNEL		
02MAY83									
09MAY83									
16MAY83									
23MAY83									
30MAY83									
06.JUN83									
13.JUN83									
20.JUN83									
27.JUN83									
04JUL83									
TOTAL									

N -- STRATUM NOT SAMPLED

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

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

N -- STRATUM NOT SAMPLED

TABLE B-15 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-15 (CONTINUED).

WLEK BEGINNING MONDAY	WHITE PERCH										YOLK-SAC LARVAE																									
	POUGHKEEPSIE					HYDE PARK					KINGSTON					KINGSTON																				
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	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.F.	N	329	361	488	N	140	140	204	NO. TOWS	N	9	10	19	N	10	11	21	N	6	6	7	13
	ST. CROP	N	60747	53140	113887	N	13867	8818	22684	N	15743	5924	21668	S.E.	N	19634	20752	28569	N	2004	2004	3691	NO. TOWS	N	10	10	20	N	7	7	13	N	6	6	7	13
	ST. CROP	N	55216	58056	113272	N	17615	14724	32339	N	5635	10265	15900	S.E.	N	17879	27951	33180	N	4153	4153	4683	NO. TOWS	N	10	10	20	N	6	6	7	N	6	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	10316	10316	49082	NO. TOWS	N	16	22	38	N	4	4	6	N	4	4	6	10
	ST. CROP	N	8389	2474	10863	N	4008	3959	7967	N	14762	2701	17463	S.E.	N	1972	663	2081	N	1286	1286	5401	NO. TOWS	N	16	22	38	N	5	5	6	N	5	5	6	10
	ST. CROP	N	2782	2997	5779	N	3363	2526	5889	N	8445	1161	9606	S.E.	N	527	742	911	N	339	339	5279	NO. TOWS	N	16	22	38	N	4	4	6	N	4	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	2464	2464	2705	NO. TOWS	N	7	15	22	N	5	5	6	N	5	5	6	10
	ST. CROP	N	227	109	337	N	355	316	671	N	174	445	619	S.F.	N	110	109	155	N	206	206	222	NO. TOWS	N	8	14	22	N	5	5	6	N	5	5	6	10
	ST. CROP	N	57	0	57	N	0	0	0	0	N	73	0	73	S.E.	N	37	0	37	N	0	0	73	NO. TOWS	N	7	15	22	N	4	4	6	N	4	4	6
04JUL83	ST. CROP	N	0	0	0	N	0	0	0	N	43	41	84	S.F.	N	0	0	0	N	41	41	59	NO. TOWS	N	7	15	22	N	4	4	6	N	4	4	6	10
	ST. CROP	N	164483	146966	311448	N	64158	55924	120081	N	125522	45369	170891	S.E.	N	28164	35439	45267	N	11644	11644	50091	NO. TOWS	N	106	155	261	N	49	49	61	N	49	49	61	110
	ST. CROP	N	164483	146966	311448	N	64158	55924	120081	N	125522	45369	170891	S.E.	N	28164	35439	45267	N	11644	11644	50091	NO. TOWS	N	106	155	261	N	49	49	61	N	49	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-15 (CONTINUED).

WHITE PLRCH 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. TOWS	N	207	128	243	N	782	171	801
		N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	5390	8722	14112	N	1739	1918	3658
	S.E. TOWS	N	2281	5343	5810	N	757	351	834
		N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	53089	17960	71049	N	12253	2045	14298
	S.E. TOWS	N	27323	6025	27979	N	4155	363	4171
		N	4	3	7	N	3	3	6
23MAY83	ST. CROP	N	40618	12444	53062	N	43207	9464	52672
	S.E. TOWS	N	8811	8597	12310	N	16407	1321	16460
		N	5	3	8	N	3	3	6
30MAY83	ST. CROP	N	5230	852	6083	N	8361	3159	11521
	S.E. TOWS	N	2684	532	2736	N	2787	648	2861
		N	5	3	8	N	3	3	6
06JUN83	ST. CROP	N	8844	6749	15592	N	36379	1423	37802
	S.E. TOWS	N	6425	5046	8170	N	29891	1017	29908
		N	5	3	8	N	3	3	6
13JUN83	ST. CROP	N	3296	5866	9162	N	28226	15884	44110
	S.E. TOWS	N	1212	734	1417	N	10464	7904	13113
		N	4	2	6	N	3	3	6
20JUN83	ST. CROP	N	443	1538	1982	N	4926	1577	6502
	S.E. TOWS	N	354	751	830	N	2436	385	2467
		N	3	2	5	N	3	3	6
27JUN83	ST. CROP	N	0	0	0	N	0	414	414
	S.E. TOWS	N	0	0	0	N	0	414	414
		N	4	2	6	N	3	3	6
04JUL83	ST. CROP	N	0	0	0	N	0	0	0
	S.E. TOWS	N	0	0	0	N	0	0	0
		N	4	2	6	N	3	3	6
TOTAL	ST. CROP	N	117642	54387	172029	N	135874	36055	171929
	S.E. TOWS	N	29656	12870	32329	N	36115	8141	37021
		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.

WEEK BEGINNING MONDAY	WHITE PERCH										POST YOLK-SAC LARVAE									
	YONKERS					TAPPAN ZEE					CROTON-HAVERSTRAW									
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION				
02MAY83	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	3	N	3	6	3	4	3	10	6	3	6	6	3	6	6	15				
09MAY83	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	3	N	3	6	3	4	3	10	6	3	6	6	3	6	6	15				
16MAY83	1106	N	5961	7068	7766	445	37398	45609	7248	1555	10300	19103	1555	10300	19103	19103				
	667	N	5961	5999	4618	187	17777	18368	2059	1215	1939	3078	1215	1939	3078	3078				
	3	N	3	6	3	4	3	10	6	3	6	6	3	6	6	15				
23MAY83	0	N	530	530	25755	9290	29759	64804	15513	20275	34233	70020	20275	34233	70020	70020				
	0	N	272	272	10077	6089	11847	16703	2458	4591	23428	24000	4591	23428	24000	24000				
	3	N	3	6	3	4	4	11	5	4	4	13	4	4	4	13				
30MAY83	1534	N	4431	5965	12567	1315	11288	25170	15553	7021	21986	44560	7021	21986	44560	44560				
	807	N	3262	3360	9219	665	7170	11698	3642	3769	6228	8140	3769	6228	8140	8140				
	3	N	3	6	3	3	4	10	5	5	3	13	5	3	3	13				
06JUN83	75	N	4984	5059	9993	28206	21235	59433	12793	8188	26100	47082	8188	26100	47082	47082				
	42	N	2289	2289	4511	10943	7986	14278	4023	2472	19039	19616	2472	19039	19616	19616				
	3	N	3	6	3	4	4	11	4	4	4	12	4	4	4	12				
13JUN83	0	N	221	221	35138	68358	76840	180336	25725	24281	57010	107016	24281	57010	107016	107016				
	0	N	156	156	13736	44037	47162	65971	16225	5249	21684	27586	5249	21684	27586	27586				
	1	N	8	9	3	5	6	14	4	6	6	16	6	6	6	16				
20JUN83	160	N	77	238	51885	27180	25013	104079	35914	27571	34747	98232	27571	34747	98232	98232				
	0	N	77	77	19473	11368	14751	26945	9370	8890	8785	15621	8890	8785	15621	15621				
	1	N	8	9	3	5	6	14	4	6	5	15	6	5	5	15				
27JUN83	0	N	0	0	3334	466	3816	7615	6650	5625	4265	16541	5625	4265	16541	16541				
	0	N	0	0	3334	351	1774	3792	599	2745	1030	2992	2745	1030	2992	2992				
	1	N	8	9	3	4	6	13	4	6	6	16	6	6	6	16				
04JUL83	0	N	70	70	137	0	0	137	0	60	805	865	60	805	865	865				
	0	N	70	70	137	0	0	137	0	60	428	432	60	428	432	432				
	1	N	8	9	3	5	6	14	4	6	6	16	6	6	6	16				
TOTAL	2876	N	16275	19151	146574	135260	205350	487183	119397	94576	189446	403419	94576	189446	403419	403419				
	1047	N	7178	7254	28412	47179	54923	77780	19777	12530	38762	45284	12530	38762	45284	45284				
	22	N	50	72	30	42	45	117	48	46	52	146	46	52	146	146				

N -- STRATUM NOT SAMPLED

TABLE B-16 (CONTINUED).

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

N -- STRATUM NOT SAMPLED



TABLE B-16 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-16 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE PERCH			POST YOILK-SAC LARVAE				
	SAUCERTIES			CATSKILL				
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	3	3	6	N	3	3	6
09MAY83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	3	3	6	N	3	3	6
16MAY83	ST. CROP	234	500	734	N	233	94	327
	S.E.	143	96	172	N	132	94	162
	NO. TOWS	4	3	7	N	3	3	6
23MAY83	ST. CROP	367	3034	3401	N	404	676	1080
	S.E.	127	2061	2065	N	91	354	365
	NO. TOWS	5	3	8	N	3	3	6
30MAY83	ST. CROP	857	4619	5476	N	417	770	1187
	S.E.	539	3570	3611	N	78	562	568
	NO. TOWS	5	3	8	N	3	3	6
06JUN83	ST. CROP	0	483	483	N	0	283	283
	S.E.	0	260	260	N	0	283	283
	NO. TOWS	5	3	8	N	3	3	6
13JUN83	ST. CROP	70020	33328	103348	N	41648	20084	61732
	S.E.	29447	5729	29999	N	25344	12652	28327
	NO. TOWS	4	2	6	N	3	3	6
20JUN83	ST. CROP	134636	237780	372416	N	141748	310748	452496
	S.E.	19938	63770	66814	N	14783	9921	101008
	NO. TOWS	3	2	5	N	3	3	6
27JUN83	ST. CROP	111912	17316	129228	N	324518	58915	383434
	S.E.	37423	16977	41093	N	66687	12612	67869
	NO. TOWS	4	2	6	N	3	3	6
04JUL83	ST. CROP	32326	34541	66867	N	122590	52424	175015
	S.E.	20252	15267	25361	N	65575	35813	74717
	NO. TOWS	4	2	6	N	3	3	6
TOTAL	ST. CROP	350351	331601	681952	N	631559	443994	1075553
	S.E.	55458	68101	87826	N	98021	107640	145583
	NO. TOWS	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-16 (CONTINUED).

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

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

N -- STRATUM NOT SAMPLED

TABLE B-17 (CONTINUED).

WHITE PERCH

WEEK  
BEGINNING  
MONDAY

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

N -- STRATUM NOT SAMPLED

TABLE B-17 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE PERCH											
	POUGHKEEPSIE				HYDE PARK				KINGSTON			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	N	0	0	N	0	0	0	N	0	0	0
09MAY83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	N	0	0	N	0	0	0	N	0	0	0
16MAY83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	N	0	0	N	0	0	0	N	0	0	0
23MAY83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	N	0	0	N	0	0	0	N	0	0	0
30MAY83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	N	0	0	N	0	0	0	N	0	0	0
06JUN83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	N	0	0	N	0	0	0	N	0	0	0
13JUN83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	N	0	0	N	0	0	0	N	0	0	0
20JUN83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	N	0	0	N	0	0	0	N	0	0	0
27JUN83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	N	0	0	N	0	0	0	N	0	0	0
04JUL83	ST. CROP	N	0	37	N	20	0	20	N	0	0	0
	S.E. NO. TOWS	N	0	37	N	20	0	20	N	0	0	0
TOTAL	ST. CROP	N	0	37	N	20	0	20	N	0	0	0
	S.E. NO. TOWS	N	0	37	N	20	0	20	N	0	0	0
		N	106	155	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	0	0	0	N	0	0	0
	S.E. TOWS	N	0	0	N	0	0	0
		N	3	3	6	N	3	3
09MAY83	ST. CROP	N	0	0	N	0	0	0
	S.E. TOWS	N	0	0	N	0	0	0
		N	3	3	6	N	3	3
16MAY83	ST. CROP	N	0	0	N	0	0	0
	S.E. TOWS	N	0	0	N	0	0	0
		N	4	3	7	N	3	3
23MAY83	ST. CROP	N	0	0	N	0	0	0
	S.E. TOWS	N	0	0	N	0	0	0
		N	5	3	8	N	3	3
30MAY83	ST. CROP	N	0	0	N	0	0	0
	S.E. TOWS	N	0	0	N	0	0	0
		N	5	3	8	N	3	3
06.JUN83	ST. CROP	N	0	0	N	0	0	0
	S.E. TOWS	N	0	0	N	0	0	0
		N	5	3	8	N	3	3
13.JUN83	ST. CROP	N	0	0	N	0	0	0
	S.E. TOWS	N	0	0	N	0	0	0
		N	4	2	6	N	3	3
20.JUN83	ST. CROP	N	0	0	N	0	0	0
	S.E. TOWS	N	0	0	N	0	0	0
		N	3	2	5	N	3	3
27.JUN83	ST. CROP	N	0	0	N	0	0	0
	S.E. TOWS	N	0	0	N	0	0	0
		N	4	2	6	N	3	3
04.JUL83	ST. CROP	N	0	0	N	0	0	0
	S.E. TOWS	N	0	0	N	0	0	0
		N	4	2	6	N	3	3
TOTAL	ST. CROP	N	0	0	N	0	0	0
	S.E. TOWS	N	0	0	N	0	0	0
		N	40	26	66	N	30	30

N -- STRATUM NOT SAMPLED

TABLE B-17 (CONTINUED).

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

WEEK BEGINNING MONDAY	WHITE PERCH											
	YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	0	N	0	0	8	0	0	8	0	0	0	0
S.E. TOWS	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	0	N	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	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	0	N	0	0	43	0	0	43	0	0	0	0
S.E. TOWS	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	0	N	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	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	11	N	0	11	38	0	0	38	8	9	0	18
S.E. TOWS	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
17OCT83	0	N	0	0	0	0	0	0	0	0	0	0
S.E. TOWS	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	11	N	0	11	88	0	0	88	8	9	0	18
S.E. TOWS	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).

WEEK BEGINNING MONDAY	WHITE PERCH											
	INDIAN POINT				WEST POINT				CORNWALL			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. TOWS	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	4	3	7	5	6	3	14
27AUG83	ST. CROP	0	0	0	N	0	0	0	4	0	0	4
	S.E. TOWS	0	0	0	N	0	0	0	4	0	0	4
	NO. TOWS	7	5	2	14	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	13	0	N	13	0	0	4	16	0	20
	S.E. TOWS	0	13	0	N	13	0	0	4	16	0	17
	NO. TOWS	6	6	3	15	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	N	0	0	0	10	0	0	10
	S.E. TOWS	0	0	0	N	0	0	0	7	0	0	7
	NO. TOWS	6	5	3	14	5	3	8	6	5	2	13
03OCT83	ST. CROP	0	0	0	N	15	0	15	12	0	0	12
	S.E. TOWS	0	0	0	N	15	0	15	9	0	0	9
	NO. TOWS	6	5	3	14	4	2	6	5	6	4	15
17OCT83	ST. CROP	5	0	0	N	0	0	0	31	52	0	83
	S.E. TOWS	5	0	0	N	0	0	0	26	21	0	34
	NO. TOWS	6	6	3	15	5	3	8	5	5	3	13
TOTAL	ST. CROP	5	13	0	N	15	0	15	62	68	0	130
	S.E. TOWS	5	13	0	N	15	0	15	29	27	0	39
	NO. TOWS	37	32	17	86	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-18 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE PERCH											
	POUGHKEEPSIE				HYDE PARK				KINGSTON			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. GROU	0	0	0	N	66	0	66	N	104	0	104
	S.E.	0	0	0	N	38	0	38	N	0	0	42
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. GROU	403	0	403	N	15	0	15	N	13	0	13
	S.E.	267	0	267	N	15	0	15	N	0	0	13
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. GROU	292	0	292	N	0	0	0	N	137	0	137
	S.E.	201	0	201	N	0	0	0	N	0	0	111
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. GROU	410	0	410	N	195	0	195	N	320	0	320
	S.E.	221	0	221	N	123	0	123	N	0	0	103
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. GROU	179	0	179	N	272	83	355	N	250	0	250
	S.E.	115	0	115	N	187	83	205	N	0	0	116
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. GROU	447	0	447	N	121	66	186	N	129	0	129
	S.E.	216	0	216	N	45	66	80	N	0	0	85
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. GROU	1731	0	1731	N	669	149	817	N	952	0	952
	S.E.	470	0	470	N	232	106	255	N	0	0	213
	NO. TOWS	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-18 (CONTINUED).

WHITE PERCH

WELK BEGINNING MONDAY	SAUGERTIES			YOUNG-OF-THE-YEAR			CATSKILL		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	
08AUG83	ST. CROP	504	0	504	N	313	0	313	
	S.E. TOWS	150	0	150	N	108	0	108	
22AUG83	ST. CROP	13	0	13	N	73	0	73	
	S.E. TOWS	13	0	13	N	34	0	34	
05SEP83	ST. CROP	440	0	440	N	54	0	54	
	S.E. TOWS	425	0	425	N	30	0	30	
19SEP83	ST. CROP	231	0	231	N	36	0	36	
	S.E. TOWS	58	0	58	N	26	0	26	
03OCT83	ST. CROP	235	0	235	N	115	0	115	
	S.E. TOWS	59	0	59	N	63	0	63	
17OCT83	ST. CROP	274	0	274	N	244	0	244	
	S.E. TOWS	53	0	53	N	53	0	53	
TOTAL	ST. CROP	1698	0	1698	N	835	0	835	
	S.E. TOWS	461	0	461	N	145	0	145	
		73	36	109	N	89	36	125	

N -- STRATIUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	YOUNG-OF-THE-YEAR WHITE PERCH													
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED	
01AUG83	ST. CROP S.E. NO. HAULS	12 10 5	295 88 24	219 97 14	153 72 5	58 36 5	82 59 6	13 7 5	44 20 5	96 44 5	694 163 9	197 80 10	336 229 7	2199 339 100
15AUG83	ST. CROP S.E. NO. HAULS	5 3 5	284 94 24	150 43 14	68 49 5	74 42 5	78 44 6	62 30 5	6 3 5	138 48 5	230 113 9	260 118 10	163 163 7	1517 271 100
29AUG83	ST. CROP S.E. NO. HAULS	0 0 5	161 42 24	2295 2265 14	0 0 5	43 20 5	336 249 6	4 3 5	29 14 5	74 41 5	486 259 9	230 100 10	2 2 7	3660 2296 100
12SEP83	ST. CROP S.E. NO. HAULS	5 3 5	322 135 24	86 61 14	52 43 5	13 7 5	62 29 6	3 3 5	2 1 5	126 93 5	238 81 9	590 254 10	0 0 7	1498 323 100
26SEP83	ST. CROP S.E. NO. HAULS	0 0 5	115 48 24	344 185 14	61 52 5	58 27 5	46 22 7	282 215 5	2 1 5	34 17 5	133 103 9	65 53 10	6 6 7	1146 316 101
10OCT83	ST. CROP S.E. NO. HAULS	0 0 5	45 42 24	321 280 14	66 54 7	22 18 5	67 38 6	1 1 5	0 0 4	24 21 6	45 26 9	191 68 10	0 0 7	783 301 102
TOTAL	ST. CROP S.E. NO. HAULS	21 11 30	1223 202 144	3415 2292 84	399 122 32	267 68 30	671 265 37	366 217 30	82 24 29	493 123 31	1826 352 54	1533 319 60	507 281 42	10802 2399 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 AUG 1 - AUG 7  
 YOUNG-OF-THE-YEAR

REGION	ST. CROP SE	SHORE ZONE	SHOAL (10'-20')	STRATUM			REGIONAL TOTALS
				BOTTOM	CHANNEL		
YONKERS	ST. CROP SE	112 95	0 * 0 *	0 * 0 *	0 * 0 *	112 95	
TAPPAN ZEE	ST. CROP SE	2734 813	109 * 109 *	0 * 0 *	0 * 0 *	2843 820	
CROTON-HAVERSTRAW	ST. CROP SE	2027 896	0 * 0 *	0 * 0 *	0 * 0 *	2027 896	
INDIAN POINT	ST. CROP SE	1416 662	17 * 12 *	0 * 0 *	107 * 62 *	1541 665	
WEST POINT	ST. CROP SE	537 336	1 * 1 *	10 * 10 *	41 * 29 *	589 337	
CORNWALL	ST. CROP SE	756 545	0 * 0 *	0 * 0 *	0 * 0 *	756 545	
POUGHKEEPSIE	ST. CROP SE	118 64	0 * 0 *	0 * 0 *	37 * 37 *	155 74	
HYDE PARK	ST. CROP SE	404 181	4 * 3 *	80 * 54 *	0 * 0 *	488 189	
KINGSTON	ST. CROP SE	893 406	20 * 8 *	77 * 31 *	0 * 0 *	990 407	
SAUGERTIES	ST. CROP SE	6429 1505	122 * 36 *	342 * 102 *	0 * 0 *	6893 1509	
CATSKILL	ST. CROP SE	1822 739	105 * 36 *	172 * 59 *	0 * 0 *	2100 742	
ALBANY	ST. CROP SE	3109 2120	16 * 11 *	11 * 8 *	26 * 18 *	3162 2120	
STRATUM TOTAL	ST. CROP SE	20357 3135	394 * 122 *	693 * 134 *	212 * 80 *	21655 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  
 AUG 8 - AUG 14  
 YOUNG-OF-THE-YEAR

REGION	SHORE ZONE	ST. CROP SE	SHOAL (10'-20')	STRATUM			REGIONAL TOTALS
				BOTTOM	CHANNEL		
YONKERS	112	0	0	0 *	0	112	
	95	0	0	0 *	0	95	
TAPPAN ZEE	2734	12	12	0	0	2746	
	813	12	12	0	0	813	
CROTON-HAVERSTRAW	2027	0	0	0	0	2027	
	896	0	0	0	0	896	
INDIAN POINT	1416	0	0	0	0	1416	
	662	0	0	0	0	662	
WEST POINT	537	0 *	0 *	0	0	537	
	336	0 *	0 *	0	0	336	
CORNWALL	756	0	0	0	0	756	
	545	0	0	0	0	545	
POUGHKEEPSIE	118	0 *	0 *	0	0	118	
	64	0 *	0 *	0	0	64	
HYDE PARK	404	7 *	4 *	123	0	534	
	181	4 *	4 *	71	0	195	
KINGSTON	893	40 *	16 *	155	0	1087	
	406	16 *	16 *	62	0	411	
SAUGERTIES	6429	243 *	73 *	684	0	7357	
	1505	73 *	73 *	204	0	1521	
CATSKILL	1822	211 *	73 *	345	0	2377	
	739	73 *	73 *	119	0	752	
ALBANY	3109	32 *	22 *	22	53 *	3215	
	2120	22 *	22 *	15	37 *	2121	
STRATUM TOTAL	20357	544 *	107 *	1329	53 *	22283	
	3135	107 *	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  
 AUG 15 - AUG 21  
 YOUNG-OF-THE-YEAR

REGION	SHORE ZONE		SHOAL (10'-20')		STRATUM		CHANNEL	REGIONAL TOTALS
	ST. CROP	SE	ST. CROP	SE	BOTTOM	CHANNEL		
YONKERS	42	0 *	0 *	0 *	0 *	0 *	0 *	42
	28	0 *	0 *	0 *	0 *	0 *	0 *	28
TAPPAN ZEE	2629	6 *	6 *	0 *	0 *	0 *	0 *	2635
	870	6 *	6 *	0 *	0 *	0 *	0 *	870
CROTON-HAVERSTRAW	1387	0 *	0 *	0 *	0 *	0 *	0 *	1387
	400	0 *	0 *	0 *	0 *	0 *	0 *	400
INDIAN POINT	631	0 *	0 *	0 *	0 *	0 *	0 *	631
	453	0 *	0 *	0 *	0 *	0 *	0 *	453
WEST POINT	683	0 *	0 *	0 *	0 *	0 *	0 *	683
	390	0 *	0 *	0 *	0 *	0 *	0 *	390
CORNWALL	723	3 *	3 *	0 *	0 *	0 *	0 *	726
	407	3 *	3 *	0 *	0 *	0 *	0 *	407
POUGHKEEPSIE	578	26 *	26 *	368 *	368 *	0 *	0 *	972
	280	17 *	17 *	244 *	244 *	0 *	0 *	371
HYDE PARK	53	4 *	4 *	75 *	75 *	0 *	0 *	132
	26	3 *	3 *	50 *	50 *	0 *	0 *	56
KINGSTON	1275	23 *	23 *	87 *	87 *	0 *	0 *	1385
	441	11 *	11 *	41 *	41 *	0 *	0 *	443
SAUGERTIES	2131	125 *	125 *	351 *	351 *	0 *	0 *	2607
	1048	39 *	39 *	111 *	111 *	0 *	0 *	1054
CATSKILL	2405	130 *	130 *	212 *	212 *	0 *	0 *	2747
	1093	48 *	48 *	78 *	78 *	0 *	0 *	1097
ALBANY	1509	23 *	23 *	16 *	16 *	38 *	38 *	1587
	1509	18 *	18 *	13 *	13 *	30 *	30 *	1510
STRATUM TOTAL	14047	340 *	340 *	1110 *	1110 *	38 *	38 *	15534
	2507	68 *	68 *	287 *	287 *	30 *	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	ST. CROP SE	SHORE ZONE	STRATUM			REGIONAL TOTALS
			SHOAL (10'-20')	BOTTOM	CHANNEL	
YONKERS		42 28	0 0	0 0	0 0	42 28
TAPPAN ZEE		2629 870	0 0	0 0	0 0	2629 870
CROTON-HAVERSTRAW		1387 400	0 0	0 0	0 0	1387 400
INDIAN POINT		631 453	0 0	0 0	0 0	631 453
WEST POINT		683 390	0 0	0 0	0 0	683 390
CORNWALL		723 407	6 6	0 0	0 0	730 407
POUGHKEEPSIE		578 280	52 35	736 488	0 0	1366 563
HYDE PARK		53 26	2 2	28 28	0 0	82 38
KINGSTON		1275 441	5 5	19 19	0 0	1299 441
SAUGERTIES		2131 1048	6 6	18 18	0 0	2155 1048
CATSKILL		2405 1093	49 23	80 37	0 0	2534 1094
ALBANY		1509 1509	14 14	10 10	23 23	1557 1510
STRATUM TOTAL		14047 2507	135 45	890 491	23 23	15095 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

WHITE PERCH (CONTINUED).  
YOUNG-OF-THE-YEAR  
AUG 29 - SEP 4

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

WHITE PERCH  
 TABLE B-20 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 5 - SEP 11

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

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

REGION	ST. SE	CROP	SHORE ZONE	STRATUM			CHANNEL	REGIONAL TOTALS
				SHOAL (10'-20')	BOTTOM			
YONKERS	ST. SE	CROP	42 28	0 0	0 0	0 0	42 28	
TAPPAN ZEE	ST. SE	CROP	2980 1254	32 25	0 0	0 0	3012 1255	
CROTON-HAVERSTRAW	ST. SE	CROP	800 562	0 0	0 0	0 0	800 562	
INDIAN POINT	ST. SE	CROP	478 395	0 0	13 13	0 0	491 395	
WEST POINT	ST. SE	CROP	117 67	0 0	0 0	0 0	117 67	
CORNWALL	ST. SE	CROP	575 269	10 8	16 16	0 0	602 269	
POUGHKEEPSIE	ST. SE	CROP	26 26	46 27	64 386	0 0	713 387	
HYDE PARK	ST. SE	CROP	16 8	10 6	182 114	0 0	208 115	
KINGSTON	ST. SE	CROP	1164 858	88 41	339 159	0 0	1591 874	
SAUGERTIES	ST. SE	CROP	2203 745	162 117	455 328	0 0	2820 823	
CATSKILL	ST. SE	CROP	5465 2348	30 19	50 31	0 0	5545 2348	
ALBANY	ST. SE	CROP	0 0	28 20	20 14	47 33	94 41	
STRATUM TOTAL	ST. SE	CROP	13866 2988	406 132	1716 544	47 33	16035 3040	

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685 VAR(STDR) 0  
 ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182 VAR(STDE) 0  
 ADJUSTED IGHTHYO EFFICIENCY = STDS= 0.5 #--STD ERROR COULD NOT BE CALCULATED

WHITE PERCH  
 TABLE B-20 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 19 - SEP 25

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

WHITE PERCH (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 26 - OCT 2

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

ADJUSTED NIGHT/DAY CATCH RATIO = STDR= 1.685 VAR(STDR) 0  
 ADJUSTED BEACH SEINE EFFICIENCY = STDE= 0.182 VAR(STDE) 0  
 ADJUSTED ICHTHYO EFFICIENCY = STDS= 0.5 #--STD ERROR COULD NOT BE CALCULATED

WHITE PERCH  
 TABLE B-20 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 OCT 3 - OCT 9

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

WHITE PERCH  
 TABLE B-20 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 OCT 10 - OCT 16

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



WHITE PERCH  
 TABLE B-20 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 OCT 17 - OCT 23

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

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

N -- STRATUM NOT SAMPLED

TABLE B-21 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-21 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE PERCH											
	POUGHKEEPSIE				HYDE PARK				KINGSTON			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	18	0	18	N	0	0	0	N	0	0	0
	S.E.	18	0	18	N	0	0	0	N	0	0	0
	NO. TOWS	9	10	19	N	10	11	21	N	6	7	13
09MAY83	ST. CROP	0	0	0	N	32	0	32	N	0	0	0
	S.E.	0	0	0	N	16	0	16	N	0	0	0
	NO. TOWS	10	10	20	N	10	10	20	N	6	7	13
16MAY83	ST. CROP	124	0	124	N	25	0	25	N	90	0	90
	S.E.	46	0	46	N	17	0	17	N	0	0	90
	NO. TOWS	10	10	20	N	8	11	19	N	6	7	13
23MAY83	ST. CROP	12	0	12	N	40	0	40	N	0	0	0
	S.E.	12	0	12	N	28	0	28	N	0	0	0
	NO. TOWS	16	22	38	N	7	12	19	N	4	6	10
30MAY83	ST. CROP	39	0	39	N	0	0	0	N	0	0	0
	S.E.	27	0	27	N	0	0	0	N	0	0	0
	NO. TOWS	16	22	38	N	7	12	19	N	5	5	10
06JUN83	ST. CROP	143	0	143	N	30	0	30	N	0	0	0
	S.E.	65	0	65	N	19	0	19	N	0	0	0
	NO. TOWS	16	22	38	N	7	12	19	N	4	6	10
13JUN83	ST. CROP	60	0	60	N	0	0	0	N	0	0	0
	S.E.	60	0	60	N	0	0	0	N	0	0	0
	NO. TOWS	7	15	22	N	5	9	14	N	5	5	10
20JUN83	ST. CROP	0	0	0	N	0	0	0	N	143	0	143
	S.E.	0	0	0	N	0	0	0	N	0	0	110
	NO. TOWS	8	14	22	N	5	9	14	N	5	6	11
27JUN83	ST. CROP	143	0	143	N	85	49	134	N	0	0	0
	S.E.	78	0	78	N	63	49	80	N	0	0	0
	NO. TOWS	7	15	22	N	5	9	14	N	4	6	10
04JUL83	ST. CROP	0	85	85	N	16	83	99	N	0	0	0
	S.E.	0	85	85	N	16	55	57	N	0	0	0
	NO. TOWS	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	539	85	624	N	228	131	360	N	234	0	234
	S.E.	131	85	156	N	77	73	106	N	0	0	142
	NO. TOWS	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	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	3	3	6	N	3	3	6
09MAY83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	3	3	6	N	3	3	6
16MAY83	ST. CROP	60	0	60	N	0	0	0
	S.E.	60	0	60	N	0	0	0
	NO. TOWS	4	3	7	N	3	3	6
23MAY83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	3	3	6
30MAY83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	3	3	6
06JUN83	ST. CROP	35	0	35	N	0	0	0
	S.E.	35	0	35	N	0	0	0
	NO. TOWS	5	3	8	N	3	3	6
13JUN83	ST. CROP	104	0	104	N	0	0	0
	S.E.	60	0	60	N	0	0	0
	NO. TOWS	4	2	6	N	3	3	6
20JUN83	ST. CROP	250	0	250	N	0	0	0
	S.E.	65	0	65	N	0	0	0
	NO. TOWS	3	2	5	N	3	3	6
27JUN83	ST. CROP	241	0	241	N	0	0	0
	S.E.	185	0	185	N	0	0	0
	NO. TOWS	4	2	6	N	3	3	6
04JUL83	ST. CROP	0	0	0	N	79	0	79
	S.E.	0	0	0	N	79	0	79
	NO. TOWS	4	2	6	N	3	3	6
TOTAL	ST. CROP	690	0	690	N	79	0	79
	S.E.	217	0	217	N	79	0	79
	NO. TOWS	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-21 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	WHITE PERCH										YEARLING					
	YONKERS					TAPPAN ZEE					CROTON-HAVERSTRAW					
	SHOAL	BOTTOM	CHANNEL	REGION	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	0	0	0
	S.F. TOWS	0	N	0	0	314	0	54	319	0	0	0	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	0	0	9
	S.F. TOWS	34	N	0	34	37	0	0	37	9	0	0	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	0	0	0
	S.F. TOWS	0	N	0	0	39	0	0	39	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	31	0	31
	S.F. TOWS	0	N	0	0	0	0	0	0	0	0	0	0	22	0	22
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	3	26			
03OCT83	ST. CROP	77	N	0	77	76	395	0	471	93	0	0	93	0	0	93
	S.F. TOWS	77	N	0	77	54	367	0	371	47	0	0	47	0	0	47
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	3	28			
17OCT83	ST. CROP	0	N	0	0	31	0	0	31	9	0	0	9	0	0	9
	S.F. TOWS	0	N	0	0	17	0	0	17	9	0	0	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	0	0	141
	S.F. TOWS	84	N	0	84	324	367	54	492	48	22	0	53	0	0	53
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	17	160			

N -- STRATUM NOT SAMPLED

TABLE B-22 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE PERCH															
	INDIAN POINT						WEST POINT						CORNWALL			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP S.F. NO. TOWS	28 28 6	45 45 5	0 0 3	73 53 14	N N N	0 0 3	0 0 7	0 0 5	0 0 6	0 0 3	0 0 14	0 0 0	0 0 3	0 0 14	0 0 14
22AUG83	ST. CROP S.E. NO. TOWS	0 0 7	0 0 5	0 0 2	0 0 14	N N N	42 42 5	0 0 3	42 42 8	17 17 5	52 52 5	0 0 3	69 54 13	0 0 3	0 0 13	0 0 13
05SEP83	ST. CROP S.E. NO. TOWS	0 0 6	29 29 6	0 0 3	29 29 15	N N N	0 0 5	0 0 3	0 0 8	4 4 5	33 20 5	0 0 3	37 21 13	0 0 3	0 0 13	0 0 13
19SEP83	ST. CROP S.F. NO. TOWS	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 5	0 0 3	0 0 8	45 28 6	83 83 5	0 0 2	128 88 13	0 0 2	0 0 13	0 0 13
03OCT83	ST. CROP S.F. NO. TOWS	31 31 6	173 137 5	0 0 3	203 140 14	N N N	117 117 4	0 0 2	117 117 6	95 36 5	69 43 6	0 0 4	163 56 15	0 0 4	0 0 15	0 0 15
17OCT83	ST. CROP S.E. NO. TOWS	19 19 6	0 0 6	0 0 3	19 19 15	N N N	51 21 5	0 0 3	51 21 8	81 28 5	405 231 5	0 0 3	486 233 13	0 0 3	0 0 13	0 0 13
TOTAL	ST. CROP S.E. NO. TOWS	77 46 37	247 147 32	0 0 17	324 154 86	N N N	210 126 28	0 0 17	210 126 45	241 57 31	641 256 32	0 0 18	883 262 81	0 0 18	0 0 18	0 0 18

N -- STRATUM NOT SAMPLED



TABLE B-22 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE PERCH			YEARLING								
	POUGHKEEPSIE			HYDE PARK			KINGSTON					
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	N	129	0	129	N	278	160	438
	S.E. TOWS	0	0	0	N	35	0	35	N	160	160	193
		5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	67	0	67	N	252	0	252	N	279	0	279
	S.E. TOWS	67	0	67	N	118	0	118	N	0	0	179
		5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	0	0	0	N	21	0	21	N	13	0	13
	S.E. TOWS	0	0	0	N	21	0	21	N	0	0	13
		5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	395	0	395	N	506	0	506	N	883	73	955
	S.E. TOWS	163	0	163	N	152	0	152	N	73	73	279
		5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. CROP	408	168	577	N	220	573	794	N	684	0	684
	S.E. TOWS	162	168	233	N	90	480	488	N	0	0	242
		5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	262	0	262	N	237	0	237	N	350	72	423
	S.E. TOWS	66	0	66	N	108	0	108	N	72	72	148
		5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	1133	168	1301	N	1365	573	1939	N	2487	305	2792
	S.E. TOWS	248	168	300	N	242	480	537	N	190	190	478
		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
03OCT83	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
17OCT83	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					REGION	CHANNEL	REGION							
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM				CHANNEL						
08AUG83	ST. GROU P	N	395	N	395	372	1278	215	1865											
	S.E. NO. TOWS	N	351	N	351	315	384	169	525											
		N	8	N	8	66	85	49	200											
22AUG83	ST. GROU P	N	88	N	88	97	1033	0	1130											
	S.E. NO. TOWS	N	88	N	88	54	318	0	323											
		N	8	N	8	64	87	49	200											
05SEP83	ST. GROU P	N	109	N	109	69	367	83	518											
	S.E. NO. TOWS	N	109	N	109	39	153	83	178											
		N	8	N	8	63	87	49	199											
19SEP83	ST. GROU P	N	23	N	23	45	2407	73	2524											
	S.E. NO. TOWS	N	23	N	23	28	370	73	378											
		N	8	N	8	64	86	49	199											
03OCT83	ST. GROU P	N	262	N	262	372	4105	898	5375											
	S.E. NO. TOWS	N	177	N	177	115	675	524	862											
		N	8	N	8	65	85	50	200											
17OCT83	ST. GROU P	N	152	N	152	140	2027	210	2377											
	S.E. NO. TOWS	N	87	N	87	39	325	155	362											
		N	8	N	8	64	86	50	200											
TOTAL	ST. GROU P	N	1030	N	1030	1094	11217	1477	13788											
	S.E. NO. TOWS	N	427	N	427	346	985	583	1196											
		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.

WEEK BEGINNING MONDAY	WHITE PERCH											YEARLING			
	YK	IZ	CH	IP	WP	REGIONS			HP	KG	SG	CS	AI	COMBINED	
						CW	PK								
01AUG83	5	547	534	79	12	126	16	1	24	269	87	136	1835		
	5	209	349	43	6	113	11	1	20	91	55	121	455		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
15AUG83	5	346	494	57	22	87	13	0	7	39	87	2	1158		
	3	165	131	23	6	36	13	0	7	25	49	2	223		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
29AUG83	0	114	2240	35	6	23	3	1	7	57	14	0	2499		
	0	42	1878	25	4	11	3	1	3	29	14	0	1879		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
12SEP83	0	170	136	33	6	44	0	0	26	94	51	0	561		
	0	69	128	21	4	21	0	0	13	43	28	0	158		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
26SEP83	0	15	58	42	4	32	6	1	7	23	2	0	190		
	0	9	37	31	3	15	6	1	5	15	2	0	53		
	5	24	14	5	5	7	5	5	5	9	10	7	101		
10OCT83	0	6	88	9	4	36	0	0	4	31	14	2	194		
	0	4	82	8	1	23	0	0	4	20	14	2	89		
	5	24	14	7	5	6	5	4	6	9	10	7	102		
TOTAL	9	1198	3550	256	53	348	37	4	75	513	254	140	6437		
	5	278	1921	67	10	124	18	2	26	110	81	121	1955		
	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.

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

N -- STRATUM NOT SAMPLED

TABLE B-24 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-24 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-24 (CONTINUED).

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

N -- STRATUM NOT SAMPLED



TABLE B-24 (CONTINUED).

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

WEEK BEGINNING MONDAY	WHITE PERCH											
	YONKERS				TAPPAN ZEL				CROTON-HAVERSTRAM			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	26	0	26	1322	469	168	1960	85	192	0	277
	S.E.	26	0	26	523	469	168	723	41	119	0	125
	NO. TOWS	7	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	471	87	558	508	197	0	705	0	20	0	20
	S.E.	139	87	164	210	115	0	240	0	13	0	13
	NO. TOWS	7	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	11	0	11	262	117	0	380	48	0	0	48
	S.E.	11	0	11	105	77	0	130	40	0	0	40
	NO. TOWS	7	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	36	0	36	0	0	0	0	36	0	0	36
	S.E.	25	0	25	0	0	0	0	21	0	0	21
	NO. TOWS	6	5	11	31	8	8	47	15	8	3	26
03OCT83	ST. CROP	13	0	13	385	87	0	472	393	254	0	647
	S.E.	13	0	13	236	87	0	251	130	162	0	208
	NO. TOWS	6	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	70	0	70	269	20	0	289	17	0	0	17
	S.E.	46	0	46	109	20	0	111	17	0	0	17
	NO. TOWS	7	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	628	87	714	2746	891	168	3805	580	466	0	1046
	S.E.	152	87	175	629	498	168	820	145	202	0	248
	NO. TOWS	40	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-25 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE PERCH			OLDER			CORNWALL					
	INDIAN POINT			WEST POINT			SHOAL					
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP S.E. NO. TOWS	0 0 6	0 0 5	0 0 14	N N N	0 0 4	0 0 3	0 0 7	22 13 5	0 0 6	0 0 3	22 13 14
22AUG83	ST. CROP S.E. NO. TOWS	0 0 7	0 0 5	0 0 14	N N N	81 50 5	0 0 3	81 50 8	94 26 5	514 198 5	0 0 3	609 199 13
05SEP83	ST. CROP S.E. NO. TOWS	6 6 6	13 13 6	19 14 15	N N N	0 0 5	0 0 3	0 0 8	12 8 5	209 150 5	0 0 3	221 150 13
19SEP83	ST. CROP S.E. NO. TOWS	0 0 6	0 0 5	0 0 14	N N N	0 0 5	0 0 3	0 0 8	0 0 6	35 35 5	0 0 2	35 35 13
03OCT83	ST. CROP S.E. NO. TOWS	0 0 6	19 19 5	19 19 14	N N N	0 0 4	0 0 2	0 0 6	12 8 5	0 0 6	0 0 4	12 8 15
17OCT83	ST. CROP S.E. NO. TOWS	0 0 6	28 28 6	28 28 15	N N N	0 0 5	0 0 3	0 0 8	8 8 5	0 0 5	0 0 3	8 8 13
TOTAL	ST. CROP S.E. NO. TOWS	6 6 37	60 36 32	66 37 86	N N N	81 50 28	0 0 17	81 50 45	148 32 31	758 250 32	0 0 18	906 253 81

N -- STRATUM NOT SAMPLED

TABLE B-25 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE PERCH						OLDER					
	POUGHKEPSIE			HYDE PARK			KINGSTON			KINGSTON		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	178	0	178	N	329	0	329	N	503	427	930
	S.E.	104	0	104	N	95	0	95	N	427	427	447
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	1137	0	1137	N	724	0	724	N	3572	0	3572
	S.E.	332	0	332	N	283	0	283	N	0	0	823
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	170	179	349	N	50	75	125	N	799	0	799
	S.E.	136	179	225	N	27	75	79	N	0	0	202
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	136	0	136	N	25	0	25	N	56	0	56
	S.E.	136	0	136	N	16	0	16	N	0	0	39
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. CROP	0	0	0	N	31	0	31	N	61	0	61
	S.E.	0	0	0	N	19	0	19	N	0	0	32
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	1620	179	1799	N	1159	75	1233	N	4991	427	5418
	S.E.	397	179	436	N	301	75	310	N	427	427	960
	NO. TOWS	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-25 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-25 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	WHITE PERCH													AI	COMBINED
	OLDER			REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AI	COMBINED		
01AUG83	0	668	161	46	4	89	13	3	19	80	55	17	1156		
	0	361	83	22	2	32	11	1	7	36	31	17	376		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
15AUG83	4	165	284	118	14	25	1	3	7	23	79	2	729		
	8	53	167	40	10	13	1	2	5	16	49	2	188		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
29AUG83	2	293	962	7	1	21	1	2	10	53	0	2	1356		
	2	93	289	5	1	12	1	1	8	31	0	2	306		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
12SEP83	0	191	23	2	0	4	4	0	3	70	43	2	343		
	0	55	10	2	0	2	4	0	3	30	37	2	74		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
26SEP83	2	4	4	42	1	8	14	2	28	12	2	4	121		
	2	3	3	23	1	4	11	1	23	8	2	3	36		
	5	24	14	5	5	7	5	5	5	9	10	7	101		
10OCT83	0	81	12	22	2	25	1	0	10	23	0	0	177		
	0	27	6	13	1	21	1	0	7	23	0	0	45		
	5	24	14	7	5	6	5	4	6	9	10	7	102		
TOTAL	11	1403	1446	238	22	171	35	10	77	261	179	27	3881		
	5	382	345	53	10	42	16	3	28	63	68	18	528		
	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.

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

N -- STRATUM NOT SAMPLED



TABLE B-27 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD												EGGS				
	INDIAN POINT				WEST POINT				CORNWALL				REGION	CHANNEL	BOTTOM	REGION	
	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	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	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	0	0	0	0
	S.E.	0	0	43	43	N	0	0	0	0	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	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	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	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	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	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	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	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	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	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	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	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	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	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	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	0	0	0	0
	S.E.	0	0	0	0	N	0	0	0	0	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	0	0	0	0	0	0	0
	S.E.	0	0	43	43	N	0	0	0	0	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-27 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-27 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD						EGGS					
	SAUGERTIES			CATSKILL			SHOAL			CATSKILL		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	REGION	BOTTOM	CHANNEL	REGION	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	30179	0	N	30179	0	0	N	0	0	0
	S.E.	N	15367	0	N	15367	0	0	N	0	0	0
	NO. TOWS	N	3	3	N	6	3	3	N	3	3	6
09MAY83	ST. CROP	N	99639	2824	N	102463	568304	35430	N	568304	35430	603735
	S.E.	N	97077	2824	N	97118	496879	18741	N	496879	18741	497232
	NO. TOWS	N	3	3	N	6	3	3	N	3	3	6
16MAY83	ST. CROP	N	26798	3843	N	30641	10490	0	N	10490	0	10490
	S.E.	N	8413	3269	N	9026	5554	0	N	5554	0	5554
	NO. TOWS	N	4	3	N	7	3	3	N	3	3	6
23MAY83	ST. CROP	N	37159	0	N	37159	12860	2229	N	12860	2229	15089
	S.E.	N	19140	0	N	19140	8774	1467	N	8774	1467	8896
	NO. TOWS	N	5	3	N	8	3	3	N	3	3	6
30MAY83	ST. CROP	N	159	0	N	159	7730	980	N	7730	980	8710
	S.E.	N	40	0	N	40	1819	375	N	1819	375	1858
	NO. TOWS	N	5	3	N	8	3	3	N	3	3	6
06JUN83	ST. CROP	N	1032	99	N	1131	6222	297	N	6222	297	6518
	S.E.	N	370	99	N	383	1383	297	N	1383	297	1414
	NO. TOWS	N	5	3	N	8	3	3	N	3	3	6
13JUN83	ST. CROP	N	0	0	N	0	772	80	N	772	80	853
	S.E.	N	0	0	N	0	268	80	N	268	80	280
	NO. TOWS	N	4	2	N	6	3	3	N	3	3	6
20JUN83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	N	5	3	3	N	3	3	6
27JUN83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	N	6	3	3	N	3	3	6
04JUL83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	N	6	3	3	N	3	3	6
TOTAL	ST. CROP	N	194965	6766	N	201732	606379	39016	N	606379	39016	645395
	S.E.	N	100486	4321	N	100578	496993	18804	N	496993	18804	497348
	NO. TOWS	N	40	26	N	66	30	30	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	SHOAL	BOTTOM	CHANNEL	REGION		
02MAY83	ST. CROP	N	13923	N	13923	N	13923	0	74050	15558	89608			
	S.E.	N	6362	N	6362	N	6362	0	25900	10982	28132			
	NO. TOWS	N	5	N	5	N	5	21	66	107	194			
09MAY83	ST. CROP	N	23998	N	23998	N	23998	0	710998	38608	749606			
	S.E.	N	8583	N	8583	N	8583	0	506472	18954	506826			
	NO. TOWS	N	5	N	5	N	5	21	69	104	194			
16MAY83	ST. CROP	N	537982	N	537982	N	537982	0	600871	6786	607657			
	S.E.	N	184682	N	184682	N	184682	0	185412	4189	185459			
	NO. TOWS	N	5	N	5	N	5	21	67	106	194			
23MAY83	ST. CROP	N	157962	N	157962	N	157962	0	222269	2602	224871			
	S.E.	N	80703	N	80703	N	80703	0	84491	1480	84504			
	NO. TOWS	N	3	N	3	N	3	19	68	99	186			
30MAY83	ST. CROP	N	60755	N	60755	N	60755	0	69409	1037	70446			
	S.E.	N	37386	N	37386	N	37386	0	37431	380	37433			
	NO. TOWS	N	3	N	3	N	3	19	68	99	186			
06JUN83	ST. CROP	N	4934	N	4934	N	4934	0	12468	396	12864			
	S.E.	N	2643	N	2643	N	2643	0	3011	313	3027			
	NO. TOWS	N	3	N	3	N	3	19	68	99	186			
13JUN83	ST. CROP	N	4275	N	4275	N	4275	0	5145	80	5226			
	S.E.	N	4275	N	4275	N	4275	0	4285	80	4286			
	NO. TOWS	N	3	N	3	N	3	16	63	108	187			
20JUN83	ST. CROP	N	0	N	0	N	0	0	0	0	0			
	S.E.	N	0	N	0	N	0	0	0	0	0			
	NO. TOWS	N	3	N	3	N	3	16	63	108	187			
27JUN83	ST. CROP	N	0	N	0	N	0	0	0	0	0			
	S.E.	N	0	N	0	N	0	0	0	0	0			
	NO. TOWS	N	3	N	3	N	3	16	62	109	187			
04JUL83	ST. CROP	N	0	N	0	N	0	0	0	0	0			
	S.E.	N	0	N	0	N	0	0	0	0	0			
	NO. TOWS	N	3	N	3	N	3	16	62	109	187			
TOTAL	ST. CROP	N	803829	N	803829	N	803829	0	1695211	65067	1760278			
	S.E.	N	205323	N	205323	N	205323	0	547840	22357	548296			
	NO. TOWS	N	36	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.

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

N -- STRATUM NOT SAMPLED

TABLE B-28 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD											
	INDIAN POINT				WEST POINT				CORNWALL			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	34	0	0	0	0
09MAY83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. NO. TOWS	4	8	24	N	4	30	34	5	13	5	23
16MAY83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. NO. TOWS	4	7	25	N	7	30	37	5	10	5	20
23MAY83	ST. CROP	0	0	0	N	0	25	25	24	13	212	249
	S.E. NO. TOWS	3	6	13	N	7	23	30	5	9	6	213
30MAY83	ST. CROP	0	0	0	N	0	23	23	50	143	0	192
	S.E. NO. TOWS	3	6	15	N	6	23	29	43	64	0	77
06JUN83	ST. CROP	0	0	0	N	0	0	0	0	0	144	144
	S.E. NO. TOWS	4	6	14	N	7	23	30	5	9	89	89
13JUN83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. NO. TOWS	5	5	16	N	8	25	33	3	12	13	28
20JUN83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. NO. TOWS	5	5	17	N	8	25	33	3	12	13	28
27JUN83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. NO. TOWS	5	6	16	N	8	25	33	3	12	13	28
04JUL83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. NO. TOWS	5	5	16	N	8	25	33	3	12	13	28
TOTAL	ST. CROP	0	0	0	N	0	48	48	74	156	356	585
	S.E. NO. TOWS	42	61	181	N	67	259	326	47	65	230	243
					N				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	SHOAL	BOTTOM	CHANNEL	REGION		
02MAY83	ST. CROP S.E. NO. TOWS	N N N	0 0 9	0 0 19	N N N	0 0 10	0 0 11	0 0 21	N N N	0 0 6	0 0 7	0 0 13	N N N	0 0 6	0 0 7	0 0 13		
09MAY83	ST. CROP S.E. NO. TOWS	N N N	0 0 10	0 0 20	N N N	0 0 10	0 0 10	0 0 20	N N N	0 0 6	0 0 7	0 0 13	N N N	0 0 6	0 0 7	0 0 13		
16MAY83	ST. CROP S.E. NO. TOWS	N N N	151 90 10	209 107 20	N N N	657 175 8	156 85 11	813 195 19	N N N	1068 346 6	346 346 7	1413 782 13	N N N	1068 346 6	346 346 7	1413 782 13		
23MAY83	ST. CROP S.E. NO. TOWS	N N N	358 114 16	2021 452 38	N N N	950 393 7	2152 726 12	3102 826 19	N N N	7462 1309 4	4234 1309 6	11696 4378 10	N N N	7462 1309 4	4234 1309 6	11696 4378 10		
30MAY83	ST. CROP S.E. NO. TOWS	N N N	1499 522 16	2025 658 38	N N N	559 312 7	1820 713 12	2380 778 19	N N N	9961 1237 5	1900 1237 5	11861 6723 10	N N N	9961 1237 5	1900 1237 5	11861 6723 10		
06JUN83	ST. CROP S.E. NO. TOWS	N N N	106 48 16	596 210 38	N N N	476 132 7	284 186 12	761 228 19	N N N	6054 360 4	1224 360 6	7278 1869 10	N N N	6054 360 4	1224 360 6	7278 1869 10		
13JUN83	ST. CROP S.E. NO. TOWS	N N N	0 0 7	0 0 22	N N N	0 0 5	90 60 9	90 60 14	N N N	354 402 5	541 402 5	894 471 10	N N N	354 402 5	541 402 5	894 471 10		
20JUN83	ST. CROP S.E. NO. TOWS	N N N	0 0 8	0 0 22	N N N	0 0 5	0 0 9	0 0 14	N N N	0 0 5	0 0 6	0 0 11	N N N	0 0 5	0 0 6	0 0 11		
27JUN83	ST. CROP S.E. NO. TOWS	N N N	0 0 7	0 0 22	N N N	0 0 5	0 0 9	0 0 14	N N N	0 0 4	0 0 6	0 0 10	N N N	0 0 4	0 0 6	0 0 10		
04JUL83	ST. CROP S.E. NO. TOWS	N N N	0 0 7	0 0 22	N N N	0 0 5	0 0 9	0 0 14	N N N	0 0 4	0 0 6	0 0 10	N N N	0 0 4	0 0 6	0 0 10		
TOTAL	ST. CROP S.E. NO. TOWS	N N N	2114 544 106	4851 832 261	N N N	2642 548 69	4503 1040 104	7146 1175 173	N N N	24898 1911 49	8244 1911 61	33143 8288 110	N N N	24898 1911 49	8244 1911 61	33143 8288 110		

N -- STRATUM NOT SAMPLED

TABLE B-28 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED



TABLE B-28 (CONTINUED).

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

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

N -- STRATUM NOT SAMPLED

TABLE B-29 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-29 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-29 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-29 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	AMERICAN SHAD												YOUNG-OF-THE-YEAR									
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW						
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	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	0	0	0	0	0	0	0	0	
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	10	3	4	3	10	6	3	6	3	6	3	6	3	15	15
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	10	4	4	3	10	6	3	6	3	6	3	6	3	15	15
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	10	4	4	3	10	6	3	6	3	6	3	6	3	15	15
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	11	4	4	4	11	5	4	4	4	13	4	4	4	13	13
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	10	3	3	4	10	5	3	5	3	13	3	3	3	13	13
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	6	3	3	11	4	4	4	11	4	4	4	4	12	4	4	4	12	12
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	3	14	5	5	6	14	4	6	6	16	4	6	6	16	16	16
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	3	14	5	5	6	14	4	6	6	15	5	6	6	15	15	15
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	3	13	4	4	6	13	4	6	6	16	4	6	6	16	16	16
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	1	N	8	9	3	3	14	5	5	6	14	4	6	6	16	59	0	0	0	59	59
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	22	N	50	72	30	30	117	42	42	45	117	48	46	52	146	59	38	38	59	146	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		
	ST. CROP S.E. NO. TOWS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02MAY83		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	7	25	36	N	N	N	36	N	4	30	34	5	12	6	23							
09MAY83		0	0	0	0	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	8	24	36	N	N	N	36	N	4	30	34	5	13	5	23							
16MAY83		0	0	0	0	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	7	25	36	N	N	N	36	N	7	30	37	5	10	5	20							
23MAY83		0	0	0	0	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	6	13	22	N	N	N	22	N	7	23	30	5	9	6	20							
30MAY83		0	0	0	0	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	6	15	24	N	N	N	24	N	6	23	29	5	9	6	20							
06JUN83		0	0	0	0	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		4	6	14	24	N	N	N	24	N	7	23	30	5	9	5	19							
13JUN83		0	0	0	0	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	5	16	26	N	N	N	26	N	8	25	33	3	12	13	28							
20JUN83		0	0	0	0	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		5	5	17	27	N	N	N	27	N	8	25	33	3	12	13	28							
27JUN83		0	0	0	0	N	N	N	0	N	122	528	650	24	596	1183	1804							
		5	6	16	27	N	N	N	27	N	53	380	384	24	259	499	563							
04JUL83		222	0	855	1077	N	N	N	1077	N	35	796	831	277	6490	573	7340							
		80	0	404	411	N	N	N	411	N	17	180	180	202	1769	261	1799							
TOTAL		42	61	181	284	N	N	N	284	N	157	1324	1481	301	7086	1756	9144							
		80	0	404	411	N	N	N	411	N	55	420	424	204	1788	563	1885							
		42	61	181	284	N	N	N	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	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
09MAY83	ST. CROP	9	10	19	N	10	11	21	N	6	7	13
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
16MAY83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
23MAY83	ST. CROP	10	10	20	N	10	10	20	N	6	7	13
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
30MAY83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
06JUN83	ST. CROP	16	22	38	N	7	12	19	N	4	6	10
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
13JUN83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
20JUN83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	7	15	22	N	5	9	14	N	5	5	10
27JUN83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	189	840	1028	N	2103	125	2228	N	7239	205	7444
04JUL83	ST. CROP	55	526	529	N	1615	86	1617	N	103	103	5298
	S.E. NO. TOWS	7	15	22	N	5	9	14	N	4	6	10
TOTAL	ST. CROP	1844	11937	13781	N	1729	10785	12514	N	0	168	168
	S.E. NO. TOWS	641	3559	3616	N	717	3964	4028	N	168	168	168
		7	15	22	N	5	9	14	N	4	6	10
		2032	12777	14809	N	3832	10911	14742	N	7239	373	7612
		643	3597	3654	N	1767	3964	4340	N	197	197	5300
		106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-30 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-30 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

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

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

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

AMERICAN SHAD YOUNG-OF-THE-YEAR

WELK 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	0	16	143	142	68	353
	S.E.	17	0	665	666	N	0	16	137	51	68	161
	NO. TOWS	6	5	3	14	N	3	7	5	6	3	14
22AUG83	ST. CROP	12	0	0	12	N	0	489	87	352	0	439
	S.E.	12	0	0	12	N	0	407	31	251	0	252
	NO. TOWS	7	5	2	14	N	3	8	5	5	3	13
05SEP83	ST. CROP	7	27	0	34	N	0	0	4	0	0	4
	S.E.	7	17	0	18	N	0	0	4	0	0	4
	NO. TOWS	6	6	3	15	N	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	0	N	120	120	7	0	0	7
	S.E.	0	0	0	0	N	120	120	7	0	0	7
	NO. TOWS	6	5	3	14	N	3	8	6	5	2	13
03OCT83	ST. CROP	79	0	0	79	N	0	15	54	0	0	54
	S.E.	53	0	0	53	N	0	15	20	0	0	20
	NO. TOWS	6	5	3	14	N	2	6	5	6	4	15
17OCT83	ST. CROP	16	14	0	31	N	0	16	92	104	0	196
	S.E.	7	14	0	16	N	0	16	38	43	0	57
	NO. TOWS	6	6	3	15	N	3	8	5	5	3	13
TOTAL	ST. CROP	145	42	665	851	N	120	656	385	598	68	1052
	S.E.	58	22	665	668	N	120	426	147	259	68	306
	NO. TOWS	37	32	17	86	N	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD						YOUNG-OF-THE-YEAR						
	POUGHKEEPSIE			HYDE PARK			KINGSTON			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).

AMERICAN SHAD

WEEK  
BEGINNING  
MONDAY

WEEK BEGINNING MONDAY	ST. CROP S.E. NO. TOWS	SAUGERTIES			CATSKILL			REGION
		SHOAL	BOTTOM	CHANNEL	SHOAL	BOTTOM	CHANNEL	
08AUG83	N	1513	389	1901	N	3557	151	3708
	N	425	102	437	N	495	151	517
	N	12	6	18	N	15	6	21
22AUG83	N	4731	357	5088	N	5858	926	6784
	N	1154	313	1195	N	1583	721	1740
	N	12	6	18	N	15	6	21
05SEP83	N	674	206	881	N	2104	0	2104
	N	239	206	316	N	1129	0	1129
	N	12	6	18	N	15	6	21
19SEP83	N	110	0	110	N	251	183	435
	N	45	0	45	N	94	183	206
	N	12	6	18	N	15	6	21
03OCT83	N	802	133	935	N	633	35	668
	N	235	133	270	N	231	35	233
	N	12	6	18	N	15	6	21
17OCT83	N	94	0	94	N	264	0	264
	N	42	0	42	N	103	0	103
	N	13	6	19	N	14	6	20
TOTAL	N	7925	1085	9010	N	12668	1295	13963
	N	1276	410	1340	N	2025	760	2163
	N	73	36	109	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-31 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD			ALBANY			YOUNG-OF-THE-YEAR		
	ST., CROP S.E. NO., TOWS	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	N	2945	N	2945	1962	9579	2672	14213	
	N	1166	N	1166	434	1437	1112	1868	
	N	8	N	8	66	85	49	200	
22AUG83	N	2828	N	2828	476	20001	3924	24401	
	N	1040	N	1040	95	2457	1132	2706	
	N	8	N	8	64	87	49	200	
05SEP83	N	4221	N	4221	151	7261	206	7618	
	N	3302	N	3302	54	3498	206	3505	
	N	8	N	8	63	87	49	199	
19SEP83	N	22	N	22	99	631	304	1034	
	N	22	N	22	30	121	219	252	
	N	8	N	8	64	86	49	199	
03OCT83	N	0	N	0	188	2029	204	2421	
	N	0	N	0	62	365	142	397	
	N	8	N	8	65	85	50	200	
17OCT83	N	42	N	42	333	1169	339	1841	
	N	42	N	42	82	201	339	402	
	N	8	N	8	64	86	50	200	
TOTAL	N	10059	N	10059	3209	40670	7649	51528	
	N	3653	N	3653	461	4531	1656	4846	
	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.

WEEK BEGINNING MONDAY	AMERICAN SHAD													AL	COMBINED
	YOUNG-OF-THE-YEAR														
	YK	TZ	CH	IP	WP	REGIONS			HP	KG	SG	CS			
						CW	PK								
01AUG83	5	114	23	369	74	275	363	124	343	960	1552	774	4975		
ST. CROP	3	45	13	323	41	121	200	43	146	211	693	220	872		
S.E. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100		
15AUG83	0	17	0	11	34	266	435	82	183	388	815	495	2726		
ST. CROP	0	10	0	7	13	111	71	35	74	90	233	150	331		
S.E. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100		
29AUG83	3	30	88	77	24	257	404	42	165	575	700	776	3145		
ST. CROP	2	17	84	69	11	186	107	12	68	155	274	242	470		
S.E. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100		
12SEP83	5	66	67	39	21	146	143	17	172	778	244	202	1900		
ST. CROP	3	36	57	28	17	71	18	10	83	251	64	61	298		
S.E. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100		
26SEP83	0	70	6	42	22	154	43	35	122	337	179	85	1096		
ST. CROP	0	34	4	42	11	69	17	10	50	87	42	37	146		
S.E. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101		
10OCT83	5	57	15	1	17	41	61	8	119	203	295	49	871		
ST. CROP	3	26	12	1	12	11	30	3	35	70	86	22	126		
S.E. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102		
TOTAL	17	354	200	540	192	1139	1449	308	1104	3242	3786	2382	14712		
ST. CROP	6	75	103	334	51	267	241	59	205	390	790	368	1103		
S.E. 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  
 AUG 1 - AUG 7

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

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

TABLE B-33 (CONTINUED).  
 AMERICAN SHAD YOUNG-OF-THE-YEAR  
 AUG 8 - AUG 14

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

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

AMERICAN SHAD  
 TABLE B-33 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 AUG 15 - AUG 21

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

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

AMERICAN SHAD  
 TABLE B-33 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 AUG 22 - AUG 28

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

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

AMERICAN SHAD  
 TABLE B-33 (CONTINUED).  
 AUG 29 - SEP 4  
 YOUNG-OF-THE-YEAR

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

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

AMERICAN SHAD  
 TABLE B-33 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 5 - SEP 11

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

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

AMERICAN SHAD  
 TABLE B-33 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 12 - SEP 18

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

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

VAR(STDR) #  
 VAR(STDE) #

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



AMERICAN SHAD  
 TABLE B-33 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 19 - SEP 25

REGION	ST. CROP SE	SHORE ZONE	STRATUM		CHANNEL	REGIONAL TOTALS
			SHOAL (10'-20')	BOTTOM		
YONKERS	ST. CROP SE	5 3	9 9	27 * 27 *	0 0	40 28
TAPPAN ZEE	ST. CROP SE	66 36	40 17	0 0	0 0	106 40
CROTON-HAVERSTRAW	ST. CROP SE	67 57	21 11	0 0	0 0	88 58
INDIAN POINT	ST. CROP SE	39 28	0 0	0 0	0 0	39 28
WEST POINT	ST. CROP SE	21 17	0 * 0 *	0 0	120 120	141 122
CORNWALL	ST. CROP SE	146 71	5 5	0 0	0 0	150 71
POUGHKEEPSIE	ST. CROP SE	143 18	6 * 3 *	88 36	0 0	237 47
HYDE PARK	ST. CROP SE	17 10	1 * 1 *	12 12	0 0	29 16
KINGSTON	ST. CROP SE	172 83	27 * 7 *	103 29	0 0	302 88
SAUGERTIES	ST. CROP SE	778 251	27 * 11 *	75 31	0 0	879 253
CATSKILL	ST. CROP SE	244 64	85 * 32 *	138 52	183 183	651 204
ALBANY	ST. CROP SE	202 61	6 * 6 *	4 4	10 * 10 *	222 62
STRATUM TOTAL	ST. CROP SE	1900 298	225 * 42 *	447 82	314 * 220 *	2886 382

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

VAR(SDR) #  
 VAR(STDE) #

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

AMERICAN SHAD  
 TABLE B-33 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 26 - OCT 2

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

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

AMERICAN SHAD (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 OCT 3 - OCT 9

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

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

# 1

VAR(STDR) #  
 VAR(STDE) #

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

TABLE B-33 (CONTINUED).  
 AMERICAN SHAD OCT 10 - OCT 16  
 YOUNG-OF-THE-YEAR

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

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

AMERICAN SHAD  
 TABLE B-33 (CONTINUED)  
 YOUNG-OF-THE-YEAR  
 OCT 17 - OCT 23

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

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

VAR(STDR) #  
 VAR(STDE) #

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

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

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

N -- STRATUM NOT SAMPLED

TABLE B-34 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-34 (CONTINUED).

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

N -- STRATUM NOT SAMPLED



TABLE B-34 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-34 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD						YEARLING					
	ALBANY			COMBINED			ALBANY			COMBINED		
	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
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	N	5	21	66	107	194				
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	5	N	5	21	69	104	194				
16MAY83	ST. CROP	0	N	0	0	0	0	22	22	22	22	22
	S.E.	0	N	0	0	0	0	22	22	22	22	22
	NO. TOWS	5	N	5	21	67	106	194				
23MAY83	ST. CROP	0	N	0	0	0	0	5	5	5	5	5
	S.E.	0	N	0	0	0	0	5	5	5	5	5
	NO. TOWS	3	N	3	19	68	99	186				
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	19	68	99	186				
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	19	68	99	186				
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	16	63	108	187				
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	16	63	108	187				
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	16	62	109	187				
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	3	N	3	16	62	109	187				
TOTAL	ST. CROP	0	N	0	5	0	0	22	5	0	22	27
	S.E.	0	N	0	5	0	0	22	5	0	22	23
	NO. TOWS	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.

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

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-35 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	YK	TZ	CH	IP	WP	REGIONS							AI	COMBINED
						AMERICAN SHAD	YEARLING	CW	PK	HP	KG	SG		
01AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	5	5	5	5	5	5	7	10	100
15AUG83	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	5	24	14	5	5	5	5	5	5	5	5	7	10	100
29AUG83	2	0	0	0	0	0	0	0	0	0	0	0	0	2
	2	0	0	0	0	0	0	0	0	0	0	0	0	2
	5	24	14	5	5	5	5	5	5	5	5	7	10	100
12SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	5	5	5	5	5	5	7	10	100
26SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	5	5	5	5	5	5	7	10	101
10OCT83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	7	5	5	6	5	4	6	6	7	10	102
TOTAL	2	2	0	0	0	0	0	0	0	0	0	0	0	3
	2	2	0	0	0	0	0	0	0	0	0	0	0	2
	30	144	84	32	30	30	37	30	29	31	54	42	60	603



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

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

N -- STRATUM NOT SAMPLED

TABLE B-37 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD												REGION
	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. TOWS	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. TOWS	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. TOWS	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. TOWS	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. TOWS	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. TOWS	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. TOWS	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).

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

N -- STRATUM NOT SAMPLED

TABLE B-37 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-37 (CONTINUED).

WEEK BEGINNING MONDAY	AMERICAN SHAD			ALBANY			OLDER			COMBINED			
	SHOAL	BOTTOM	CHANNEL	SHOAL	BOTTOM	CHANNEL	SHOAL	BOTTOM	CHANNEL	SHOAL	BOTTOM	CHANNEL	REGION
	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	REGION
08AUG83	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	8	N	8	8	8	66	85	49	200	0	0	200
22AUG83	N	0	N	0	0	0	0	13	0	13	0	0	13
	N	0	N	0	0	0	0	13	0	13	0	0	13
	N	8	N	8	8	8	64	87	49	200	0	0	200
05SEP83	N	0	N	0	0	0	0	14	0	14	0	0	14
	N	0	N	0	0	0	0	14	0	14	0	0	14
	N	8	N	8	8	8	63	87	49	199	0	0	199
19SEP83	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	8	N	8	8	8	64	86	49	199	0	0	199
03OCT83	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	8	N	8	8	8	65	85	50	200	0	0	200
17OCT83	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	8	N	8	8	8	64	86	50	200	0	0	200
TOTAL	N	0	N	0	0	0	0	27	0	27	0	0	27
	N	0	N	0	0	0	0	19	0	19	0	0	19
	N	48	N	48	48	48	386	516	296	1198	0	0	1198

N -- STRATUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	AMERICAN SHAD										OLDER			
	YK	TZ	CH	IP	WP	REGIONS		HP	KG	SG	CS	AL	COMBINED	
01AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
15AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	24	14	5	5	6	5	5	9	10	7	7	100	
29AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	24	14	5	5	6	5	5	9	10	7	7	100	
12SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	24	14	5	5	6	5	5	9	10	7	7	100	
26SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	24	14	5	5	7	5	5	9	10	7	7	101	
10OCT83	0	2	0	0	0	0	0	0	0	0	0	0	2	
	0	2	0	0	0	0	0	0	0	0	0	0	2	
	5	24	14	7	5	6	5	4	9	10	7	7	102	
TOTAL	0	2	0	0	0	0	0	0	0	0	0	0	2	
	0	2	0	0	0	0	0	0	0	0	0	0	2	
	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.

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

N -- STRATUM NOT SAMPLED

TABLE B-39 (CONTINUED).

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

N -- STRATUM NOT SAMPLED



TABLE B-39 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED

TABLE B-39 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED

TABLE B-39 (CONTINUED).

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

N -- STRATUM N01 SAMPLED

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

WEEK BEGINNING MONDAY	ATLANTIC TOMCOD												YOUNG-OF-THE-YEAR					
	YONKERS						TAPPAN ZEE						CROTON-HAVERSTRAW					
	SHOAL	BOTTOM	CHANNEL	REGION	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	0	0	0		
	S.E.	325	N	46520	46521	0	0	0	0	0	0	0	0	0	0	0		
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	6	3	6	15		
09MAY83	ST. CROP	394	N	0	394	0	737	0	737	0	737	184	1238	36	1458	1458		
	S.E.	285	N	0	285	0	388	0	388	0	388	148	1004	36	1016	1016		
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	3	6	15	15		
16MAY83	ST. CROP	0	N	0	0	289	30864	0	31154	92	934	92	934	0	1026	1026		
	S.E.	0	N	0	0	145	26839	0	26839	64	934	64	934	0	937	937		
	NO. TOWS	3	N	3	6	3	4	3	10	6	3	6	3	6	15	15		
23MAY83	ST. CROP	8689	N	0	8689	188	6327	6004	12518	0	2945	0	2945	46	2992	2992		
	S.E.	8120	N	0	8120	188	5164	4909	7128	0	1321	0	1321	46	1322	1322		
	NO. TOWS	3	N	3	6	3	4	4	11	5	4	5	4	4	13	13		
30MAY83	ST. CROP	5966	N	243	6209	0	33540	3267	36807	39	68	39	68	0	107	107		
	S.E.	5966	N	243	5971	0	33540	3267	33699	39	68	39	68	0	79	79		
	NO. TOWS	3	N	3	6	3	3	4	10	5	5	5	5	3	13	13		
06JUN83	ST. CROP	0	N	5089	5089	2383	255	209	2847	53	139	53	139	0	193	193		
	S.E.	0	N	5089	5089	2383	188	209	2399	53	110	53	110	0	122	122		
	NO. TOWS	3	N	3	6	3	4	4	11	4	4	4	4	4	12	12		
13JUN83	ST. CROP	4221	N	29026	33247	0	19677	4040	23718	0	172	0	172	0	172	172		
	S.E.	0	N	23490	23490	0	5100	3748	6329	0	100	0	100	0	100	100		
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	4	6	6	16	16		
20JUN83	ST. CROP	33688	N	77	33765	17147	18446	3838	39431	0	6675	0	6675	162	6837	6837		
	S.E.	0	N	77	77	10588	2605	1538	11012	0	2372	0	2372	162	2378	2378		
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	4	6	5	15	15		
27JUN83	ST. CROP	4190	N	0	4190	135	17571	0	17706	43	6667	43	6667	280	6990	6990		
	S.E.	0	N	0	0	135	8093	0	8094	43	2428	43	2428	280	2445	2445		
	NO. TOWS	1	N	8	9	3	4	6	13	4	6	4	6	6	16	16		
04JUL83	ST. CROP	18425	N	881	19306	0	20240	0	20240	0	3113	0	3113	0	3113	3113		
	S.E.	0	N	881	881	0	3914	0	3914	0	633	0	633	0	633	633		
	NO. TOWS	1	N	8	9	3	5	6	14	4	6	4	6	6	16	16		
TOTAL	ST. CROP	75949	N	84410	160359	20142	147657	17358	185157	411	21954	411	21954	524	22888	22888		
	S.E.	10086	N	52370	53332	10856	44562	7158	46420	180	3947	180	3947	329	3965	3965		
	NO. TOWS	22	N	50	72	30	42	45	117	48	46	48	46	52	146	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													
	ST. S.E. NO.	CROP TOWS			ST. S.E. NO.	CROP TOWS			ST. S.E. NO.	CROP TOWS			ST. S.E. NO.	CROP TOWS			ST. S.E. NO.	CROP TOWS			ST. S.E. NO.	CROP TOWS			ST. S.E. NO.	CROP TOWS			ST. S.E. NO.	CROP TOWS			ST. S.E. NO.	CROP TOWS								
02MAY83	0	0	0	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
09MAY83	12	0	0	0	N	0	0	12	18	18	18	18	18	18	18	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
16MAY83	22	1991	216	2229	N	840	52	2229	893	893	893	893	893	893	893	893	22	1571	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36		
23MAY83	0	3021	43	3064	N	1902	683	3064	2585	2585	2585	2585	2585	2585	2585	2585	3	1013	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22		
30MAY83	0	2741	433	3173	N	3637	75	3173	3712	3712	3712	3712	3712	3712	3712	3712	0	1374	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
06JUN83	0	4809	0	4809	N	1515	46	4809	1560	1560	1560	1560	1560	1560	1560	1560	4	3081	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14		
13JUN83	0	1967	115	2082	N	1762	175	2082	1937	1937	1937	1937	1937	1937	1937	1937	0	1142	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	
20JUN83	0	2916	509	3426	N	1133	333	3426	1466	1466	1466	1466	1466	1466	1466	1466	5	1050	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
27JUN83	17	4024	230	4271	N	261	1223	4271	1484	1484	1484	1484	1484	1484	1484	1484	11	1918	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186	186
04JUL83	16	1426	110	1551	N	5736	2768	1551	8504	8504	8504	8504	8504	8504	8504	8504	10	636	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
TOTAL	66	22895	1655	24617	N	16784	5373	24617	22158	22158	22158	22158	22158	22158	22158	22158	28	4618	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	503	
	42	61	181	284	N	67	259	284	326	326	326	326	326	326	326	326																										

N -- STRATUM NOT SAMPLED

TABLE B-40 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-40 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-40 (CONTINUED).

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

N -- STRATUM NOT SAMPLED



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

WEEK BEGINNING MONDAY	ATLANTIC TOMCOD												YOUNG-OI - THE -YEAR		
	YONKERS				TAPPAN ZEE				CROTON-HAVERSRAW						
	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		
03OCT83	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).

WEEK BEGINNING MONDAY	ATLANTIC TOMCOD												YOUNG-OF-THE-YEAR			
	INDIAN POINT				WEST POINT				CORNWALL				REGION	CHANNEL	BOTTOM	REGION
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION				
08AUG83	ST. CROP S.E. NO. TOWS	22 22 6	53 37 5	166 166 3	242 172 14	N N N	205 59 4	2303 1152 3	2508 1153 7	4 4 5	185 126 6	0 0 3	190 127 14			
22AUG83	ST. CROP S.E. NO. TOWS	0 0 7	0 0 5	0 0 2	0 0 14	N N N	337 41 5	0 0 3	337 41 8	4 4 5	0 0 5	0 0 3	4 4 13			
05SEP83	ST. CROP S.E. NO. TOWS	0 0 6	143 86 6	261 261 3	404 275 15	N N N	138 93 5	158 158 3	296 183 8	0 0 5	33 33 5	0 0 3	33 33 13			
19SEP83	ST. CROP S.E. NO. TOWS	0 0 6	0 0 5	0 0 3	0 0 14	N N N	28 28 5	0 0 3	28 28 8	0 0 6	52 35 5	0 0 2	52 35 13			
03OCT83	ST. CROP S.E. NO. TOWS	0 0 6	121 121 5	0 0 3	121 121 14	N N N	63 42 4	0 0 2	63 42 6	32 13 5	177 68 6	0 0 4	209 69 15			
17OCT83	ST. CROP S.E. NO. TOWS	0 0 6	0 0 6	0 0 3	0 0 15	N N N	33 33 5	0 0 3	33 33 8	8 8 5	383 174 5	0 0 3	391 174 13			
TOTAL	ST. CROP S.E. NO. TOWS	22 22 37	317 153 32	427 309 17	767 346 86	N N N	804 132 28	2461 1162 17	3265 1170 45	49 17 31	830 230 32	0 0 18	879 231 81			

N -- STRATUM NOT SAMPLED

TABLE B-41 (CONTINUED).

WEEK BEGINNING MONDAY	ATLANTIC TOMCOD											
	POUGHKEEPSIE				HYDE PARK				KINGSION			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
22AUG83	ST. CROP	N	38	0	N	0	0	0	N	0	0	0
	S.E.	N	38	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
05SEP83	ST. CROP	N	31	0	N	0	0	0	N	0	0	0
	S.E.	N	31	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
19SEP83	ST. CROP	N	306	0	N	26	0	26	N	0	0	0
	S.E.	N	224	0	N	16	0	16	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
03OCT83	ST. CROP	N	208	0	N	31	0	31	N	29	0	29
	S.E.	N	124	0	N	20	0	20	N	0	0	29
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
17OCT83	ST. CROP	N	729	0	N	26	0	26	N	0	0	0
	S.E.	N	320	0	N	26	0	26	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
TOTAL	ST. CROP	N	1312	0	N	82	0	82	N	29	0	29
	S.E.	N	413	0	N	36	0	36	N	0	0	29
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	90

N -- STRATUM NOT SAMPLED

TABLE B-41 (CONTINUED).

WEEK BEGINNING MONDAY	ATLANTIC TOMCOD			YOUNG-OF-THE-YEAR				
	SAUGERTIES			CATSKILL				
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	12	6	18	N	15	6	21
22AUG83	ST. CROP	0	0	0	N	13	0	13
	S.E.	0	0	0	N	13	0	13
	NO. TOWS	12	6	18	N	15	6	21
05SEP83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	12	6	18	N	15	6	21
19SEP83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	12	6	18	N	15	6	21
03OCT83	ST. CROP	16	0	16	N	0	0	0
	S.E.	16	0	16	N	0	0	0
	NO. TOWS	12	6	18	N	15	6	21
17OCT83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	13	6	19	N	14	6	20
TOTAL	ST. CROP	16	0	16	N	13	0	13
	S.E.	16	0	16	N	13	0	13
	NO. TOWS	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.

WEEK BEGINNING MONDAY	ATLANTIC TOMCOD											YOUNG-OF-THE-YEAR			
	YK	TZ	CH	1P	WP	CW	PK	HIP	KG	SG	CS	AI	COMBINED		
01AUG83	0	4	12	0	0	0	0	0	0	0	0	0	15		
	0	4	8	0	0	0	0	0	0	0	0	0	9		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
15AUG83	0	6	4	0	0	0	0	0	0	0	0	0	10		
	0	3	3	0	0	0	0	0	0	0	0	0	4		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
29AUG83	0	8	10	0	0	0	0	0	0	0	0	0	17		
	0	4	10	0	0	0	0	0	0	0	0	0	10		
	5	24	14	5	5	6	5	5	9	10	7	7	100		
12SEP83	0	8	0	0	0	0	0	0	0	0	0	0	8		
	0	4	0	0	0	0	0	0	0	0	0	0	4		
	5	24	14	5	5	6	5	5	9	10	7	7	100		
26SEP83	0	13	0	0	0	0	0	0	0	0	0	0	13		
	0	11	0	0	0	0	0	0	0	0	0	0	11		
	5	24	14	5	5	7	5	5	9	10	7	7	101		
10OCT83	0	6	0	0	0	0	0	0	0	0	0	0	6		
	0	4	0	0	0	0	0	0	0	0	0	0	4		
	5	24	14	.7	5	6	5	4	9	10	7	7	102		
TOTAL	0	44	25	0	0	0	0	0	0	0	0	0	69		
	0	14	13	0	0	0	0	0	0	0	0	0	19		
	30	144	84	32	30	37	30	29	31	60	42	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 AUG 1 - AUG 7

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

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

ATLANTIC TOMCOD  
 TABLE B-43 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 AUG 8 - AUG 14

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

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

VAR(STDR) #  
 VAR(SIDE) #

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

ATLANTIC TOMCOD  
 TABLE B-43 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 AUG 15 - AUG 21

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

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



ATLANTIC TOMCOD  
 TABLE B-43 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 AUG 22 - AUG 28

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

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

ATLANTIC TOMCOD (CONTINUED).  
YOUNG-OF-THE-YEAR  
AUG 29 - SEP 4

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

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

ATLANTIC TOMCOD (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 5 - SEP 11

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

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

VAR(STDR) #  
 VAR(STDE) #

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

ATLANTIC TOMCOD  
 TABLE B-43 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 12 - SEP 18

REGION	SHORE ZONE		SHOAL (10' - 20')		BOTTOM	CHANNEL	REGIONAL TOTALS
	ST. CROP	SE	ST. CROP	SE			
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=  
 ADJUSTED BEACH SEINE EFFICIENCY = STDE=  
 ADJUSTED ICHTHYO EFFICIENCY = STDS=

# # # 1

VAR(STDR) #  
 VAR(STDE) #

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

ATLANTIC TOMCOD  
 TABLE B-43 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 19 - SEP 25

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

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

# # #  
 VAR(STDR) #  
 VAR(SIDE) #

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

ATLANTIC TOMCOD (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 26 - OCT 2

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

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

ATLANTIC TOMCOD  
 TABLE B-43 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 OCT 3 - OCT 9

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

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

VAR(STDR) #  
 VAR(STDE) #

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

ATLANTIC TOMCOD  
OCT 10 - OCT 16  
TABLE B-43 (CONTINUED).  
YOUNG-OF-THE-YEAR

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

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



ATLANTIC TOMCOD  
 TABLE B-43 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 OCT 17 - OCT 23

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

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

# # 1

VAR(STDR) #  
 VAR(SIDE) #

\*--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.

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

N -- STRATUM NOT SAMPLED

TABLE B-44 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED

TABLE B-44 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-44 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-44 (CONTINUED).

WEEK BEGINNING MONDAY	ALLEWIFE/BUEBACK HERRING						EGGS					
	ALBANY			COMBINED			ALBANY			COMBINED		
	SHOAL	BOTTOM	CHANNEL	REGION	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.

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

N -- STRATUM NOT SAMPLED

TABLE B-45 (CONTINUED).

## ALEWIFE/BUEBACK HERRING YOLK-SAC LARVAE

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

N -- STRATIUM NOT SAMPLED



TABLE B-45 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-45 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-45 (CONTINUED).

WEEK BEGINNING MONDAY	ALLEWITE/BLUEBACK HERRING			YOLK-SAC LARVAE					
	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	135813	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.

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

N -- STRATUM NOT SAMPLED

TABLE B-46 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-116 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-46 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-46 (CONTINUED).

WEEK BEGINNING MONDAY	ALFWIFE/BLUEBACK HERRING			POST YOLK-SAC LARVAE					
	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.

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

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).

ALEWITE/BUEBACK 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	N	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	0	0	0	0
09MAY83	ST. CROP	4	7	25	N	4	30	34	5	12	6	23
	S.E. NO. TOWS	0	0	0	N	0	0	0	0	0	0	0
16MAY83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	0	0	0	0
23MAY83	ST. CROP	4	7	25	N	7	30	37	5	10	5	20
	S.E. NO. TOWS	0	0	0	N	0	0	0	0	0	0	0
30MAY83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	0	0	0	0
06JUN83	ST. CROP	3	6	13	N	7	23	30	5	9	6	20
	S.E. NO. TOWS	0	0	0	N	0	0	0	0	0	0	0
13JUN83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	0	0	0	0
20JUN83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	0	0	0	0
27JUN83	ST. CROP	4	6	14	N	7	23	30	5	9	5	19
	S.E. NO. TOWS	0	0	0	N	0	0	0	0	0	0	0
04JUL83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	0	0	0	0
TOTAL	ST. CROP	5	5	17	N	8	25	33	3	12	13	28
	S.E. NO. TOWS	0	0	0	N	0	0	0	0	0	0	0
TOTAL	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	0	0	0	0
TOTAL	ST. CROP	24	20	133	N	18	252	270	907	5414	647	6968
	S.E. NO. TOWS	24	20	83	N	18	104	106	463	1528	294	1623
TOTAL	ST. CROP	42	61	181	N	8	25	33	3	12	13	28
	S.E. NO. TOWS	24	20	133	N	18	292	310	907	5452	779	7139
TOTAL	ST. CROP	24	20	83	N	18	108	110	463	1528	305	1625
	S.E. NO. TOWS	42	61	181	N	67	259	326	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).

ALEWIFE/BUEBACK 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	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
09MAY83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
16MAY83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
23MAY83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
30MAY83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
06JUN83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
13JUN83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
20JUN83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
27JUN83	ST. CROP	415	0	415	N	194	0	194	N	37	0	37
	S.E. NO. TOWS	263	0	263	N	168	0	168	N	0	0	0
04JUL83	ST. CROP	3112	7925	11037	N	807	3871	4677	N	0	0	0
	S.E. NO. TOWS	2817	3864	4782	N	204	1152	1170	N	0	0	0
TOTAL	ST. CROP	3527	7925	11452	N	1001	3871	4871	N	37	0	37
	S.E. NO. TOWS	2829	3864	4789	N	265	1152	1182	N	0	0	0
		106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-47 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

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

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

N -- STRATUM NOT SAMPLED

TABLE B-48 (CONTINUED).

WEEK BEGINNING MONDAY	BLUEBACK HERRING											
	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	193	272	653	3768	0	4421
	S.E.	21	293	333	444	N	193	202	536	996	0	1131
	NO. TOWS	6	5	3	14	N	4	7	5	6	3	14
22AUG83	ST. CROP	33	74	0	107	N	0	156	282	742	0	1024
	S.E.	19	36	0	41	N	0	137	110	455	0	468
	NO. TOWS	7	5	2	14	N	5	8	5	5	3	13
05SEP83	ST. CROP	0	128	0	128	N	0	92	248	233	0	481
	S.E.	0	81	0	81	N	0	38	130	213	0	250
	NO. TOWS	6	6	3	15	N	5	8	5	5	3	13
19SEP83	ST. CROP	33	40	0	73	N	0	182	7	868	599	1474
	S.F.	16	25	0	30	N	0	133	4	406	599	724
	NO. TOWS	6	5	3	14	N	5	8	6	5	2	13
03OCT83	ST. CROP	148	299	0	447	N	0	257	257	454	0	711
	S.E.	98	147	0	176	N	0	190	80	125	0	148
	NO. TOWS	6	5	3	14	N	4	6	5	6	4	15
17OCT83	ST. CROP	301	2893	0	3194	N	274	5140	2121	8505	136	10762
	S.E.	111	1141	0	1146	N	274	2104	1187	2257	68	2551
	NO. TOWS	6	6	3	15	N	3	8	5	5	3	13
TOTAL	ST. CROP	569	4436	333	5337	N	467	6099	3567	14570	735	18872
	S.E.	151	1191	333	1245	N	335	2131	1316	2554	603	2935
	NO. TOWS	37	32	17	86	N	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-48 (CONTINUED).

WEEK BEGINNING MONDAY	BLUEBACK HERRING												
	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
03OCT83	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
17OCT83	ST. CROP	N	11058	148	11206	N	32942	144	33087	N	11676	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			SAUGERTIES			YOUNG-OF-THE-YEAR			CATSKILL			
	ST. CROP S.E. NO. TOWS	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83		N	50302	6887	57188	N	65603	1839	67442	N	8720	999	8777
		N	5367	2324	5849	N	8720	999	8777	N	15	6	21
		N	12	6	18	N	15	6	21	N	15	6	21
22AUG83		N	3696	597	4292	N	34738	672	35410	N	7493	543	7513
		N	1403	597	1524	N	7493	543	7513	N	15	6	21
		N	12	6	18	N	15	6	21	N	15	6	21
05SEP83		N	16899	600	17498	N	13537	0	13537	N	4909	0	4909
		N	3261	272	3272	N	4909	0	4909	N	15	6	21
		N	12	6	18	N	15	6	21	N	15	6	21
19SEP83		N	6476	469	6945	N	9656	2997	12653	N	3153	2997	4350
		N	2131	191	2139	N	3153	2997	4350	N	15	6	21
		N	12	6	18	N	15	6	21	N	15	6	21
03OCT83		N	36942	2232	39174	N	19266	32	19297	N	5950	32	5951
		N	7280	1439	7421	N	5950	32	5951	N	15	6	21
		N	12	6	18	N	15	6	21	N	15	6	21
17OCT83		N	16521	1026	17547	N	13226	131	13357	N	2588	131	2591
		N	2071	740	2199	N	2588	131	2591	N	14	6	20
		N	13	6	19	N	14	6	20	N	14	6	20
TOTAL		N	130834	11810	142645	N	156027	5671	161697	N	14433	3208	14786
		N	10160	2912	10569	N	14433	3208	14786	N	89	36	125
		N	73	36	109	N	89	36	125	N	89	36	125

N -- STRATIUM 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
03OCT83	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
17OCT83	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.

WEEK BEGINNING MONDAY	BLUEBACK HERRING											AL	COMBINED
	YOUNG-OF-THE-YEAR												
	YK	TZ	CH	IP	WP	REGIONS			KG	SG	CS		
						CW	PK	HP					
01AUG83	5	318	319	240	557	1209	949	1847	5141	3416	3479	4499	21976
	3	168	146	112	267	564	396	1070	4280	1182	1941	1289	5186
	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	0	0	75	41	320	905	9245	877	634	4200	7306	1035	24637
	0	0	38	32	267	413	8703	831	387	1817	3577	585	9657
	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	2	4	106	0	230	951	2658	2248	4752	7272	952	2310	21484
	2	4	106	0	129	409	1620	1190	3191	3248	417	1001	5113
	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	2	27	2	0	3118	366	2783	26	4466	2598	1428	444	15260
	2	16	2	0	3074	109	2522	10	3962	1026	765	202	5762
	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	0	0	0	0	201	543	862	1193	1524	2253	437	1209	8222
	0	0	0	0	129	359	400	859	448	1551	212	585	2009
	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	0	2	0	4	727	387	1078	193	3415	252	197	116	6371
	0	2	0	4	710	229	1039	141	1252	215	126	51	1814
	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	8	350	501	284	5154	4362	17575	6383	19932	19990	13798	9614	97950
	4	169	184	116	3182	921	9281	2003	6790	4331	4169	1841	13668
	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.

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

N -- STRATUM NOT SAMPLED

TABLE B-50 (CONTINUED).

WEEK BEGINNING MONDAY	BLUEBACK HERRING														
	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			
	S.E. NO. TOWS	0	0	25	36	N	0	0	0	0	0	0			
		4	7			N	4	30	5	12	6	23			
09MAY83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0			
	S.E. NO. TOWS	0	0	24	36	N	0	0	0	0	0	0			
		4	8			N	4	30	5	13	5	23			
16MAY83	ST. CROP	0	0	87	87	N	0	42	10	0	0	10			
	S.F. NO. TOWS	0	0	52	52	N	0	29	6	0	0	6			
		4	7	25	36	N	7	30	5	10	5	20			
23MAY83	ST. CROP	0	0	0	0	N	0	0	15	0	0	15			
	S.E. NO. TOWS	0	0	13	22	N	0	23	15	0	0	15			
		3	6			N	7		5	9	6	20			
30MAY83	ST. CROP	0	0	0	0	N	0	0	10	0	0	10			
	S.E. NO. TOWS	0	0	15	24	N	0	23	10	0	0	10			
		3	6			N	6		5	9	6	20			
06JUN83	ST. CROP	0	0	0	0	N	0	0	6	0	0	6			
	S.E. NO. TOWS	0	0	14	24	N	0	23	6	0	0	6			
		4	6			N	7		5	9	5	19			
13JUN83	ST. CROP	7	0	0	7	N	0	0	0	0	0	0			
	S.E. NO. TOWS	7	0	16	26	N	0	25	0	0	0	0			
		5	5			N	8		3	12	13	28			
20JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0			
	S.E. NO. TOWS	0	0	17	27	N	0	25	0	0	0	0			
		5	5			N	8		3	12	13	28			
27JUN83	ST. CROP	0	0	0	0	N	0	0	0	0	0	0			
	S.E. NO. TOWS	0	0	16	27	N	0	25	0	0	0	0			
		5	6			N	8		3	12	13	28			
04JUL83	ST. CROP	0	0	27	27	N	0	0	0	0	0	0			
	S.E. NO. TOWS	0	0	27	27	N	0	25	0	0	0	0			
		5	5	16	26	N	8		3	12	13	28			
TOTAL	ST. CROP	7	0	115	122	N	0	42	41	0	0	41			
	S.E. NO. TOWS	7	0	58	59	N	0	29	20	0	0	20			
		42	61	181	284	N	67	259	42	110	85	237			

N -- STRATUM NOT SAMPLED

TABLE B-50 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-50 (CONTINUED).

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

N -- STRATIUM NO1 SAMPLED

TABLE B-50 (CONTINUED).

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

N -- STRATUM NOT SAMPLED



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

WEEK BEGINNING MONDAY	BLUEBACK HERRING														
	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			
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0			
22AUG83	ST. CROP	7	N	5	12	32	7	46	16	8	3	27			
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0			
05SEP83	ST. CROP	0	N	0	0	29	9	46	16	8	3	27			
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0			
19SEP83	ST. CROP	0	N	0	0	29	8	45	16	8	2	26			
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0			
03OCT83	ST. CROP	6	N	5	11	31	8	47	15	8	3	26			
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0			
17OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0			
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0			
TOTAL	ST. CROP	37	N	0	37	0	306	306	0	0	0	0			
	S.E. NO. TOWS	37	N	0	37	0	306	306	0	0	0	0			
TOTAL	ST. CROP	40	N	30	-70	182	47	276	96	47	17	160			
	S.E. NO. TOWS	40	N	30	-70	182	47	276	96	47	17	160			

N -- STRATUM NOT SAMPLED

TABLE B-51 (CONTINUED).

WEEK BEGINNING MONDAY	BLUEBACK HERRING						YEARLING					
	INDIAN POINT			WEST POINT			CORNWALL			CORNWALL		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	14
22AUG83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	13
05SEP83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.F.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	13
19SEP83	ST. CROP	12	0	0	N	0	0	0	0	0	0	0
	S.E.	12	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	5	13
03OCT83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	15
17OCT83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	13
TOTAL	ST. CROP	12	0	0	N	0	0	0	0	0	0	0
	S.F.	12	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	81

N -- STRATUM NOT SAMPLED

TABLE B-51 (CONTINUED).

WEEK BEGINNING MONDAY	BLUEBACK HERRING						YEARLING					
	POUGHKEEPSIE			HYDE PARK			KINGSTON			KINGSTON		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
05SEPT83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	0	202	202	N	0	0	0	N	0	0	0
	S.E.	0	202	202	N	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	0	202	202	N	0	0	0	N	0	0	0
	S.E.	0	202	202	N	0	0	0	N	0	0	0
	NO. TOWS	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-51 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-51 (CONTINUED).

WEEK BEGINNING MONDAY	BLUEBACK HERRING										YEARLING		
	ALBANY										COMBINED		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	
08AUG83	ST. CROP	N	21	N	21	N	21	N	0	36	0	36	
	S.E.	N	21	N	21	N	21	N	0	26	0	26	
	NO. TOWS	N	8	N	8	N	8	N	66	85	49	200	
22AUG83	ST. CROP	N	0	N	0	N	0	N	0	0	0	0	
	S.E.	N	0	N	0	N	0	N	0	0	0	0	
	NO. TOWS	N	8	N	8	N	8	N	64	87	49	200	
05SEP83	ST. CROP	N	86	N	86	N	86	N	0	119	0	119	
	S.E.	N	64	N	64	N	64	N	0	68	0	68	
	NO. TOWS	N	8	N	8	N	8	N	63	87	49	199	
19SEP83	ST. CROP	N	0	N	0	N	0	N	12	0	0	12	
	S.E.	N	0	N	0	N	0	N	12	0	0	24	
	NO. TOWS	N	8	N	8	N	8	N	64	86	49	203	
03OCT83	ST. CROP	N	0	N	0	N	0	N	0	0	0	0	
	S.E.	N	0	N	0	N	0	N	0	0	0	0	
	NO. TOWS	N	8	N	8	N	8	N	65	85	50	200	
17OCT83	ST. CROP	N	0	N	0	N	0	N	37	306	0	343	
	S.E.	N	0	N	0	N	0	N	37	306	0	343	
	NO. TOWS	N	8	N	8	N	8	N	64	86	50	200	
TOTAL	ST. CROP	N	107	N	107	N	107	N	49	461	202	712	
	S.E.	N	67	N	67	N	67	N	39	314	202	376	
	NO. TOWS	N	48	N	48	N	48	N	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	YK	TZ	CH	IP	WP	REGIONS				KG	SG	CS	AL	COMBINED
						CW	PK	HP	HP					
01AUG83	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	5	24	14	5	5	6	5	5	5	9	10	7	7	100
15AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	6	5	5	5	9	10	7	7	100
29AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	6	5	5	5	9	10	7	7	100
12SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	6	5	5	5	9	10	7	7	100
26SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	7	5	5	5	9	10	7	7	101
10OCT83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	7	5	6	5	4	6	9	10	7	7	102
TOTAL	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	30	144	84	32	30	37	30	29	31	54	60	42	42	603

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

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

N -- STRATUM NOT SAMPLED

TABLE B-53 (CONTINUED).

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

N -- STRATUM NOT SAMPLED



TABLE B-53 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-53 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-53 (CONTINUED).

WEEK BEGINNING MONDAY	BLUEBACK HERRING			ALBANY			OLDER			COMBINED			
	ST. CROP S.E. NO. TOWS	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	N	0	0	N	0	80	134	94	307	N	89	46	107
	N	0	0	N	0	35	89	46	107	N	66	107	194
	N	5	5	N	5	21	66	107	194	N	21	106	194
09MAY83	N	276	276	N	276	0	377	43	420	N	191	30	194
	N	175	175	N	175	0	191	30	194	N	69	104	194
	N	5	5	N	5	21	69	104	194	N	21	106	194
16MAY83	N	0	0	N	0	0	214	21	235	N	108	21	109
	N	0	0	N	0	0	108	21	109	N	67	106	194
	N	5	5	N	5	21	67	106	194	N	21	106	194
23MAY83	N	77	77	N	77	0	247	185	431	N	130	144	194
	N	77	77	N	77	0	130	144	194	N	68	99	186
	N	3	3	N	3	19	68	99	186	N	625	35	660
30MAY83	N	0	0	N	0	0	577	35	578	N	68	99	186
	N	0	0	N	0	0	68	99	186	N	251	0	251
	N	3	3	N	3	19	251	0	251	N	175	0	175
06JUN83	N	0	0	N	0	0	175	0	175	N	68	99	186
	N	0	0	N	0	0	68	99	186	N	0	0	0
	N	3	3	N	3	16	0	0	0	N	0	0	0
13JUN83	N	0	0	N	0	0	63	108	187	N	60	0	70
	N	0	0	N	0	0	60	0	70	N	60	0	61
	N	3	3	N	3	16	63	108	187	N	16	0	16
20JUN83	N	0	0	N	0	0	16	0	16	N	62	109	187
	N	0	0	N	0	0	16	0	16	N	37	0	37
	N	3	3	N	3	16	37	0	37	N	62	109	187
27JUN83	N	0	0	N	0	0	1961	378	2427	N	665	160	685
	N	0	0	N	0	0	378	160	685	N	656	1048	1888
	N	3	3	N	3	16	1961	378	2427	N	656	1048	1888
04JUL83	N	0	0	N	0	0	89	36	125	N	89	36	125
	N	0	0	N	0	0	36	125	125	N	89	36	125
	N	3	3	N	3	16	89	36	125	N	89	36	125
TOTAL	N	353	353	N	353	89	1961	378	2427	N	665	160	685
	N	191	191	N	191	36	665	160	685	N	656	1048	1888
	N	36	36	N	36	184	656	1048	1888	N	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.

WEEK BEGINNING MONDAY	BLUEBACK HERRING												REGION
	YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAM				
	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	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).

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

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-54 (CONTINUED).

WEEK BEGINNING MONDAY	BLUEBACK HERRING			ALBANY			OLDER			COMBINED			
	ST. CROP S.E. NO. TOWS	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83		N	0	N	0	0	0	0	0	0	0	0	0
		N	0	N	0	0	0	0	0	0	0	0	0
		N	8	N	8	8	66	49	8	85	49	200	200
22AUG83		N	0	N	0	0	0	0	0	0	0	0	0
		N	0	N	0	0	0	0	0	0	0	0	0
		N	8	N	8	8	64	49	8	87	49	200	200
05SEP83		N	0	N	0	0	0	0	0	13	0	13	13
		N	0	N	0	0	0	0	0	13	0	13	13
		N	8	N	8	8	63	49	8	87	49	199	199
19SEP83		N	0	N	0	0	0	0	0	0	0	0	0
		N	0	N	0	0	0	0	0	0	0	0	0
		N	8	N	8	8	64	49	8	86	49	199	199
03OCT83		N	0	N	0	0	0	0	0	0	0	0	0
		N	0	N	0	0	0	0	0	0	0	0	0
		N	8	N	8	8	65	50	8	85	50	200	200
17OCT83		N	0	N	0	0	11	0	0	15	0	26	26
		N	0	N	0	0	11	0	0	15	0	19	19
		N	8	N	8	8	64	50	8	86	50	200	200
TOTAL		N	0	N	0	0	11	0	0	29	0	39	39
		N	0	N	0	0	11	0	0	20	0	23	23
		N	48	N	48	48	386	296	48	516	296	1198	1198

N -- STRATUM NOT SAMPLED



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

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

N -- STRATUM NOT SAMPLED

TABLE B-55 (CONTINUED).

WEEK BEGINNING MONDAY	ALEWIFE											
	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	34	0	0	34
	S.E. TOWS	6	0	166	166	N	0	0	17	0	0	17
	NO. TOWS	6	5	3	14	N	4	3	5	6	3	14
22AUG83	ST. CROP	5	18	0	23	N	0	0	59	86	0	145
	S.E. TOWS	5	18	0	19	N	0	0	35	86	0	93
	NO. TOWS	7	5	2	14	N	5	3	5	5	3	13
05SEP83	ST. CROP	0	0	0	0	N	15	0	4	17	0	20
	S.E. TOWS	0	0	0	0	N	15	0	4	17	0	17
	NO. TOWS	6	6	3	15	N	5	3	5	5	3	13
19SEP83	ST. CROP	7	0	0	7	N	26	0	7	17	0	24
	S.E. TOWS	7	0	0	7	N	26	0	5	17	0	18
	NO. TOWS	6	5	3	14	N	5	3	6	5	2	13
03OCT83	ST. CROP	67	0	0	67	N	15	0	35	0	0	35
	S.E. TOWS	60	0	0	60	N	15	0	26	0	0	26
	NO. TOWS	6	5	3	14	N	4	2	5	6	4	15
17OCT83	ST. CROP	5	14	0	19	N	66	0	261	20	0	281
	S.E. TOWS	5	14	0	15	N	66	0	256	20	0	257
	NO. TOWS	6	6	3	15	N	5	3	5	5	3	13
TOTAL	ST. CROP	90	32	166	289	N	122	0	401	140	0	540
	S.E. TOWS	61	23	166	179	N	74	0	260	91	0	276
	NO. TOWS	37	32	17	86	N	28	17	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-55 (CONTINUED).

WEEK BEGINNING MONDAY	ALEWIFE											
	POUGHKEEPSIE				HYDE PARK				KINGSTON			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. GROP	451	477	928	N	398	0	398	N	888	71	959
	S.E.	242	477	535	N	149	0	149	N	45	45	191
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. GROP	309	0	309	N	122	0	122	N	444	33	477
	S.E.	223	0	223	N	55	0	55	N	33	33	224
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. GROP	141	0	141	N	58	87	145	N	565	301	867
	S.E.	107	0	107	N	27	87	91	N	301	301	361
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. GROP	92	0	92	N	77	65	143	N	95	0	95
	S.E.	59	0	59	N	41	65	77	N	0	0	39
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. GROP	187	0	187	N	46	250	296	N	1377	0	1377
	S.E.	83	0	83	N	21	250	251	N	0	0	634
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. GROP	32	0	32	N	207	0	207	N	375	0	375
	S.E.	32	0	32	N	93	0	93	N	0	0	69
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. GROP	1212	477	1690	N	908	402	1310	N	3745	405	4150
	S.E.	362	477	599	N	192	272	333	N	307	307	791
	NO. TOWS	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-55 (CONTINUED).

WEEK BEGINNING MONDAY	ALFWIFE			SAUGERTIES			YOUNG-OF-THE-YEAR			CATSKILL			
	ST. CROP S.E. NO. TOWS	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83		N	763	259	1022	N	657	0	657	N	170	0	657
		N	191	193	272	N	15	0	170	N	15	6	170
		N	12	6	18	N			15	N			21
22AUG83		N	292	119	411	N	1179	140	1319	N	403	140	427
		N	114	119	165	N	15	6	403	N	15	6	21
		N	12	6	18	N			15	N			21
05SEP83		N	241	0	241	N	157	0	157	N	63	0	157
		N	164	0	164	N	15	6	63	N	15	6	63
		N	12	6	18	N			15	N			21
19SEP83		N	0	0	0	N	0	0	0	N	0	0	0
		N	0	0	0	N	0	0	0	N	0	0	0
		N	12	6	18	N	15	6	15	N	15	6	21
03OCT83		N	1054	81	1135	N	87	0	87	N	63	0	87
		N	239	81	252	N	15	6	63	N	15	6	63
		N	12	6	18	N			15	N			21
17OCT83		N	208	46	254	N	88	0	88	N	36	0	88
		N	45	46	64	N	14	6	36	N	14	6	36
		N	13	6	19	N			14	N			20
TOTAL		N	2557	505	3062	N	2168	140	2308	N	448	140	470
		N	368	245	442	N	89	36	448	N	89	36	470
		N	73	36	109	N			89	N			125

N -- STRATUM NOT SAMPLED

TABLE B-55 (CONTINUED).

WEEK BEGINNING MONDAY	ALEWIFE			ALBANY			YOUNG-OF-THE-YEAR			COMBINED			
	ST. CROP	ST. CROP	ST. CROP	ST. CROP	ST. CROP	ST. CROP	ST. CROP	ST. CROP	ST. CROP	ST. CROP	ST. CROP	ST. CROP	
	S.E. NO. TOWS	S.E. NO. TOWS	S.E. NO. TOWS	S.E. NO. TOWS	S.E. NO. TOWS	S.E. NO. TOWS	S.E. NO. TOWS	S.E. NO. TOWS	S.E. NO. TOWS	S.E. NO. TOWS	S.E. NO. TOWS	S.E. NO. TOWS	
08AUG83	N	N	N	1462	1462	1462	N	N	N	202	4629	973	5804
	N	N	N	546	546	546	N	N	N	78	692	543	883
	N	N	N	8	8	8	N	N	N	66	85	49	200
22AUG83	N	N	N	510	510	510	N	N	N	72	3000	293	3365
	N	N	N	260	260	260	N	N	N	37	594	187	624
	N	N	N	8	8	8	N	N	N	64	87	49	200
05SEP83	N	N	N	319	319	319	N	N	N	1438	1514	388	3340
	N	N	N	134	134	134	N	N	N	1434	318	314	1502
	N	N	N	8	8	8	N	N	N	63	87	49	199
19SEP83	N	N	N	0	0	0	N	N	N	58	370	65	494
	N	N	N	0	0	0	N	N	N	22	102	65	123
	N	N	N	8	8	8	N	N	N	64	86	49	199
03OCT83	N	N	N	0	0	0	N	N	N	102	2798	331	3231
	N	N	N	0	0	0	N	N	N	66	687	263	738
	N	N	N	8	8	8	N	N	N	65	85	50	200
17OCT83	N	N	N	0	0	0	N	N	N	322	1119	46	1486
	N	N	N	0	0	0	N	N	N	257	165	46	309
	N	N	N	8	8	8	N	N	N	64	86	50	200
TOTAL	N	N	N	2291	2291	2291	N	N	N	2194	13430	2096	17720
	N	N	N	619	619	619	N	N	N	1461	1201	710	2020
	N	N	N	48	48	48	N	N	N	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.

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

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

N -- STRATUM NOT SAMPLED

TABLE B-57 (CONTINUED).

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

N -- STRATUM NOT SAMPLED



TABLE B-57 (CONTINUED).

WEEK BEGINNING MONDAY	ALEWIFE										YEARLING									
	POUGHKEEPSIE					HYDE PARK					KINGSTON					KINGSTON				
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	9	10	19	N	10	11	21	N	11	13	21	N	6	7	13	N	6	7	13
09MAY83	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	10	10	20	N	10	10	20	N	10	13	20	N	6	7	13	N	6	7	13
16MAY83	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	10	10	20	N	8	11	19	N	8	11	19	N	6	7	13	N	6	7	13
23MAY83	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	16	22	38	N	7	12	19	N	7	12	19	N	4	6	10	N	4	6	10
30MAY83	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	16	22	38	N	7	12	19	N	7	12	19	N	5	5	10	N	5	5	10
06JUN83	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	16	22	38	N	7	12	19	N	7	12	19	N	4	6	10	N	4	6	10
13JUN83	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	7	15	22	N	5	9	14	N	5	9	14	N	5	5	10	N	5	5	10
20JUN83	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	8	14	22	N	5	9	14	N	5	9	14	N	5	6	11	N	5	6	11
27JUN83	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	7	15	22	N	5	9	14	N	5	9	14	N	4	6	10	N	4	6	10
04JUL83	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	7	15	22	N	5	9	14	N	5	9	14	N	4	6	10	N	4	6	10
TOTAL	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0
	N	106	155	261	N	69	104	173	N	69	104	173	N	49	61	110	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-57 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-57 (CONTINUED).

WEEK BEGINNING MONDAY	ALEWIFE			ALBANY			YEARLING		
	ST. CROP S.E. NO. TOWS	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	N	0	N	N	0	0	0	0	0
	N	0	N	N	0	0	0	0	0
	N	5	N	N	5	21	66	107	194
09MAY83	N	0	N	N	0	0	0	0	0
	N	0	N	N	0	0	0	0	0
	N	5	N	N	5	21	69	104	194
16MAY83	N	0	N	N	0	94	0	107	200
	N	0	N	N	0	75	0	57	94
	N	5	N	N	5	21	67	106	194
23MAY83	N	0	N	N	0	0	0	81	81
	N	0	N	N	0	0	0	81	81
	N	3	N	N	3	19	68	99	186
30MAY83	N	0	N	N	0	0	0	0	0
	N	0	N	N	0	0	0	0	0
	N	3	N	N	3	19	68	99	186
06JUN83	N	0	N	N	0	196	18	0	214
	N	0	N	N	0	130	18	0	132
	N	3	N	N	3	19	68	99	186
13JUN83	N	0	N	N	0	0	0	0	0
	N	0	N	N	0	0	0	0	0
	N	3	N	N	3	16	63	108	187
20JUN83	N	0	N	N	0	0	204	73	277
	N	0	N	N	0	0	165	73	181
	N	3	N	N	3	16	63	108	187
27JUN83	N	0	N	N	0	0	20	0	20
	N	0	N	N	0	0	20	0	20
	N	3	N	N	3	16	62	109	187
04JUL83	N	0	N	N	0	0	0	0	0
	N	0	N	N	0	0	0	0	0
	N	3	N	N	3	16	62	109	187
TOTAL	N	0	N	N	0	289	242	260	792
	N	0	N	N	0	150	168	123	256
	N	36	N	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	YEARLING															
	ALEWIFE				YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
	SHOAL	BOTTOM	CHANNL	REGION	SHOAL	BOTTOM	CHANNL	REGION	SHOAL	BOTTOM	CHANNL	REGION	SHOAL	BOTTOM	CHANNL	REGION
08AUG83	ST. CROP S.E. NO. TOWS	0 0 7	N N N	0 0 12	0 0 32	0 0 7	0 0 7	0 0 46	0 0 16	0 0 8	0 0 3	0 0 27	0 0 0	0 0 0	0 0 0	0 0 0
22AUG83	ST. CROP S.E. NO. TOWS	0 0 7	N N N	0 0 12	0 0 29	0 0 9	0 0 8	0 0 46	0 0 16	0 0 8	0 0 3	0 0 27	0 0 0	0 0 0	0 0 0	0 0 0
05SEP83	ST. CROP S.E. NO. TOWS	10 10 7	N N N	10 10 12	0 0 29	0 0 8	0 0 45	0 0 16	0 0 8	0 0 2	0 0 26	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
19SEP83	ST. CROP S.E. NO. TOWS	0 0 6	N N N	0 0 11	0 0 31	0 0 8	0 0 47	0 0 15	0 0 8	0 0 3	0 0 26	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
03OCT83	ST. CROP S.E. NO. TOWS	0 0 6	N N N	0 0 11	0 0 31	0 0 7	0 0 46	0 0 17	0 0 8	0 0 3	0 0 28	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
17OCT83	ST. CROP S.E. NO. TOWS	18 18 7	N N N	18 18 12	0 0 30	31 31 8	0 0 46	0 0 16	0 0 7	0 0 3	0 0 26	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
TOTAL	ST. CROP S.E. NO. TOWS	28 21 40	N N N	28 21 70	0 0 182	31 31 47	0 0 276	0 0 96	0 0 47	0 0 17	0 0 160	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0

N -- STRATUM NOT SAMPLED

TABLE B-58 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-58 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-58 (CONTINUED).

WEEK BEGINNING MONDAY	ALFWIFF			ALBANY			YEARLING			COMBINED			
	ST. CROP S.E. NO. TOWS	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
		N	0	N	0	0	N	0	N	0	0	N	0
08AUG83		N	0	N	0	0	N	0	N	0	185	30	214
		N	0	N	0	0	N	0	N	0	58	30	65
		N	8	N	8	8	N	8	N	8	85	49	200
22AUG83		N	0	N	0	0	N	0	N	0	0	0	0
		N	0	N	0	0	N	0	N	0	0	0	0
		N	8	N	8	8	N	8	N	8	87	49	200
05SEP83		N	22	N	22	22	N	22	N	22	113	0	123
		N	22	N	22	22	N	22	N	22	66	0	67
		N	8	N	8	8	N	8	N	8	87	49	199
19SEP83		N	0	N	0	0	N	0	N	0	15	0	15
		N	0	N	0	0	N	0	N	0	15	0	15
		N	8	N	8	8	N	8	N	8	86	49	199
03OCT83		N	0	N	0	0	N	0	N	0	31	0	36
		N	0	N	0	0	N	0	N	0	20	0	21
		N	8	N	8	8	N	8	N	8	85	50	200
17OCT83		N	0	N	0	0	N	0	N	0	45	0	63
		N	0	N	0	0	N	0	N	0	34	0	38
		N	8	N	8	8	N	8	N	8	86	50	200
TOTAL		N	22	N	22	22	N	22	N	22	389	30	452
		N	22	N	22	22	N	22	N	22	98	30	104
		N	48	N	48	48	N	48	N	48	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.

WEEK BEGINNING MONDAY	YK	TZ	ALEWIFE										AL	COMBINED		
			CH	IP	WP	REGIONS			KG	SG	CS					
01AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	5	5	5	5	5	9	10	7	100	7	100
15AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	5	5	5	5	5	9	10	7	100	7	100
29AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	5	5	5	5	5	9	10	7	100	7	100
12SEP83	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	5	24	14	5	5	5	5	5	5	5	9	10	7	100	7	100
26SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	5	5	5	5	5	9	10	7	101	7	101
10OCT83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	7	5	5	5	4	6	6	9	10	7	102	7	102
TOTAL	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	30	144	84	32	30	30	37	30	31	31	54	60	42	603	42	603

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

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

N -- STRATUM NOT SAMPLED

TABLE B-60 (CONTINUED).

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

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

N -- STRATUM NOT SAMPLED

TABLE B-60 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-60 (CONTINUED).

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

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

N -- STRATUM NOT SAMPLED

TABLE B-61 (CONTINUED).

WEEK BEGINNING MONDAY	ALEWIFE						OLDER						CORNWALL											
	INDIAN POINT			WEST POINT			INDIAN POINT			WEST POINT			INDIAN POINT			WEST POINT			CORNWALL					
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
06AUG83	ST. CROP S.E. NO. TOWS	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 3	0 0 7	0 0 5	0 0 6	0 0 3	0 0 14	N N N	0 0 4	0 0 7	0 0 5	0 0 6	0 0 3	0 0 14	N N N	0 0 5	0 0 6	0 0 3	0 0 14
22AUG83	ST. CROP S.E. NO. TOWS	0 0 7	0 0 5	0 0 2	0 0 14	N N N	0 0 3	0 0 8	0 0 5	0 0 3	0 0 8	0 0 13	N N N	0 0 5	0 0 8	0 0 5	0 0 3	0 0 5	0 0 13	N N N	0 0 5	0 0 3	0 0 13	
05SEP83	ST. CROP S.F. NO. TOWS	0 0 6	0 0 6	0 0 3	0 0 15	N N N	0 0 5	0 0 8	0 0 5	0 0 3	0 0 8	0 0 13	N N N	0 0 5	0 0 8	0 0 5	0 0 3	0 0 5	0 0 13	N N N	0 0 5	0 0 3	0 0 13	
19SEP83	ST. CROP S.E. NO. TOWS	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 5	0 0 8	0 0 5	0 0 3	0 0 8	0 0 13	N N N	0 0 5	0 0 8	0 0 5	0 0 3	0 0 5	0 0 13	N N N	0 0 5	0 0 3	0 0 13	
03OCT83	ST. CROP S.E. NO. TOWS	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 2	0 0 6	0 0 4	0 0 2	0 0 6	0 0 15	N N N	0 0 4	0 0 6	0 0 5	0 0 4	0 0 6	0 0 15	N N N	0 0 6	0 0 4	0 0 15	
17OCT83	ST. CROP S.E. NO. TOWS	0 0 6	0 0 6	0 0 3	0 0 15	N N N	0 0 5	0 0 8	0 0 5	0 0 3	0 0 8	0 0 13	N N N	0 0 5	0 0 8	0 0 5	0 0 3	0 0 5	0 0 13	N N N	0 0 5	0 0 3	0 0 13	
TOTAL	ST. CROP S.E. NO. TOWS	0 0 37	0 0 32	0 0 17	0 0 86	N N N	0 0 28	0 0 45	0 0 31	0 0 17	0 0 45	0 0 81	N N N	0 0 32	0 0 81	0 0 31	0 0 18	0 0 32	0 0 81	N N N	0 0 32	0 0 18	0 0 81	

N -- STRATUM NOT SAMPLED



TABLE B-61 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-61 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-61 (CONTINUED).

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

WEEK BEGINNING MONDAY	ALEWIFE										OLDER				
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AI	COMBINED		
01AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
15AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
29AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
12SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	24	14	5	5	6	5	5	5	9	10	7	100		
26SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	24	14	5	5	7	5	5	5	9	10	7	101		
10OCT83	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5	24	14	7	5	6	5	4	6	9	10	7	102		
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0		
	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.

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

N -- STRATUM NOT SAMPLED

TABLE B-63 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY						YOUNG-OF-THE-YEAR					
	INDIAN POINT			WEST POINT			CORNWALL			CORNWALL		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	1166	3247	72670	77083	N	7409	12690	2325	11282	1404	15010
	S.E. TOWS	473	1352	42051	42076	N	3603	4165	651	2667	692	2832
		6	5	3	14	N	4	7	5	6	3	14
22AUG83	ST. CROP	523	3064	7860	11447	N	1936	5054	2237	4480	2200	8917
	S.E. TOWS	176	1504	7404	7557	N	1936	2144	791	1961	981	2331
		7	5	2	14	N	5	8	5	5	3	13
05SEP83	ST. CROP	881	1527	6832	9240	N	24667	29159	895	3287	4842	9024
	S.E. TOWS	337	679	3839	3913	N	1068	18262	416	3121	3078	4404
		6	6	3	15	N	5	8	5	5	3	13
19SEP83	ST. CROP	3709	6571	446	10726	N	1565	3807	672	5104	6911	12687
	S.E. TOWS	1799	4787	446	5134	N	1883	2448	142	2228	6911	7262
		6	5	3	14	N	5	8	6	5	2	13
03OCT83	ST. CROP	173	2924	2842	5939	N	3593	4605	2465	9232	9614	21311
	S.E. TOWS	71	1044	1788	2072	N	837	1170	308	1821	5064	5390
		6	5	3	14	N	4	6	5	6	4	15
17OCT83	ST. CROP	219	16682	2057	18959	N	3604	3604	20155	10563	4449	35167
	S.E. TOWS	58	10324	2057	10527	N	1820	1820	14399	2595	1710	14731
		6	6	3	15	N	5	8	5	5	3	13
TOTAL	ST. CROP	6671	34015	92708	133394	N	39171	58919	28749	43949	29418	102116
	S.E. TOWS	1901	11625	42959	44545	N	3725	19164	14446	5976	9340	18211
		37	32	17	86	N	28	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-63 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY			YOUNG-OF-THE-YEAR			KINGSTON					
	POUGHKEEPSIE			HYDE PARK			KINGSTON					
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	787	159	946	N	157	195	352	N	1423	8061	9483
	S.E. TOWS	749	159	765	N	29	123	126	N	5044	5044	5061
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	4643	0	4643	N	0	0	0	N	43	0	43
	S.E. TOWS	2000	0	2000	N	0	0	0	N	0	0	43
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	20719	19726	40445	N	0	0	0	N	1071	2455	3526
	S.E. TOWS	5644	10809	12194	N	0	0	0	N	2455	2455	2482
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	22458	45256	67714	N	1030	2918	3948	N	203	918	1121
	S.E. TOWS	10764	25793	27949	N	295	2053	2074	N	577	577	580
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. CROP	19308	22964	42272	N	735	2358	3093	N	13226	2121	15347
	S.E. TOWS	10493	10283	14692	N	162	367	401	N	595	595	12821
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	10340	3846	14186	N	735	867	1602	N	277	232	508
	S.E. TOWS	4611	3846	6004	N	735	502	890	N	193	193	206
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	78256	91950	170206	N	2656	6338	8995	N	16243	13787	30029
	S.E. TOWS	16842	30044	34443	N	809	2148	2296	N	5674	5674	14019
	NO. TOWS	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-63 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY			YOUNG-OF-THE-YEAR			CAISKILL			REGION	
	SAUGERTIES			SHOAL			BOTTOM				CHANNEL
	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.F.	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		
03OCT83	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		
17OCT83	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).

WEEK BEGINNING MONDAY	BAY ANCHOVY			YOUNG-OF-THE-YEAR				
	ALBANY			COMBINED				
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	41	N	87065	33224	144619	264909
	S.E. TOWS	N	27	N	14752	4718	49951	52297
		N	8	N	66	85	49	200
22AUG83	ST. CROP	N	0	N	89685	156343	90480	336507
	S.E. TOWS	N	0	N	8817	24245	20660	33051
		N	8	N	64	87	49	200
05SEP83	ST. CROP	N	0	N	200085	190500	404641	795227
	S.E. TOWS	N	0	N	18426	24387	106852	111138
		N	8	N	63	87	49	199
19SEP83	ST. CROP	N	44	N	160245	102624	88597	351466
	S.E. TOWS	N	44	N	33392	20332	27312	47691
		N	8	N	64	86	49	199
03OCT83	ST. CROP	N	0	N	115415	99803	139338	354557
	S.E. TOWS	N	0	N	13235	23219	20957	33963
		N	8	N	65	85	50	200
17OCT83	ST. CROP	N	0	N	65189	65416	41670	172275
	S.E. TOWS	N	0	N	15753	13016	11551	23474
		N	8	N	64	86	50	200
TOTAL	ST. CROP	N	84	N	117686	647911	909345	2274941
	S.E. TOWS	N	51	N	46618	48237	125132	141979
		N	48	N	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.

WEEK BEGINNING MONDAY	YOUNG-OF-THE-YEAR												
	BAY ANCHOVY			REGIONS								AI	COMBINED
YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS			
01AUG83	93	32	0	0	0	0	0	0	0	0	0	0	126
S.E. NO. HAULS	50	18	0	0	0	0	0	0	0	0	0	0	53
	5	24	14	5	5	5	5	5	9	10	7	7	100
15AUG83	0	8	2	0	0	0	0	0	0	0	0	0	9
S.E. NO. HAULS	0	8	2	0	0	0	0	0	0	0	0	0	8
	5	24	14	5	5	5	5	5	9	10	7	7	100
29AUG83	2	1568	0	0	6	0	0	0	0	0	0	0	1575
S.E. NO. HAULS	2	1437	0	0	6	0	0	0	0	0	0	0	1437
	5	24	14	5	5	5	5	5	9	10	7	7	100
12SEP83	0	133	0	0	0	0	0	0	0	0	0	0	133
S.E. NO. HAULS	0	79	0	0	0	0	0	0	0	0	0	0	79
	5	24	14	5	5	5	5	5	9	10	7	7	100
26SEP83	0	13	4	0	0	0	0	0	0	0	0	0	17
S.E. NO. HAULS	0	7	4	0	0	0	0	0	0	0	0	0	8
	5	24	14	5	7	5	5	5	9	10	7	7	101
10OCT83	44	42	236	0	0	0	0	0	0	0	0	0	327
S.E. NO. HAULS	16	36	236	0	0	0	0	0	0	0	0	0	240
	5	24	14	7	6	5	4	6	9	10	7	7	102
TOTAL	139	1795	242	0	6	0	0	0	0	0	0	0	2186
S.E. NO. HAULS	53	1440	236	0	6	0	0	0	0	0	0	0	1460
	30	144	84	32	30	37	29	31	54	60	42	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 AUG 1 - AUG 7  
 YOUNG-OF-THE-YEAR

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

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

TABLE B-65 (CONTINUED).  
 BAY ANCHOVY YOUNG-OF-THE-YEAR  
 AUG 8 - AUG 14

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

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

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

TABLE B-65 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 AUG 15 - AUG 21

BAY ANCHOVY

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

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

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

BAY ANCHOVY  
TABLE B-65 (CONTINUED).  
YOUNG-OF-THE-YEAR  
AUG 22 - AUG 28

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

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

BAY ANCHOVY  
 TABLE B-65 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 AUG 29 - SEP 4

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

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

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

BAY ANCHOVY  
 TABLE B-65 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 5 - SEP 11

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

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



BAY ANCHOVY  
 TABLE B-65 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 12 - SEP 18

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

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

BAY ANCHOVY  
 TABLE B-65 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 19 - SEP 25

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

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

VAR(STDR) #  
 VAR(STDE) #  
 # 1

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

BAY ANCHOVY  
 TABLE B-65 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 SEP 26 - OCT 2

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

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

BAY ANCHOVY  
 TABLE B-65 (CONTINUED).  
 YOUNG-OF-THE-YEAR  
 OCT 3 - OCT 9

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

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

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

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

BAY ANCHOVY  
 TABLE B-65 (CONTINUED).  
 OCT 17 - OCT 23  
 YOUNG-OF-THE-YEAR

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

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

WEEK BEGINNING MONDAY	BAY ANCHOVY			YEARLING			YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAW			REGION	
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL		REGION
	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS		ST. CROP S.E. NO. TOWS
02MAY83	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09MAY83	76	38	3	308	308	3	384	310	6	0	0	0	0	0	0	0	15
16MAY83	457	200	3	10803	6122	3	11259	6125	6	297	297	1832	1832	62	62	2191	0
23MAY83	1191	287	3	15122	7146	3	16313	7152	6	1719	1447	113	113	58	58	1890	0
30MAY83	3234	1113	3	26930	20708	3	30164	20738	6	478	478	3363	1942	194	194	4035	0
06JUN83	812	406	3	11592	11592	3	12404	11599	6	1983	1807	733	733	1148	1019	3864	82
13JUN83	28778	0	1	21835	12653	8	50612	12653	9	4056	2038	4666	4301	296	169	9019	0
20JUN83	5615	0	1	41041	9668	8	46656	9668	9	5227	3982	23222	7504	2254	352	30703	1953
27JUN83	18264	0	1	30250	20480	8	48515	20480	9	7470	4749	1236	418	2561	1117	11267	4956
04JUL83	278	0	1	7835	2708	8	8112	2708	9	80917	51917	5132	3072	9339	3029	95389	13190
TOTAL	58704	1236	22	165715	36499	50	224419	36519	72	102148	52379	40297	9596	15913	3415	158358	20254
										30	42	45	117	46	52	117	146

N -- STRATUM NOT SAMPLED

TABLE B-66 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY												YEARLING			
	INDIAN POINT				WEST POINT				CORNWALL							
	SHOAL	BOTTOM	CHANNEL	REGION	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	0	0	0
	S.E.	0	0	0	0	N	0	0	0	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	0	0	0
	S.E.	0	0	22	22	N	0	0	0	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	0	0	0
	S.E.	0	0	0	0	N	0	0	0	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	0	0	0
	S.E.	0	0	0	0	N	0	0	0	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	0	0	0
	S.E.	0	0	0	0	N	0	0	0	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	0	0	0
	S.E.	0	0	0	0	N	0	0	0	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	0	0	0
	S.E.	0	0	0	0	N	0	0	0	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	0	0	0
	S.E.	0	47	188	194	N	0	0	0	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	0	0	0
	S.E.	79	79	126	169	N	0	0	0	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	0	26	26
	S.E.	15	152	493	516	N	110	50	121	0	14	0	14	0	14	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	0	26	26
	S.E.	80	177	543	577	N	110	50	121	0	14	0	14	0	14	14
	NO. TOWS	42	61	181	284	N	67	259	326	42	110	85	237			

N -- STRATUM NOT SAMPLED



TABLE B-66 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-66 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED

TABLE B-66 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	BAY ANCHOVY						YEARLING					
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAY			REGION		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	26254	30141	20567	6428	16006	43001	4158	10200	6214	20572
	S.E. TOWS	N	6188	6267	3522	1737	4280	5808	868	3696	1364	4034
22AUG83	ST. CROP	N	0	0	3987	486	319	4791	713	607	58	1378
	S.E. TOWS	N	0	0	1206	114	319	1252	156	122	58	206
05SEP83	ST. CROP	N	335	1398	8562	1132	3628	13322	705	300	593	1597
	S.E. TOWS	N	206	379	1465	160	1160	2074	158	82	593	619
19SEP83	ST. CROP	N	0	159	242	160	0	402	584	65	0	649
	S.E. TOWS	N	5	105	119	69	0	138	213	21	0	214
03OCT83	ST. CROP	N	274	859	731	248	841	1820	304	114	0	418
	S.E. TOWS	N	185	234	106	72	280	308	94	38	0	102
17OCT83	ST. CROP	N	515	798	224	207	39	470	83	129	0	212
	S.E. TOWS	N	316	335	62	115	39	136	61	38	0	72
TOTAL	ST. CROP	N	27378	33355	34313	8661	20832	63806	6547	11414	6865	24826
	S.E. TOWS	N	6202	6293	4004	1754	4542	6304	928	3700	1488	4094
		N	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-67 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY											
	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	1933	2298	350	393	0	743
	S.F.	440	1160	5995	6121	N	1933	1937	168	107	0	199
	NO. TOWS	6	5	3	14	N	3	7	5	6	3	14
22AUG83	ST. CROP	53	52	0	106	N	0	0	1334	0	0	1334
	S.F.	18	36	0	40	N	0	0	563	0	0	563
	NO. TOWS	7	5	2	14	N	3	8	5	5	3	13
05SEP83	ST. CROP	123	263	0	386	N	4858	5209	547	695	299	1540
	S.F.	36	91	0	98	N	1498	1501	154	235	155	321
	NO. TOWS	6	6	3	15	N	3	8	5	5	3	13
19SEP83	ST. CROP	46	0	0	46	N	361	688	116	375	0	491
	S.F.	15	0	0	15	N	361	389	56	138	0	149
	NO. TOWS	6	5	3	14	N	3	8	6	5	2	13
03OCT83	ST. CROP	39	112	0	151	N	394	502	89	563	55	707
	S.F.	33	79	0	86	N	394	395	24	48	55	77
	NO. TOWS	6	5	3	14	N	2	6	5	6	4	15
17OCT83	ST. CROP	29	42	0	71	N	0	86	162	231	0	394
	S.F.	18	29	0	34	N	0	39	80	82	0	115
	NO. TOWS	6	6	3	15	N	3	8	5	5	3	13
TOTAL	ST. CROP	1014	1903	8797	11713	N	7546	8783	2598	2258	353	5209
	S.F.	444	1167	5995	6123	N	2503	2512	616	308	164	708
	NO. TOWS	37	32	17	86	N	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-67 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY											
	POUGHKEEPSIE				HYDE PARK				KINGSTON			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	1345	1260	2605	N	29	0	29	N	23	55	78
	S.E.	1177	1049	1576	N	19	0	19	N	55	55	59
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	2325	0	2325	N	0	0	0	N	0	0	0
	S.E.	1460	0	1460	N	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	1398	2864	4262	N	0	0	0	N	75	43	118
	S.E.	426	2864	2896	N	0	0	0	N	43	43	61
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	963	202	1165	N	39	0	39	N	0	0	0
	S.E.	423	202	468	N	27	0	27	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. CROP	1657	168	1825	N	13	74	87	N	0	0	0
	S.E.	747	168	765	N	13	74	75	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	759	0	759	N	0	0	0	N	0	0	0
	S.E.	389	0	389	N	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	8446	4495	12940	N	81	74	155	N	98	98	196
	S.E.	2142	3061	3736	N	36	74	82	N	70	70	85
	NO. TOWS	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-67 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY			SAUGERTIES			YEARLING			CAISKILL			
	ST. CROP S.E. NO. TOWS	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
		N	0	0	0	0	N	0	0	0	N	0	0
08AUG83		N	0	0	0	N	0	0	0	N	0	0	0
		N	0	0	0	N	0	0	0	N	0	0	0
		N	12	6	18	N	15	6	21	N	15	6	21
22AUG83		N	0	0	0	N	0	0	0	N	0	0	0
		N	0	0	0	N	0	0	0	N	0	0	0
		N	12	6	18	N	15	6	21	N	15	6	21
05SEP83		N	0	0	0	N	0	0	0	N	0	0	0
		N	0	0	0	N	0	0	0	N	0	0	0
		N	12	6	18	N	15	6	21	N	15	6	21
19SEP83		N	0	0	0	N	0	0	0	N	0	0	0
		N	0	0	0	N	0	0	0	N	0	0	0
		N	12	6	18	N	15	6	21	N	15	6	21
03OCT83		N	0	0	0	N	0	0	0	N	0	0	0
		N	0	0	0	N	0	0	0	N	0	0	0
		N	12	6	18	N	15	6	21	N	15	6	21
17OCT83		N	0	0	0	N	0	0	0	N	0	0	0
		N	0	0	0	N	0	0	0	N	0	0	0
		N	13	6	19	N	14	6	20	N	14	6	20
TOTAL		N	0	0	0	N	13	35	48	N	13	35	48
		N	0	0	0	N	13	35	37	N	13	35	37
		N	73	36	109	N	89	36	125	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-67 (CONTINUED).

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

WEEK BEGINNING MONDAY	BAY ANCHOVY													YEARLING			
	BAY ANCHOVY													YEARLING			
	YK	TZ	CH	IP	WP	CM	PK	HP	KG	SG	CS	AL	COMBINED				
01AUG83	84	210	0	0	0	0	0	0	0	0	0	0	294				
	73	65	0	0	0	0	0	0	0	0	0	0	98				
	5	24	14	5	5	6	5	5	9	10	7	7	100				
15AUG83	0	9	0	0	0	0	0	0	0	0	0	0	9				
	0	5	0	0	0	0	0	0	0	0	0	0	5				
	5	24	14	5	5	6	5	5	9	10	7	7	100				
29AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0	0	0	0				
	5	24	14	5	5	6	5	5	9	10	7	7	100				
12SEP83	2	15	0	0	0	0	0	0	0	0	0	0	17				
	2	9	0	0	0	0	0	0	0	0	0	0	9				
	5	24	14	5	5	6	5	5	9	10	7	7	100				
26SEP83	3	0	0	0	0	0	0	0	0	0	0	0	3				
	3	0	0	0	0	0	0	0	0	0	0	0	3				
	5	24	14	5	5	7	5	5	9	10	7	7	101				
10OCT83	15	0	0	0	0	0	0	0	0	0	0	0	15				
	15	0	0	0	0	0	0	0	0	0	0	0	15				
	5	24	14	7	5	6	5	6	9	10	7	7	102				
TOTAL	104	235	0	0	0	0	0	0	0	0	0	0	339				
	75	65	0	0	0	0	0	0	0	0	0	0	99				
	30	144	84	32	30	37	30	31	54	60	42	42	603				

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

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

N -- STRATUM NOT SAMPLED

TABLE B-69 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-69 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-69 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-69 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	BAY ANCHOVY						OLDER					
	YONKERS			TAPPAN ZEE			CROTON-HAVERSTRAH			REGION		
	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
	S.F.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	7	46	16	8	27
22AUG83	ST. CROP	0	N	0	0	76	0	0	76	0	0	0
	S.F.	0	N	0	0	76	0	0	76	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	16	8	27
05SEP83	ST. CROP	0	N	98	98	0	0	0	0	0	0	0
	S.F.	0	N	98	98	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	16	8	26
19SEP83	ST. CROP	0	N	0	0	10	0	0	10	0	0	0
	S.F.	0	N	0	0	10	0	0	10	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	15	8	26
03OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0
	S.F.	0	N	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	8	46	17	8	28
17OCT83	ST. CROP	0	N	93	93	40	0	0	40	0	0	20
	S.F.	0	N	93	93	40	0	0	40	0	0	20
	NO. TOWS	7	N	5	12	30	8	8	46	16	7	26
TOTAL	ST. CROP	0	N	192	192	126	0	0	126	20	0	20
	S.F.	0	N	136	136	86	0	0	86	20	0	20
	NO. TOWS	40	N	30	70	182	47	47	276	96	47	160

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY						OLDFR					
	INDIAN POINT			WEST POINT			SHOAL			CORNWALL		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	14
22AUG83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	14	N	5	3	8	5	5	13
05SEP83	ST. CROP	0	0	0	N	0	0	0	0	0	0	100
	S.E.	0	0	0	N	0	0	0	0	0	0	100
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	13
19SEP83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	5	5	13
03OCT83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	6	15
17OCT83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	15	N	5	3	8	5	5	13
TOTAL	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	37	32	17	86	N	28	17	45	31	32	81

N -- STRATUM NOT SAMPLED



TABLE B-70 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-70 (CONTINUED).

WEEK BEGINNING MONDAY	BAY ANCHOVY			ALBANY			OJLDER			COMBINED			
	ST. CROP S.E. NO. TOWS	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
		N	0	N	0	0	0	0	0	0	0	0	0
08AUG83		N	0	N	0	0	0	0	0	0	0	0	0
		N	0	N	0	0	0	0	0	0	0	0	0
		N	8	N	8	8	85	49	200	66	85	49	200
22AUG83		N	0	N	0	0	0	0	76	76	0	0	76
		N	0	N	0	0	0	0	76	76	0	0	76
		N	8	N	8	8	87	49	200	64	87	49	200
05SEP83		N	0	N	0	0	100	98	198	0	100	98	198
		N	0	N	0	0	100	98	140	0	100	98	140
		N	8	N	8	8	87	49	199	63	87	49	199
19SEP83		N	0	N	0	0	0	0	164	10	0	0	164
		N	0	N	0	0	0	0	154	10	0	0	154
		N	8	N	8	8	86	49	199	64	86	49	199
03OCT83		N	0	N	0	0	0	0	0	0	0	0	0
		N	0	N	0	0	0	0	0	0	0	0	0
		N	8	N	8	8	85	50	200	65	85	50	200
17OCT83		N	0	N	0	0	0	93	153	60	0	93	153
		N	0	N	0	0	0	93	103	45	0	93	103
		N	8	N	8	8	86	50	200	64	86	50	200
TOTAL		N	0	N	0	0	100	346	592	146	100	346	592
		N	0	N	0	0	100	205	245	89	100	205	245
		N	48	N	48	48	516	296	1198	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.

WEEK BEGINNING MONDAY	BAY ANCHOVY										OLDER			
	YK	TZ	CH	IP	WP	REGIONS CW	PK	HP	KG	SG	CS	AL	COMBINED	
01AUG83	0	8	0	0	0	0	0	0	0	0	0	0	8	
S.E. NO. HAULS	0	6	0	0	0	0	0	0	0	0	0	0	6	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
15AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0	
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
29AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0	
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
12SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0	
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	24	14	5	5	6	5	5	5	9	10	7	100	
26SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0	
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	24	14	5	5	7	5	5	5	9	10	7	101	
10OCT83	0	0	0	0	0	0	0	0	0	0	0	0	0	
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	24	14	7	5	6	5	4	6	9	10	7	102	
TOTAL	0	8	0	0	0	0	0	0	0	0	0	0	8	
S.E. NO. HAULS	0	6	0	0	0	0	0	0	0	0	0	0	6	
	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	WEAK FISH											
	YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	1415	1808	1377	62	387	1826	255	284	0	539
	S.E.	109	1269	1274	362	62	290	468	90	161	0	185
	NO. TOWS	7	5	12	32	7	7	46	16	8	3	27
22AUG83	ST. CROP	95	0	95	2571	251	0	2821	78	187	0	265
	S.E.	95	0	95	558	94	0	565	35	50	0	61
	NO. TOWS	7	5	12	29	9	8	46	16	8	3	27
05SEP83	ST. CROP	167	175	343	233	135	146	514	305	59	148	512
	S.E.	69	109	129	55	56	103	130	117	32	148	192
	NO. TOWS	7	5	12	29	8	8	45	16	8	2	26
19SEP83	ST. CROP	79	0	79	64	21	0	85	21	77	0	97
	S.E.	66	0	66	39	21	0	44	14	35	0	38
	NO. TOWS	6	5	11	31	8	8	47	15	8	3	26
03OCT83	ST. CROP	233	0	233	52	364	45	461	35	31	0	66
	S.E.	64	0	64	22	258	45	263	16	21	0	26
	NO. TOWS	6	5	11	31	7	8	46	17	8	3	28
17OCT83	ST. CROP	167	762	929	100	154	0	254	0	12	0	12
	S.E.	82	762	767	46	88	0	99	0	12	0	12
	NO. TOWS	7	5	12	30	8	8	46	16	7	3	26
TOTAL	ST. CROP	1135	2352	3487	4397	986	579	5961	694	649	148	1491
	S.E.	203	1484	1498	670	301	311	798	154	177	148	278
	NO. TOWS	40	30	70	182	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED

TABLE B-72 (CONTINUED).

WEEK BEGINNING MONDAY	WEAK FISH												
	INDIAN POINT				WEST POINT				CORNWALL				
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	
08AUG83	ST. GROP	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. GROP	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. GROP	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. GROP	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
03OCT83	ST. GROP	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. GROP	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. GROP	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).

WEAK FISH

WEEK  
BEGINNING  
MONDAY

	POUGHKEEPSIE			HYDE PARK			KINGSTON					
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	N	0	0	0	N	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	N	0	0	0	N	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	N	0	0	0	N	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	N	68	0	68	N	0	0	0	N	0	0	0
S.F.	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
03OCT83	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
17OCT83	N	0	0	0	N	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	N	172	0	172	N	0	0	0	N	0	0	0
S.F.	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-OI - IIII - YEAR					
				SAUGERTIES			CATSKILL		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	
08AUG83	ST. GROU	0	34	34	N	0	0	0	
	S.E.	0	34	34	N	0	0	0	
	NO. TOWS	12	6	18	N	15	6	21	
22AUG83	ST. GROU	0	0	0	N	0	0	0	
	S.E.	0	0	0	N	0	0	0	
	NO. TOWS	12	6	18	N	15	6	21	
05SEP83	ST. GROU	0	0	0	N	0	0	0	
	S.E.	0	0	0	N	0	0	0	
	NO. TOWS	12	6	18	N	15	6	21	
19SEP83	ST. GROU	0	0	0	N	0	0	0	
	S.E.	0	0	0	N	0	0	0	
	NO. TOWS	12	6	18	N	15	6	21	
03OCT83	ST. GROU	0	0	0	N	0	0	0	
	S.E.	0	0	0	N	0	0	0	
	NO. TOWS	12	6	18	N	15	6	21	
17OCT83	ST. GROU	0	0	0	N	0	0	0	
	S.E.	0	0	0	N	0	0	0	
	NO. TOWS	13	6	19	N	14	6	20	
TOTAL	ST. GROU	0	34	34	N	0	0	0	
	S.E.	0	34	34	N	0	0	0	
	NO. TOWS	73	36	109	N	89	36	125	

N -- STRATUM NOT SAMPLED



TABLE B-72 (CONTINUED).

WEEK BEGINNING MONDAY	WEAK FISH			YOUNG-OF-THE-YEAR					
				ALBANY			COMBINED		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	
08AUG83	ST. CROP	0	N	0	2099	894	4590	7582	
	S.E.	0	N	0	390	237	2337	2381	
	NO. TOWS	8	N	8	66	85	49	200	
22AUG83	ST. CROP	0	N	0	2869	881	0	3750	
	S.E.	0	N	0	580	151	0	600	
	NO. TOWS	8	N	8	64	87	49	200	
05SEP83	ST. CROP	0	N	0	794	558	691	2042	
	S.E.	0	N	0	150	130	271	336	
	NO. TOWS	8	N	8	63	87	49	199	
19SEP83	ST. CROP	0	N	0	192	225	0	417	
	S.E.	0	N	0	80	92	0	122	
	NO. TOWS	8	N	8	64	86	49	199	
03OCT83	ST. CROP	0	N	0	344	833	45	1222	
	S.E.	0	N	0	72	405	45	414	
	NO. TOWS	8	N	8	65	85	50	200	
17OCT83	ST. CROP	0	N	0	284	353	762	1399	
	S.E.	0	N	0	95	135	762	780	
	NO. TOWS	8	N	8	64	86	50	200	
TOTAL	ST. CROP	0	N	0	6581	3743	6089	16413	
	S.E.	0	N	0	729	535	2474	2634	
	NO. TOWS	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.

WEEK BEGINNING MONDAY	YOUNG-OF-THE-YEAR												
	WEAK FISH	REGIONS											
	YK	TZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AL	COMBINED
01AUG83	0	21	0	0	0	0	0	0	0	0	0	0	21
	0	21	0	0	0	0	0	0	0	0	0	0	21
	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	0	2	0	0	0	0	0	0	0	0	0	0	2
	0	2	0	0	0	0	0	0	0	0	0	0	2
	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	0	2	0	0	0	0	0	0	0	0	0	0	2
	0	2	0	0	0	0	0	0	0	0	0	0	2
	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	24	6	0	0	0	0	0	0	0	0	0	0	30
	6	3	0	0	0	0	0	0	0	0	0	0	7
	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	2	0	0	0	0	0	0	0	0	0	0	0	2
	2	0	0	0	0	0	0	0	0	0	0	0	2
	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	26	30	0	0	0	0	0	0	0	0	0	0	56
	7	21	0	0	0	0	0	0	0	0	0	0	22
	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.

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

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

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. GROU	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
09MAY83	ST. GROU	9	10	19	N	10	11	21	N	6	7	13
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
16MAY83	ST. GROU	10	10	20	N	10	10	20	N	6	7	13
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
23MAY83	ST. GROU	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
30MAY83	ST. GROU	16	22	38	N	7	12	19	N	4	6	10
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
06JUN83	ST. GROU	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
13JUN83	ST. GROU	16	22	38	N	7	12	19	N	4	6	10
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
20JUN83	ST. GROU	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
27JUN83	ST. GROU	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
04JUL83	ST. GROU	7	15	22	N	5	9	14	N	4	6	10
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
TOTAL	ST. GROU	0	0	0	N	0	0	0	N	0	0	0
	S.E. NO. TOWS	0	0	0	N	0	0	0	N	0	0	0
		106	155	261	N	69	104	173	N	49	61	110

N -- STRATIUM NOT SAMPLED

TABLE B-74 (CONTINUED).

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

N -- STRATUM NOT SAMPLED



TABLE B-74 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE CATFISH											
	ALBANY						COMBINED					
	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
	S.E.	0	N	0	0	0	0	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	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	0
	S.E.	N	0	N	0	0	0	0	0	0	0	0
	NO. TOWS	N	3	N	3	16	62	109	187			
TOTAL	ST. CROP	N	0	N	0	0	0	0	0	0	0	0
	S.E.	N	0	N	0	0	0	0	0	0	0	0
	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.

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

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	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	3	7	5	6	14
22AUG83	ST. CROP	0	0	0	N	0	0	0	4	0	0	4
	S.E.	0	0	0	N	0	0	0	4	0	0	4
	NO. TOWS	7	5	2	14	N	5	3	8	5	3	13
05SEP83	ST. CROP	0	0	0	N	0	0	0	4	17	0	21
	S.E.	0	0	0	N	0	0	0	4	17	0	17
	NO. TOWS	6	6	3	15	N	5	3	8	5	3	13
19SEP83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	5	3	8	6	2	13
03OCT83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	14	N	4	2	6	5	4	15
17OCT83	ST. CROP	0	0	0	N	16	0	16	9	20	0	29
	S.E.	0	0	0	N	16	0	16	6	20	0	21
	NO. TOWS	6	6	3	15	N	5	3	8	5	3	13
TOTAL	ST. CROP	0	0	0	N	16	0	16	17	37	0	54
	S.E.	0	0	0	N	16	0	16	8	26	0	27
	NO. TOWS	37	32	17	86	N	28	17	45	31	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	38	0	38	N	13	0	13	N	75	0	75
	S.E.	38	0	38	N	13	0	13	N	0	0	26
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	72	0	72	N	30	0	30	N	26	0	26
	S.E.	44	0	44	N	30	0	30	N	0	0	26
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	0	0	0	N	10	0	10	N	0	0	0
	S.E.	0	0	0	N	10	0	10	N	0	0	0
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
19SEFP83	ST. CROP	0	0	0	N	0	0	0	N	21	0	21
	S.E.	0	0	0	N	0	0	0	N	21	0	21
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. CROP	71	168	239	N	15	0	15	N	62	0	62
	S.E.	44	168	174	N	15	0	15	N	0	0	24
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	31	0	31	N	0	0	0	N	12	0	12
	S.E.	31	0	31	N	0	0	0	N	0	0	12
	NO. TOWS	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	212	168	380	N	68	0	68	N	195	0	195
	S.E.	79	168	186	N	37	0	37	N	0	0	50
	NO. TOWS	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-75 (CONTINUED).

MELK BEGINNING MONDAY	WHITE CATFISH			SAUGERTIES			YOUNG-OF-THE-YEAR			CATSKILL															
	SHOAL			BOTTOM CHANNEL			REGION			SHOAL			BOTTOM CHANNEL			REGION									
	ST. CROP S.E. NO. TOWS	114 52 12	0 0 6	114 52 18	ST. CROP S.E. NO. TOWS	0 0 6	0 0 6	18 18 18	ST. CROP S.E. NO. TOWS	0 0 6	0 0 6	24 16 18	N N N	406 84 15	0 0 6	0 0 6	42 23 21	0 0 21	36 26 21	144 70 21	0 0 6	0 0 6	12 12 20	641 115 125	
08AUG83																									
22AUG83																									
05SEP83																									
19SEP83																									
03OCT83																									
17OCT83																									
TOTAL																									

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	0	987	0	987
	S.E.	N	160	N	160	0	0	194	0	194
	NO. TOWS	N	8	N	8	66	85	49	49	200
22AUG83	ST. CROP	N	82	N	82	4	4	252	0	256
	S.E.	N	56	N	56	4	4	85	0	85
	NO. TOWS	N	8	N	8	64	87	49	49	200
05SEP83	ST. CROP	N	0	N	0	4	4	51	0	55
	S.E.	N	0	N	0	4	4	25	0	26
	NO. TOWS	N	8	N	8	63	87	49	49	199
19SEP83	ST. CROP	N	66	N	66	0	0	186	0	186
	S.E.	N	47	N	47	0	0	64	0	64
	NO. TOWS	N	8	N	8	64	86	49	49	199
03OCT83	ST. CROP	N	25	N	25	0	0	377	218	595
	S.E.	N	25	N	25	0	0	95	175	199
	NO. TOWS	N	8	N	8	65	85	50	50	200
17OCT83	ST. CROP	N	63	N	63	9	9	261	0	270
	S.E.	N	31	N	31	6	6	65	0	65
	NO. TOWS	N	8	N	8	64	86	50	50	200
TOTAL	ST. CROP	N	577	N	577	17	17	2113	218	2348
	S.E.	N	180	N	180	8	8	250	175	306
	NO. TOWS	N	48	N	48	386	516	296	296	1198

N -- STRATUM NOT SAMPLED

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

MELK BEGINNING MONDAY	WHITE CATFISH												
	YK	TZ	CH	IP	WP	REGIONS			KG	SG	CS	AL	COMBINED
						CW	PK	HP					
01AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	0	0	0	0	1	0	0	0	0	0	0	0	1
S.E. NO. HAULS	0	0	0	0	1	0	0	0	0	0	0	0	1
	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	0	6	0	2	0	0	0	0	0	0	0	0	8
S.E. NO. HAULS	0	4	0	2	0	0	0	0	0	0	0	0	5
	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	0	6	0	2	1	0	0	0	0	0	0	0	8
S.E. NO. HAULS	0	4	0	2	1	0	0	0	0	0	0	0	5
	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.

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

N -- STRATUM NOT SAMPLED



TABLE B-77 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-77 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-77 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-77 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	WHITE CATFISH															
	YONKERS						TAPPAN ZEE						CROTON-HAVERSTRAH			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	N	5	12	32	7	7	46	16	8	3	27				
22AUG83	0	N	0	0	0	0	0	0	8	0	0	8				
	0	N	0	0	0	0	0	0	8	0	0	8				
	7	N	5	12	29	9	8	46	16	8	3	27				
05SEPT83	0	N	0	0	0	0	0	0	0	0	0	0				
	0	N	0	0	0	0	0	0	0	0	0	0				
	7	N	5	12	29	8	8	45	16	8	2	26				
19SEP83	0	N	0	0	0	0	0	0	0	0	0	0				
	0	N	0	0	0	0	0	0	0	0	0	0				
	6	N	5	11	31	8	8	47	15	8	3	26				
03OCT83	0	N	0	0	0	0	0	0	0	0	0	0				
	0	N	0	0	0	0	0	0	0	0	0	0				
	6	N	5	11	31	7	8	46	17	8	3	28				
17OCT83	0	N	0	0	0	0	0	0	0	0	0	0				
	0	N	0	0	0	0	0	0	0	0	0	0				
	7	N	5	12	30	8	8	46	16	7	3	26				
TOTAL	0	N	0	0	0	0	0	0	8	0	0	8				
	0	N	0	0	0	0	0	0	8	0	0	8				
	40	N	30	70	182	47	47	276	96	47	17	160				

N -- STRATIUM NOT SAMPLED

TABLE B-78 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE CATFISH						YEARLING					
	INDIAN POINT			WEST POINT			CORNWALL			CORNWALL		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	N	5	3	8	5	5	3	13
05SELP83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	N	0	0	0	24	33	0	57
	S.E.	0	0	0	N	0	0	0	15	33	0	36
	NO. TOWS	6	5	3	N	5	3	8	6	5	2	13
03OCT83	ST. CROP	10	0	0	N	0	0	0	4	0	0	4
	S.E.	10	0	0	N	0	0	0	4	0	0	4
	NO. TOWS	6	5	3	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	0	0	N	33	0	33	20	183	0	203
	S.E.	0	0	0	N	33	0	33	13	116	0	117
	NO. TOWS	6	6	3	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	10	0	0	N	33	0	33	48	216	0	264
	S.E.	10	0	0	N	33	0	33	20	121	0	122
	NO. TOWS	37	32	17	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-78 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE CATFISH											
	POUGHKEEPSIE				HYDE PARK				KINGSTON			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. TOWS	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
22AUG83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. TOWS	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
05SEP83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. TOWS	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
19SEP83	ST. CROP	34	0	0	N	39	0	0	N	96	0	96
	S.E. TOWS	34	0	0	N	39	0	0	N	0	0	39
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
03OCT83	ST. CROP	0	0	0	N	15	250	265	N	0	0	0
	S.E. TOWS	0	0	0	N	15	250	250	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
17OCT83	ST. CROP	97	0	0	N	30	0	30	N	12	35	47
	S.E. TOWS	40	0	0	N	30	0	30	N	35	35	37
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
TOTAL	ST. CROP	131	0	0	N	84	250	334	N	108	35	143
	S.E. TOWS	52	0	0	N	52	250	255	N	35	35	54
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	90

N -- STRATUM NOT SAMPLED

TABLE B-78 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE CATFISH		YEARLING									
	SAUGERTIES			CATSKILL			REGION					
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM		CHANNEL				
08AUG83	ST. CROP	N	0	0	0	N	0	0	0	0	0	0
	S.E. TOWS	N	0	0	0	N	0	0	0	0	0	0
		N	12	6	6	N	15	6	6	21	21	21
22AUG83	ST. CROP	N	0	0	0	N	0	0	0	0	0	0
	S.E. TOWS	N	0	0	0	N	0	0	0	0	0	0
		N	12	6	6	N	15	6	6	21	21	21
05SEP83	ST. CROP	N	0	0	0	N	0	0	0	0	0	0
	S.E. TOWS	N	0	0	0	N	0	0	0	0	0	0
		N	12	6	6	N	15	6	6	21	21	21
19SEP83	ST. CROP	N	50	0	0	N	50	0	0	50	50	50
	S.F. TOWS	N	21	0	0	N	21	0	0	22	22	22
		N	12	6	6	N	15	6	6	21	21	21
03OCT83	ST. CROP	N	0	0	0	N	43	0	0	43	43	43
	S.E. TOWS	N	0	0	0	N	33	0	0	33	33	33
		N	12	6	6	N	15	6	6	21	21	21
17OCT83	ST. CROP	N	74	0	0	N	74	0	0	0	0	0
	S.E. TOWS	N	30	0	0	N	30	0	0	0	0	0
		N	13	6	6	N	14	6	6	20	20	20
TOTAL	ST. CROP	N	124	0	0	N	124	0	0	93	93	93
	S.E. TOWS	N	37	0	0	N	37	0	0	39	39	39
		N	73	36	36	N	89	36	36	125	125	125

N -- STRATUM NOT SAMPLED



TABLE B-78 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE CATFISH											
	ALBANY					YARLING						
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	N	0	0	0	0	0	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	8
	S.E.	N	0	N	0	8	0	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	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	349
	S.E.	N	22	N	22	15	82	0	84	0	0	84
	NO. TOWS	N	8	N	8	64	86	49	199			
03OCT83	ST. CROP	N	463	N	463	15	522	250	786	250	50	200
	S.E.	N	382	N	382	11	384	250	458	250	50	200
	NO. TOWS	N	8	N	8	65	85	50	200			
17OCT83	ST. CROP	N	109	N	109	20	537	35	592	35	5	592
	S.E.	N	88	N	88	13	160	35	165	35	5	165
	NO. TOWS	N	8	N	8	64	86	50	200			
TOTAL	ST. CROP	N	595	N	595	66	1384	285	1735	285	5	1735
	S.E.	N	393	N	393	24	424	252	494	252	5	494
	NO. TOWS	N	48	N	48	386	516	296	1198			

N -- STRAIUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	WHITE CATFISH												
	YK	TZ	CH	IP	WP	REGIONS			KG	SG	CS	AI	COMBINED
						CW	PK	HIP					
01AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	6	5	5	5	10	7	100	
15AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	6	5	5	5	10	7	100	
29AUG83	0	4	0	0	0	0	0	0	0	0	0	4	4
	0	4	0	0	0	0	0	0	0	0	0	4	4
	5	24	14	5	5	6	5	5	5	10	7	100	
12SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	6	5	5	5	10	7	100	
26SEP83	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	7	5	5	5	10	7	101	
10OCT83	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	7	5	6	5	4	6	10	7	102	
TOTAL	0	4	0	0	0	0	0	0	0	0	0	4	4
	0	4	0	0	0	0	0	0	0	0	0	4	4
	30	144	84	32	30	37	30	29	31	60	42	603	

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

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

N -- STRATUM NOT SAMPLED

TABLE B-80 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-80 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-80 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED

TABLE B-80 (CONTINUED).

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

WEEK BEGINNING MONDAY	WHITE CATFISH															
	YONKERS						TAPPAN ZEE						OLDER			
	SHOAL	BOTTOM	CHANNEL	REGION	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	8	0	0	8
	S.F.	0	N	0	0	0	0	0	0	0	0	0	8	0	0	8
	NO. TOWS	7	N	5	12	32	7	7	416	7	7	416	16	8	3	27
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.F.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	8	46	8	8	46	16	8	3	27
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.F.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	8	45	8	8	45	16	8	2	26
19SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.F.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	8	47	8	8	47	15	8	3	26
03OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	12	0	12
	S.F.	0	N	0	0	0	0	0	0	0	0	0	0	12	0	12
	NO. TOWS	6	N	5	11	31	7	8	416	8	8	416	17	8	3	28
17OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.F.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	8	46	8	8	46	16	7	3	26
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	8	12	0	20
	S.F.	0	N	0	0	0	0	0	0	0	0	0	8	12	0	15
	NO. TOWS	40	N	30	70	182	47	47	276	47	47	276	96	47	17	160

N -- STRATUM NOT SAMPLED



TABLE B-81 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE CATFISH											
	INDIAN POINT				WEST POINT				CORNWALL			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	N	0	0	0	4	0	0	4
	S.E.	0	0	0	N	0	0	0	4	0	0	4
	NO. TOWS	6	5	3	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	7	5	2	N	5	3	8	5	5	3	13
05SEP83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.F.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	6	3	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.	0	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	N	5	3	8	6	5	2	13
03OCT83	ST. CROP	5	0	0	N	0	0	0	0	0	0	0
	S.E.	5	0	0	N	0	0	0	0	0	0	0
	NO. TOWS	6	5	3	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	0	0	N	0	0	0	12	0	0	12
	S.F.	0	0	0	N	0	0	0	9	0	0	9
	NO. TOWS	6	6	3	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	5	0	0	N	0	0	0	17	0	0	17
	S.E.	5	0	0	N	0	0	0	10	0	0	10
	NO. TOWS	37	32	17	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-81 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-81 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-81 (CONTINUED).

WEEK BEGINNING MONDAY	WHITE CATFISH											
	ALBANY						OLDER					
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	0	N	0	12	0	25	N	13	0	0
	S.E.	N	0	N	0	9	0	15	N	13	0	0
	NO. TOWS	N	8	N	8	66	8	200	N	85	49	0
22AUG83	ST. CROP	N	0	N	0	0	0	0	N	0	0	0
	S.E.	N	0	N	0	0	0	0	N	0	0	0
	NO. TOWS	N	8	N	8	64	8	200	N	87	49	0
05SEP83	ST. CROP	N	0	N	0	0	0	0	N	0	0	0
	S.E.	N	0	N	0	0	0	0	N	0	0	0
	NO. TOWS	N	8	N	8	63	8	199	N	87	49	0
19SEP83	ST. CROP	N	0	N	0	0	0	38	N	38	0	38
	S.E.	N	0	N	0	0	0	28	N	28	0	28
	NO. TOWS	N	8	N	8	64	8	199	N	86	49	0
03OCT83	ST. CROP	N	0	N	0	5	0	45	N	40	0	45
	S.E.	N	0	N	0	5	0	24	N	23	0	24
	NO. TOWS	N	8	N	8	65	8	200	N	85	50	0
17OCT83	ST. CROP	N	0	N	0	12	0	12	N	0	0	12
	S.E.	N	0	N	0	9	0	9	N	0	0	9
	NO. TOWS	N	8	N	8	64	8	200	N	86	50	0
TOTAL	ST. CROP	N	0	N	0	30	0	91	N	91	0	121
	S.E.	N	0	N	0	13	0	38	N	38	0	41
	NO. TOWS	N	48	N	48	386	48	1198	N	516	296	0

N -- STRATUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	WHITE CATFISH												
	YK	TZ	CH	IP	WP	REGIONS			KG	SG	CS	AL	COMBINED
						CW	PK	HP					
01AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	0	0	4	0	0	0	0	0	0	0	0	0	4
S.E. NO. HAULS	0	0	4	0	0	0	0	0	0	0	0	0	4
	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	0	0	2	0	0	0	0	0	0	0	0	14	16
S.E. NO. HAULS	0	0	2	0	0	0	0	0	0	0	0	11	12
	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	0	4	0	0	0	0	0	0	2	0	0	0	6
S.E. NO. HAULS	0	4	0	0	0	0	0	0	2	0	0	0	4
	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	0	2	0	0	0	0	0	0	2	0	0	0	4
S.E. NO. HAULS	0	2	0	0	0	0	0	0	2	0	0	0	3
	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	0	4	0	0	0	0	0	0	0	0	0	0	4
S.E. NO. HAULS	0	3	0	0	0	0	0	0	0	0	0	0	3
	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	0	9	6	0	0	0	0	0	3	0	0	14	33
S.E. NO. HAULS	0	5	4	0	0	0	0	0	2	0	0	11	13
	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.

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

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 S.E. NO. TOWS	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 3	0 0 7	0 0 5	0 0 6	0 0 3	0 0 14
22AUG83	ST. CROP S.F. NO. TOWS	0 0 7	0 0 5	0 0 2	0 0 14	N N N	0 0 3	0 0 8	0 0 5	0 0 5	0 0 3	0 0 13
05SEP83	ST. CROP S.E. NO. TOWS	0 0 6	0 0 6	0 0 3	0 0 15	N N N	0 0 3	0 0 8	0 0 5	0 0 5	0 0 3	0 0 13
19SEP83	ST. CROP S.E. NO. TOWS	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 3	0 0 8	4 4 6	0 0 5	0 0 2	4 4 13
03OCT83	ST. CROP S.E. NO. TOWS	0 0 6	0 0 5	0 0 3	0 0 14	N N N	0 0 2	0 0 6	0 0 5	0 0 6	0 0 4	0 0 15
17OCT83	ST. CROP S.F. NO. TOWS	0 0 6	0 0 6	0 0 3	0 0 15	N N N	0 0 3	0 0 8	0 0 5	0 0 5	0 0 3	0 0 13
TOTAL	ST. CROP S.F. NO. TOWS	0 0 37	0 0 32	0 0 17	0 0 86	N N N	0 0 17	0 0 45	4 4 31	0 0 32	0 0 18	4 4 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	0	0	0	N	0	0	0	N	52	0	52
	S.E.	0	0	0	N	0	0	0	N	0	0	52
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
22AUG83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
05SEP83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
19SEP83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
03OCT83	ST. CROP	0	0	0	N	0	0	0	N	15	0	15
	S.E.	0	0	0	N	0	0	0	N	0	0	15
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
17OCT83	ST. CROP	0	0	0	N	0	0	0	N	28	0	28
	S.E.	0	0	0	N	0	0	0	N	0	0	28
	NO. TOWS	N	5	3	8	N	6	4	10	N	9	15
TOTAL	ST. CROP	N	0	0	0	N	0	0	0	N	95	95
	S.E.	N	0	0	0	N	0	0	0	N	0	61
	NO. TOWS	N	30	18	48	N	36	24	60	N	54	90

N -- STRATUM NOT SAMPLED



TABLE B-83 (CONTINUED).

WEEK BEGINNING MONDAY	SPOTTAIL SHINER			YOUNG-OI - IHF - YEAR				
	SAUGERTIES			CAISKILL				
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. GROU	12	0	12	N	38	0	38
	S.E.	12	0	12	N	20	0	20
	NO. TOWS	12	6	18	N	15	6	21
22AUG83	ST. GROU	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	12	6	18	N	15	6	21
05SEP83	ST. GROU	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	12	6	18	N	15	6	21
19SEP83	ST. GROU	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	12	6	18	N	15	6	21
03OCT83	ST. GROU	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	12	6	18	N	15	6	21
17OCT83	ST. GROU	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	13	6	19	N	14	6	20
TOTAL	ST. GROU	12	0	12	N	38	0	38
	S.E.	12	0	12	N	20	0	20
	NO. TOWS	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	98	N	98	0	200	0	200
	S.E.	58	N	58	0	81	0	81
	NO. TOWS	8	N	8	66	85	49	200
22AUG83	ST. CROP	0	N	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0
	NO. TOWS	8	N	8	64	87	49	200
05SEP83	ST. CROP	0	N	0	0	0	0	0
	S.E.	0	N	0	0	0	0	0
	NO. TOWS	8	N	8	63	87	49	199
19SEP83	ST. CROP	0	N	0	4	0	0	4
	S.E.	0	N	0	4	0	0	4
	NO. TOWS	8	N	8	64	86	49	199
03OCT83	ST. CROP	0	N	0	0	15	0	15
	S.E.	0	N	0	0	15	0	15
	NO. TOWS	8	N	8	65	85	50	200
17OCT83	ST. CROP	0	N	0	0	28	0	28
	S.E.	0	N	0	0	28	0	28
	NO. TOWS	8	N	8	64	86	50	200
TOTAL	ST. CROP	98	N	98	4	243	0	246
	S.E.	58	N	58	4	87	0	87
	NO. TOWS	48	N	48	386	516	296	1198

N -- STRATUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	SPOTTAIL SHINER											AI	COMBINED
	YOUNG-OF-THE-YEAR												
	YK	TZ	CH	IP	WP	REGIONS			KG	SG	CS		
						CW	PK	IIP					
01AUG83	0	0	61	11	32	69	26	45	193	336	535	495	1868
S.E. CROP	0	0	48	57	23	31	17	15	82	79	213	247	356
S.E. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
15AUG83	0	4	25	13	47	98	52	27	83	25	75	367	816
S.E. CROP	0	3	25	13	37	37	28	17	40	19	34	104	136
S.E. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
29AUG83	0	34	40	0	9	92	129	12	43	197	65	293	915
S.E. CROP	0	34	40	0	5	24	47	3	28	106	35	174	222
S.E. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
12SEP83	0	2	0	4	6	114	51	7	50	123	63	307	726
S.E. CROP	0	2	0	4	3	42	18	4	24	71	31	210	229
S.E. HAULS	5	24	14	5	5	6	5	5	5	9	10	7	100
26SEP83	0	0	17	4	47	29	169	184	136	117	138	549	1390
S.E. CROP	0	0	17	4	31	15	62	176	62	70	78	254	340
S.E. HAULS	5	24	14	5	5	7	5	5	5	9	10	7	101
10OCT83	0	0	19	5	12	5	40	8	161	178	199	83	710
S.E. CROP	0	0	17	3	7	4	34	6	110	81	83	77	182
S.E. HAULS	5	24	14	7	5	6	5	4	6	9	10	7	102
TOTAL	0	40	163	103	152	407	467	284	665	975	1074	2094	6425
S.E. CROP	0	34	72	59	54	70	93	177	160	186	249	465	629
S.E. 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.

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

N -- STRATUM NOT SAMPLED

TABLE B-85 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-85 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED

TABLE B-85 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-85 (CONTINUED).

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

WEEK BEGINNING MONDAY	SPOTTAIL SHINER												YEARLING			
	YONKERS						TAPPAN ZEE						CROTON-HAVERSTRAW			
	SHOAL	BOTTOM	CHANNEL	REGION	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	0	0	0
	S.F.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	32	7	46	7	16	8	3	27			
22AUG83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.F.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	9	46	8	16	8	3	27			
05SEP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.F.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	29	8	45	8	16	8	2	26			
19SELP83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.F.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	8	47	8	15	8	3	26			
03OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.F.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	6	N	5	11	31	7	46	8	17	8	3	28			
17OCT83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.F.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	7	N	5	12	30	8	46	8	16	7	3	26			
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.F.	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0
	NO. TOWS	40	N	30	70	182	47	276	47	96	47	17	160			

N -- STRATUM NOT SAMPLED

TABLE B-86 (CONTINUED).

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

N -- STRAIUM NOT SAMPLED

TABLE B-86 (CONTINUED).

WEEK BEGINNING MONDAY	SPOTTAIL SHINER			POUGHKEEPSIE			HYDE PARK			KINGSTON			
	ST. GROU P	S.E. NO. TOWS	REGION	SHOAL	BOTTOM	CHANNEL	ST. GROU P	S.E. NO. TOWS	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	N	0	0	N	0	0	N	0	0	N	0	0	13
	N	0	0	N	0	0	N	0	0	N	0	0	13
	N	5	3	N	8	8	N	6	4	N	9	6	15
22AUG83	N	0	0	N	0	0	N	0	0	N	47	0	47
	N	0	0	N	0	0	N	0	0	N	0	0	47
	N	5	3	N	8	8	N	6	4	N	9	6	15
05SEP83	N	0	0	N	0	0	N	0	0	N	96	0	96
	N	0	0	N	0	0	N	0	0	N	0	0	96
	N	5	3	N	8	8	N	6	4	N	9	6	15
19SEP83	N	0	0	N	0	0	N	0	0	N	0	0	0
	N	0	0	N	0	0	N	0	0	N	0	0	0
	N	5	3	N	8	8	N	6	4	N	9	6	15
03OCT83	N	0	0	N	0	0	N	0	0	N	0	0	0
	N	0	0	N	0	0	N	0	0	N	0	0	0
	N	5	3	N	8	8	N	6	4	N	9	6	15
17OCT83	N	0	0	N	0	0	N	15	0	N	42	0	42
	N	0	0	N	0	0	N	15	0	N	0	0	42
	N	5	3	N	8	8	N	6	4	N	9	6	15
TOTAL	N	0	0	N	0	0	N	15	0	N	198	0	198
	N	0	0	N	0	0	N	15	0	N	0	0	115
	N	30	18	N	48	48	N	36	24	N	54	36	90

N -- STRATUM NOT SAMPLED

TABLE B-86 (CONTINUED)

WEEK BEGINNING MONDAY	SPOTTAIL SHINER		SAUGERTIES			CATSKILL			REGION				
	YEARLING		SHOAL	BOTTOM	CHANNEL	SHOAL	BOTTOM	CHANNEL					
	ST. CROP S.E. NO. TOWS	N	68	25	12	0	68	25		18	0	40	21
08AUG83	ST. CROP S.E. NO. TOWS	N	68	25	12	0 <td>68</td> <td>25</td> <td>18</td> <td>0</td> <td>40</td> <td>21</td> <td>21</td>	68	25	18	0	40	21	21
22AUG83	ST. CROP S.E. NO. TOWS	N	0	0	12	0 <td>0</td> <td>0</td> <td>18</td> <td>0</td> <td>0</td> <td>0</td> <td>21</td>	0	0	18	0	0	0	21
05SEP83	ST. CROP S.E. NO. TOWS	N	0	0	12	0 <td>0</td> <td>0</td> <td>18</td> <td>0</td> <td>0</td> <td>0</td> <td>21</td>	0	0	18	0	0	0	21
19SEP83	ST. CROP S.E. NO. TOWS	N	0	0	12	0 <td>0</td> <td>0</td> <td>18</td> <td>0</td> <td>0</td> <td>0</td> <td>21</td>	0	0	18	0	0	0	21
03OCT83	ST. CROP S.E. NO. TOWS	N	0	0	12	0 <td>0</td> <td>0</td> <td>18</td> <td>0</td> <td>0</td> <td>0</td> <td>21</td>	0	0	18	0	0	0	21
17OCT83	ST. CROP S.E. NO. TOWS	N	0	0	13	0 <td>0</td> <td>0</td> <td>19</td> <td>0</td> <td>13</td> <td>13</td> <td>20</td>	0	0	19	0	13	13	20
TOTAL	ST. CROP S.E. NO. TOWS	N	68	25	73	0 <td>68</td> <td>25</td> <td>109</td> <td>0</td> <td>69</td> <td>29</td> <td>125</td>	68	25	109	0	69	29	125

N -- STRATUM NOT SAMPLED

TABLE B-86 (CONTINUED).

WEEK BEGINNING MONDAY	SPOTTAIL SHINER			YEARLING				
	ALBANY			COMBINED				
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	N	59	N	59	0	0	199
	S.E. TOWS	N	29	N	29	0	0	49
		N	8	N	8	66	49	200
22AUG83	ST. CROP	N	0	N	0	0	0	47
	S.E. TOWS	N	0	N	0	0	0	47
		N	8	N	8	64	49	200
05SEP83	ST. CROP	N	0	N	0	0	0	96
	S.E. TOWS	N	0	N	0	0	0	96
		N	8	N	8	63	49	199
19SEP83	ST. CROP	N	0	N	0	4	0	4
	S.E. TOWS	N	0	N	0	4	0	4
		N	8	N	8	64	49	199
03OCT83	ST. CROP	N	0	N	0	0	0	16
	S.E. TOWS	N	0	N	0	0	0	16
		N	8	N	8	65	50	200
17OCT83	ST. CROP	N	42	N	42	0	0	111
	S.E. TOWS	N	42	N	42	0	0	62
		N	8	N	8	64	50	200
TOTAL	ST. CROP	N	101	N	101	4	0	469
	S.E. TOWS	N	51	N	51	4	0	134
		N	48	N	48	386	296	1198

N -- STRATUM NOT SAMPLED

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

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

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

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

N -- STRATUM NOT SAMPLED

TABLE B-88 (CONTINUED).

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

N -- STRATUM NOT SAMPLED



TABLE B-88 (CONTINUED).

WEEK BEGINNING MONDAY	SPOTTAIL SHINER			POUGHKEEPSIE			HYDE PARK			KINGSTON		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	9	10	19	N	10	11	21	N	6	7	13
09MAY83	N	21	0	21	N	42	0	42	N	0	44	44
	N	21	0	21	N	17	0	17	N	44	44	44
	N	10	10	20	N	10	10	20	N	6	7	13
16MAY83	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	10	10	20	N	8	11	19	N	6	7	13
23MAY83	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	16	22	38	N	7	12	19	N	4	6	10
30MAY83	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	16	22	38	N	7	12	19	N	5	5	10
06JUN83	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	16	22	38	N	7	12	19	N	4	6	10
13JUN83	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	7	15	22	N	5	9	14	N	5	5	10
20JUN83	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	8	14	22	N	5	9	14	N	5	6	11
27JUN83	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	7	15	22	N	5	9	14	N	4	6	10
04JUL83	N	0	0	0	N	0	0	0	N	0	0	0
	N	0	0	0	N	0	0	0	N	0	0	0
	N	7	15	22	N	5	9	14	N	4	6	10
TOTAL	N	21	0	21	N	42	0	42	N	0	44	44
	N	21	0	21	N	17	0	17	N	44	44	44
	N	106	155	261	N	69	104	173	N	49	61	110

N -- STRATUM NOT SAMPLED

TABLE B-88 (CONTINUED).

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

N -- STRAIUM NOT SAMPLED

TABLE B-88 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	SPOTTAIL SHINER										OLDER				
	YK	IZ	CH	IP	WP	CW	PK	HP	KG	SG	CS	AI	COMBINED		
01AUG83	0	0	0	0	0	0	0	0	0	0	0	0	0		
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0		
15AUG83	5	24	14	5	5	6	5	5	5	9	10	7	100		
S.T. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0		
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0		
29AUG83	5	24	14	5	5	6	5	5	5	9	10	7	100		
S.T. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0		
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0		
12SEP83	5	24	14	5	5	6	5	5	5	9	10	7	100		
S.T. CROP	0	0	0	0	0	0	3	0	0	0	0	0	3		
S.E. NO. HAULS	0	0	0	0	0	0	3	0	0	0	0	0	3		
26SEP83	5	24	14	5	5	6	5	5	5	9	10	7	100		
S.T. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0		
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0		
10OCT83	5	24	14	7	5	6	5	4	6	9	10	7	102		
S.T. CROP	0	0	0	0	0	0	0	0	0	0	0	0	0		
S.E. NO. HAULS	0	0	0	0	0	0	0	0	0	0	0	0	0		
TOTAL	30	144	84	32	30	37	30	29	31	54	60	42	603		
S.T. CROP	0	0	0	0	0	0	3	0	0	0	0	0	3		
S.E. NO. HAULS	0	0	0	0	0	0	3	0	0	0	0	0	3		

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

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

N -- STRATUM NOT SAMPLED

TABLE B-90 (CONTINUED).

WEEK BEGINNING MONDAY	ATLANTIC STURGEON											
	INDIAN POINT				WEST POINT				CORNWALL			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST., CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.,	0	0	0	N	0	0	0	0	0	0	0
	NO., TOWS	4	7	25	N	4	30	34	5	12	6	23
09MAY83	ST., CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.,	0	0	0	N	0	0	0	0	0	0	0
	NO., TOWS	4	8	24	N	4	30	34	5	13	5	23
16MAY83	ST., CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.,	0	0	0	N	0	0	0	0	0	0	0
	NO., TOWS	4	7	25	N	7	30	37	5	10	5	20
23MAY83	ST., CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.,	0	0	0	N	0	0	0	0	0	0	0
	NO., TOWS	3	6	13	N	7	23	30	5	9	6	20
30MAY83	ST., CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.,	0	0	0	N	0	0	0	0	0	0	0
	NO., TOWS	3	6	15	N	6	23	29	5	9	6	20
06JUN83	ST., CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.,	0	0	0	N	0	0	0	0	0	0	0
	NO., TOWS	4	6	14	N	7	23	30	5	9	5	19
13JUN83	ST., CROP	0	0	0	N	28	0	28	0	0	0	0
	S.E.,	0	0	0	N	28	0	28	0	0	0	0
	NO., TOWS	5	5	16	N	8	25	33	3	12	13	28
20JUN83	ST., CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.,	0	0	0	N	0	0	0	0	0	0	0
	NO., TOWS	5	5	17	N	8	25	33	3	12	13	28
27JUN83	ST., CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.,	0	0	0	N	0	0	0	0	0	0	0
	NO., TOWS	5	6	16	N	8	25	33	3	12	13	28
04JUL83	ST., CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E.,	0	0	0	N	0	0	0	0	0	0	0
	NO., TOWS	5	5	16	N	8	25	33	3	12	13	28
TOTAL	ST., CROP	0	0	0	N	28	0	28	0	0	0	0
	S.E.,	0	0	0	N	28	0	28	0	0	0	0
	NO., TOWS	42	61	181	N	67	259	376	42	110	85	237

N -- STRATUM NOT SAMPLED

TABLE B-90 (CONTINUED).

ATLANTIC STURGEON

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

N -- STRAIUM NOT SAMPLED

TABLE B-90 (CONTINUED).

WEEK BEGINNING MONDAY	ATLANTIC STURGEON						YEARLING									
	SAUGERTIES			CATSKILL			SHOAL			CHANNEL			REGION			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
02MAY83	ST. CROP	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	N	3	3	6	N	3	3	6
09MAY83	ST. CROP	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	3	6	N	3	3	N	3	3	6	N	3	3	6
16MAY83	ST. CROP	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	3	7	N	3	3	N	3	3	6	N	3	3	6
23MAY83	ST. CROP	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	N	3	3	6	N	3	3	6
30MAY83	ST. CROP	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	N	3	3	6	N	3	3	6
06JUN83	ST. CROP	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	5	3	8	N	3	3	N	3	3	6	N	3	3	6
13JUN83	ST. CROP	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	2	2	N	2	2	4	N	2	2	4
20JUN83	ST. CROP	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	3	2	5	N	2	2	N	2	2	4	N	2	2	4
27JUN83	ST. CROP	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	2	2	N	2	2	4	N	2	2	4
04JUL83	ST. CROP	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	4	2	6	N	2	2	N	2	2	4	N	2	2	4
TOTAL	ST. CROP	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	S.E.	N	0	0	0	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	40	26	66	N	26	26	N	26	26	52	N	30	30	60

N -- STRATUM NOT SAMPLED



TABLE B-90 (CONTINUED).

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

N -- STRATIUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	ATLANTIC STURGEON											
	YONKERS				TAPPAN ZEE				CROTON-HAVERSTRAW			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	0	N	0	0	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	0	N	0	0	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	0	N	0	0	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	0	N	0	0	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	0	N	0	0	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	0	N	0	0	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	0	N	0	0	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).

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

N -- STRATUM NOT SAMPLED

TABLE B-91 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-91 (CONTINUED)

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

N -- STRATUM NOT SAMPLED

TABLE B-91 (CONTINUED).

WEEK BEGINNING MONDAY	ATLANTIC STURGEON			ALBANY			YEAR 198			COMBINED			
	ST. CROP S.E. NO. TOWS	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83		N	0	N	0	0	0	0	0	0	13	0	13
		N	0	N	0	0	0	0	0	0	13	0	13
		N	8	N	8	66	0	49	8	66	85	49	200
22AUG83		N	0	N	0	0	0	0	0	0	0	0	0
		N	0	N	0	0	0	0	0	0	0	0	0
		N	8	N	8	64	0	49	8	64	87	49	200
05SEP83		N	0	N	0	0	0	0	0	0	0	0	0
		N	0	N	0	0	0	0	0	0	0	0	0
		N	8	N	8	63	0	49	8	63	87	49	199
19SEP83		N	0	N	0	0	0	0	0	0	0	0	0
		N	0	N	0	0	0	0	0	0	0	0	0
		N	8	N	8	64	0	49	8	64	86	49	199
03OCT83		N	0	N	0	0	0	0	0	0	0	0	0
		N	0	N	0	0	0	0	0	0	0	0	0
		N	8	N	8	65	0	50	8	65	85	50	200
17OCT83		N	0	N	0	0	0	0	0	0	0	0	0
		N	0	N	0	0	0	0	0	0	0	0	0
		N	8	N	8	64	0	50	8	64	86	50	200
TOTAL		N	0	N	0	0	0	0	0	0	13	0	13
		N	0	N	0	0	0	0	0	0	13	0	13
		N	48	N	48	386	0	296	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.

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

N -- STRATUM NOT SAMPLED

TABLE B-92 (CONTINUED).

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

N -- STRATUM NOT SAMPLED



TABLE B-92 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-92 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-92 (CONTINUED).

WEEK BEGINNING MONDAY	ATLANTIC STURGEON						OLDER					
	ALBANY			COMBINED			OLDER					
	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
	S.E.	N	N	0	0	0	0	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	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	53
	S.E.	N	0	N	0	0	40	0	40	0	0	40
	NO. TOWS	N	5	N	5	21	67	106	194			
23MAY83	ST. CROP	N	0	N	0	0	0	0	0	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	27
	S.E.	N	0	N	0	0	27	0	27	0	0	27
	NO. TOWS	N	3	N	3	16	63	108	187			
27JUN83	ST. CROP	N	0	N	0	0	0	0	0	0	0	0
	S.E.	N	0	N	0	0	0	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	0	0	10
	S.E.	N	0	N	0	0	10	0	10	0	0	10
	NO. TOWS	N	3	N	3	16	62	109	187			
TOTAL	ST. CROP	N	0	N	0	0	90	0	90	0	0	90
	S.E.	N	0	N	0	0	49	0	49	0	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.

WEEK BEGINNING MONDAY	ATLANTIC STURGEON												REGION
	YONKERS				TAPPAN ZEE				CROTON-HAVERSIRAW				
	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.F. TOWS	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.F. TOWS	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.F. TOWS	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.F. TOWS	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.F. TOWS	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.F. TOWS	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.F. TOWS	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).

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

N -- STRATUM NOT SAMPLED

TABLE B-93 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-93 (CONTINUED).

WEEK BEGINNING MONDAY	ATLANTIC STURGEON			OLDER			
	SAUGERTIES			CATSKILL			
	SHOAL	BOTTOM	CHANNEL	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	N	0	0	0
	S.E.	0	0	N	0	0	0
	NO. TOWS	12	6	N	15	6	21
22AUG83	ST. CROP	15	0	N	67	0	67
	S.E.	15	0	N	53	0	53
	NO. TOWS	12	6	N	15	6	21
05SEP83	ST. CROP	0	0	N	0	0	0
	S.E.	0	0	N	0	0	0
	NO. TOWS	12	6	N	15	6	21
19SEP83	ST. CROP	14	0	N	12	0	12
	S.E.	14	0	N	12	0	12
	NO. TOWS	12	6	N	15	6	21
03OCT83	ST. CROP	0	0	N	0	0	0
	S.E.	0	0	N	0	0	0
	NO. TOWS	12	6	N	15	6	21
17OCT83	ST. CROP	0	0	N	0	0	0
	S.E.	0	0	N	0	0	0
	NO. TOWS	13	6	N	14	6	20
TOTAL	ST. CROP	29	0	N	79	0	79
	S.E.	21	0	N	55	0	55
	NO. TOWS	73	36	N	89	36	125

N -- STRATUM NOT SAMPLED

TABLE B-93 (CONTINUED).

WEEK BEGINNING MONDAY	ATLANTIC STURGEON						OLDER		
	ALBANY			COMBINED			OLDER		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	
08AUG83	ST. CROP	0	N	0	0	0	0	0	
	S.E.	0	N	0	0	0	0	0	
	NO. TOWS	8	N	8	66	85	49	200	
22AUG83	ST. CROP	290	N	290	0	619	0	619	
	S.E.	124	N	124	0	167	0	167	
	NO. TOWS	8	N	8	64	87	49	200	
05SELP83	ST. CROP	0	N	0	0	0	0	0	
	S.E.	0	N	0	0	0	0	0	
	NO. TOWS	8	N	8	63	87	49	199	
19SEP83	ST. CROP	0	N	0	0	26	0	26	
	S.E.	0	N	0	0	18	0	18	
	NO. TOWS	8	N	8	64	86	49	199	
03OCT83	ST. CROP	0	N	0	0	0	0	0	
	S.E.	0	N	0	0	0	0	0	
	NO. TOWS	8	N	8	65	85	50	200	
17OCT83	ST. CROP	0	N	0	0	0	0	0	
	S.E.	0	N	0	0	0	0	0	
	NO. TOWS	8	N	8	64	86	50	200	
TOTAL	ST. CROP	290	N	290	0	645	0	645	
	S.E.	124	N	124	0	168	0	168	
	NO. TOWS	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.

WEEK BEGINNING MONDAY	SHORTNOSE STURGEON										YOUNG-01 - 1HF - YEAR									
	YONKERS					TAPPAN ZEE					CROTON-HAVERSTRAW					REGION				
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	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	0	0	0	0	0	0	0
	S.F. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30MAY83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27JUN83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04JUL83	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	ST. CROP	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	S.E. NO. TOWS	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		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	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	4	7	25	36	N	4	30	34	5	12	6	23
09MAY83	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	4	8	24	36	N	4	30	34	5	13	5	23
16MAY83	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	4	7	25	36	N	7	30	37	5	10	5	20
23MAY83	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	3	6	13	22	N	7	23	30	5	9	6	20
30MAY83	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	3	6	15	24	N	6	23	29	5	9	6	20
06JUN83	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	4	6	14	24	N	7	23	30	5	9	5	19
13JUN83	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	5	5	16	26	N	8	25	33	3	12	13	28
20JUN83	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	5	5	17	27	N	8	25	33	3	12	13	28
27JUN83	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	5	6	16	27	N	8	25	33	3	12	13	28
04JUL83	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	5	5	16	26	N	8	25	33	3	12	13	28
TOTAL	0	0	0	0	N	0	0	0	0	0	0	0
	0	0	0	0	N	0	0	0	0	0	0	0
	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	N	0	0	0	N	0	0	0
	S.F.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	9	10	19	N	10	11	21	N	6	7
09MAY83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.F.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	10	10	20	N	6	7
16MAY83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.F.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	10	10	20	N	8	11	19	N	6	7
23MAY83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.F.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6
30MAY83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.F.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	5	5
06JUN83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.F.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	16	22	38	N	7	12	19	N	4	6
13JUN83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.F.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	5	5
20JUN83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.F.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	8	14	22	N	5	9	14	N	5	6
27JUN83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.F.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6
04JUL83	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.F.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	7	15	22	N	5	9	14	N	4	6
TOTAL	ST. CROP	N	0	0	N	0	0	0	N	0	0	0
	S.F.	N	0	0	N	0	0	0	N	0	0	0
	NO. TOWS	N	106	155	261	N	69	104	173	N	49	61

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	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	3	3	6	N	3	3	6
09MAY83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	3	3	6	N	3	3	6
16MAY83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	4	3	7	N	3	3	6
23MAY83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	3	3	6
30MAY83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	3	3	6
06JUN83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	5	3	8	N	3	3	6
13JUN83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	4	2	6	N	3	3	6
20JUN83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	3	2	5	N	3	3	6
27JUN83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	4	2	6	N	3	3	6
04JUL83	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	4	2	6	N	3	3	6
TOTAL	ST. CROP	0	0	0	N	0	0	0
	S.E.	0	0	0	N	0	0	0
	NO. TOWS	40	26	66	N	30	30	60

N -- STRATUM NOT SAMPLED

TABLE B-94 (CONTINUED).

SHORINOSE STURGEON YOUNG-OF-THE-YEAR

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

N -- STRATUM NOT SAMPLED

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

WEEK BEGINNING MONDAY	SHORINOSI STURGEON										YEARLING									
	YONKERS					TAPPAN /FF					CROTON-HAVERSTRAW					REGION				
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP S.E. NO. TOWS	0 0 7	N N N	0 0 12	0 0 32	0 0 7	0 0 7	0 0 46	0 0 16	0 0 8	0 0 3	0 0 27	0 0 16	0 0 7	0 0 46	0 0 16	0 0 8	0 0 3	0 0 27	0 0 26
22AUG83	ST. CROP S.E. NO. TOWS	0 0 7	N N N	0 0 12	0 0 29	0 0 9	0 0 8	0 0 46	0 0 16	0 0 3	0 0 3	0 0 27	0 0 16	0 0 8	0 0 3	0 0 27	0 0 3	0 0 3	0 0 27	0 0 26
05SELP83	ST. CROP S.E. NO. TOWS	0 0 7	N N N	0 0 12	0 0 29	0 0 8	0 0 8	0 0 45	0 0 16	0 0 8	0 0 2	0 0 26	0 0 16	0 0 8	0 0 2	0 0 26	0 0 8	0 0 2	0 0 26	0 0 26
19SEP83	ST. CROP S.E. NO. TOWS	0 0 6	N N N	0 0 11	0 0 31	0 0 8	0 0 8	0 0 47	0 0 15	0 0 3	0 0 3	0 0 26	0 0 15	0 0 8	0 0 3	0 0 26	0 0 8	0 0 3	0 0 26	0 0 26
03OCT83	ST. CROP S.E. NO. TOWS	0 0 6	N N N	0 0 11	0 0 31	0 0 7	0 0 8	0 0 46	0 0 17	0 0 3	0 0 3	0 0 28	0 0 17	0 0 8	0 0 3	0 0 28	0 0 8	0 0 3	0 0 28	0 0 26
17OCT83	ST. CROP S.F. NO. TOWS	0 0 7	N N N	0 0 12	0 0 30	0 0 8	0 0 8	0 0 46	0 0 16	0 0 7	0 0 3	0 0 26	0 0 16	0 0 7	0 0 3	0 0 26	0 0 7	0 0 3	0 0 26	0 0 26
TOTAL	ST. CROP S.F. NO. TOWS	0 0 40	N N N	0 0 70	0 0 182	0 0 47	0 0 47	0 0 276	0 0 96	0 0 47	0 0 17	0 0 160	0 0 96	0 0 47	0 0 17	0 0 160	0 0 47	0 0 17	0 0 160	0 0 160

N -- STRATUM NOT SAMPLED

TABLE B-95 (CONTINUED).

WEEK BEGINNING MONDAY	SHORTROSE STURGFON											
	INDIAN POINT				WEST POINT				CORNWALL			
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. TOWS	6	5	3	N	4	3	7	5	6	3	14
22AUG83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. TOWS	7	5	2	N	5	3	8	5	5	3	13
05SELP83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. TOWS	6	6	3	N	5	3	8	5	5	3	13
19SEP83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. TOWS	6	5	3	N	5	3	8	6	5	2	13
03OCT83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. TOWS	6	5	3	N	4	2	6	5	6	4	15
17OCT83	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. TOWS	6	6	3	N	5	3	8	5	5	3	13
TOTAL	ST. CROP	0	0	0	N	0	0	0	0	0	0	0
	S.E. TOWS	37	32	17	N	28	17	45	31	32	18	81

N -- STRATUM NOT SAMPLED

TABLE B-95 (CONTINUED).

WEEK BEGINNING MONDAY	SHORTHOSE STURGEON						YEARLING					
	POUGHKEEPSIE			HYDE PARK			KINGSTON			KINGSTON		
	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. TOWS	5	3	8	N	6	4	10	N	9	6	15
22AUG83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. TOWS	5	3	8	N	6	4	10	N	9	6	15
05SEP83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. TOWS	5	3	8	N	6	4	10	N	9	6	15
19SEP83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. TOWS	5	3	8	N	6	4	10	N	9	6	15
03OCT83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. TOWS	5	3	8	N	6	4	10	N	9	6	15
17OCT83	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. TOWS	5	3	8	N	6	4	10	N	9	6	15
TOTAL	ST. CROP	0	0	0	N	0	0	0	N	0	0	0
	S.E. TOWS	30	18	48	N	36	24	60	N	54	36	90

N -- STRATUM NOT SAMPLED



TABLE B-95 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-95 (CONTINUED).

WEEK BEGINNING MORNING	SHORTNOSE STURGEON			ALBANY			YEARLING			COMBINED			
	SHOAL	BOTTOM	CHANNEL	SHOAL	BOTTOM	CHANNEL	SHOAL	BOTTOM	CHANNEL	SHOAL	BOTTOM	CHANNEL	REGION
	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS	ST. CROP S.E. NO. TOWS
08AUG83	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	8	N	8	66	49	85	49	200				
22AUG83	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	8	N	8	64	49	87	49	200				
05SEP83	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	8	N	8	63	49	87	49	199				
19SEP83	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	0	N	0	0	0	0	0	0	0	0	0	0
	N	8	N	8	64	49	86	49	199				
03OCT83	N	0	N	0	0	0	14	14	14	14	14	14	14
	N	0	N	0	0	0	14	14	14	14	14	14	14
	N	8	N	8	65	50	85	50	200				
17OCT83	N	22	N	22	0	0	22	22	22	22	22	22	22
	N	22	N	22	0	0	22	22	22	22	22	22	22
	N	8	N	8	64	50	86	50	200				
TOTAL	N	22	N	22	0	0	37	37	37	37	37	37	37
	N	22	N	22	0	0	26	26	26	26	26	26	26
	N	48	N	48	386	296	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.

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

N -- STRATUM NOT SAMPLED

TABLE B-96 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-96 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-96 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-96 (CONTINUED).

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

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

N -- STRATUM NOT SAMPLED



TABLE B-97 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-97 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-97 (CONTINUED).

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

N -- STRATUM NOT SAMPLED

TABLE B-97 (CONTINUED).

WEEK BEGINNING MORNDAY	SHORTNOSE STURGEON			ALBANY			OLDER			COMBINED			
	ST. CROP S.E. NO. TOWS	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION	SHOAL	BOTTOM	CHANNEL	REGION
08AUG83	N	0	0	N	0	0	0	0	0	0	0	0	0
	N	0	0	N	0	0	0	0	0	0	0	0	0
	N	8	8	N	8	66	66	49	200				
22AUG83	N	25	25	N	25	0	0	0	25	0	0	0	25
	N	25	25	N	25	0	0	0	25	0	0	0	25
	N	8	8	N	8	64	64	49	200				200
05SEP83	N	0	0	N	0	0	0	0	0	0	0	0	0
	N	0	0	N	0	0	0	0	0	0	0	0	0
	N	8	8	N	8	63	63	49	199				199
19SEP83	N	0	0	N	0	0	0	0	0	0	0	0	0
	N	0	0	N	0	0	0	0	0	0	0	0	0
	N	8	8	N	8	64	64	49	199				199
03OCT83	N	0	0	N	0	0	0	0	0	0	0	0	0
	N	0	0	N	0	0	0	0	0	0	0	0	0
	N	8	8	N	8	65	65	50	200				200
17OCT83	N	0	0	N	0	0	0	0	0	0	0	0	0
	N	0	0	N	0	0	0	0	0	0	0	0	0
	N	8	8	N	8	64	64	50	200				200
TOTAL	N	25	25	N	25	0	0	0	25	0	25	0	25
	N	25	25	N	25	0	0	0	25	0	25	0	25
	N	48	48	N	48	386	386	296	1198				1198

N -- STRATUM NOT SAMPLED

